



04/19/2022

MiTek USA, Inc.
16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

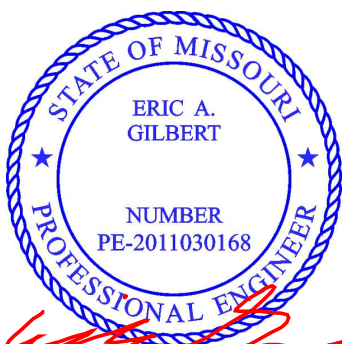
Re: 21-26876
290 PARK RIDGE

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

Pages or sheets covered by this seal: I49830475 thru I49830595

My license renewal date for the state of Missouri is December 31, 2023.

Missouri COA: Engineering 001193



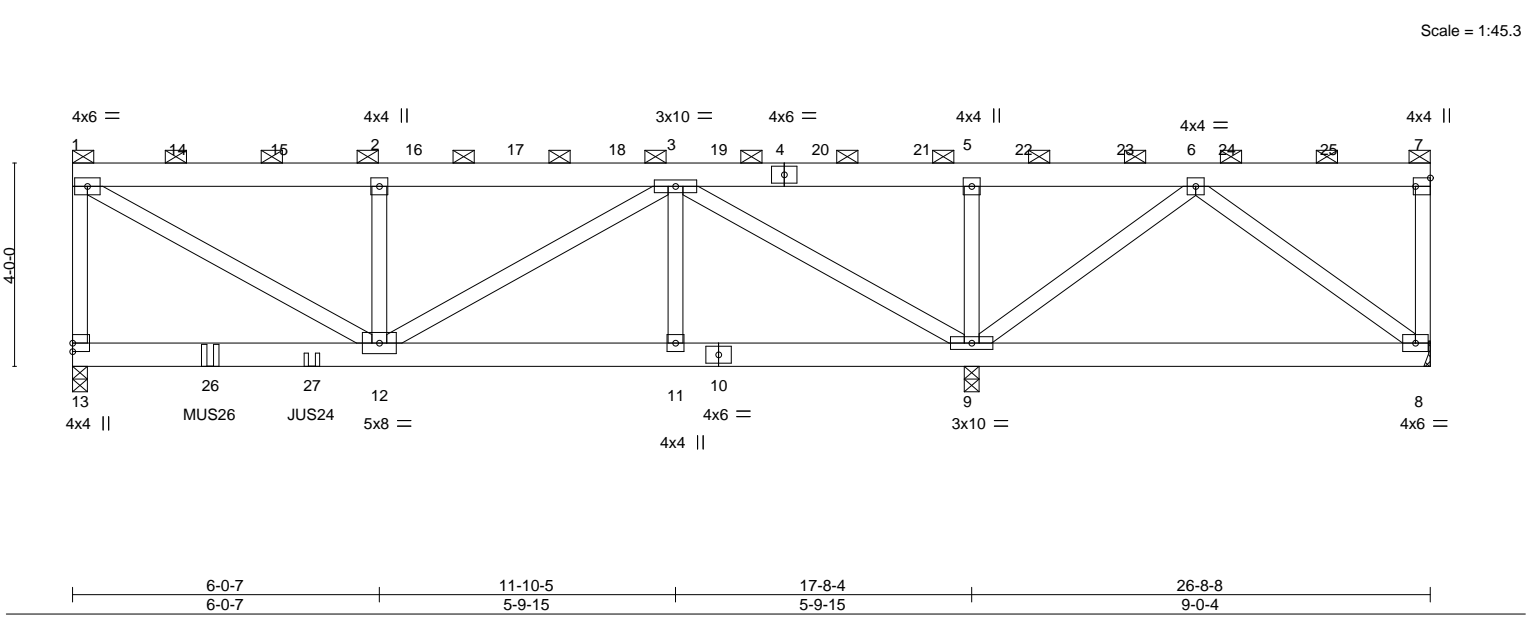
January 21, 2022

Gilbert, Eric ,Engineer

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	290 PARK RIDGE
21-26876	A1	Flat Girder	1	2	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,	8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:22:34 2022 Page 7
ID:GSVPvo9ERO5RBVVVhLhfk0yNGJr-TX7IvOJkQMMsJB?WLYEAddxtriRCBanc8wObzL5ip	149830475



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL 1.15	TC 0.52	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Lumber DOL 1.15	BC 0.61	Vert(LL) -0.08 12-13 >999 240		
TCDL 10.0	Rep Stress Incr NO	WB 0.84	Vert(CT) -0.14 12-13 >999 180		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS	Horz(CT) 0.01 8 n/a n/a		
BCDL 10.0				Weight: 384 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-7, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 8-9.

REACTIONS.	(size) 13=0-3-8, 8=Mechanical, 9=0-3-8
	Max Uplift 13=-855(LC 6), 8=-426(LC 7), 9=-1623(LC 7)
	Max Grav 13=3027(LC 2), 8=1131(LC 2), 9=5907(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-13=-2413/624, 1-2=-3524/898, 2-3=-3524/898, 3-5=-400/1550, 5-6=-400/1550, 7-8=-974/345
BOT CHORD	11-12=-638/2670, 9-11=-638/2670
WEBS	1-12=-1010/4007, 2-12=-1403/330, 3-12=-304/1093, 3-9=-4908/1215, 5-9=-1750/629, 6-9=-2180/671

- NOTES-**
- 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, 2x6 - 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.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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 855 lb uplift at joint 13, 426 lb uplift at joint 8 and 1623 lb uplift at joint 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie MUS26 (6-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 2-8-8 from the left end to connect truss(es) to back face of bottom chord.
 - Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent at 4-8-8 from the left end to connect truss(es) to back face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.

Continued on page 2	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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Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
21-26876	A1	Flat Girder	1	2	Job Reference (optional)	149830475

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:12:34 2022 Page 2

ID:GSVPvo9ERO5RBWVVLhkfkyNGJr-TX7IvOJkQMMsJB?WLYEAdcXtriRCBAnC8wObzL5ip

NOTES-

15) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 184 lb down and 76 lb up at 0-1-12, 124 lb down and 98 lb up at 2-0-12, 124 lb down and 98 lb up at 4-0-12, 80 lb down and 24 lb up at 6-0-12, 570 lb down and 153 lb up at 6-8-8, 665 lb down and 145 lb up at 8-8-8, 624 lb down and 184 lb up at 10-8-8, 706 lb down and 194 lb up at 12-8-8, 516 lb down and 226 lb up at 14-8-8, 516 lb down and 226 lb up at 16-8-8, 516 lb down and 226 lb up at 18-8-8, 516 lb down and 226 lb up at 20-8-8, 516 lb down and 226 lb up at 22-8-8, and 516 lb down and 226 lb up at 24-8-8, and 553 lb down and 216 lb up at 26-6-12 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-7=-58, 8-13=-20

Concentrated Loads (lb)

Vert: 1=-184 7=-483 2=-29 14=-124 15=-124 16=-506 17=-506 18=-453 19=-506 20=-453 21=-453 22=-453 23=-453 24=-453 25=-453 26=-754(B) 27=-561(B)

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	E6	Half Hip Girder	1	2	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:14 2022 Page 7
ID:GSPVp09ERO5RBWVVLhkfk0yNGJr-XnA5uaWTt4zgu2ekCY0dnwgs10dvdW9k8J6r0423Hr 20-3-12 149830476

04/19/2022

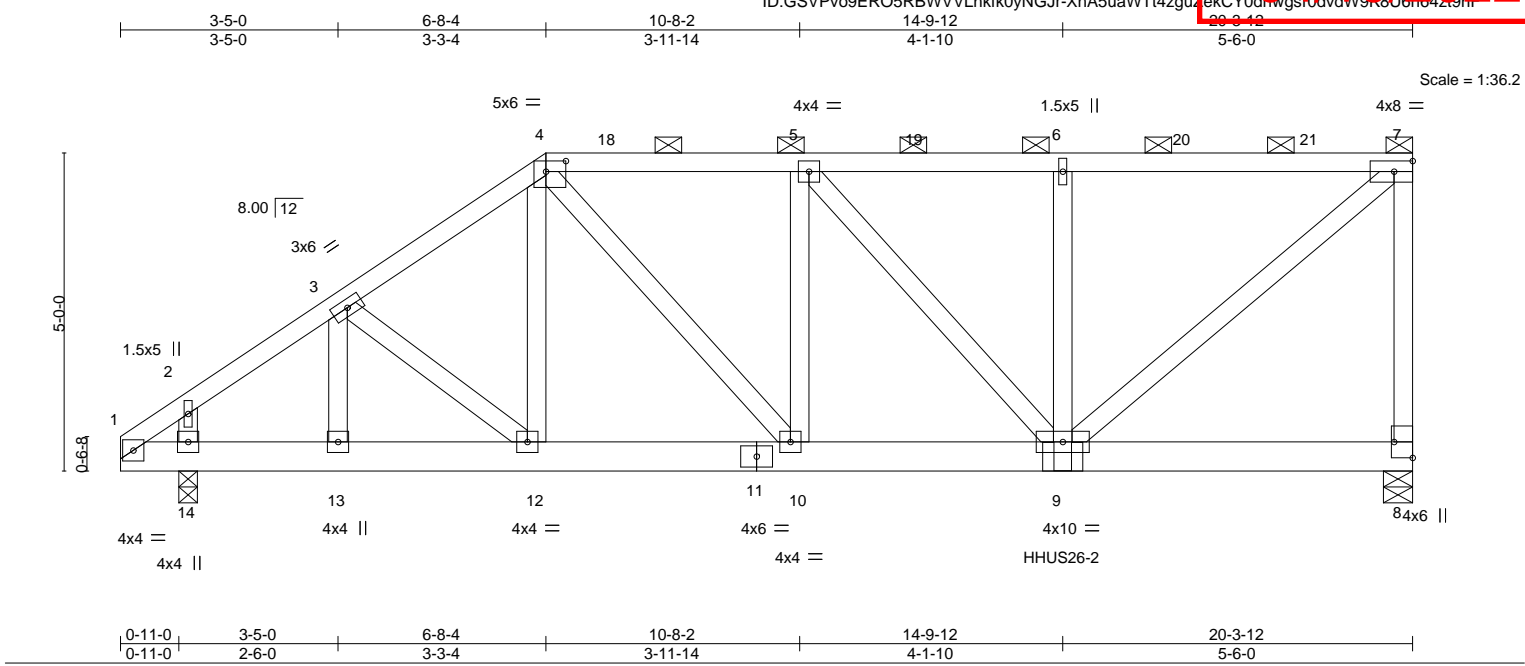


Plate Offsets (X,Y)-- [4:0-3-12,0-2-0], [8:Edge,0-3-8]									
LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP	
TCLL (roof) 25.0	Plate Grip DOL 1.15	TC 0.95	Vert(LL) -0.04	9-10	>999	240	MT20	244/190	
Snow (Pf/Pg) 19.3/25.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.07	9-10	>999	180			
TCDL 10.0	Rep Stress Incr NO	WB 0.42	Horz(CT) 0.01	8	n/a	n/a			
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-MS							
BCDL 10.0							Weight: 282 lb	FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 4-7: 2x4 SP DSS	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-7-10 max.): 4-7.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 8=0-5-8, 14=0-3-8
Max Horz 14=144(LC 10)
Max Uplift 8=915(LC 7), 14=315(LC 10)
Max Grav 8=3591(LC 2), 14=1556(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1286/262, 2-3=-1459/325, 3-4=-1830/455, 4-5=-2098/589, 5-6=-2700/758, 6-7=-2700/758, 7-8=-3482/912
BOT CHORD 1-14=-220/1131, 13-14=-354/1131, 12-13=-354/1131, 10-12=-399/1495, 9-10=-589/2098
WEBS 3-13=-594/144, 3-12=-119/499, 4-10=-292/986, 5-10=-625/231, 5-9=-462/955, 6-9=-1789/452, 7-9=-964/3395, 2-14=-353/100

- NOTES-**
- 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.
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.
 - 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.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) 8=915, 14=315.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent at 14-9-12 from the left end to connect truss(es) to front face of bottom chord.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	E6	Half Hip Girder	1	2	Job Reference (optional)

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:14 2022 Page 2

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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

NOTES-
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1119 lb down and 295 lb up at 16-8-8, and 1102 lb down and 251 lb up at 18-8-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-59, 4-7=-58, 8-15=-20
Concentrated Loads (lb)
Vert: 9=-958(F) 20=-984 21=-964

04/19/2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:14:12 2022 Page 2
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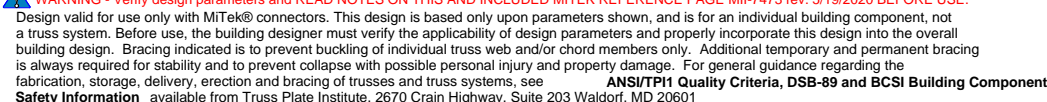
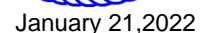


LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-9-12 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.1 *Except*	WEBS	1 Row at midpt 4-7
	2-8: 2x4 SP No.2		
OTHERS	2x6 SP No.1		
WEDGE			
Left:	2x10 SP No.1		

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

TOP CHORD	1-2=-1129/129, 2-4=-1030/242, 7-9=-161/890, 5-9=-161/890
BOT CHORD	1-8=-287/948, 7-8=-99/321
WEBS	2-8=-470/256, 4-8=-212/2973, 4-7=-708/199, 5-15=-1001/207

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 15-11-14, Exterior(2R) 15-11-14 to 18-11-14, Interior(1) 18-11-14 to 19-8-0 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
- 3) TCELL: ASCE 7-16; Pr=25.0 psf (roof LL; Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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 = 10.0psf.
- 6) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 15=185.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

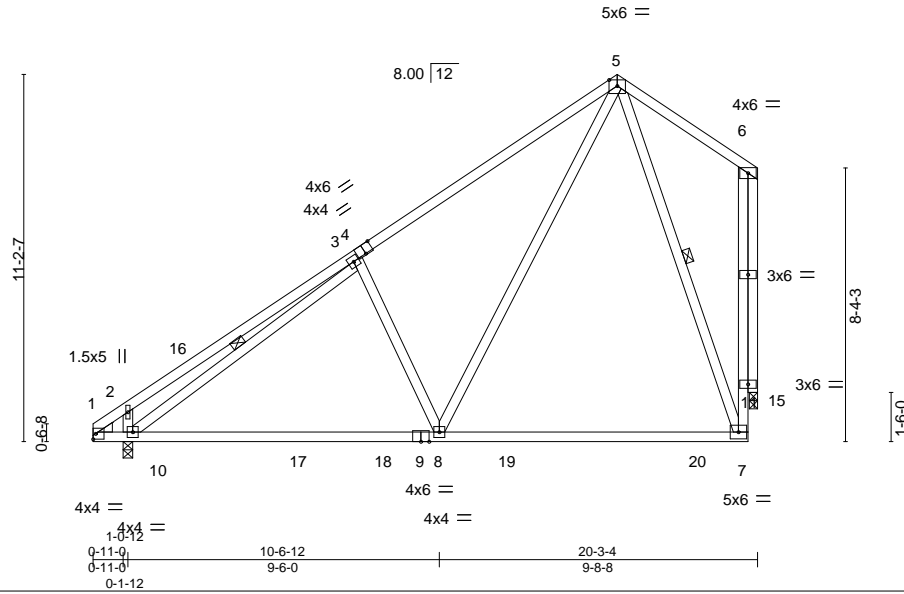


Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	E4	Common	1	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:13 2022 Page 1

ID:GSPVvo9ERO5RBWVVLhkfoyNGJr-7CUzFZUaa9b515v9WQTWSH2P WpWV/CatSWrViz9m

04/19/2022



Scale = 1:70.3

LOADING (psf)		SPACING-		CSL.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.70	Vert(LL)	-0.30 7-8 >751 240	MT20		244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.76	Vert(CT)	-0.46 7-8 >496 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	-0.05 15 n/a n/a				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							
BCDL	10.0										
								Weight: 146 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.1 *Except*	WEBS	1 Row at midpt 5-7, 3-10
	3-8,2-10: 2x4 SP No.2		
OTHERS	2x4 SP No.2		
WEDGE			
Left: 2x4 SP No.3			

REACTIONS. (size) 10=0-3-8, 15=0-3-0
Max Horz 10=260(LC 14)
Max Uplift 10=-92(LC 14), 15=-188(LC 14)
Max Grav 10=1077(LC 24), 15=989(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-388/6, 2-3=-566/253, 3-5=-968/309, 7-11=-230/897, 6-11=-230/897
BOT CHORD 1-10=-61/369, 8-10=-383/919, 7-8=-101/309
WEBS 3-8=-444/355, 5-8=-289/938, 5-7=-759/268, 2-10=-413/363, 3-10=-613/0, 6-15=-990/306

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 15-11-14, Corner(3R) 15-11-14 to 18-11-14, Exterior(2N) 18-11-14 to 19-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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, with BCDL = 10.0psf.
 - Bearing at joint(s) 15 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) 10 except (jt=lb) 15=188.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	E2	Common	3	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:34 08 2022 Page 1
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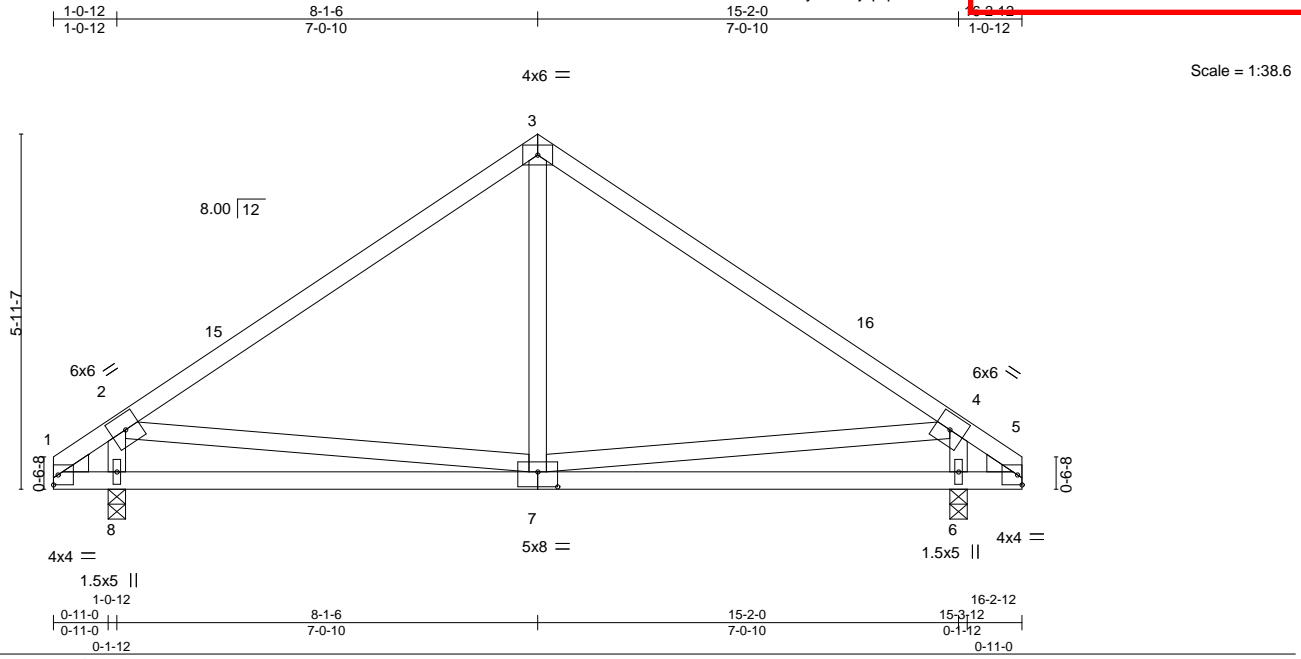


Plate Offsets (X,Y)-- [7:0-4-0,0-3-0]					
LOADING (psf)		SPACING-		CSI.	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.54
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.29
TCDL	10.0	Rep Stress Incr	YES	WB	0.08
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS	
BCDL	10.0				
				DEFL.	
				in (loc)	L/defl
				Vert(LL)	-0.03 6-7 >999 240
				Vert(CT)	-0.07 6-7 >999 180
				Horz(CT)	0.01 6 n/a n/a
				PLATES	GRIP
				MT20	244/190
				Weight: 85 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.3 , Right: 2x4 SP No.3	

REACTIONS.	(size) 6=0-3-8, 8=0-3-8
	Max Horz 8=-120(LC 12)
	Max Uplift 6=-114(LC 14), 8=-114(LC 14)
	Max Grav 6=730(LC 2), 8=730(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-669/240, 3-4=-669/240
BOT CHORD	1-8=-195/349, 7-8=-212/423, 6-7=-196/349, 5-6=-196/349
WEBS	4-6=-716/438, 2-8=-716/438, 3-7=-10/267

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 8-1-6, Corner(3R) 8-1-6 to 11-1-6, Exterior(2N) 11-1-6 to 16-2-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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) except (jt=lb) 6=114, 8=114.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	E1	GABLE	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:02 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhfk0yNGJr-uTRZNUNxiOSNSjQV1ppB0A1yBchpBZnCcZmZ19Hk 16-2-12 149830480

04/19/2022

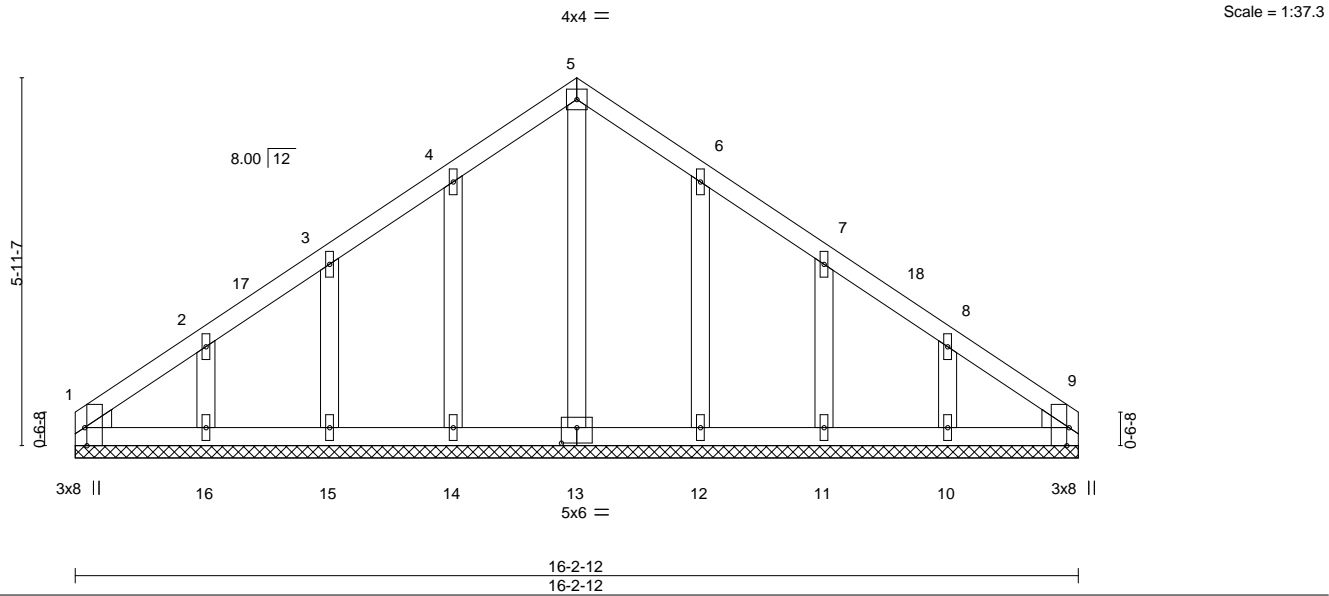


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [9:0-3-8,Edge], [13:0-3-0,0-3-0]									
LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Lumber DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr YES	WB 0.05	Horz(CT)	0.00	9	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-S						Weight: 87 lb	FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.2 , Right: 2x4 SP No.2	

REACTIONS. All bearings 16-2-12.
(lb) - Max Horz 1=125(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 14, 15, 16, 12, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 9, 15, 11, 1 except 14=324(LC 23), 16=254(LC 23), 12=319(LC 24), 10=253(LC 24)

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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 8-1-6, Corner(3R) 8-1-6 to 11-1-6, Exterior(2N) 11-1-6 to 16-2-12 zone;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.
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- All plates are 1.5x5 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 15, 16, 12, 11, 10.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

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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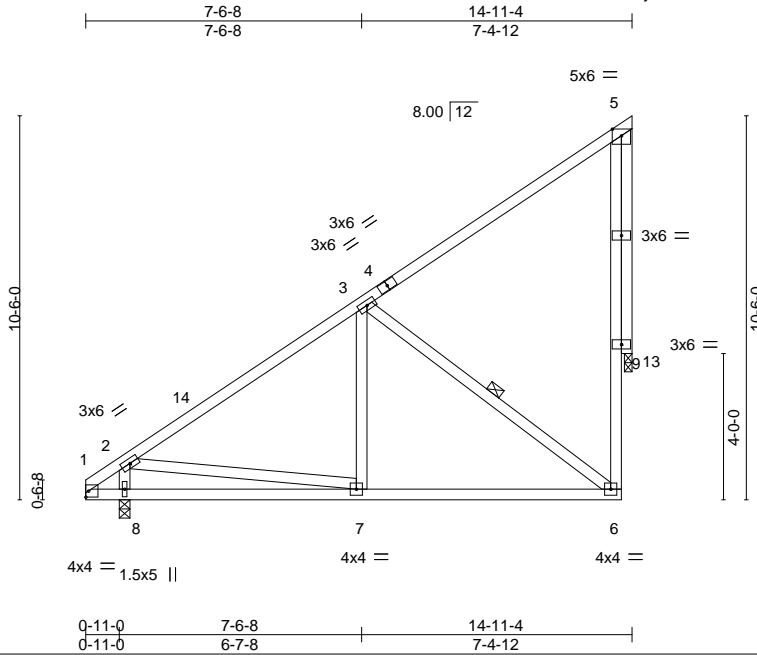


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	E7	Jack-Closed	7	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. From Jan 21 10:24:12 2022 Page 7
ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-XnA5uaWTt4zguzekCY0dhwgyPof7dxSk8Ujdn0429mfr

04/19/2022



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.53	Vert(LL) -0.06	6-7	>999	240	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.32	Vert(CT) -0.11	6-7	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.33	Horz(CT) 0.12	13	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 102 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 3-6
OTHERS 2x4 SP No.2	

REACTIONS. (size) 8=0-3-8, 13=0-2-8
Max Horz 8=310(LC 14)
Max Uplift 13=-206(LC 14)
Max Grav 8=719(LC 2), 13=591(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-686/0, 6-9=-112/406, 5-9=-112/406
BOT CHORD 7-8=-355/291, 6-7=-180/484
WEBS 3-7=0/270, 3-6=-563/211, 2-8=-650/92, 2-7=0/286, 5-13=-593/206

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=206.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	E8	Half Hip	1	1	
Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,					
8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:16 2022 Page 1					
Job Reference (optional)					

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/19/2022

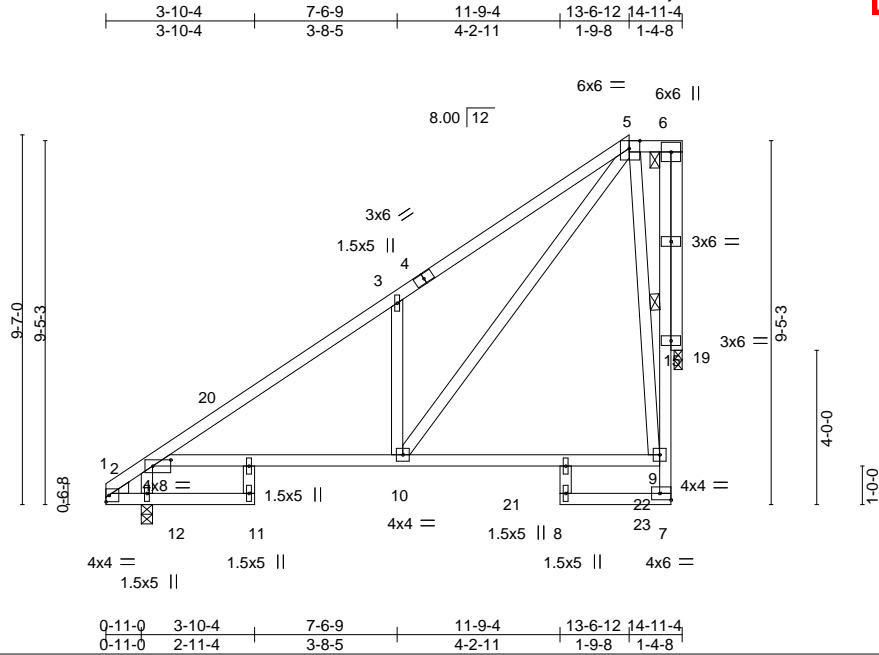


Plate Offsets (X,Y)-- [2:0-5-9,0-1-15], [5:0-3-5,Edge], [7:Edge,0-2-0]					
LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.48
TCDL	10.0	Rep Stress Incr	YES	WB	0.62
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS	
BCDL	10.0				
DEFL.		DEFL.		DEFL.	
Vert(LL)	-0.37	in (loc)	8	I/defl	>452
Vert(CT)	-0.54		8	L/d	180
Horz(CT)	-0.13		19	n/a	n/a
PLATES		GRIP			
MT20		244/190			
Weight: 113 lb FT = 20%					

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-10-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	2x4 SP No.1 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except*	WEBS	1 Row at midpt 5-9
OTHERS	6-7,5-10: 2x4 SP No.1		
WEDGE	2x4 SP No.2		
Left: 2x4 SP No.3			

REACTIONS. (size) 12=0-3-8, 19=0-2-8
Max Horz 12=286(LC 14)
Max Uplift 19=173(LC 14)
Max Grav 12=894(LC 24), 19=839(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-919/59, 3-5=-1016/270, 9-15=-248/815, 6-15=-248/815
BOT CHORD 1-12=-153/327, 2-10=-267/770
WEBS 2-12=-595/0, 3-10=-510/310, 5-10=-386/1075, 5-9=-569/289, 6-19=-841/213

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2E) 3-0-0 to 14-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - Bearing at joint(s) 19 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 at joint(s) 19.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=173.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



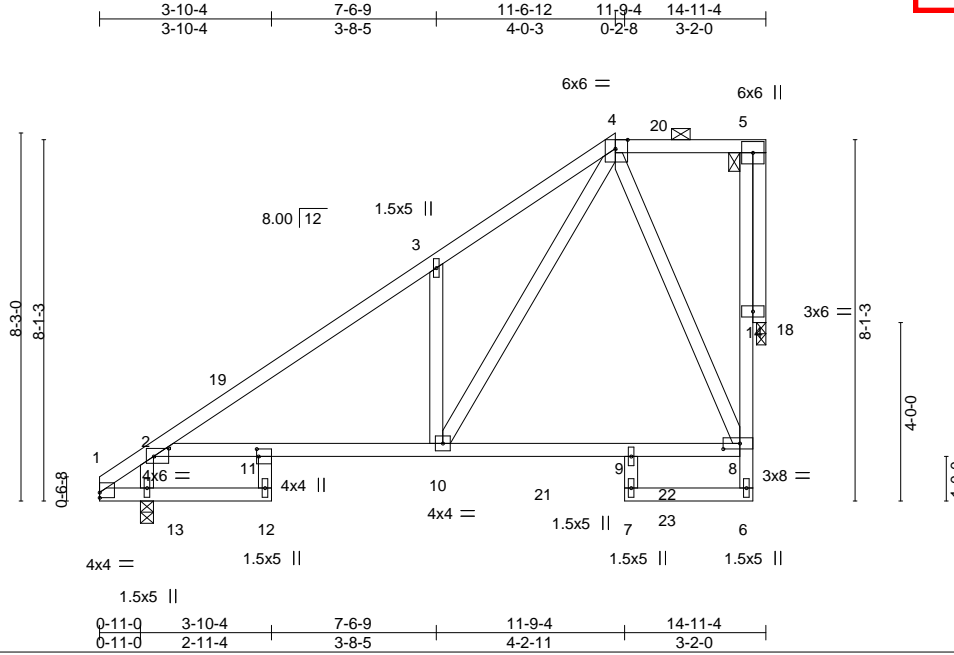
January 21, 2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	E9	Half Hip	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:16 2022 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.10 9-10 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.50	Vert(CT) -0.15 9-10 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.07 18 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 103 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x4 SP No.1 *Except	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 6-7.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. (size) 13=0-3-8, 18=0-2-8
Max Horz 13=243(LC 14)
Max Uplift 13=-41(LC 14), 18=-163(LC 14)
Max Grav 13=838(LC 24), 18=736(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-907/107, 3-4=-925/268, 8-14=-168/653, 5-14=-168/653
BOT CHORD 2-11=-48/535, 10-11=-246/713, 9-10=-91/264, 8-9=-103/257
WEBS 2-13=-815/201, 4-8=-528/210, 4-10=-306/889, 3-10=-407/245, 5-18=-739/199

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2E) 3-0-0 to 14-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - Bearing at joint(s) 18 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 at joint(s) 18.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 18=163.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

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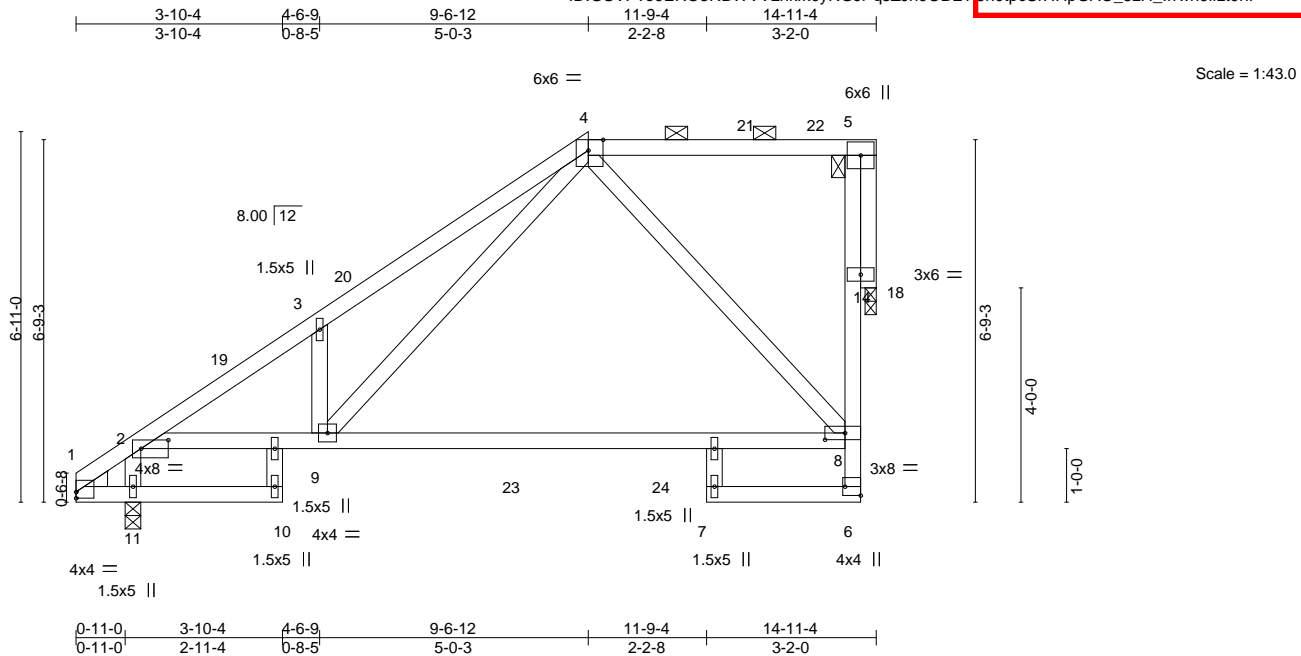


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	E10	Half Hip	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:04 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkfkyNGJr-qsZJn9OBE?5h0tpcShHpGAO_5ZL_rnm9lLz9Mf

04/19/2022



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.88	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.88	Vert(LL) -0.34 8-9 >485 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.44	Vert(CT) -0.58 8-9 >285 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.07 18 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 96 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-2-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x4 SP No.1 *Except	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 11=0-3-8, 18=0-2-8
Max Horz 11=201(LC 14)
Max Uplift 11=-47(LC 14), 18=-124(LC 14)
Max Grav 11=902(LC 24), 18=760(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1316/171, 3-4=-1376/330, 8-14=-110/620, 5-14=-110/620
BOT CHORD 2-9=-323/1103, 8-9=-140/420
WEBS 4-8=-467/205, 2-11=-595/36, 3-9=-311/228, 4-9=-272/1010, 5-18=-768/155

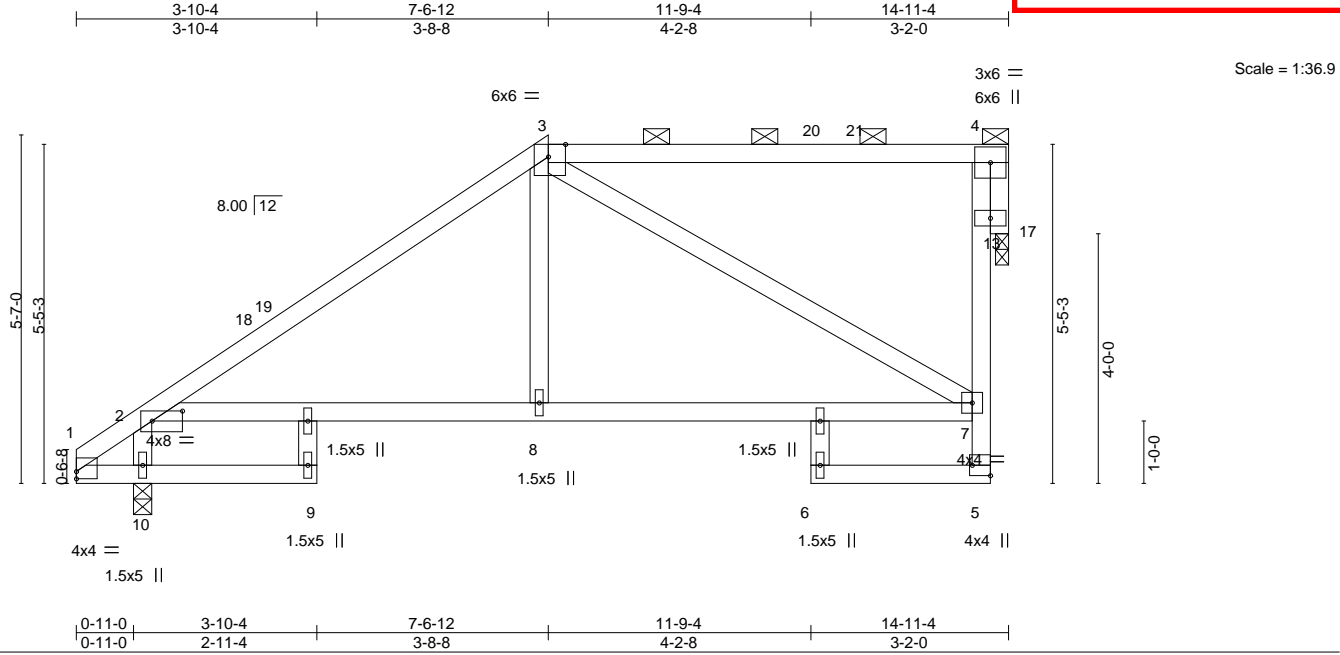
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-6-12, Exterior(2R) 9-6-12 to 13-9-11, Interior(1) 13-9-11 to 14-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - Bearing at joint(s) 18 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 at joint(s) 18.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 18=124.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	E11	Half Hip	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24 2022 Page 7
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	0.22 9 >768 240	MT20		244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.42	Vert(CT)	-0.32 6 >513 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.14 17 n/a n/a				
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-11-1 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD	2x4 SP No.1 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		

REACTIONS.	
(size)	10=0-3-8, 17=0-2-8
Max Horz	10=158(LC 14)
Max Uplift	10=-65(LC 14), 17=-132(LC 11)
Max Grav	10=776(LC 2), 17=640(LC 2)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-837/140, 7-13=-65/431, 4-13=-65/431
BOT CHORD	2-8=-182/601, 7-8=-182/593
WEBS	3-8=0/346, 3-7=-562/201, 2-10=-595/77, 4-17=-678/144

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-6-12, Exterior(2R) 7-6-12 to 11-9-11, Interior(1) 11-9-11 to 14-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.00; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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) 17 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 at joint(s) 17.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 17=132.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:14:05 2022 Page 1

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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5. Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD	2x4 SP No.1 *Except* 10-12,7-13: 2x4 SP No.2	BOT CHORD	
WEBS	2x4 SP No.2		

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

TOP CHORD	2-3=-960/174, 3-4=-724/190, 6-8=-603/158
BOT CHORD	2-9=-188/733, 8-9=-196/683
WEBS	3-9=0/293, 2-11=-581/114, 4-8=-723/241

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-6-12, Exterior(2R) 5-6-12 to 9-11-12, Interior(1) 9-11-12 to 14-6-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TcLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 6=142.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022



WARNING – Velly design parameters are listed below and included with the key reference to AISC M14-15 16f, 17f, 18f, 19f, 20f, 21f, 22f, 23f, 24f, 25f, 26f, 27f, 28f, 29f, 30f, 31f, 32f, 33f, 34f, 35f, 36f, 37f, 38f, 39f, 40f, 41f, 42f, 43f, 44f, 45f, 46f, 47f, 48f, 49f, 50f, 51f, 52f, 53f, 54f, 55f, 56f, 57f, 58f, 59f, 60f, 61f, 62f, 63f, 64f, 65f, 66f, 67f, 68f, 69f, 70f, 71f, 72f, 73f, 74f, 75f, 76f, 77f, 78f, 79f, 80f, 81f, 82f, 83f, 84f, 85f, 86f, 87f, 88f, 89f, 90f, 91f, 92f, 93f, 94f, 95f, 96f, 97f, 98f, 99f, 100f, 101f, 102f, 103f, 104f, 105f, 106f, 107f, 108f, 109f, 110f, 111f, 112f, 113f, 114f, 115f, 116f, 117f, 118f, 119f, 120f, 121f, 122f, 123f, 124f, 125f, 126f, 127f, 128f, 129f, 130f, 131f, 132f, 133f, 134f, 135f, 136f, 137f, 138f, 139f, 140f, 141f, 142f, 143f, 144f, 145f, 146f, 147f, 148f, 149f, 150f, 151f, 152f, 153f, 154f, 155f, 156f, 157f, 158f, 159f, 160f, 161f, 162f, 163f, 164f, 165f, 166f, 167f, 168f, 169f, 170f, 171f, 172f, 173f, 174f, 175f, 176f, 177f, 178f, 179f, 180f, 181f, 182f, 183f, 184f, 185f, 186f, 187f, 188f, 189f, 190f, 191f, 192f, 193f, 194f, 195f, 196f, 197f, 198f, 199f, 200f, 201f, 202f, 203f, 204f, 205f, 206f, 207f, 208f, 209f, 210f, 211f, 212f, 213f, 214f, 215f, 216f, 217f, 218f, 219f, 220f, 221f, 222f, 223f, 224f, 225f, 226f, 227f, 228f, 229f, 230f, 231f, 232f, 233f, 234f, 235f, 236f, 237f, 238f, 239f, 240f, 241f, 242f, 243f, 244f, 245f, 246f, 247f, 248f, 249f, 250f, 251f, 252f, 253f, 254f, 255f, 256f, 257f, 258f, 259f, 260f, 261f, 262f, 263f, 264f, 265f, 266f, 267f, 268f, 269f, 270f, 271f, 272f, 273f, 274f, 275f, 276f, 277f, 278f, 279f, 280f, 281f, 282f, 283f, 284f, 285f, 286f, 287f, 288f, 289f, 290f, 291f, 292f, 293f, 294f, 295f, 296f, 297f, 298f, 299f, 300f, 301f, 302f, 303f, 304f, 305f, 306f, 307f, 308f, 309f, 310f, 311f, 312f, 313f, 314f, 315f, 316f, 317f, 318f, 319f, 320f, 321f, 322f, 323f, 324f, 325f, 326f, 327f, 328f, 329f, 330f, 331f, 332f, 333f, 334f, 335f, 336f, 337f, 338f, 339f, 340f, 341f, 342f, 343f, 344f, 345f, 346f, 347f, 348f, 349f, 350f, 351f, 352f, 353f, 354f, 355f, 356f, 357f, 358f, 359f, 360f, 361f, 362f, 363f, 364f, 365f, 366f, 367f, 368f, 369f, 370f, 371f, 372f, 373f, 374f, 375f, 376f, 377f, 378f, 379f, 380f, 381f, 382f, 383f, 384f, 385f, 386f, 387f, 388f, 389f, 390f, 391f, 392f, 393f, 394f, 395f, 396f, 397f, 398f, 399f, 400f, 401f, 402f, 403f, 404f, 405f, 406f, 407f, 408f, 409f, 410f, 411f, 412f, 413f, 414f, 415f, 416f, 417f, 418f, 419f, 420f, 421f, 422f, 423f, 424f, 425f, 426f, 427f, 428f, 429f, 430f, 431f, 432f, 433f, 434f, 435f, 436f, 437f, 438f, 439f, 440f, 441f, 442f, 443f, 444f, 445f, 446f, 447f, 448f, 449f, 450f, 451f, 452f, 453f, 454f, 455f, 456f, 457f, 458f, 459f, 460f, 461f, 462f, 463f, 464f, 465f, 466f, 467f, 468f, 469f, 470f, 471f, 472f, 473f, 474f, 475f, 476f, 477f, 478f, 479f, 480f, 481f, 482f, 483f, 484f, 485f, 486f, 487f, 488f, 489f, 490f, 491f, 492f, 493f, 494f, 495f, 496f, 497f, 498f, 499f, 500f, 501f, 502f, 503f, 504f, 505f, 506f, 507f, 508f, 509f, 510f, 511f, 512f, 513f, 514f, 515f, 516f, 517f, 518f, 519f, 520f, 521f, 522f, 523f, 524f, 525f, 526f, 527f, 528f, 529f, 530f, 531f, 532f, 533f, 534f, 535f, 536f, 537f, 538f, 539f, 540f, 541f, 542f, 543f, 544f, 545f, 546f, 547f, 548f, 549f, 550f, 551f, 552f, 553f, 554f, 555f, 556f, 557f, 558f, 559f, 560f, 561f, 562f, 563f, 564f, 565f, 566f, 567f, 568f, 569f, 570f, 571f, 572f, 573f, 574f, 575f, 576f, 577f, 578f, 579f, 580f, 581f, 582f, 583f, 584f, 585f, 586f, 587f, 588f, 589f, 590f, 591f, 592f, 593f, 594f, 595f, 596f, 597f, 598f, 599f, 600f, 601f, 602f, 603f, 604f, 605f, 606f, 607f, 608f, 609f, 610f, 611f, 612f, 613f, 614f, 615f, 616f, 617f, 618f, 619f, 620f, 621f, 622f, 623f, 624f, 625f, 626f, 627f, 628f, 629f, 630f, 631f, 632f, 633f, 634f, 635f, 636f, 637f, 638f, 639f, 640f, 641f, 642f, 643f, 644f, 645f, 646f, 647f, 648f, 649f, 650f, 651f, 652f, 653f, 654f, 655f, 656f, 657f, 658f, 659f, 660f, 661f, 662f, 663f, 664f, 665f, 666f, 667f, 668f, 669f, 670f, 671f, 672f, 673f, 674f, 675f, 676f, 677f, 678f, 679f, 680f, 681f, 682f, 683f, 684f, 685f, 686f, 687f, 688f, 689f, 690f, 691f, 692f, 693f, 694f, 695f, 696f, 697f, 698f, 699f, 700f, 701f, 702f, 703f, 704f, 705f, 706f, 707f,

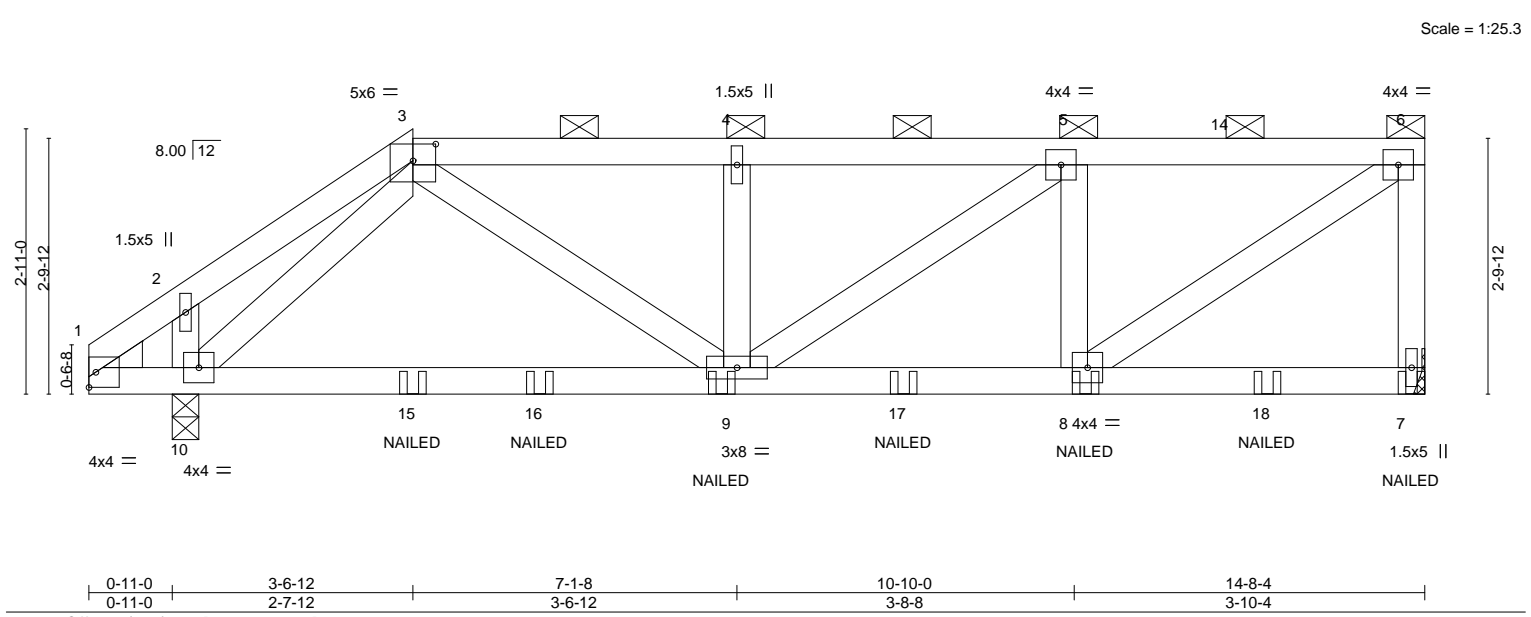


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	E13	Half Hip Girder	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:02 2022 Page 7
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04/19/2022



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.16	Vert(LL)	0.08 9-10 >999 240	MT20		244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.10 9-10 >999 180				
TCDL	10.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.01 7 n/a n/a				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-8 max.): 3-6.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 9-5-9 oc bracing.
WEBS	2x4 SP No.2		
WEDGE			
Left: 2x4 SP No.3			

REACTIONS.	
(size) 7=Mechanical, 10=0-3-8	
Max Horz 10=74(LC 10)	
Max Uplift 7=420(LC 7), 10=331(LC 7)	
Max Grav 7=887(LC 2), 10=932(LC 2)	

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-279/160, 2-3=-275/183, 3-4=-1197/565, 4-5=-1196/564, 5-6=-937/430, 6-7=-736/335
BOT CHORD	9-10=-309/646, 8-9=-430/937
WEBS	3-9=-319/696, 4-9=-272/119, 5-9=-163/313, 5-8=-451/209, 6-8=-506/1101, 3-10=-656/220

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) 7=420, 10=331.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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	



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
21-26876	E13	Half Hip Girder	1	1	Job Reference (optional)	149830487

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,
8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:07 2022 Page 2
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04/19/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-3=-59, 3-6=-58, 7-11=-20
- Concentrated Loads (lb)
- Vert: 7=-64(F) 9=-54(F) 8=-54(F) 15=-137(F) 16=-54(F) 17=-54(F) 18=-54(F)

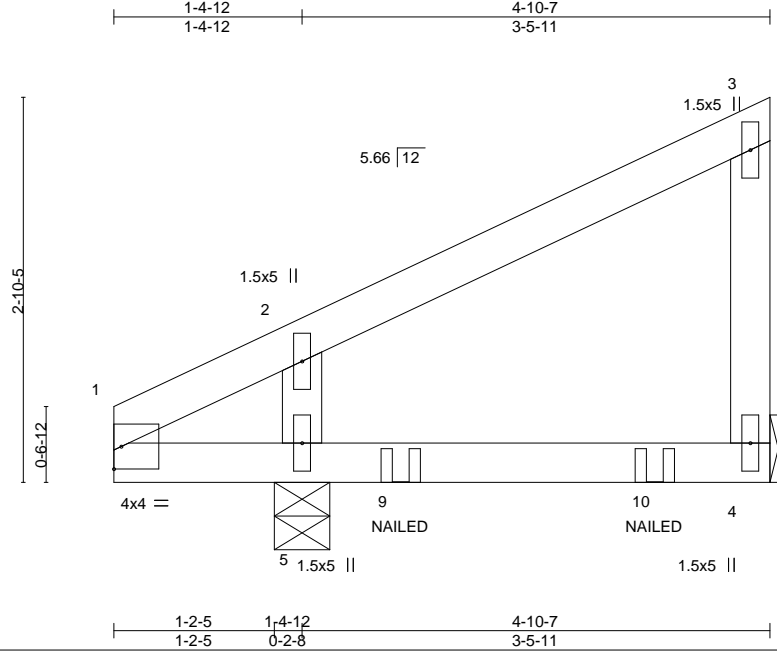


Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	CJ1	Diagonal Hip Girder	1	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:36 2022 Page 149830488

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04/19/2022



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) 0.01 4-5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.01 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.00 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 20 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-10-7 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-4-15
Max Horz 5=71(LC 12)
Max Uplift 4=-98(LC 12), 5=-47(LC 12)
Max Grav 4=165(LC 16), 5=376(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-306/82

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) 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) 4, 5.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)
Vert: 1-3=-58, 4-6=-20

Concentrated Loads (lb)
Vert: 9=-7(B) 10=-17(F)



January 21, 2022

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

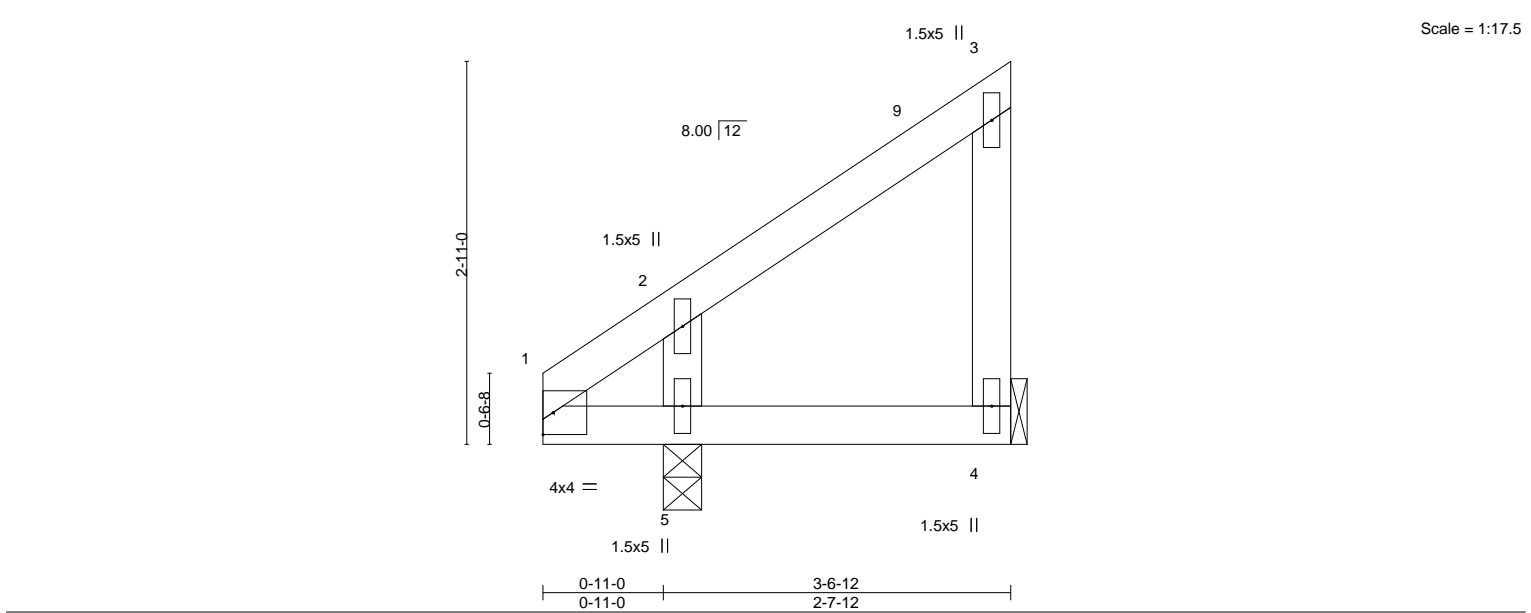
MiTek®

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M2	Jack-Closed	6	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:43 2022 Page 1

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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.07	Vert(LL)	0.00	4-5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.09	Vert(CT)	-0.00	4-5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-6-12 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=95(LC 13)
Max Uplift 4=-56(LC 11), 5=-55(LC 14)
Max Grav 4=104(LC 23), 5=223(LC 2)

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

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 3-5-0 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
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, 5.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



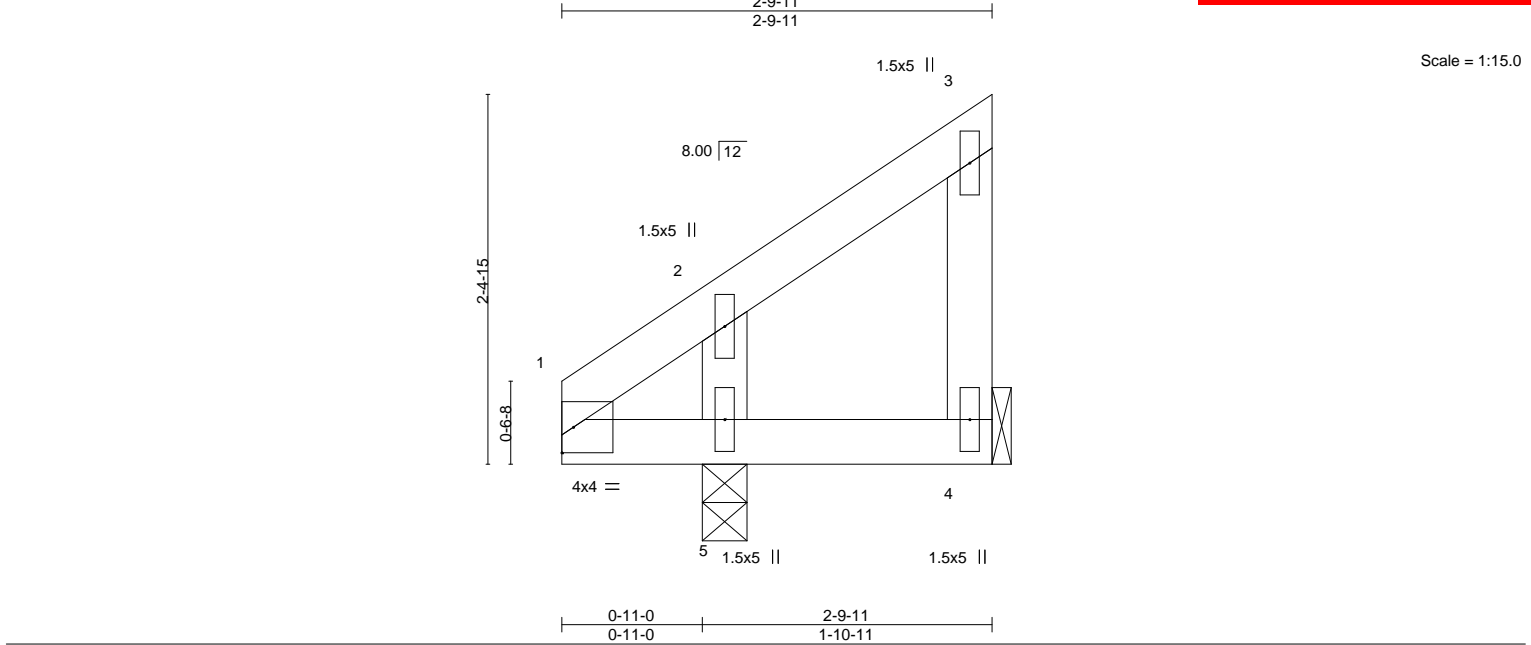
January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M3	Jack-Closed	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. From Jan 21 03:44:48 2022 Page 1
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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/19/2022



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.05	Vert(LL)	0.00	5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	0.00	5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 13 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-9-11 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=75(LC 13)
Max Uplift 4=-50(LC 11), 5=-55(LC 14)
Max Grav 4=62(LC 23), 5=199(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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, 5.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

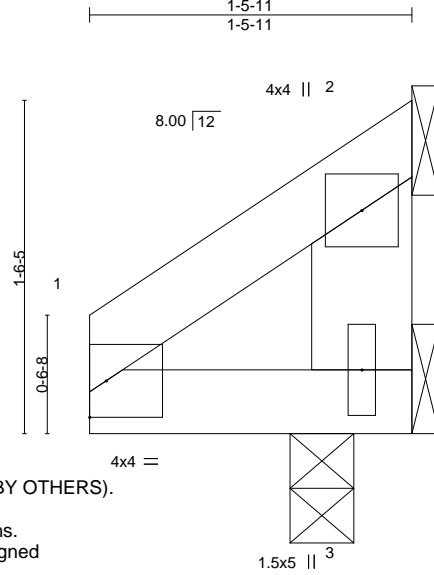
Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M4	Jack-Closed	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:48 2022 Page 1

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04/19/2022



Scale = 1:10.5

TRUSS MUST BE CONNECTED TO THE BEARINGS FOR ALL VERTICAL AND HORIZONTAL REACTIONS (BY OTHERS).

Careful consideration should be given to bearing conditions. Bearings and truss to bearing connections should be designed in such a manner that they will safely withstand the lateral forces of the trusses.

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.03	Vert(LL)	-0.00	6	n/r	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	-0.00	6	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00		n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 7 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-5-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 3=0-3-8, 3=0-3-8, 2=Mechanical
Max Horz 3=-66(LC 2), 3=-58(LC 1), 2=66(LC 2)
Max Uplift 3=-16(LC 14), 2=-29(LC 14)
Max Grav 3=28(LC 5), 3=23(LC 1), 2=87(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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) 3, 2.
- 7) Non Standard bearing condition. Review required.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



January 21, 2022

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	A2	Piggyback Base Girder	1	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:22:36 2022 Page 149830492

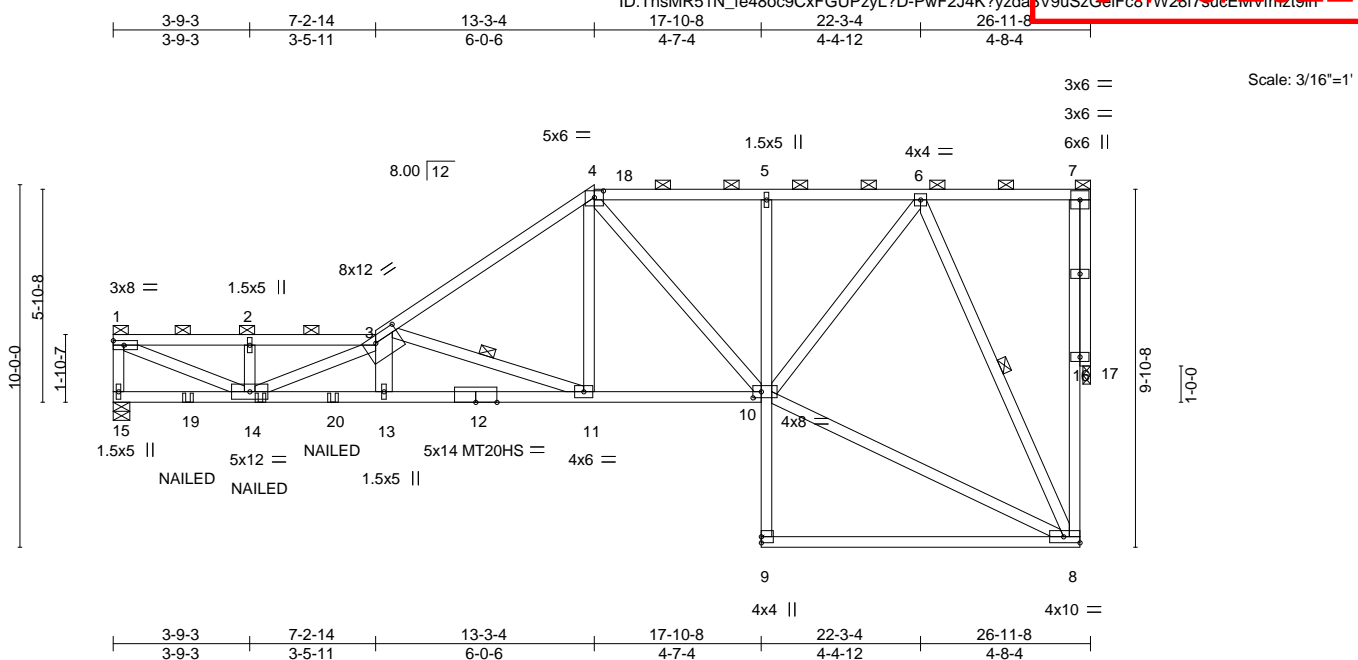


Plate Offsets (X,Y)-- [3:0-8-0,0-2-4], [4:0-3-0,0-2-3], [8:Edge,0-2-0], [10:0-2-12,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.83	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) -0.24 11-13 >999 240	MT20HS	187/143
TCDL 10.0	Lumber DOL 1.15	WB 0.67	Vert(CT) -0.43 11-13 >747 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.24 17 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 200 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-11-10 oc purlins, except end verticals, and 2-0-0 oc purlins (3-9-0 max.): 1-3, 4-7.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-8-7 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 3-11, 6-8
OTHERS 2x4 SP No.2	

REACTIONS. (size) 15=0-5-8, 17=0-2-8
Max Horz 15=129(LC 10)
Max Uplift 15=-268(LC 10), 17=-274(LC 7)
Max Grav 15=1289(LC 2), 17=1189(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-1232/261, 1-2=-2588/526, 2-3=-2589/526, 3-4=-1946/322, 4-5=-1320/288, 5-6=-1310/286, 8-16=-224/1074, 7-16=-224/1074
BOT CHORD 13-14=-876/4125, 11-13=-874/4138, 10-11=-313/1506, 5-10=-335/136
WEBS 1-14=-557/2751, 2-14=-251/123, 3-14=-1693/244, 3-11=-2705/579, 4-11=-120/854, 4-10=-292/88, 8-10=-171/647, 6-10=-223/1159, 6-8=-1378/351, 7-17=-1193/275

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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) 17 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 at joint(s) 17.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 15 and 274 lb uplift at joint 17.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
21-26876	A2	Piggyback Base Girder	1	1	Job Reference (optional)	149830492

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,
8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:12:36 2022 Page 2
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04/19/2022

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
- Vert: 1-3=-58, 3-4=-58, 4-7=-58, 10-15=-20, 8-9=-20
- Concentrated Loads (lb)
- Vert: 14=-31(B) 19=-31(B) 20=-61(B)


Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 00:12:37 2022 Page 1
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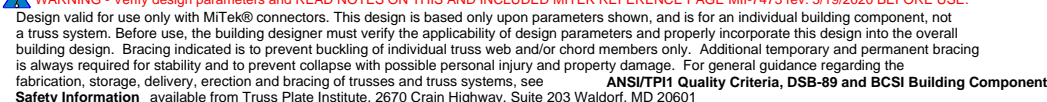
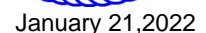
REACTIONS. (size) 16=0-5-8, 18=0-2-8
 Max Horz 16=76(LC 14)
 Max Uplift 16=-179(LC 10), 18=-230(LC 11)
 Max Grav 16=1202(LC 2), 18=1172(LC 2)

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 13-3-4, Exterior(2R) 13-3-4 to 16-3-4, Interior(1) 16-3-4 to 22-9-12, Exterior(2E) 22-9-12 to 23-9-8, Interior(1) 23-9-8 to 26-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 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) 18 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 at joint(s) 18.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 179 lb uplift at joint 16 and 230 lb uplift at joint 18.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

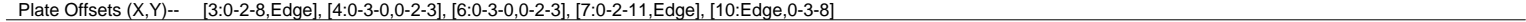


January 21, 2023



Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 00:12:39 2022 Page 1
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5-3-3	10-2-14	13-3-4	17-10-8	22-9-12	25-9-8	27-0-15	31-7-7	36-1-0
5-3-3	4-11-11	3-0-6	4-7-4	4-11-4	2-11-12	1-3-7	4-6-8	4-9-0

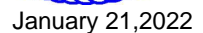


LUMBER-	BRACING-
1	1
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92	92
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98	98
99	99
100	100

REACTIONS. All bearings 0-3-8 except (jt=length) 20=0-5-8, 11=0-2-0.
(lb) Max Load: 20, 45/1 G 12)

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

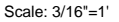
January 21, 2022



Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 00:12:41 2022 Page 2

ID: GSPVvo9ERO5RBWVVLhkf0yNGJr-mu2xNnO7nVFS EG1sFWspPIR5hX9KLuIdv4GLZt5n

5-11-11	11-8-14	13-3-4	17-10-8	22-9-12	27-0-15	27-9-8	32-3-1	36-1-9
5-11-11	5-9-3	1-6-6	4-7-4	4-11-4	4-3-3	0-8-9	4-5-9	4-1-7



LOADING (psf)		SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL (roof) 25.0		Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.19 14-15 >574 240	MT20	244/190
Snow (Pf/Pg) 19.3/25.0		Lumber DOL 1.15	BC 0.52	Vert(CT) -0.38 14-15 >287 180		
TCDL 10.0		Rep Stress Incr YES	WB 0.85	Horz(CT) 0.01 16 n/a n/a		
BCLL 0.0 *		Code IRC2018/TPI2014	Matrix-MS		Weight: 264 lb	FT = 20%
BCDL 10.0						

REACTIONS. All bearings 0-3-8 except (jt=length) 20=0-5-8, 11=0-2-0.
 (lb) - Max Horz 20=-74(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) except 20=-170(LC 10), 11=-100(LC 11), 16=-242(LC 14),
 14=-106(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) except 20=669(LC 30), 11=373(LC 31), 16=1565(LC 2), 14=739(LC
 31)

NOTES-

1) Unbalanced roof live loads have been considered for this design.

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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/TP1 Quality Criteria, DSB-89 and BCSI Building Component**

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

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	A6	Piggyback Base	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:22:42 2022 Page 1
ID:GSVPvo9ERO5RBVVVhkf0yNGJr-E4cJa7PIYpNjsC2pEN2yWsd1xBR3wen_ApptCz19n
149830496
04/19/2022

Scale = 1:65.0

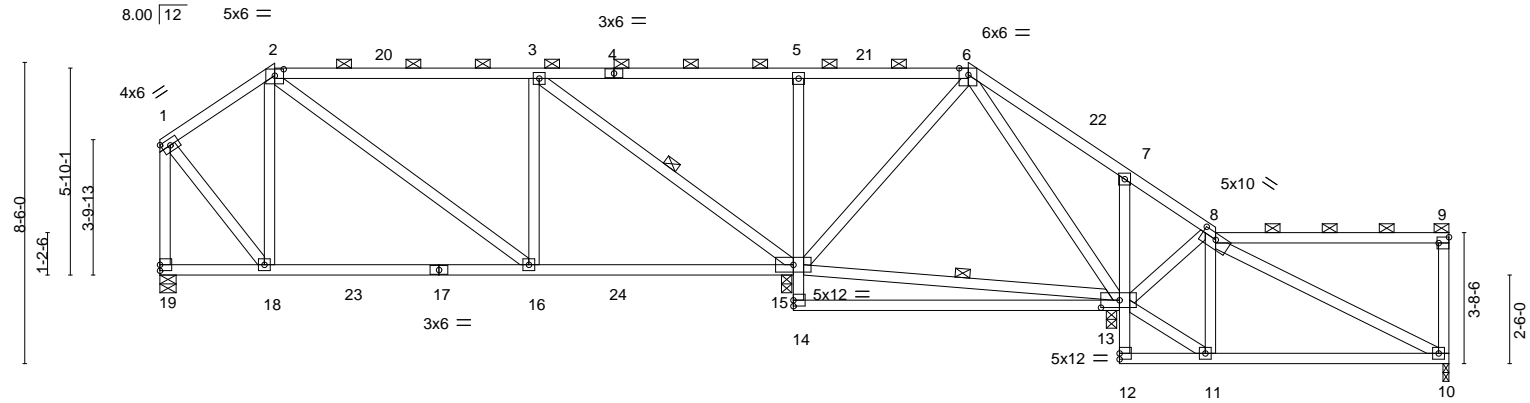


Plate Offsets (X,Y)--	[2:0-3-0,0-2-3], [6:0-3-2,Edge], [8:0-5-0,0-2-0], [9:Edge,0-3-8], [13:0-6-5,0-2-8]
-----------------------	------------------------------------------------------------------------------------

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.19 13-14 >576 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.36	Vert(CT) -0.38 13-14 >289 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 15 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 245 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-6, 8-9.
BOT CHORD 2x4 SP No.1 *Except* 5-14,7-12: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 13-15,3-15,2-16: 2x4 SP No.1	WEBS 1 Row at midpt 13-15, 3-15

REACTIONS. All bearings 0-3-8 except (jt=length) 10=0-2-0, 19=0-5-8.
(lb) - Max Horz 19=-86(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 10 except 19=-114(LC 14), 13=-133(LC 14), 15=-223(LC 14)
Max Grav All reactions 250 lb or less at joint(s) except 10=350(LC 23), 19=801(LC 23), 13=880(LC 24), 15=1471(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-501/101, 2-3=-626/153, 1-19=-793/130
BOT CHORD 16-18=-0/446, 15-16=-47/659, 5-15=-456/134, 7-13=-264/142
WEBS 2-18=-301/115, 6-15=-303/94, 11-13=-2/285, 8-13=-364/81, 1-18=-102/612, 3-15=-1059/198, 3-16=-14/254, 2-16=-79/308

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-2-14, Exterior(2R) 3-2-14 to 6-2-14, Interior(1) 6-2-14 to 22-9-12, Exterior(2R) 22-9-12 to 25-9-12, Interior(1) 25-9-12 to 36-2-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 4x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 19=114, 13=133, 15=223.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



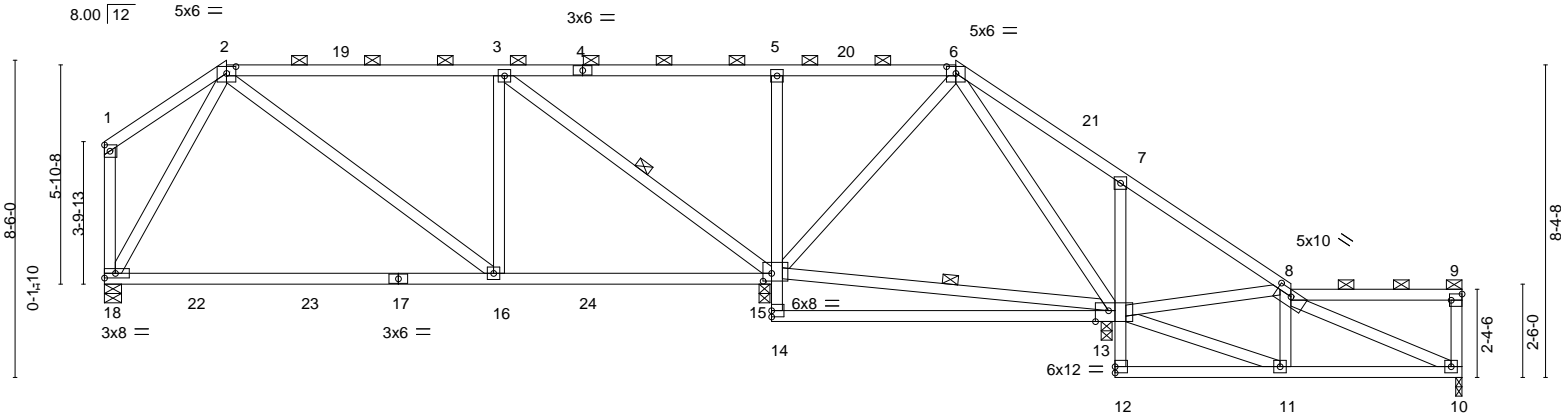
January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	A7	Piggyback Base	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:22:42 2022 Page 7
ID:GSVPvo9ERO5RBWVVLhkf0yNGJr-ATk4?pQ03QdR5jmRwlfW1xyZZkpyXpP4RCWwXzt5H
149830497
Job Reference (optional)

04/19/2022

Scale = 1:61.7



3-3-4	10-6-14	17-6-8	17-10-8	22-9-12	27-0-0	27-0-15	31-9-8	36-4-8
3-3-4	7-3-10	6-11-10	0-4-0	4-11-4	4-2-4	0-0-15	4-8-9	4-7-0

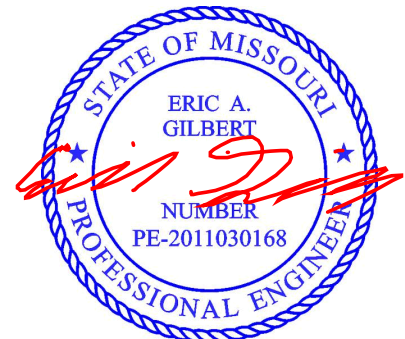
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.39 16-18 >553	L/d	240	MT20	244/190
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.66 16-18 >326		180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.01 15 n/a		n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS						Weight: 238 lb	FT = 20%
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-6, 8-9.
BOT CHORD	2x4 SP No.1 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
	7-12: 2x4 SP No.2		6-0-0 oc bracing: 11-12.
WEBS	2x4 SP No.2 *Except*	WEBS	1 Row at midpt 3-15, 13-15
	2-16,3-15,13-15: 2x4 SP No.1		

REACTIONS. All bearings 0-3-8 except (jt=length) 10=0-2-0, 18=0-5-8.
(lb) - Max Horz 18=-129(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 10 except 13=-153(LC 14), 15=-203(LC 14), 18=-119(LC 14)
Max Grav All reactions 250 lb or less at joint(s) except 10=322(LC 24), 13=950(LC 24), 15=1450(LC 23), 18=811(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-659/157, 6-7=-7/269, 7-8=-81/307
BOT CHORD 16-18=0/396, 15-16=-19/697, 5-15=-457/134, 7-13=-369/184, 10-11=-21/296
WEBS 2-16=-67/423, 3-16=-12/288, 3-15=-1104/184, 6-15=-272/79, 11-13=-8/380, 8-13=-502/107, 8-10=-289/11, 2-18=-615/177

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-1-12 to 3-3-4, Exterior(2R) 3-3-4 to 6-3-4, Interior(1) 6-3-4 to 22-9-12, Exterior(2R) 22-9-12 to 25-9-12, Interior(1) 25-9-12 to 36-2-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 4x4 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 13=153, 15=203, 18=119.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

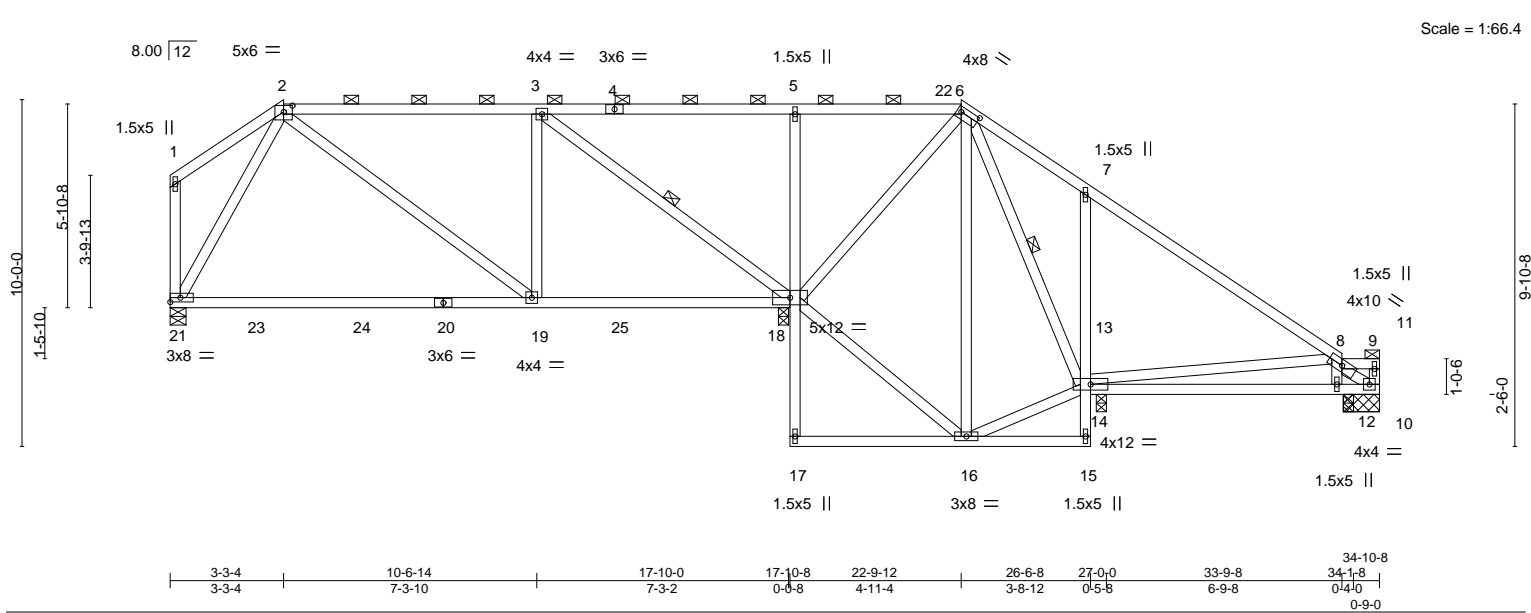
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	A8	Piggyback Base	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:22:45 2022 Page 7
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LOADING (psf)		SPACING		CSI		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.62	Vert(LL)	-0.39 19-21 >553 240	MT20		244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.66 19-21 >326 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.01 18 n/a n/a				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins, except end verticals, and 2'-0" oc purlins (6'-0" max.): 2-6, 8-9.
BOT CHORD	2x4 SP No.1 *Except*	BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.
WEBS	2x4 SP No.2 *Except*	WEBS	1 Row at midpt 3-18, 6-14
	2-19,3-18,6-16,6-14: 2x4 SP No.1		

REACTIONS. All bearings 0-3-8 except (jt=length) 10=1-0-8, 21=0-5-8.
(lb) - Max Horz 21=172(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 13 except 10=246(LC 24), 18=219(LC 14), 21=126(LC 14), 11=175(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 10 except 18=1481(LC 23), 21=821(LC 23), 13=640(LC 24), 11=696(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=684/216, 6-7=188/269
BOT CHORD 19-21=0/413, 18-19=0/728, 5-18=459/175, 7-14=454/281
WEBS 2-19=76/445, 3-19=18/276, 3-18=1086/180, 6-18=379/184, 8-12=313/225, 8-10=354/70, 2-21=626/183

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 3-3-4, Corner(3R) 3-3-4 to 6-3-4, Exterior(2N) 6-3-4 to 22-9-12, Corner(3R) 22-9-12 to 25-9-12, Exterior(2N) 25-9-12 to 34-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 10=246, 18=219, 21=126, 11=175.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

04/19/2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	A9	Piggyback Base	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 03:24:16 2022 Page 7

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3-3-4	10-6-14	17-10-8	22-9-12	26-6-8	30-6-13	34-9-0
3-3-4	7-3-10	7-3-10	4-11-4	3-8-12	4-0-6	4-2-2

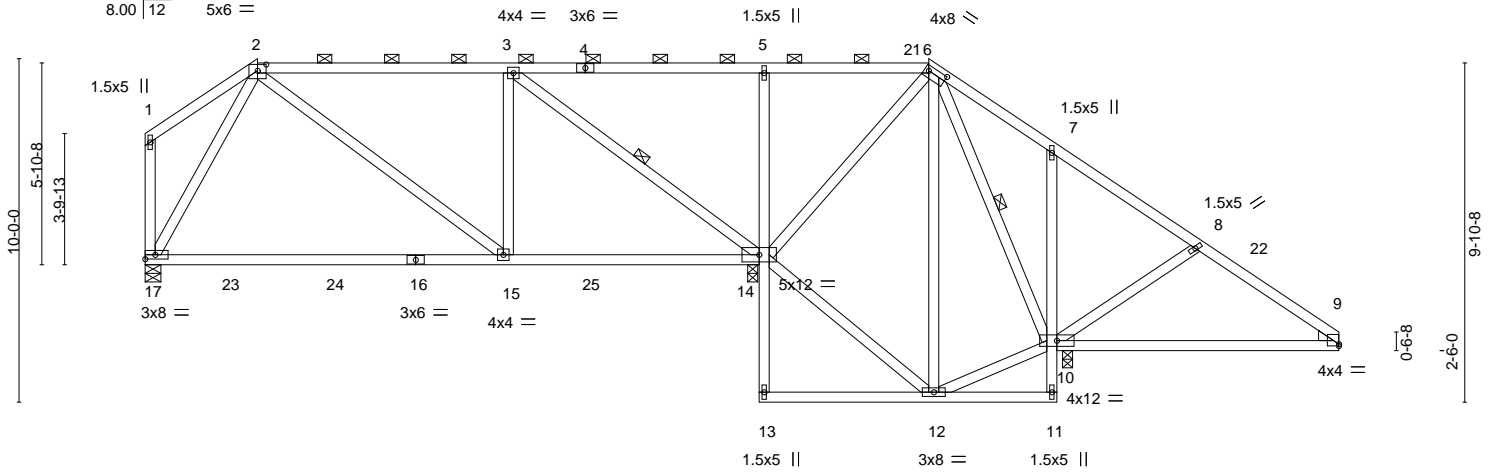


Plate Offsets (X,Y)--	[2:0-3-0,0-2-3], [6:0-6-8,0-1-12], [9:0-0-0,0-0-10]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.64	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) -0.39 15-17 >554 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.44	Vert(CT) -0.66 15-17 >326 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.01 14 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 240 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-6.
BOT CHORD 2x4 SP No.1 *Except* 7-11: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12,9-10.
WEBS 2x4 SP No.2 *Except* 2-15,3-14,6-12,6-10: 2x4 SP No.1	WEBS 1 Row at midpt 3-14, 6-10
WEDGE Right: 2x4 SP No.3	

REACTIONS. (size) 10=0-3-8, 14=0-3-8, 17=0-5-8
Max Horz 17=-188(LC 14)
Max Uplift 10=-225(LC 14), 14=-151(LC 10), 17=-128(LC 14)
Max Grav 10=1440(LC 24), 14=1274(LC 31), 17=784(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-631/173, 3-5=0/324, 5-6=0/335, 6-7=0/692, 7-8=-75/723, 8-9=-46/452
BOT CHORD 15-17=0/396, 14-15=0/661, 5-14=-457/129, 7-10=-281/142, 9-10=-293/78
WEBS 2-15=-83/385, 3-15=-8/309, 3-14=-1151/168, 12-14=-300/183, 6-12=-145/428, 6-10=-915/140, 8-10=-361/143, 2-17=-606/188

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-3-4, Exterior(2E) 3-3-4 to 34-9-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 10=225, 14=151, 17=128.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	PB8	Flat Structural Gable	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:35:09 2022 Page 7
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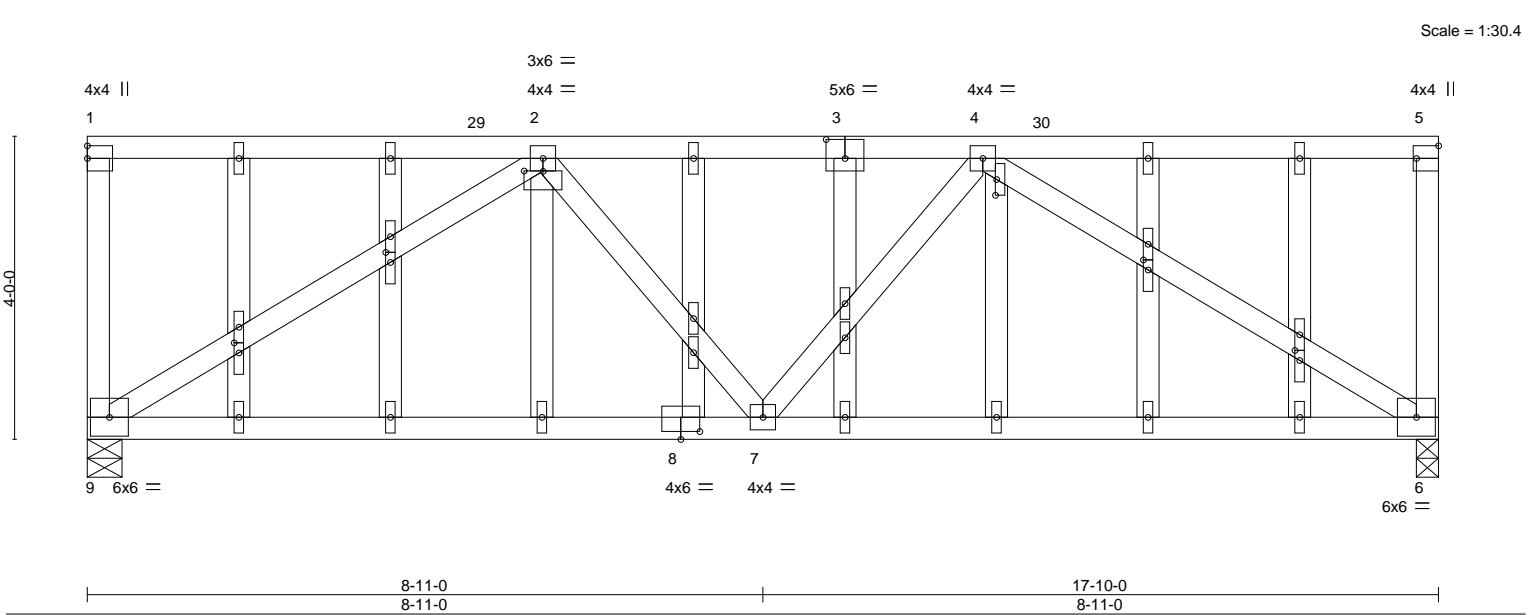


Plate Offsets (X,Y)-- [2:0-3-0,0-0-1], [3:0-3-0,0-3-0], [4:0-2-8,0-0-3], [5:Edge,0-3-8], [8:0-3-0,0-1-4], [10:0-1-9,0-0-12], [13:0-1-9,0-0-12], [25:0-1-9,0-0-12], [28:0-1-9,0-0-12]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.11 7-9 >999 240
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.58	Vert(CT)	-0.23 7-9 >908 180
TCDL	10.0	Rep Stress Incr	YES	WB	0.85	Horz(CT)	0.02 6 n/a n/a
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS			
BCDL	10.0						
						PLATES	GRIP
						MT20	244/190
						Weight: 135 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 8-2-9 oc bracing.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		

REACTIONS. (size) 9=0-5-8, 6=0-3-8
Max Uplift 9=198(LC 10), 6=198(LC 11)
Max Grav 9=789(LC 2), 6=789(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=955/555
BOT CHORD 7-9=581/877, 6-7=581/877
WEBS 2-9=997/670, 2-7=0/259, 4-7=0/259, 4-6=997/670

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone;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.
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x5 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 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) except (jt=lb) 9=198, 6=198.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21,2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	E3	Roof Special Structural Gable	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:10 2022 Page 1
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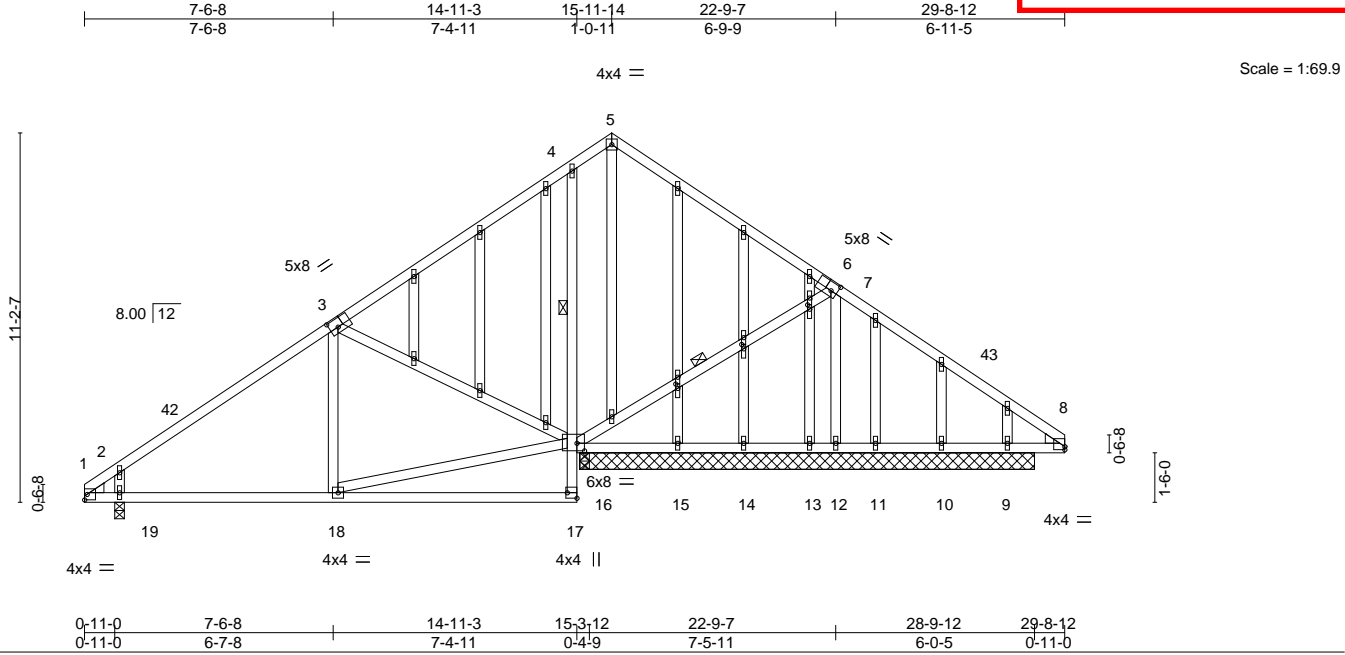


Plate Offsets (X,Y)--	[3:0-3-0,0-3-0], [6:0-2-4,0-3-0], [8:0-0-0,0-1-2], [16:0-2-12,0-2-12], [17:Edge,0-3-8], [28:0-1-10,0-0-12], [30:0-1-10,0-0-12], [32:0-1-10,0-0-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.37	Vert(LL) -0.06 17-18 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.57	Vert(CT) -0.14 17-18 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) -0.01 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 239 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS 2x4 SP No.2 *Except*	1 Row at midpt 4-16
7-16: 2x4 SP No.1	WEBS 1 Row at midpt 7-16
OTHERS 2x4 SP No.2 *Except*	
5-20: 2x4 SP No.1	
WEDGE	
Left: 2x4 SP No.3, Right: 2x4 SP No.3	

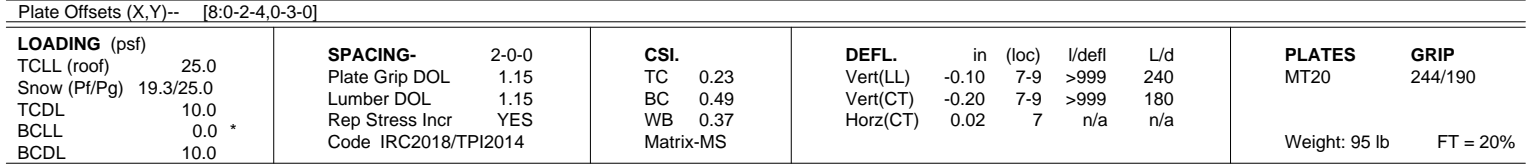
REACTIONS. All bearings 13-9-8 except (jt=length) 19=0-3-8.
(lb) - Max Horz 19=-220(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 12, 10, 9, 19 except 16=-283(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 15, 14, 13, 11, 10 except 16=930(LC 29), 16=733(LC 1), 12=735(LC 30), 9=328(LC 30), 19=720(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-400/0, 2-3=-676/106, 5-7=-297/117
BOT CHORD 1-19=0/449, 18-19=-34/501, 4-16=-491/152
WEBS 16-18=-49/477, 3-16=-501/279, 7-12=-743/87, 2-19=-582/263

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 15-11-14, Corner(3R) 15-11-14 to 18-11-14, Exterior(2N) 18-11-14 to 29-8-12 zone; 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.
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - All plates are 1.5x5 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 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) 12, 10, 9, 19 except (jt=lb) 16=283.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 00:35:57 2022 Page 1
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REACTIONS. (size) 10=0-3-8, 7=0-3-8
 Max Horz 10=84(LC 15)
 Max Uplift 10=-135(LC 16), 7=-120(LC 16)
 Max Grav 10=864(LC 2), 7=762(LC 2)

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

TOP CHORD	1-2=-297/0, 2-3=-287/141, 3-4=-838/358, 4-5=-838/360, 5-6=-255/134
BOT CHORD	9-10=-309/854, 7-9=-310/857
WEBS	2-10=-240/264, 3-10=-790/317, 3-9=-266/198, 4-9=-165/408, 5-9=-269/220, 5-7=-825/331

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 9-6-12, Corner(3R) 9-6-12 to 12-6-12, Exterior(2N) 12-6-12 to 18-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; 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 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=135, 7=120.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	B2	Piggyback Base	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/19/2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:22:55 2022 Page 7

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1-0-12 3-1-8 6-0-9 9-8-8 11-8-8 14-2-4 20-5-4 26-9-4 33-3-0
1-0-12 2-0-12 2-11-1 3-7-15 2-0-0 2-5-12 6-3-0 6-4-0 6-5-12

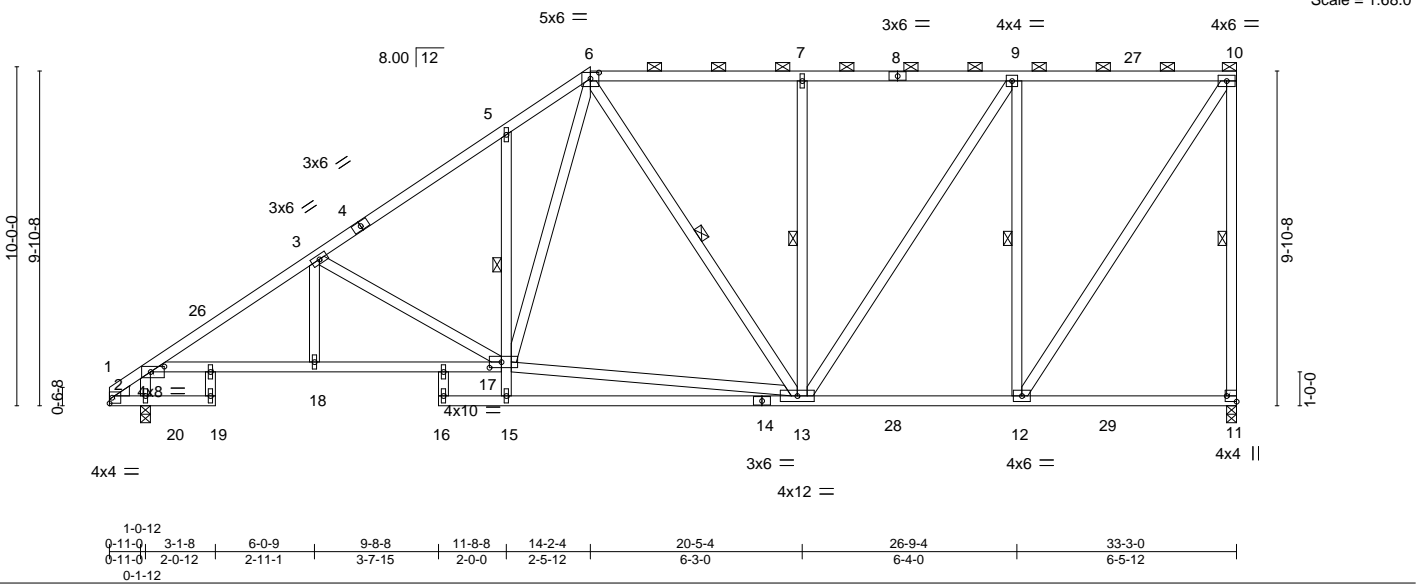


Plate Offsets (X,Y)-- [2:0-4-13,0-1-15], [6:0-3-0,0-2-3], [11:Edge,0-3-8], [17:0-4-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.49	Vert(LL) -0.18 13-15 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.59	Vert(CT) -0.38 13-15 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.11 11 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 254 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except*
19-21,16-22: 2x4 SP No.2
WEBS 2x4 SP No.1 *Except*
2-20,5-15,3-17,3-18: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

REACTIONS. (size) 11=0-3-8, 20=0-3-8
Max Horz 20=300(LC 14)
Max Uplift 11=307(LC 11), 20=175(LC 14)
Max Grav 11=1641(LC 23), 20=1805(LC 23)

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

TOP CHORD 2-3=-2720/401, 3-5=-2141/325, 5-6=-2092/413, 6-7=-1347/241, 7-9=-1350/241,
9-10=-902/164, 10-11=-1507/323
BOT CHORD 1-20=-153/313, 2-18=-565/2291, 17-18=-564/2289, 12-13=-164/902
WEBS 6-17=-238/1050, 7-13=-469/138, 9-13=-157/803, 9-12=-1083/284, 10-12=-293/1617,
2-20=-1564/98, 13-17=-289/1365, 3-17=-650/238, 3-18=-19/280

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2E) 3-0-0 to 33-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x5 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=307, 20=175.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

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

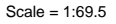
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



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Chesterfield, MO 63017

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:12:58 2022 Page 1
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LUMBER- TOP CHORD BOT CHORD	2x4 SP No.1 2x4 SP No.1 *Except* 19-20,15-17: 2x4 SP No.2	BRACING- TOP CHORD	Structural wood sheathing directly applied or 3-7-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-5 max.): 4-6, 7-9.
WEBS	2x4 SP No.1 *Except* 3-18,3-16,2-21: 2x4 SP No.2	BOT CHORD WEBS	Rigid ceiling directly applied or 6-0-0 oc bracing. 1 Row at midpt 9-10, 5-16, 5-12, 6-11, 8-10

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

TOP CHORD 2-3=-2677/458, 3-4=-1980/377, 4-5=-1575/361, 5-6=-1284/337, 6-7=-1374/380,
7-8=-1137/331

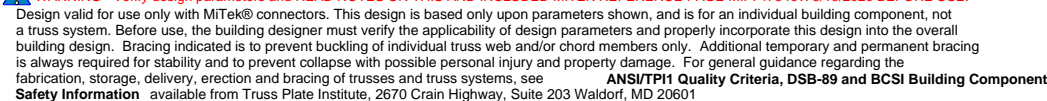
BOT CHORD 20-21=-265/275, 2-19=-528/2151, 18-19=-793/2315, 17-18=-793/2315, 16-17=-697/2152,
11-12=-346/1315, 10-11=-229/683

WEBS 14-16=0/358, 4-16=-74/695, 5-12=-512/211, 6-12=-140/369, 6-11=-1241/290,
7-11=-127/590, 8-11=-198/1152, 8-10=-1489/342, 3-18=-83/322, 3-16=-761/329,
2-21=-1645/346, 12-16=-358/1337

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-10 to 3-3-14, Interior(1) 3-3-14 to 13-0-12, Exterior(2R) 13-0-12 to 16-4-10, Interior(1) 16-4-10 to 24-2-4, Exterior(2R) 24-2-4 to 27-6-2, Interior(1) 27-6-2 to 33-1-4 zone; cantilever left and right exposed ; and vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCELL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=277, 21=255.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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	0-11-0	3-1-8	6-5-0	9-8-8	11-6-12	21-6-12	24-2-4	27-5-4	33-3-0
	0-11-0	2-2-8	3-3-8	3-3-8	1-10-4	10-0-0	2-7-8	3-3-0	5-9-12
Plate Offsets (X,Y)--	[2:0-4-0,0-1-14]	[4:0-3-0,0-2-3]	[6:0-2-8,Edge]	[7:0-3-0,0-2-3]	[17:0-2-8,0-2-0]	[20:0-3-0,0-0-8]			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-5-3 oc purlins,
BOT CHORD	2x4 SP No.1 *Except*		except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6, 7-9.
	20-21,16-18: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.1 *Except*	WEBS	1 Row at midpt 9-10, 5-13, 6-12, 7-11, 8-11
	4-15,6-13,6-12,2-22,3-19,3-17: 2x4 SP No.2		

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

TOP CHORD 2-3=1842/307, 3-4=1314/278, 4-5=1018/266, 5-6=546/197, 7-8=162/393

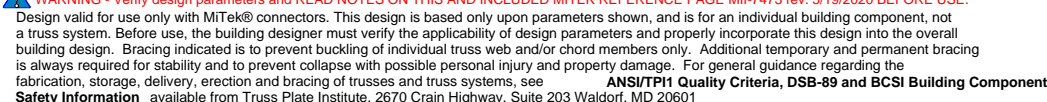
BOT CHORD 21-22=273/277, 2-20=396/1433, 19-20=669/1598, 18-19=669/1598, 17-18=591/1456,
12-13=175/456, 10-11=317/191

WEBS 15-17=0/405, 4-17=41/408, 5-17=163/370, 5-13=735/277, 6-13=158/891,
6-12=1172/241, 7-12=215/1057, 7-11=1301/335, 8-11=872/233, 8-10=114/611,
13-17=254/661, 2-22=1228/278, 3-19=108/263, 3-17=601/302

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-3-14, Interior(1) 3-3-14 to 11-6-12, Exterior(2R) 11-6-12 to 14-10-10, Interior(1) 14-10-10 to 24-2-4, Exterior(2R) 24-2-4 to 27-6-2, Interior(1) 27-6-2 to 33-1-4 zone; cantilever left and right exposed ; and vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCELL: ASCE 7-16; Pr=25.0 psf (roof LL; Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 3x6 MT20 unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=357, 11=344, 22=194.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



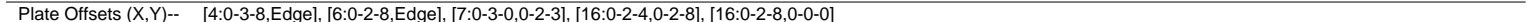
January 21, 2022



Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 00:30:03 2022 Page 1
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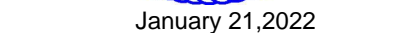
Timeline diagram showing the sequence of events from 3-1-8 to 4-8-2. The timeline is divided into segments with dates above and below the line. A red box highlights the segment from 3-3-8 to 4-8-2.

Event	Date
3-1-8	3-1-8
4-10-2	1-8-10
9-8-8	4-10-6
10-0-12	0-4-4
15-2-8	5-1-12
20-0-12	4-10-4
24-2-4	4-1-8
28-6-14	4-4-10
33-3-0	4-8-2



1) Unbalanced roof live loads have been considered for this design.

- January 21, 2022



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	B6	Piggyback Base	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 03:30 2022 Page 1

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1-0-12 3-1-8 4-10-3 8-6-12 9-8-8 11-8-8 18-6-12 24-2-4 28-6-14 33-3-0
1-0-12 2-0-12 1-8-11 3-8-9 1-1-12 2-0-0 6-10-4 5-7-8 4-4-10 4-8-2

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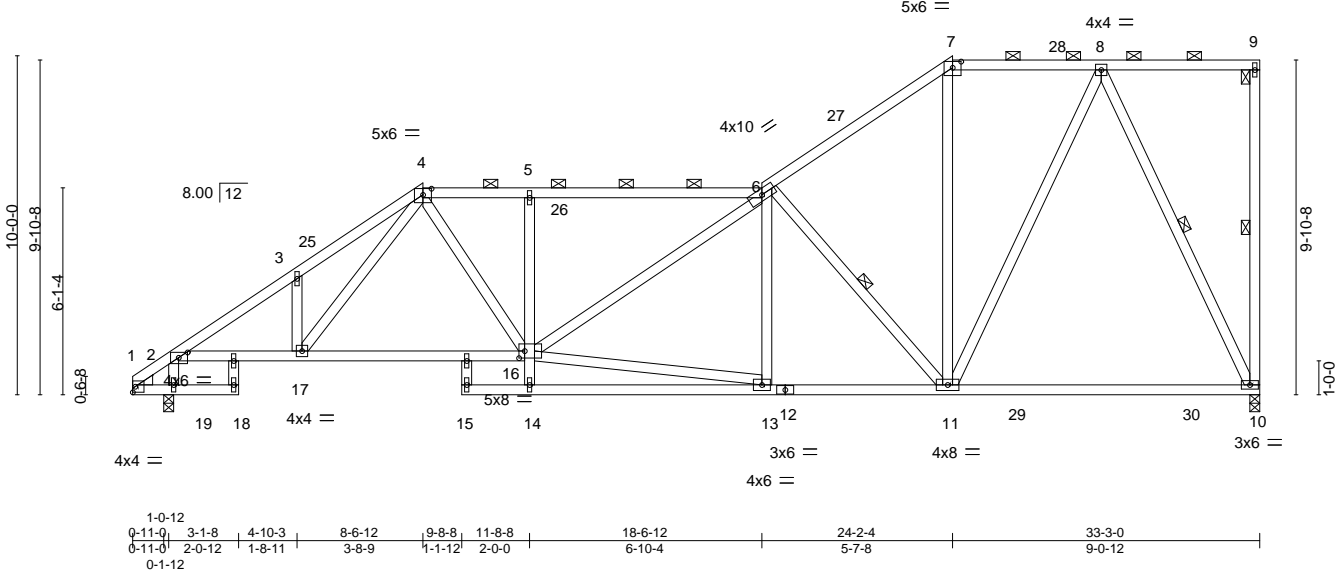


Plate Offsets (X,Y)-- [2:0-3-2,0-1-14], [4:0-3-0,0-2-3], [7:0-3-0,0-2-3], [16:0-2-0,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.79	Vert(LL) -0.34 10-11 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.66	Vert(CT) -0.55 10-11 >696 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.12 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-9-1 oc purlins, except end verticals, and 2-0-0 oc purlins (2-11-15 max.): 4-6, 7-9.
BOT CHORD 2x4 SP No.1 *Except* 18-20,15-21: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-11-2 oc bracing: 16-17 9-9-6 oc bracing: 11-13.
WEBS 2x4 SP No.2 *Except* 9-10,6-16,7-11,8-11,8-10: 2x4 SP No.1	WEBS 1 Row at midpt 9-10, 6-11, 8-10
WEDGE Left: 2x4 SP No.3	

REACTIONS. (size) 10=0-3-8, 19=0-3-8
Max Horz 19=300(LC 14)
Max Uplift 10=-267(LC 14), 19=-177(LC 14)
Max Grav 10=1618(LC 23), 19=1787(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2688/451, 3-4=-2714/587, 4-5=-2391/391, 5-6=-2389/392, 6-7=-1445/198, 7-8=-1134/214
BOT CHORD 1-19=-208/325, 2-17=-652/2268, 16-17=-488/1902, 11-13=-410/2209, 10-11=-128/641
WEBS 4-16=-79/998, 13-16=-407/2137, 6-16=-134/253, 6-11=-1565/289, 7-11=0/469, 8-11=-198/1150, 8-10=-1466/302, 2-19=-1586/109, 5-16=-475/139, 4-17=-270/602

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 8-6-12, Exterior(2R) 8-6-12 to 11-8-8, Interior(1) 11-8-8 to 24-2-4, Exterior(2R) 24-2-4 to 27-2-4, Interior(1) 27-2-4 to 33-1-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x5 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=267, 19=177.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

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

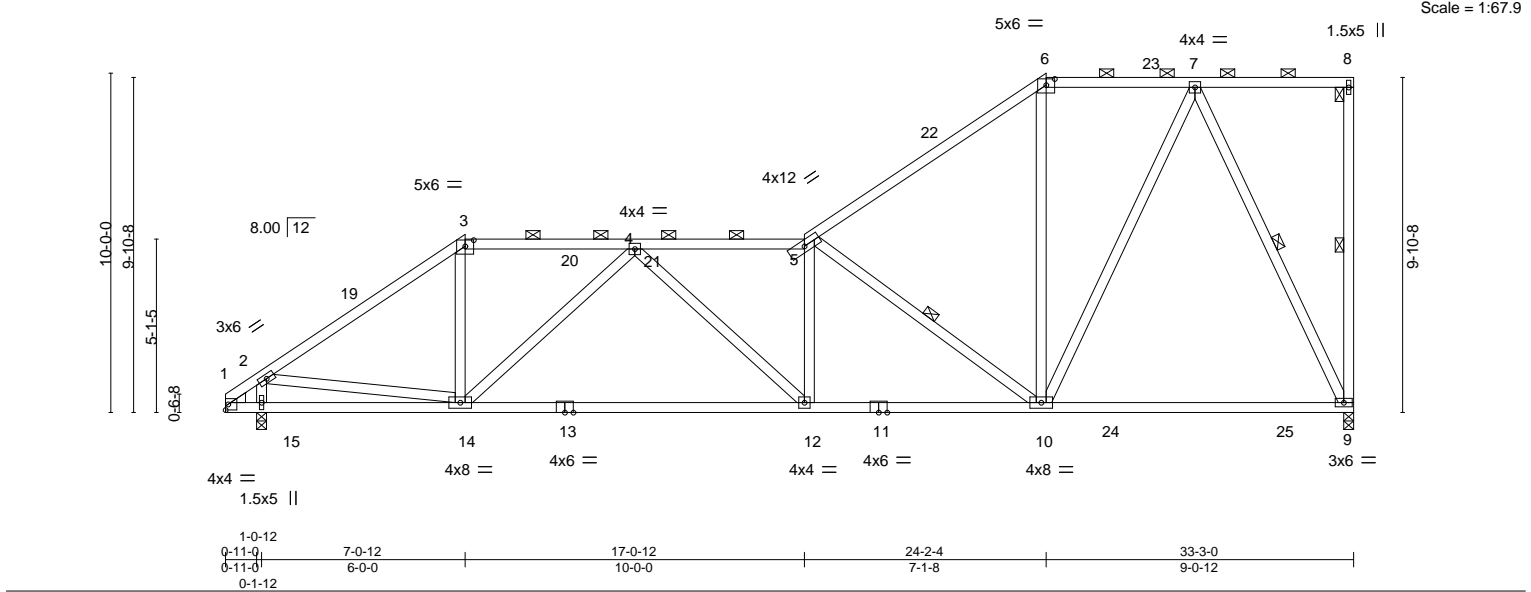


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	B7	Piggyback Base	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 0:33:05 2022 Page 1
ID:GSPV09ERO5RBWVVLhkfk0yNGJr-3VV0P_hB7tGSyTfZHR0MJ3wCzfyDMA6F6XBAz19K



LOADING (psf)		SPACING		CSI		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.35 9-10 >999 240	MT20		244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.85	Vert(CT)	-0.56 9-10 >681 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.82	Horz(CT)	0.07 9 n/a n/a				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied, except end verticals, and 2'-0" oc purlins (3'-9" max.): 3-5, 6-8.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 8'-8" oc bracing.
WEBS	2x4 SP No.2 "Except"	WEBS	1 Row at midpt 8-9, 5-10, 7-9
	8-9,5-10,6-10,7-10,7-9: 2x4 SP No.1		
WEDGE			
Left: 2x4 SP No.3			

REACTIONS.	
(size)	9=0-3-8, 15=0-3-8
Max Horz	15=300(LC 14)
Max Uplift	9=271(LC 14), 15=195(LC 14)
Max Grav	9=1608(LC 23), 15=1665(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-2037/271, 3-4=-1626/272, 4-5=-2635/332, 5-6=-1453/190, 6-7=-1130/220
BOT CHORD	14-15=-418/373, 12-14=-511/2334, 10-12=-490/2673, 9-10=-129/634
WEBS	2-15=-1614/290, 2-14=-55/1381, 3-14=-21/755, 4-14=-934/117, 4-12=0/467, 5-10=-1874/330, 6-10=0/403, 7-10=-212/1158, 7-9=-1449/304

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-0-12, Exterior(2R) 7-0-12 to 10-0-12, Interior(1) 10-0-12 to 24-2-4, Exterior(2R) 24-2-4 to 27-2-4, Interior(1) 27-2-4 to 33-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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" tall by 2'-0" wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=271, 15=195.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

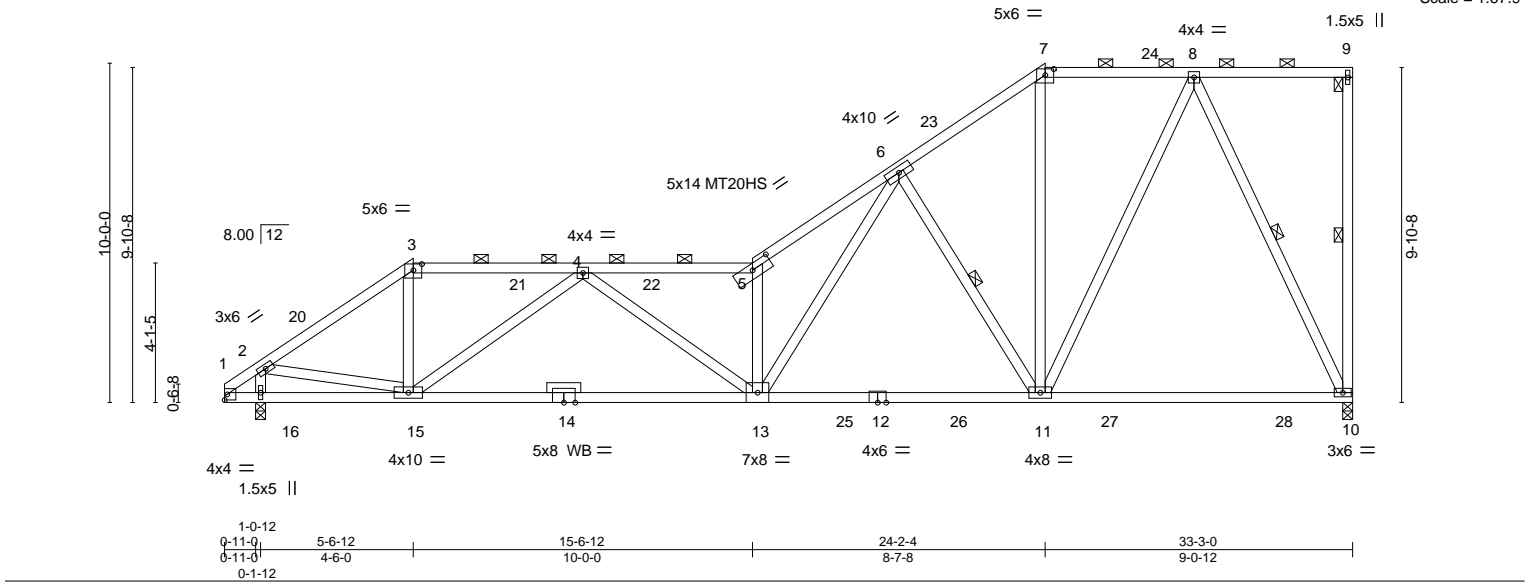


Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	B8	Piggyback Base	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:02 2022 Page 7
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1-0-12 5-6-12 10-6-12 15-6-12 19-10-8 24-2-4 28-6-14 33-3-0
1-0-12 4-6-0 5-0-0 5-0-0 4-3-12 4-3-12 4-4-10 4-8-2

Scale = 1:67.9



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	B9	Piggyback Base Girder	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:08 2022 Page 7
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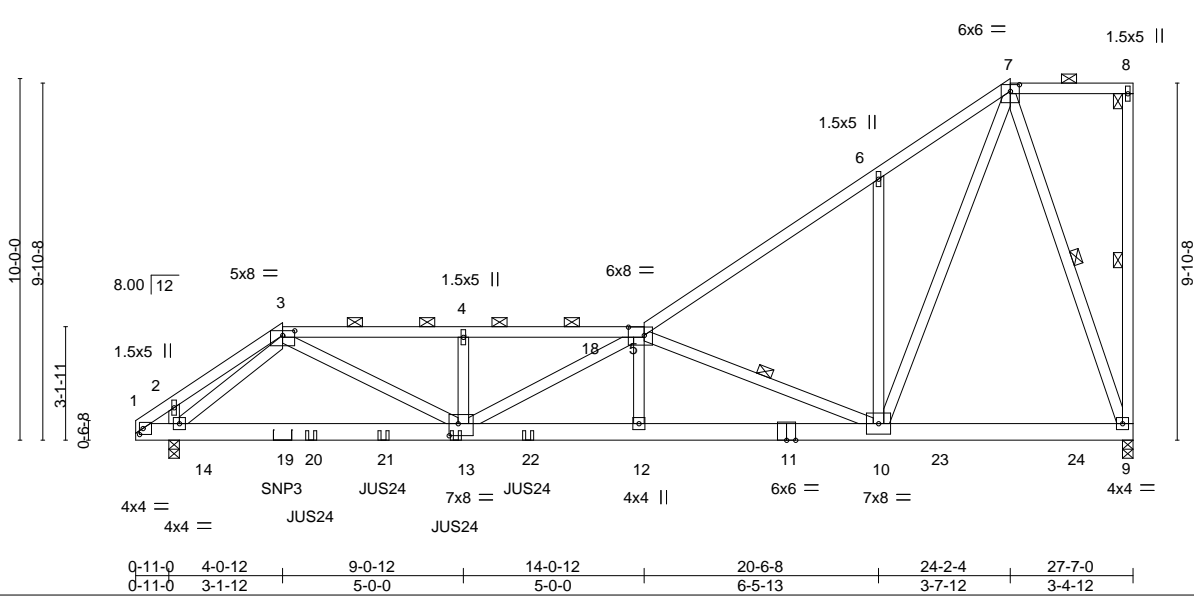


Plate Offsets (X,Y)-- [1:0-1-2,0-2-0], [3:0-4-0,0-1-9], [5:0-5-4,0-2-12], [7:0-3-0,0-2-3], [13:0-3-0,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.85	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.69	Vert(LL) -0.23 12-13 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.92	Vert(CT) -0.40 12-13 >787 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.06 9 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 202 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-9-3 oc purlins, except end verticals, and 2-0-0 oc purlins (2-3-13 max.): 3-5, 7-8.
BOT CHORD 2x6 SP No.1 *Except* 1-11: 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-7-12 oc bracing: 10-12.
WEBS 2x4 SP No.2 *Except* 8-9,7-10,7-9: 2x4 SP No.1	WEBS 1 Row at midpt 8-9, 5-10, 7-9

REACTIONS. (size) 9=0-3-8, 14=0-3-8
Max Horz 14=300(LC 10)
Max Uplift 9=-322(LC 10), 14=-452(LC 10)
Max Grav 9=1661(LC 42), 14=2242(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1129/341, 2-3=-1107/363, 3-4=-4625/804, 4-5=-4625/804, 5-6=-1626/158, 6-7=-1634/297
BOT CHORD 1-14=-248/893, 13-14=-645/2050, 12-13=-838/4641, 10-12=-839/4627, 9-10=-105/496
WEBS 3-13=-442/2947, 4-13=-414/173, 5-13=-643/405, 5-12=0/346, 5-10=-3686/628, 6-10=-406/217, 7-10=-442/2272, 7-9=-1521/324, 3-14=-1726/171

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.0, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=322, 14=452.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use USP SNP3 (With 6-8d x 1-1/2 nails into Girder & 6-8d x 1-1/2 nails into Truss) or equivalent at 4-0-12 from the left end to connect truss(es) to front face of bottom chord, skewed 36.9 deg.to the left, sloping 0.0 deg. down.
 - Use USP JUS24 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-10-4 from the left end to 10-10-4 to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - A minimum of (6) 8d x 1-1/2" nails are required into each member for SNP3 installation. All nailing is required in face of supported chords. For sloped applications, flanges may protrude above or below truss chords. Bending of extended flanges is permitted.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
21-26876	B9	Piggyback Base Girder	1	1	Job Reference (optional)	149830510

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:08 2022 Page 2

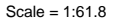
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LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-3=-59, 3-5=-58, 5-7=-58, 7-8=-58, 9-15=-20
- Concentrated Loads (lb)
 - Vert: 13=-201(F) 19=-242(F) 20=-201(F) 21=-201(F) 22=-639(F)

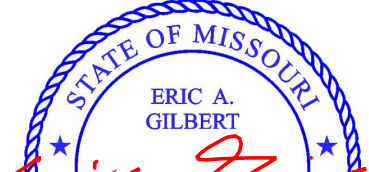


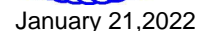
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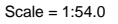
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 1-7-12, Exterior(2N) 1-7-12 to 14-3-4, Corner(3E) 14-3-4 to 16-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 6=214.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



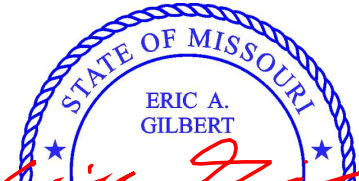


Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 00:25:00 2022 Page 1
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NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2E) 3-1-12 to 16-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 5=192.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	B12	Half Hip	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:22:50 2022 Page 7
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04/19/2022

1-0-12 6-1-8 11-2-4 17-7-0
1-0-12 5-0-12 5-0-12 6-4-12

Scale = 1:50.1

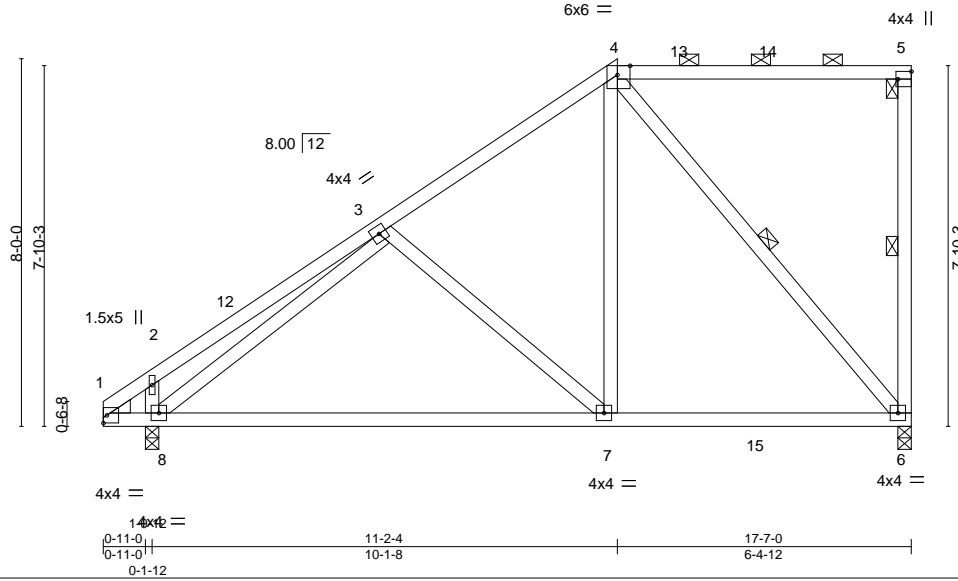


Plate Offsets (X,Y)-- [4:0-3-5,Edge], [5:Edge,0-3-8]					
LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.53
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.56
TCDL	10.0	Rep Stress Incr	YES	WB	0.36
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS	
BCDL	10.0				
DEFL.		DEF.		PLATES	GRIP
in (loc)	l/defl	L/d		MT20	244/190
Vert(LL)	-0.15	7-8	>999		
Vert(CT)	-0.30	7-8	>650		
Horz(CT)	0.01	6	n/a		
				Weight: 112 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-6, 4-6
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 8=0-3-8, 6=0-3-8
Max Horz 8=235(LC 14)
Max Uplift 8=-75(LC 14), 6=-174(LC 11)
Max Grav 8=928(LC 23), 6=832(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-436/0, 2-3=-499/105, 3-4=-656/91
BOT CHORD 1-8=0/336, 7-8=-240/699, 6-7=-112/481
WEBS 2-8=-269/205, 3-8=-479/12, 3-7=-271/168, 4-7=-52/529, 4-6=-739/171

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2E) 3-0-0 to 17-5-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 6=174.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	B13	Half Hip	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:22:53 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkfk0yNGJrTpfjTCWPQaVR Roonqdt1spPkUzGsgNo23VchOzt9H

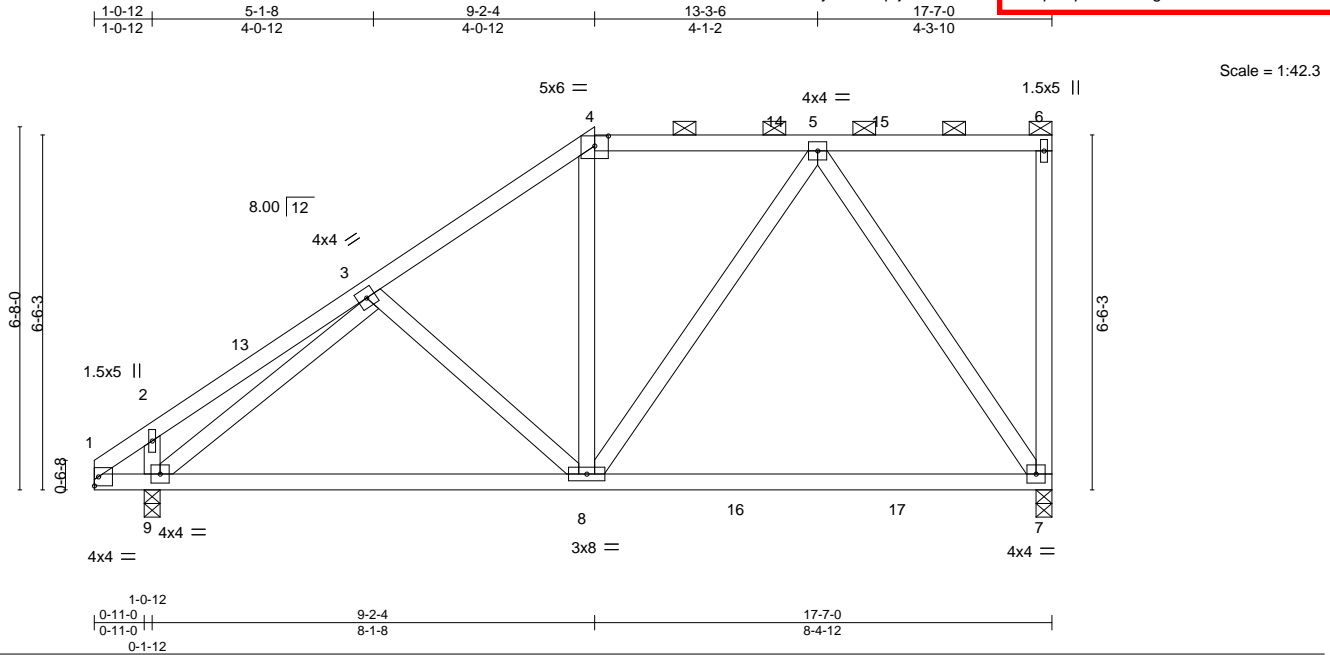


Plate Offsets (X,Y)-- [4:0-3-0,0-2-3]					
LOADING (psf)		SPACING-		CSL.	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.27
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.56
TCDL	10.0	Rep Stress Incr	YES	WB	0.66
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS	
BCDL	10.0				
				DEFL.	
				in (loc)	l/defl
				Vert(LL)	-0.19 7-8 >999 240
				Vert(CT)	-0.31 7-8 >643 180
				Horz(CT)	0.01 7 n/a n/a
				PLATES	GRIP
				MT20	244/190
				Weight: 111 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-6.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) 7=0-3-8, 9=0-3-8
Max Horz 9=193(LC 14)
Max Uplift 7=183(LC 11), 9=93(LC 14)
Max Grav 7=819(LC 23), 9=923(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-271/78, 3-4=-774/117, 4-5=-597/135
BOT CHORD 8-9=-234/713, 7-8=-102/397
WEBS 3-9=-676/64, 5-8=-70/354, 5-7=-682/185

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-2-4, Exterior(2R) 9-2-4 to 13-3-6, Interior(1) 13-3-6 to 17-5-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 7=183.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	B14	Half Hip	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 00:26:52 2022 Page 7
ID:GSVPvo9ERO5RBWVVLhkf0yNGJr-x?D5gYX1Buel3yhzOKYOMdH_PzhgPU0FHjLEEqz19%49830515

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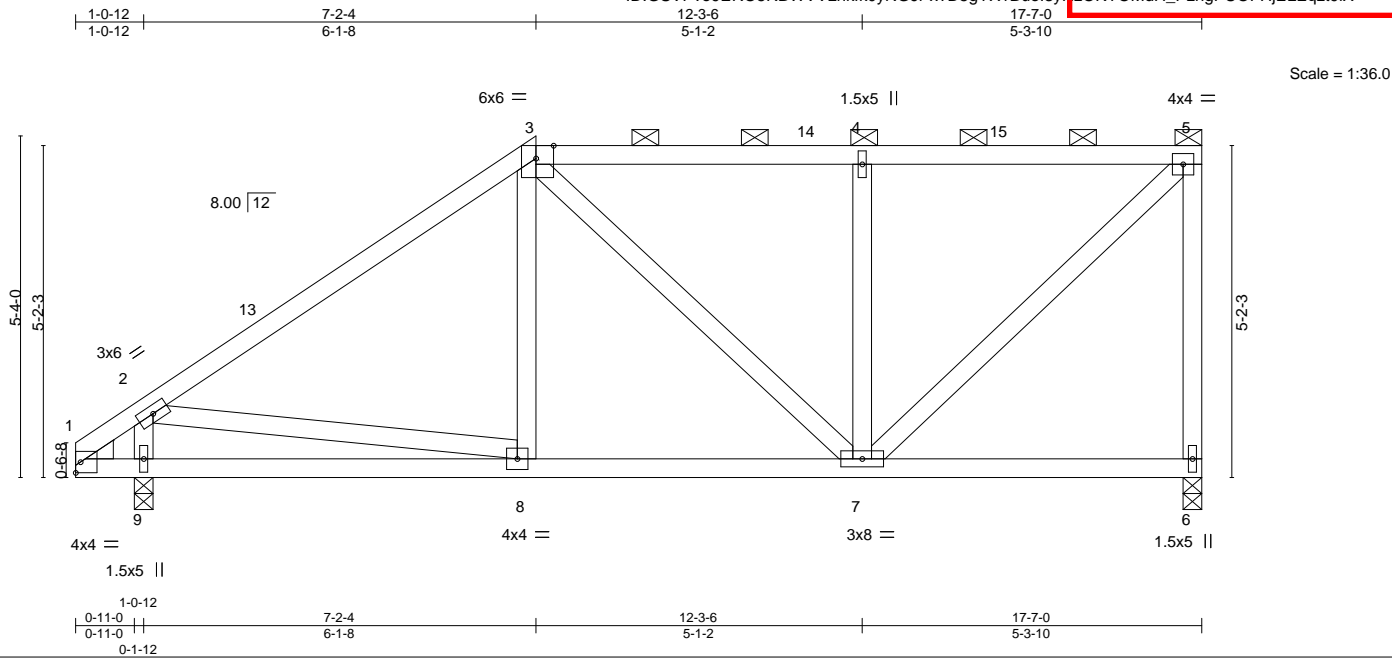


Plate Offsets (X,Y)-- [3:0-3-5,Edge]									
LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.38	Vert(LL)	-0.02	8-9	>999	240	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.21	Vert(CT)	-0.05	8-9	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.19	Horz(CT)	0.01	6	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS							
BCDL 10.0	Code IRC2018/TPI2014							Weight: 106 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS.	(size)
6=0-3-8, 9=0-3-8	
Max Horz 9=150(LC 14)	
Max Uplift 6=190(LC 11), 9=107(LC 14)	
Max Grav 6=734(LC 2), 9=836(LC 2)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-843/142, 3-4=-577/150, 4-5=-575/148, 5-6=-686/202
BOT CHORD	1-9=-94/254, 8-9=-256/290, 7-8=-155/595
WEBS	2-9=-800/217, 2-8=-32/370, 4-7=-423/177, 5-7=-199/775

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 7-2-4, Exterior(2R) 7-2-4 to 11-5-3, Interior(1) 11-5-3 to 17-5-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) 6=190, 9=107.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21,2022

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	B15	Half Hip Girder	1	1	

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,

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ID:GSVPvo9ERO5RBWVVVlhkf0yNGJr-tOKs5EYHjVu0IGXMWl0sR2M1mCDm12YKtjSjz19N

149830516

04/19/2022

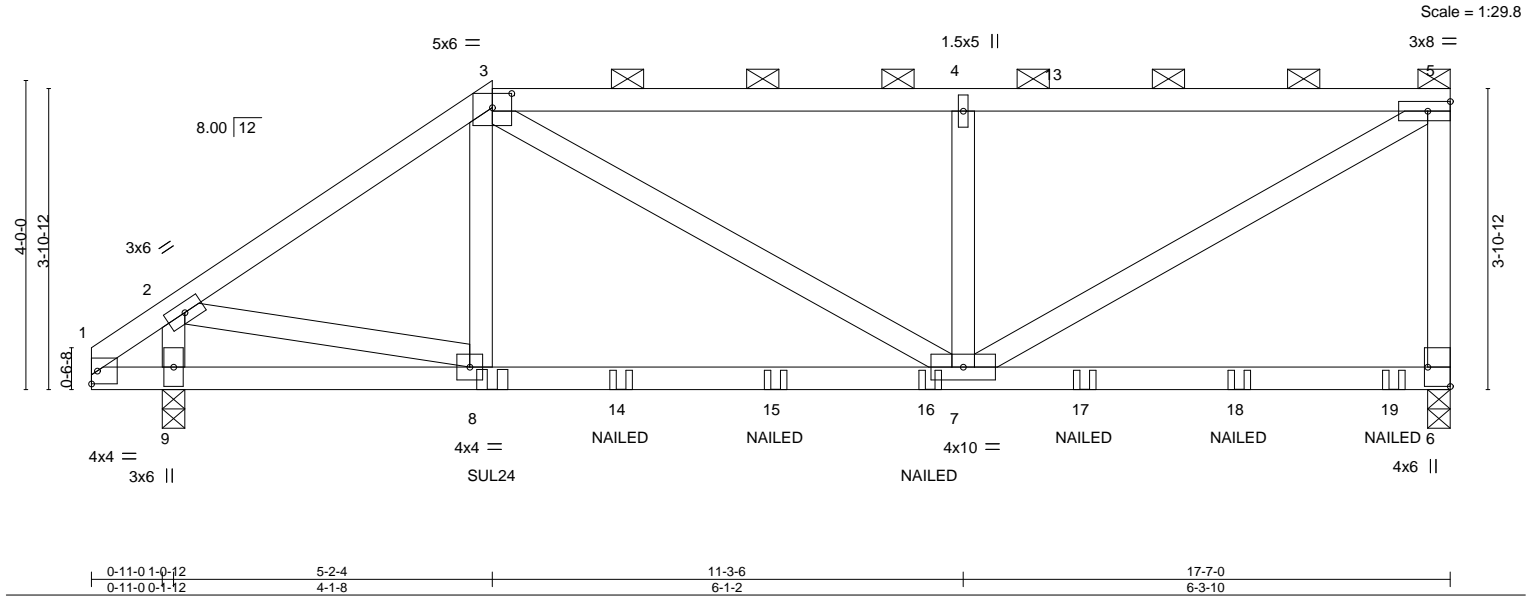


Plate Offsets (X,Y)-- [3:0-3-0,0-2-3], [6:Edge,0-3-8]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.10 7-8 >999 240
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.18 7-8 >999 180
TCDL	10.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.01 6 n/a n/a
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS			
BCDL	10.0						
						PLATES	GRIP
						MT20	244/190
						Weight: 96 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-9-6 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-12 max.): 3-5.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-5-15 oc bracing: 7-8.
WEBS	2x4 SP No.2		

REACTIONS.	(size) 6=0-3-8, 9=0-3-8
	Max Horz 9=109(LC 34)
	Max Uplift 6=-547(LC 7), 9=-435(LC 7)
	Max Grav 6=1402(LC 2), 9=1401(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1657/618, 3-4=-1653/650, 4-5=-1652/649, 5-6=-1122/447
BOT CHORD	7-8=-529/1305
WEBS	2-9=-1414/499, 2-8=-475/1297, 3-8=-199/376, 3-7=-140/459, 4-7=-498/217, 5-7=-728/1852

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) 6=547, 9=435.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie SUL24 (4-10dx1 1/2 Girder, 4-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 5-2-4 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
21-26876	B15	Half Hip Girder	1	1	Job Reference (optional)	149830516

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,
8.430 s Aug 16 2021 MiTek Industries, Inc.

ID:GSVPvo9ERO5RBWVVVlhkf0yNGJr-tOKs5EYHjVu0IGXMWlssR2M1mCDwH2YKtjSjz19iv

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8.430 s Aug 16 2021 MiTek Industries, Inc.

ID:GSVPvo9ERO5RBWVVVlhkf0yNGJr-tOKs5EYHjVu0IGXMWlssR2M1mCDwH2YKtjSjz19iv

04/19/2022

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-59, 3-5=-59, 6-10=-20

Concentrated Loads (lb)

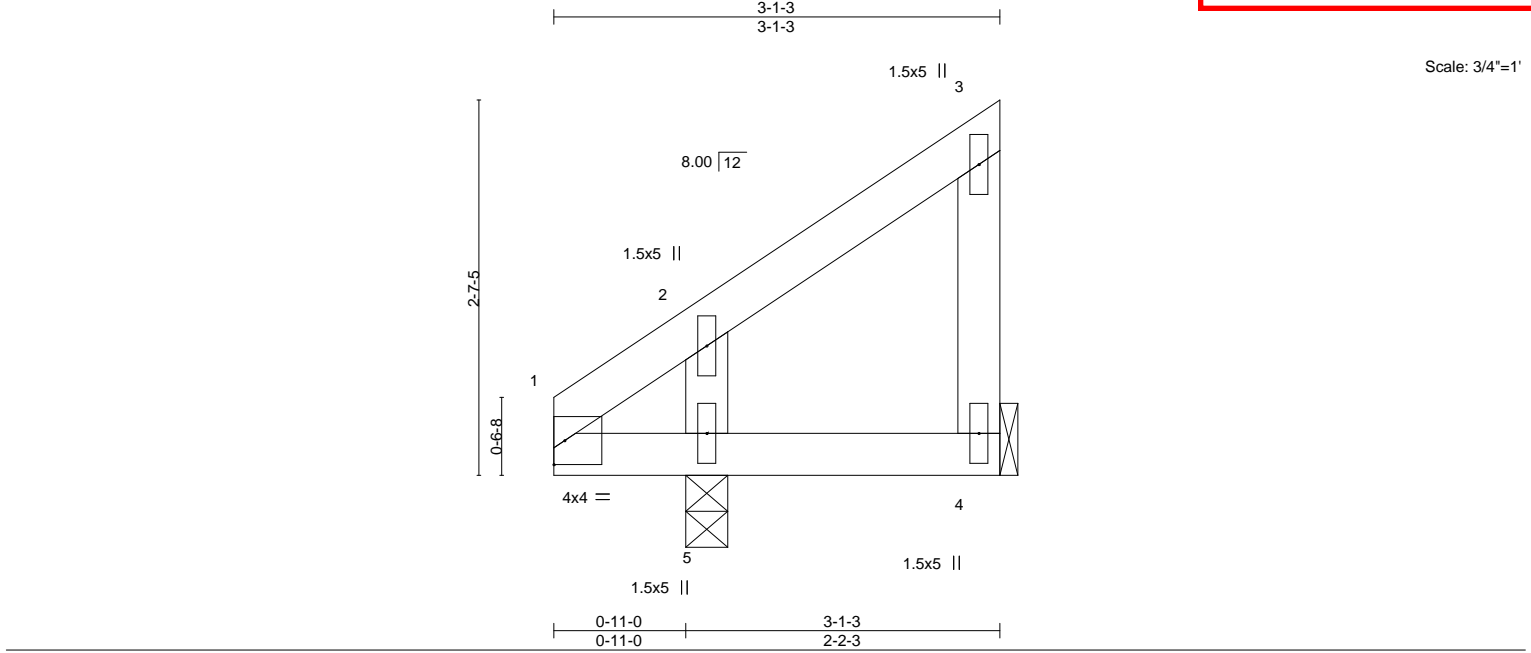
Vert: 8=-387(F) 14=-125(F) 15=-125(F) 16=-125(F) 17=-125(F) 18=-125(F) 19=-129(F)



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M10	Jack-Closed	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:35 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-Qpx1ImmewXchvImwTuYtL2gUusx26RfzFmMLZ19gw



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.05	Vert(LL)	0.00	5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	-0.00	5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 14 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=83(LC 13)
Max Uplift 4=-52(LC 11), 5=-55(LC 14)
Max Grav 4=79(LC 23), 5=208(LC 2)

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

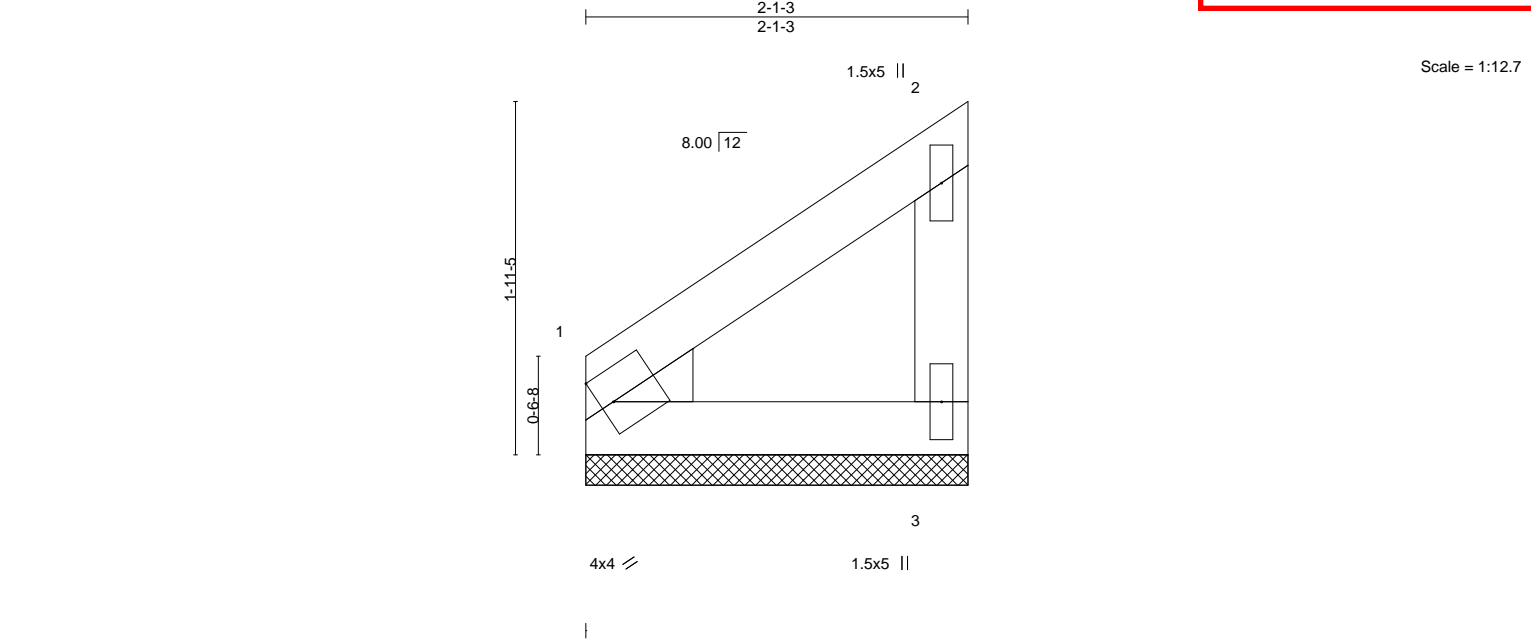
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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, 5.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M11	Jack-Closed	1	1	Job Reference (optional)

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:43:35 2022 Page 1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 10 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-1-3 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.2	

REACTIONS.
(size) 3=2-1-3, 1=2-1-3
Max Horz 1=59(LC 13)
Max Uplift 3=27(LC 11), 1=-10(LC 14)
Max Grav 3=93(LC 23), 1=88(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 1-4-0 oc.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 1.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:12:48 2022 Page 7
 ID:GSPVp0ERO5RBWVVLhkfk0yNGJr-3EzbrATW7f7taLC9UUSn6GVMF2ZKrm6S55z19b
 7-6-9 14-2-4 20-8-14 27-2-9 27-5-4 33-8-12 37-5-8 41-5-13 45-0-0
 7-6-9 6-7-11 6-6-10 6-5-11 0-2-11 6-3-8 3-8-12 4-0-6 4-2-2

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-8-8 oc purlins, except
BOT CHORD	2x4 SP No.1 *Except*		2-0-0 oc purlins (4-6-9 max.): 4-8.
	9-13: 2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x4 SP No.1 *Except*		6-0-0 oc bracing: 13-14,11-12.
	3-20,3-18,12-14,10-12,2-21,2-20: 2x4 SP No.2	WEBS	1 Row at midpt 3-18, 5-17, 7-15, 8-14, 8-12
WEDGE			
Right: 2x4 SP No.3			

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

TOP CHORD
1-2=-279/29, 2-3=-2266/353, 3-4=-1930/376, 4-5=-1589/368, 5-7=-1588/368,
7-8=-1223/311, 8-9=0/694, 9-10=-75/722, 10-11=-46/452

BOT CHORD
1-21=-61/296, 20-21=-138/440, 18-20=-238/1928, 17-18=-107/1588, 15-17=-82/1234,
14-15=-22/419, 9-12=-270/138, 11-12=-292/78

WEBS
3-18=-420/164, 4-18=-62/538, 4-17=-69/272, 5-17=-503/137, 7-17=-104/719,
7-15=-1014/225, 8-15=-221/1551, 12-14=-11/551, 8-12=-2110/279, 10-12=-360/144,
2-21=-1610/348, 2-20=-133/1503

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2E) 3-0-0 to 45-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=387, 21=256.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

WARNING – verify design parameters and **READ NOTES ON THIS AND INCLUDED WITH REFERENCE TO AISC M14-13 101, JF 1/2020 BY ONE USER.** 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 Cran Highway, Suite 203 Waldorf, MD 20601

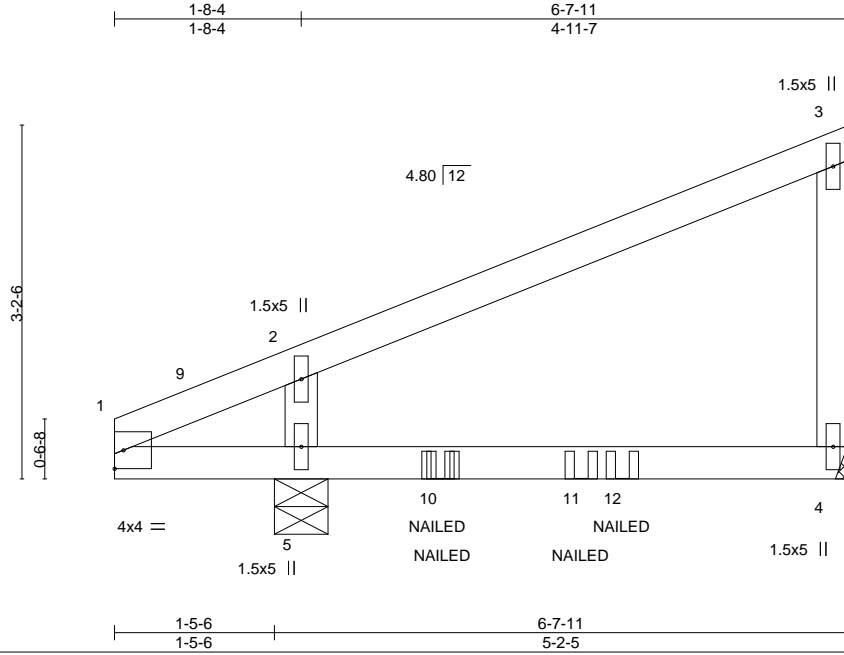


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	CJ4	Diagonal Hip Girder	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:34:17 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkf0yNGJr-qa1uDLBxEnZVSP4Y6N19D3Nz8R2oCALwJf8z9ng

04/19/2022



Scale = 1:20.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.42	Vert(LL) 0.07	4-5	>784	240	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.27	Vert(CT) 0.07	4-5	>783	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Horz(CT) 0.00		n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 26 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-5-13
Max Horz 5=83(LC 12)
Max Uplift 4=142(LC 12), 5=168(LC 12)
Max Grav 4=267(LC 16), 5=433(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=443/161

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) 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) 4=142, 5=168.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) "NAILED" indicates 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-59, 4-6=-20
- Concentrated Loads (lb)
Vert: 10=54(F=-3, B=57) 11=-8(B) 12=-72(F)



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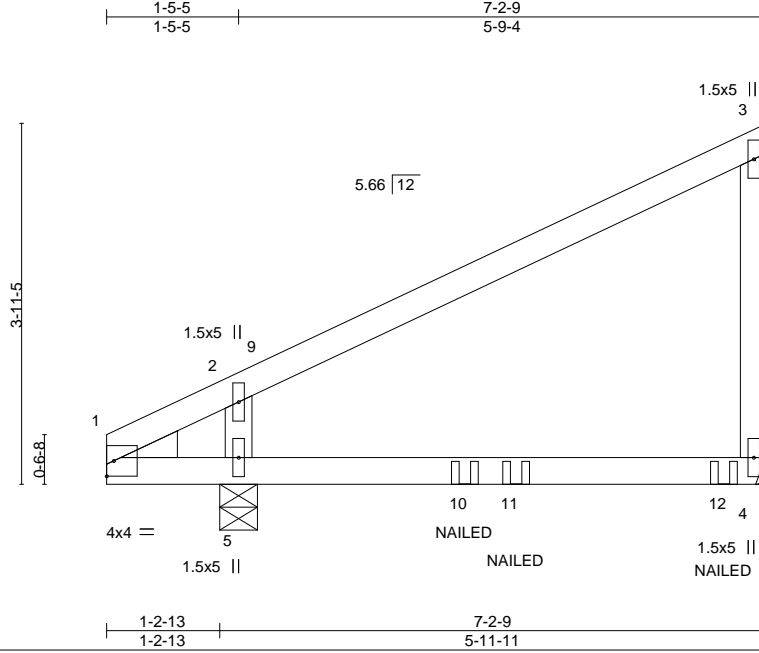
Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	CJ5	Diagonal Hip Girder	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:48 2022 Page 1

ID:GSVPvo9ERO5RBWVVLhfk0yNGJr-InbGRhC9?5hMmZfkg5Zx0RB0Zy1XrSV9Rj3B0z19m

04/19/2022



Scale = 1:25.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.65	Vert(LL) 0.12	4-5	>576	240	MT20	244/190
Snow (Pl/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.39	Vert(CT) -0.12	4-5	>568	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Horz(CT) 0.00		n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 30 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

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.

REACTIONS.

(size) 4=Mechanical, 5=0-4-15
Max Horz 5=107(LC 12)
Max Uplift 4=197(LC 12), 5=90(LC 12)
Max Grav 4=416(LC 16), 5=450(LC 16)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=442/205

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) 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) 5 except (jt=lb) 4=197.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-58, 4-6=-20
Concentrated Loads (lb)
Vert: 10=-14(F) 11=-25(B) 12=-107(F)



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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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Chesterfield, MO 63017

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 00:25:40 2022 Page 2
ID:GSVPvo9ERO5RBWVVVlhkfk0yNGJr-uYYGekBbhH0i9wVUJhy?eAbdWkx3Z0Bqe4z29qN

Technical drawing of a roof truss (Dachstuhl) showing structural components and dimensions. The drawing includes the following elements:

- Dimensions:**
 - Overall height: 3.3-0
 - Height from base to eave: 0.11-12
 - Horizontal span: 6.00 | 12
 - Roof pitch: 1:12
- Structural Components:**
 - 1:** Ridge beam (Dachstuhlstuhl)
 - 2:** Roof rafters (Dachstuhlstuhl)
 - 3:** Roof sheathing (Dachstuhlstuhl)
 - 4:** Eave beam (Dachstuhlstuhl)
 - 5:** Foundation (Dachstuhlstuhl)
 - 6:** Wall (Dachstuhlstuhl)
 - 7:** Wall (Dachstuhlstuhl)
- Labels:**
 - 6x8 =
 - 4x6 =
 - 1.5x5
 - 2-3-4
 - 4-6-8
 - 2-3-4
 - 4-6-8
 - 4-6-8
 - 4-6-8
 - 4x4 =
 - 6 JUS24
 - 7 JUS24
 - 4x4 =

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-6-8 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1		
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-8-6 oc bracing.

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-59, 4-5=-20
Concentrated Loads (lb)
Vert: 6=-628(F) 7=-623(F)



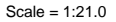
WARNING – verify design parameters and **READ NOTES ON THIS AND INCLUDED WITH REFERENCE TO AISC M14-13 161, JF 15-2020 (BY ONE USER).** Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 Cran Highway, Suite 203 Waldorf, MD 20601



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Chesterfield, MO 63017

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:24:36 2022 Page 2
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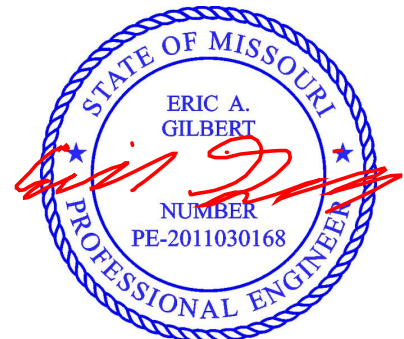
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-5-8 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-272/145
WEBS 2-5=-402/323

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-3-12 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
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) 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) 4, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022



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

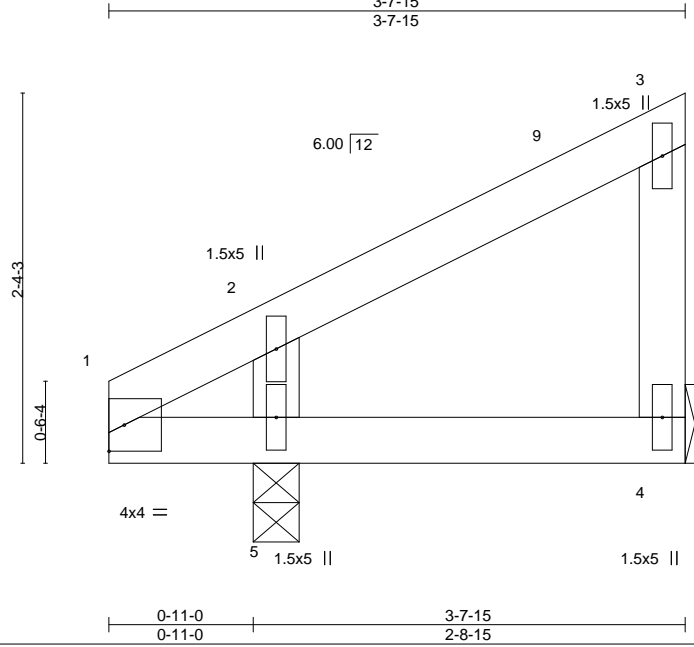


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M13	Jack-Closed	1	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:37 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkf0yNGJr-MC3ojSouS8sP9sv92tx06h7?dizWW00dZArPFZ19gdu

04/19/2022



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.08	Vert(LL) 0.00	4-5	>999	240	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT) -0.00	4-5	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT) 0.00	4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 15 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-7-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=74(LC 15)
Max Uplift 4=-35(LC 13), 5=-59(LC 16)
Max Grav 4=106(LC 20), 5=267(LC 20)

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

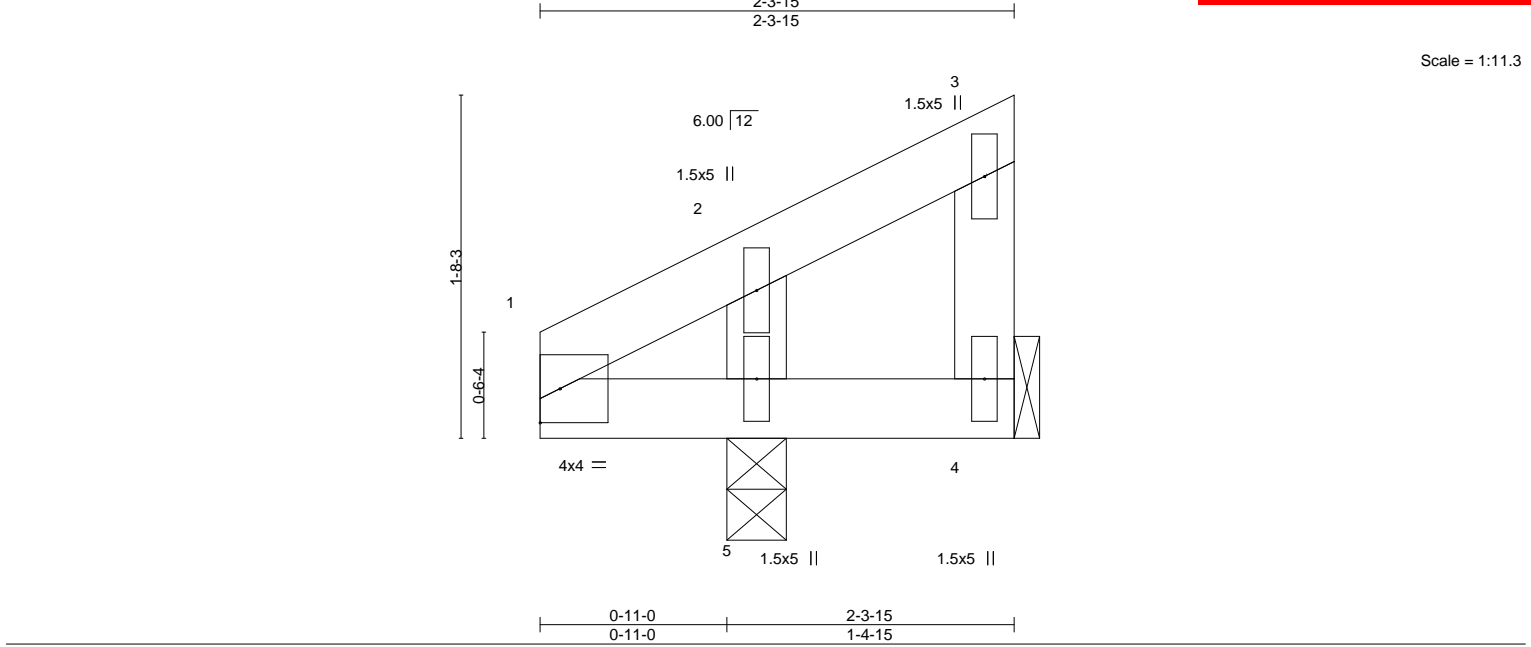
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 3-6-3 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) 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) 4, 5.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M14	Jack-Closed	1	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:37 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-MC3ojSouS8sP5v92bx0b.m707IZnW0_YdZArFFZ19gu



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.05	Vert(LL)	0.00	5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	0.00	5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 10 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-3-15 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=48(LC 15)
Max Uplift 4=-29(LC 13), 5=-60(LC 16)
Max Grav 4=25(LC 14), 5=213(LC 20)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) 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) 4, 5.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



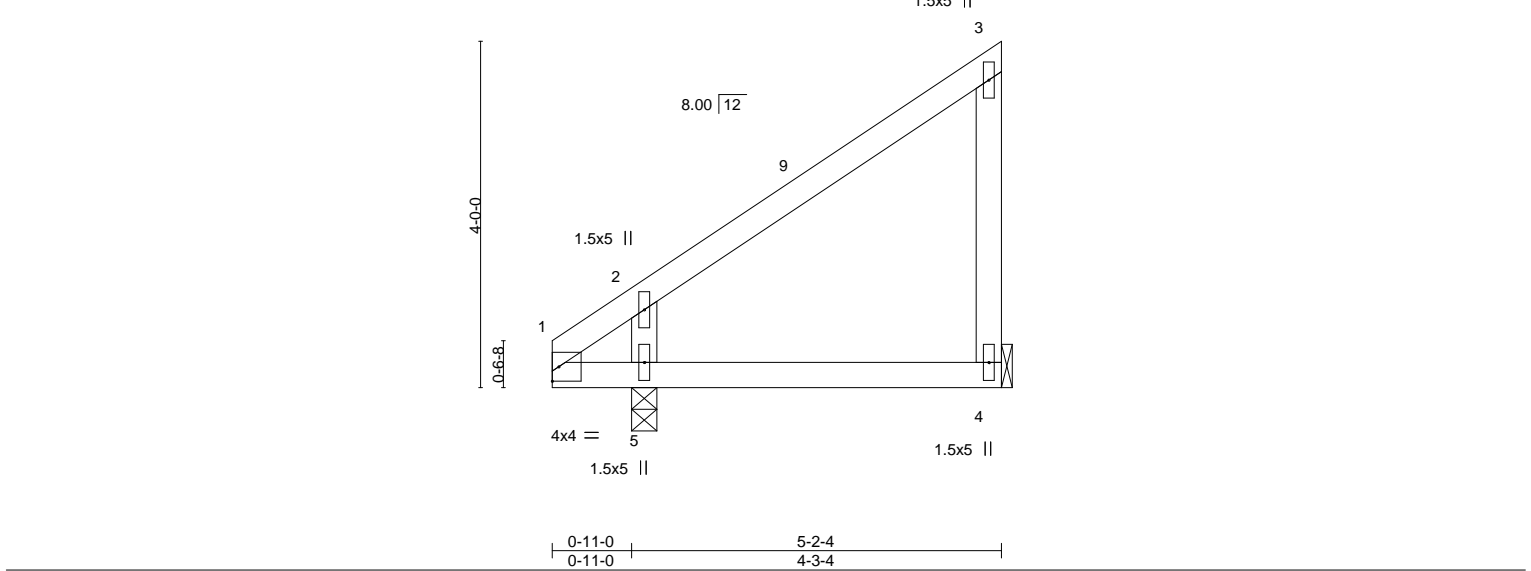
January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M15	Jack-Closed	6	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:38 2022 Page 1

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Scale = 1:26.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.20	Vert(LL)	0.02	4-5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.21	Vert(CT)	-0.03	4-5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 23 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-2-4 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=137(LC 13)
Max Uplift 4=-71(LC 11), 5=-61(LC 14)
Max Grav 4=185(LC 23), 5=287(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-295/178
WEBS 2-5=-282/273

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-0-8 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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, 5.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



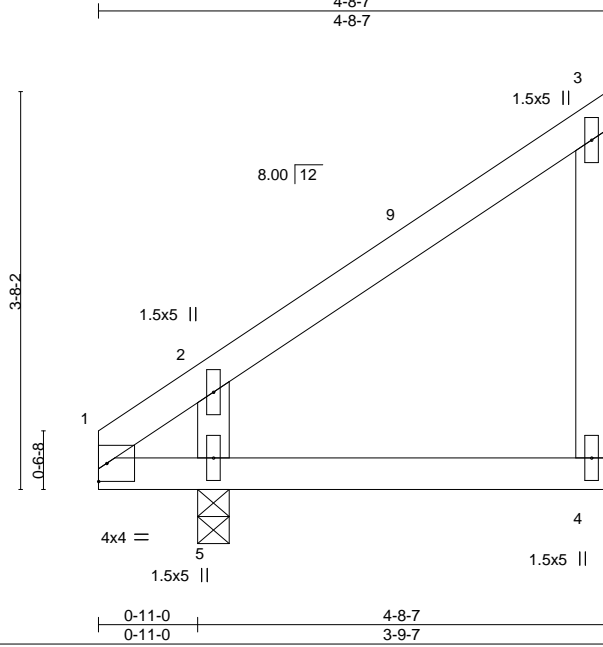
January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M16	Jack-Closed	1	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:39 2022 Page 1

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04/19/2022



Scale = 1:21.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.16	Vert(LL)	0.01	4-5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	1.15	BC 0.16	Vert(CT)	-0.02	4-5	>999		
TCDL 10.0	1.15	WB 0.04	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 21 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=124(LC 13)
Max Uplift 4=-66(LC 11), 5=-59(LC 14)
Max Grav 4=161(LC 23), 5=267(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-267/159

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-6-11 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; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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, 5.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



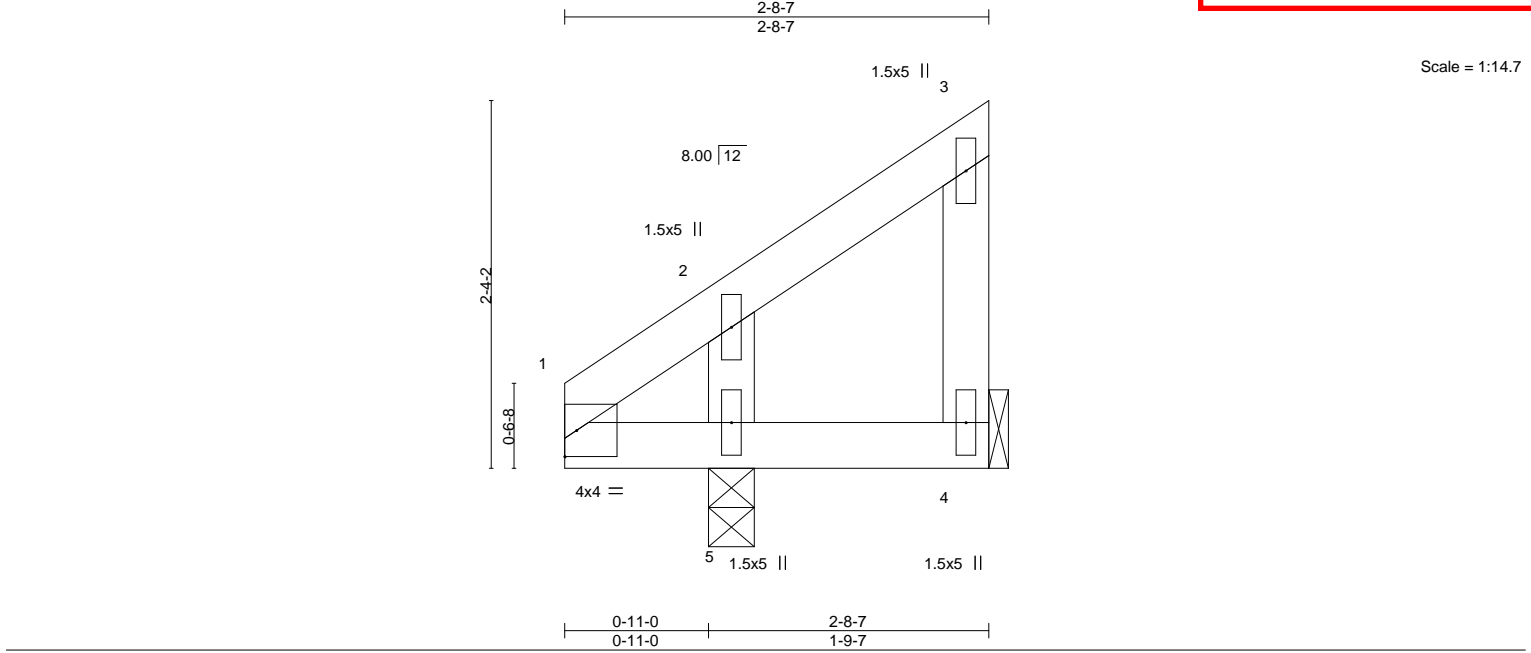
January 21, 2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M17	Jack-Closed	1	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:39 2022 Page 1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.05	Vert(LL)	0.00	5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	0.00	5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 13 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=72(LC 13)
Max Uplift 4=-49(LC 11), 5=-55(LC 14)
Max Grav 4=56(LC 23), 5=197(LC 2)

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

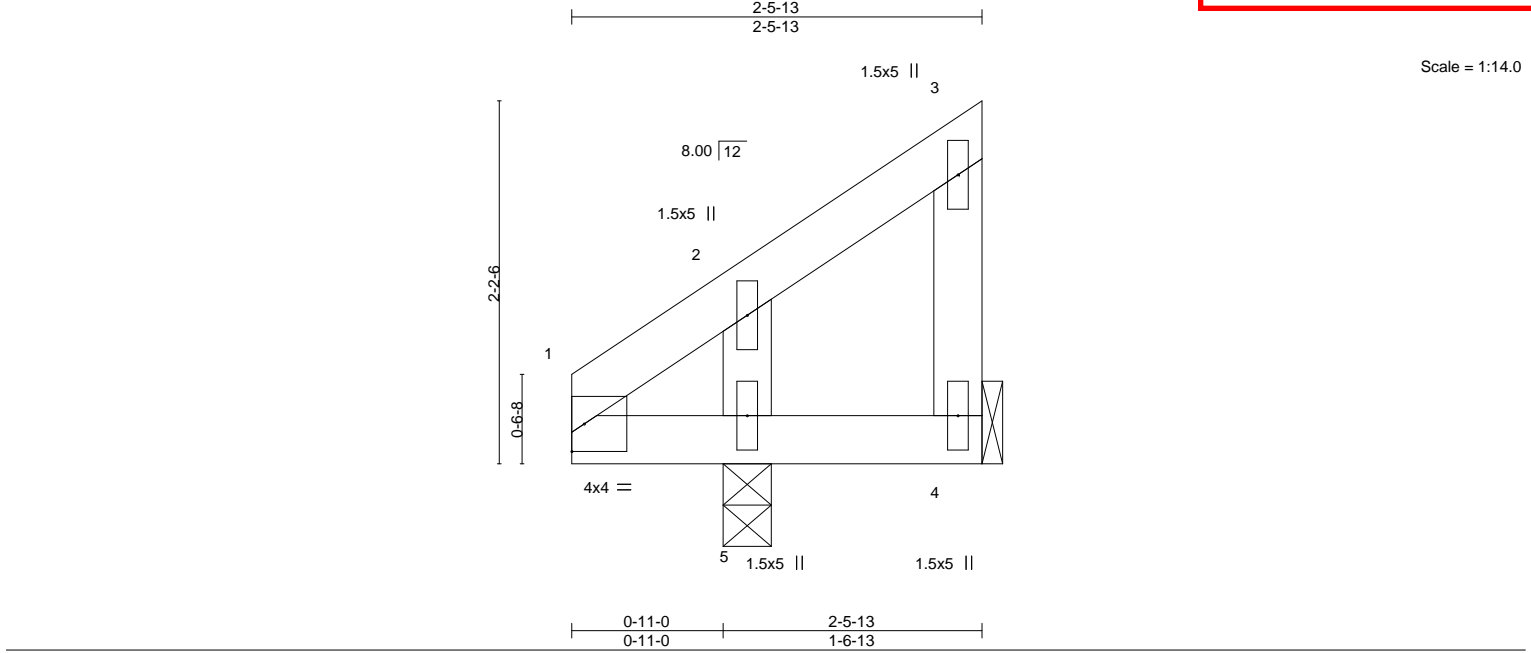
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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, 5.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M18	Jack-Closed	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:40 2022 Page 149830529



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.04	Vert(LL)	0.00	5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	0.00	5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-5-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=67(LC 13)
Max Uplift 4=-49(LC 11), 5=-56(LC 14)
Max Grav 4=44(LC 12), 5=193(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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, 5.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

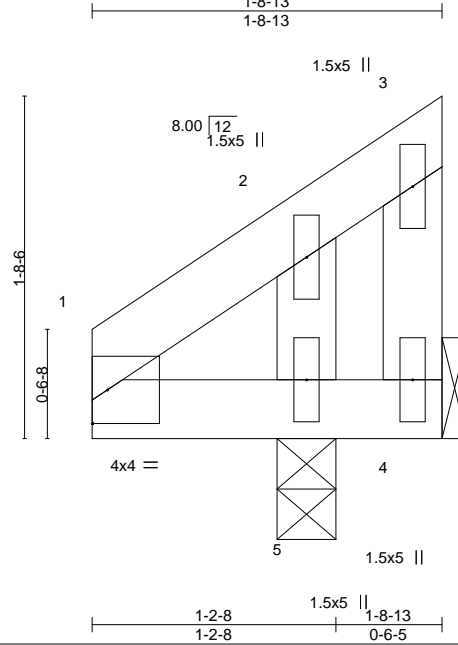


January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M19	Jack-Closed	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:40 2022 Page 1
ID:GSVPvo9ERO5RBWVVVhkfkyNGJr-nnkwlTqnl3E_OYdkj0UjKPIKZVbQjM86XF30a219g

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/19/2022



Scale = 1:11.4

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.04	Vert(LL)	0.00	5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	0.00	5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 9 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 1-8-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=47(LC 13)
Max Uplift 4=101(LC 24), 5=-72(LC 14)
Max Grav 4=31(LC 10), 5=216(LC 2)

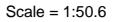
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
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) 4=101.
7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:23:40 2022 Page 2
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LUMBER- TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 OTHERS 2x4 SP No.2 WEDGE Right: 2x4 SP No.2	BRACING- TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-18=-333/0, 2-21=-266/77, 7-15=-333/0, 10-12=-266/77

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional); 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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) All plates are 1.5x5 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 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, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 21, 12 except (jt=lb) 19=125, 20=115, 14=125, 13=113.
- 10) Non Standard bearing condition. Review required.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

January 21, 2022

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

WARNING – verify design parameters and loadings on this and included with the relevant AISC MHP-433 (Rev. 3/15/2020) 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 Cran Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

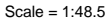
Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
21-26876	C1	Common Girder	1	1	Job Reference (optional)	149830531

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:10 2022 Page 2
ID:GSVPvo9ERO5RBWVVLhkf0yNGJr-PTIvSikJyQ/DjIIRS6tcsQ14ZDqvdvVQXbts0z19r

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-6=-59, 6-11=-59, 1-11=-20
 Concentrated Loads (lb)
 Vert: 16=-15(F) 18=-15(F) 19=-15(F) 20=-15(F) 21=-15(F) 15=-15(F) 14=-15(F) 13=-15(F) 12=-15(F) 22=-15(F) 23=-15(F)

04/19/2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:23:14 2022 Page 2
ID:GSPVvo9ERO5RBVVVlhhfk0vNGJr-IEYQl3oo?ePBhk3ChvxYrGBnd69ZMzU8Z7W2Z19B



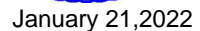
Weight: 121 lb FT = 20%

REACTIONS. (size) 8=0-3-8, 11=0-3-8
 Max Horz 11=-160(LC 12)
 Max Uplift 8=-152(LC 14), 11=-152(LC 14)
 Max Grav 8=970(LC 2), 11=970(LC 2)

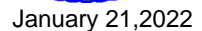
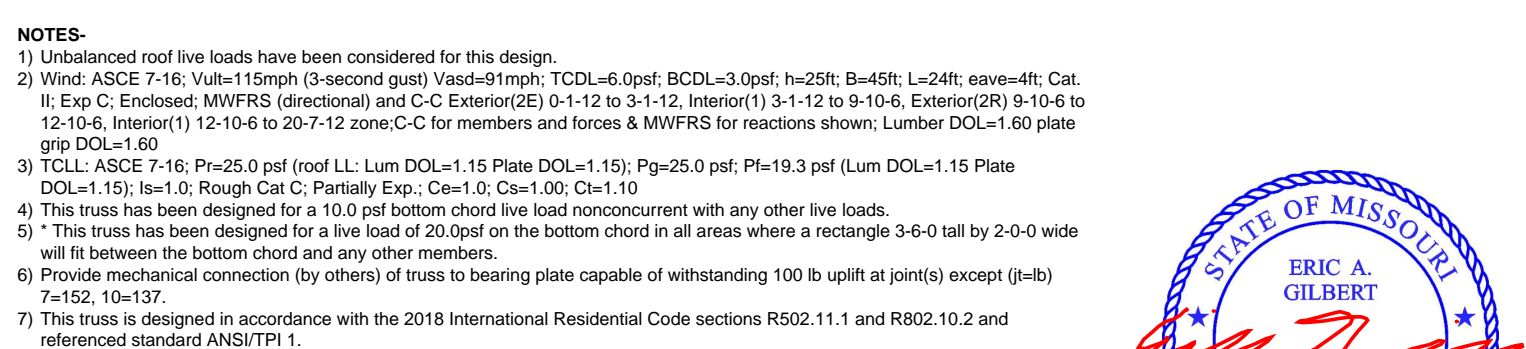
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD	1-2=-375/0, 2-3=-351/151, 3-4=-825/303, 4-5=-825/303, 5-6=-351/151, 6-7=-375/0
BOT CHORD	1-11=-9/273, 9-11=-157/770, 8-9=-153/770, 7-8=-9/273
WEBS	4-9=-186/477, 5-9=-253/197, 5-8=-728/193, 6-8=-266/254, 3-9=-253/197, 3-11=-728/193, 2-11=-266/254

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 10-9-6, Corner(3R) 10-9-6 to 13-9-6, Exterior(2N) 13-9-6 to 21-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCDL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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) 8=152, 11=152.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 01:23:15 2022 Page 2
ID:GSVPvo9ERO5RBWVVLhkfkoYNgJR-mQ6oVPoSmyX1JUeOEfmoTKtERQloKzZo55Y7z19A



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	C4	Roof Special	1	1	
Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,					
8.430 s Aug 16 2021 MiTek Industries, Inc. Friday, Jan 21, 03:31:16 2022 Page 7					
ID:GSVPvo9ERO5RBWVVLhkf0yNGJr-EdgAjp4XGfuxCaoN_UknGZLenX1Gxh6SzC4Rz19is					
Job Reference (optional)					

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/19/2022

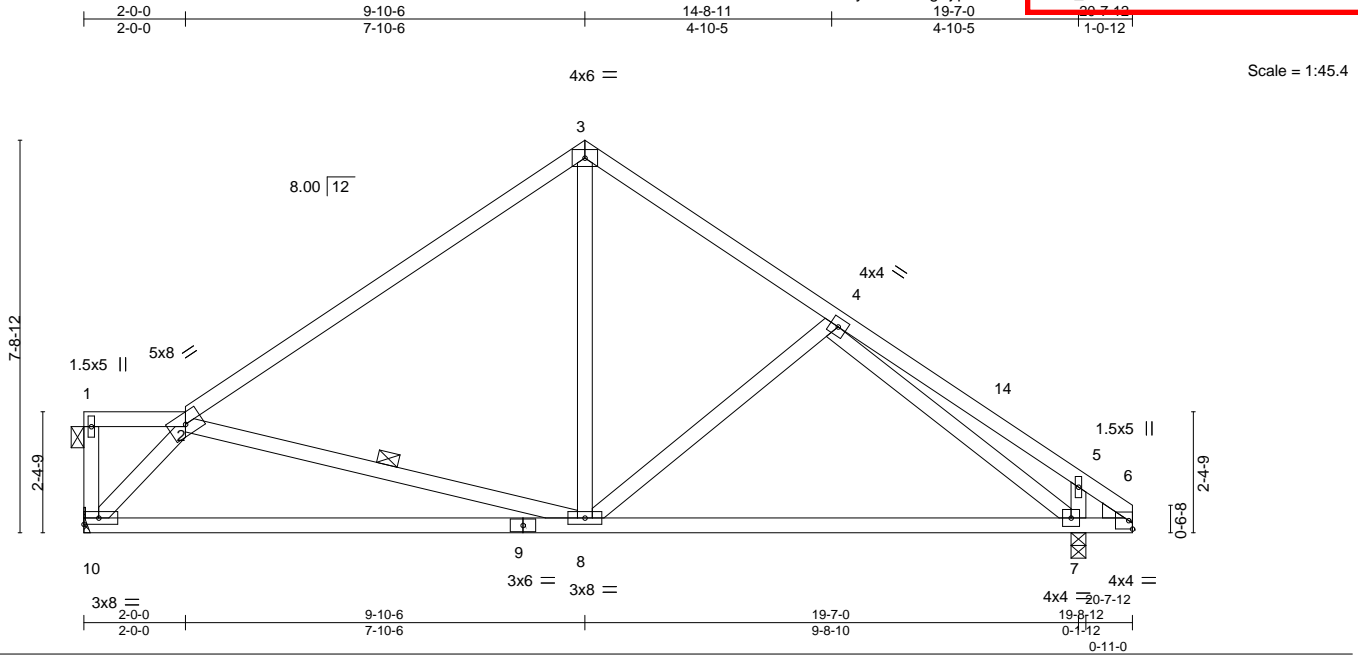


Plate Offsets (X,Y)-- [2:0-0-0,0-0-1]					
LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.90
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.64
TCDL	10.0	Rep Stress Incr	YES	WB	0.50
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS	
BCDL	10.0				
DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
Vert(LL)	-0.17 8-10	>999	240	MT20	244/190
Vert(CT)	-0.35 8-10	>660	180		
Horz(CT)	0.02 7	n/a	n/a		
Weight: 116 lb					FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 2-8
WEDGE	
Right: 2x4 SP No.3	

REACTIONS. (size) 10=Mechanical, 7=0-3-8
Max Horz 10=139(LC 13)
Max Uplift 10=-140(LC 14), 7=-149(LC 14)
Max Grav 10=872(LC 2), 7=973(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-903/273, 3-4=-835/307, 4-5=-357/170, 5-6=-353/0
BOT CHORD 8-10=-195/776, 7-8=-149/768, 6-7=-20/261
WEBS 2-10=-1110/442, 3-8=-101/455, 4-7=-722/174, 5-7=-293/275

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 2-0-0, Exterior(2N) 2-0-0 to 9-10-6, Corner(3R) 9-10-6 to 12-10-6, Exterior(2N) 12-10-6 to 20-7-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- 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) except (jt=lb) 10=140, 7=149.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

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

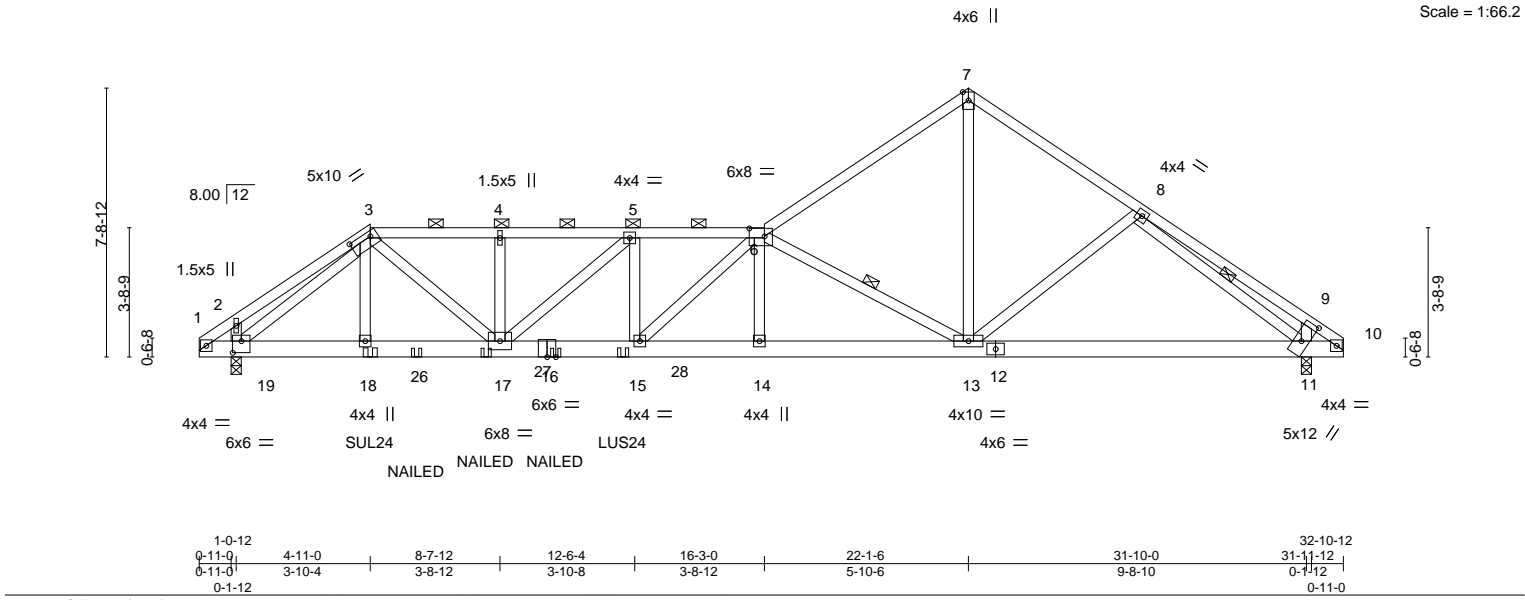
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	C5	Roof Special Girder	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:18 2022 Page 1
ID:GSPVp09ERO5RBWVVLhkf0yNGJr-A?nw8RrL3tvcAyMzwo0UP6MKFSQFV3A4GmXg8Kz197
1-0-12 4-11-0 8-7-12 12-6-4 16-3-0 22-1-6 26-11-11 31-10-0 32-10-12
1-0-12 3-10-4 3-8-12 3-10-8 3-8-12 5-10-6 4-10-5 4-10-5 1-0-12



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.24 14 >999	240	MT20	244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.41 14-15 >893	180			
TCDL	10.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.09 11 n/a	n/a			
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							
BCDL	10.0								Weight: 217 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-11-8 oc purlins, except
BOT CHORD	2x6 SP No.1		2-0-0 oc purlins (2-7-9 max.): 3-6.
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-4-5 oc bracing.
		WEBS	1 Row at midpt 6-13, 8-11

REACTIONS. (size) 19=0-3-8, 11=0-3-8
Max Horz 19=160(LC 32)
Max Uplift 19=-658(LC 10), 11=-358(LC 10)
Max Grav 19=2397(LC 2), 11=1817(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-555/150, 2-3=-733/262, 3-4=-4064/1132, 4-5=-4063/1131, 5-6=-4937/1254,
6-7=-2194/524, 7-8=-2170/534, 8-9=-612/137, 9-10=-497/0
BOT CHORD 1-19=-141/538, 18-19=-650/2412, 17-18=-643/2399, 15-17=-1151/4937,
14-15=-1032/4705, 13-14=-1033/4704, 11-13=-330/1784, 10-11=-28/428
WEBS 3-19=-2487/677, 3-18=-180/324, 3-17=-519/2240, 4-17=-304/132, 5-17=-1153/162,
5-15=-32/468, 6-15=-374/419, 6-13=-3433/900, 7-13=-459/1927, 8-11=-1776/396,
9-11=-416/207, 2-19=-365/171

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10, Lu=50-0-0
 - Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) 19=658, 11=358.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Use Simpson Strong-Tie SUL24 (4-10dx1 1/2 Girder, 4-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 4-11-0 from the left end to connect truss(es) to front face of bottom chord, skewed 45.0 deg.to the left, sloping 0.0 deg. down.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 12-2-4 from the left end to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
21-26876	C5	Roof Special Girder	1	1	Job Reference (optional)	149830535

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:18 2022 Page 2

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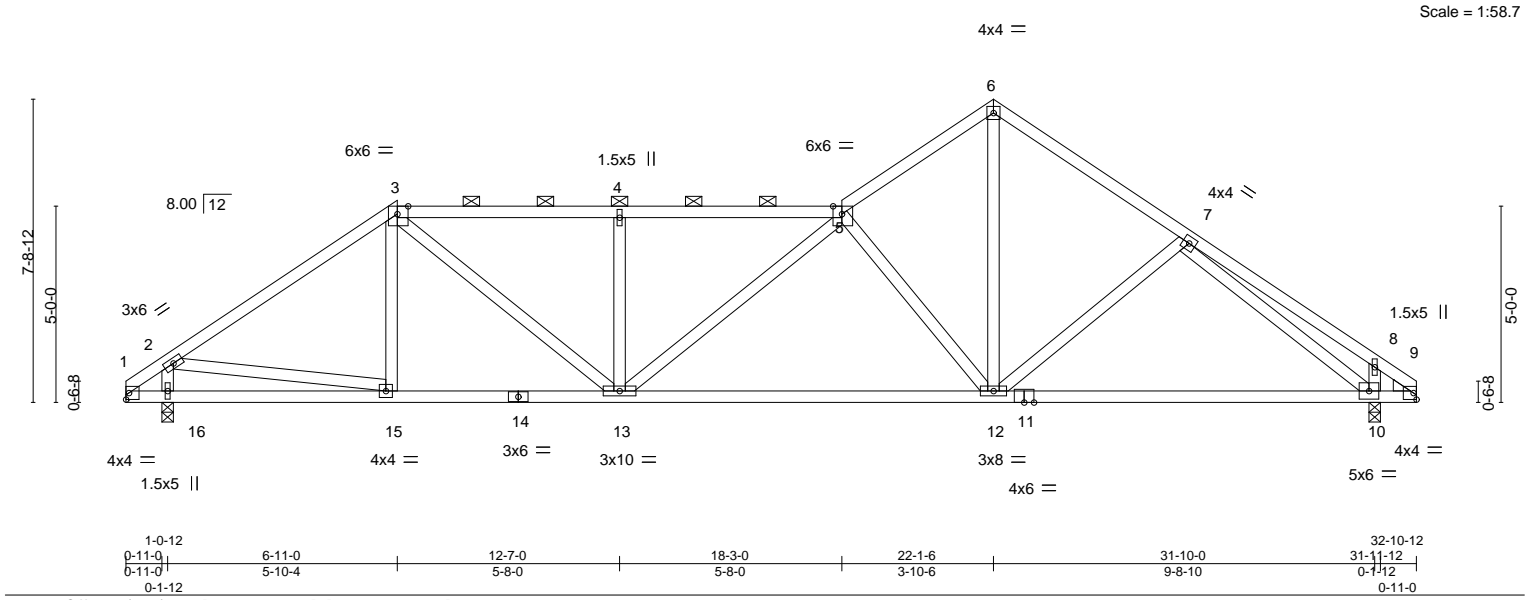
LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-3=-59, 3-6=-58, 6-7=-59, 7-10=-58, 20-23=-20
- Concentrated Loads (lb)
 - Vert: 16=-114(F) 18=-307(F) 26=-114(F) 27=-114(F) 28=-508(F)



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	C6	Roof Special	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:19 2022 Page 1
ID:GSVPvo9ERO5RBWVVVhkf0yNGJr-eCLJLnzqB1To6x9TVXjySubKfEEVRB0QHmhz1910
149830536
04/19/2022



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	C7	Roof Special	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:29 2022 Page 7

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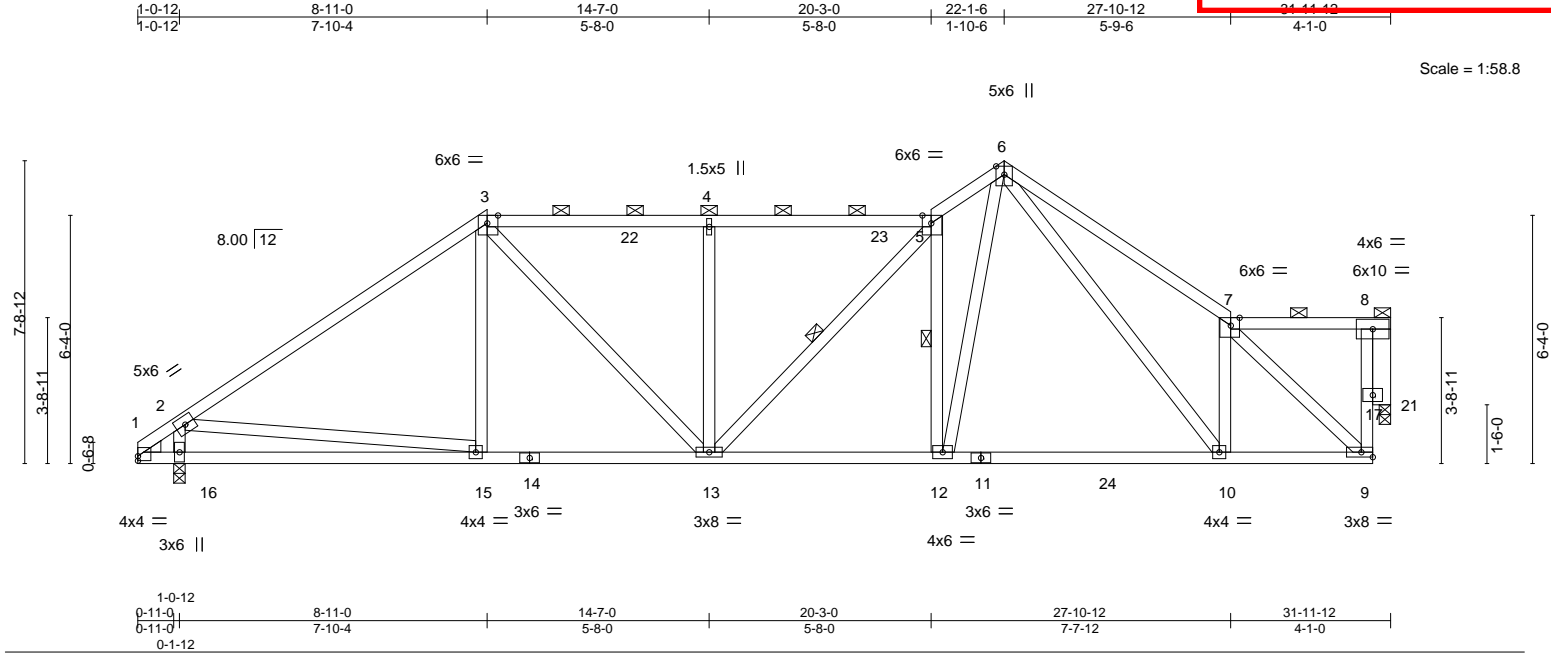


Plate Offsets (X,Y)-- [1:0-0-0,0-1-6], [3:0-3-5,Edge], [5:0-2-11,Edge], [7:0-2-11,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.16 10-12 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.76	Vert(CT) -0.27 10-12 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.07 21 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 208 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2 *Except*
6-10: 2x4 SP No.1
OTHERS 2x6 SP No.1
WEDGE
Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-2-14 max.): 3-5, 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-13, 5-12

REACTIONS.

(size) 16=0-3-8, 21=0-3-8
Max Horz 16=-124(LC 12)
Max Uplift 16=-226(LC 14), 21=-216(LC 14)
Max Grav 16=1591(LC 24), 21=1427(LC 25)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-445/91, 2-3=-1871/421, 3-4=-1867/505, 4-5=-1868/505, 5-6=-2128/579,
6-7=-1934/503, 9-17=-284/1351, 8-17=-284/1351
BOT CHORD 1-16=-199/547, 15-16=-322/640, 13-15=-319/1506, 12-13=-365/1791, 10-12=-262/1343,
9-10=-329/1511
WEBS 2-16=-1451/509, 2-15=-66/1017, 3-13=-125/678, 4-13=-470/167, 5-13=-57/272,
5-12=-1489/438, 6-12=-409/1824, 6-10=-102/365, 7-9=-1841/399, 8-21=-1465/322

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 8-11-0, Corner(3R) 8-11-0 to 11-11-0, Exterior(2N) 11-11-0 to 22-1-6, Corner(3R) 22-1-6 to 25-1-6, Exterior(2N) 25-1-6 to 31-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- Bearing at joint(s) 21 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=16)=226, 21=216.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	C8	Roof Special	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:24 2022 Page 1
ID:GSPV09ERO5RBWVVLhkf0yNGJr-?98COUv6fjgmutq7G27dNc06sVdv04zei_HM_219H
149830538
04/19/2022

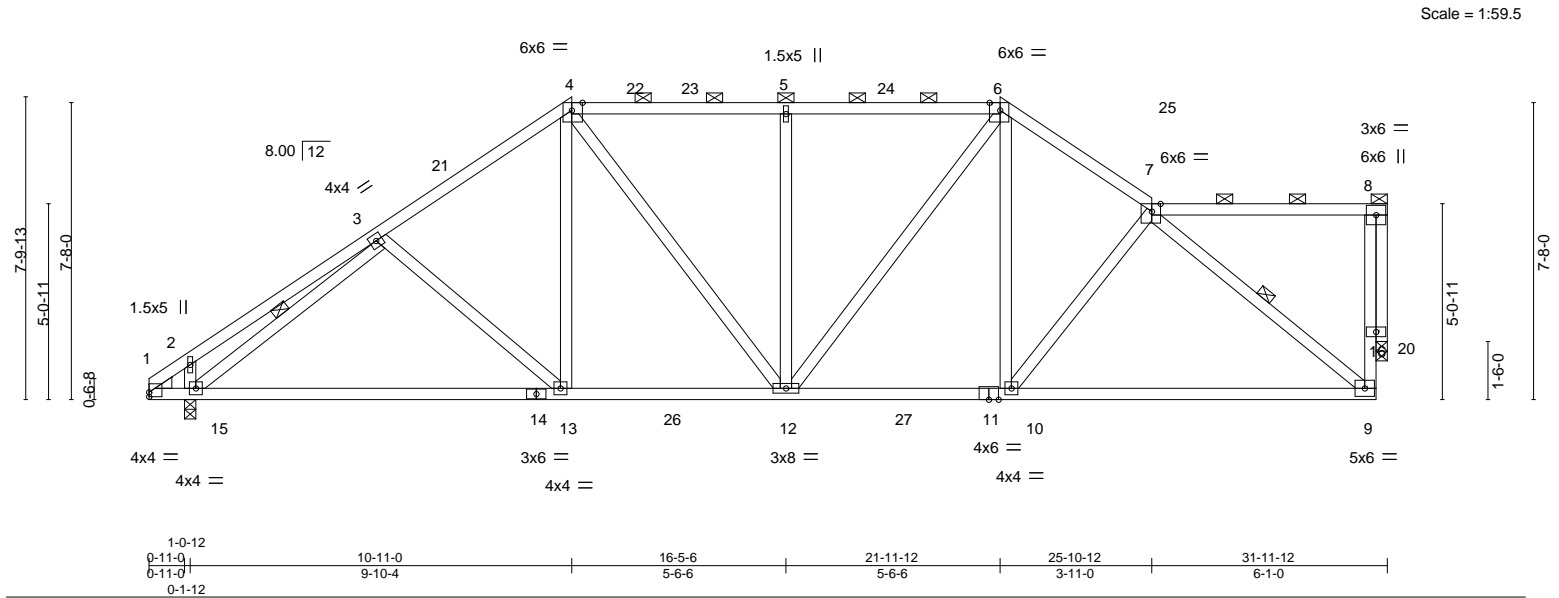


Plate Offsets (X,Y)-- [1:0-0-0,0-1-6], [4:0-3-5,Edge], [6:0-3-5,Edge], [7:0-2-11,Edge]									
LOADING (psf)		SPACING	2-0-0	CSI		DEFL.	in (loc)	l/defl	L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.59	Vert(LL)	-0.19	9-10	>999
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.39	9-10	>935
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.07	20	n/a
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS					
BCDL	10.0								
					PLATES				
					GRIP				
					MT20				
					244/190				
					Weight: 209 lb				
					FT = 20%				

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-7-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-9-0 max.): 4-6, 7-8.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 "Except"	WEBS	1 Row at midpt
	4-12,6-12: 2x4 SP No.1		3-15, 7-9
OTHERS	2x4 SP No.2		
WEDGE			
Left: 2x4 SP No.3			

REACTIONS. (size) 15=0-3-8, 20=0-3-8
Max Horz 15=146(LC 14)
Max Uplift 15=-220(LC 14), 20=-224(LC 14)
Max Grav 15=1628(LC 24), 20=1445(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-448/0, 2-3=-550/99, 3-4=-1772/345, 4-5=-1597/358, 5-6=-1597/358,
6-7=-1736/329, 9-16=-188/1277, 8-16=-188/1277
BOT CHORD 1-15=0/376, 13-15=-344/1535, 12-13=-244/1439, 10-12=-220/1393, 9-10=-267/1453
WEBS 2-15=-296/177, 3-15=-1427/254, 4-13=-32/397, 4-12=-59/440, 5-12=-467/132,
6-12=-90/432, 6-10=-12/437, 7-9=-1732/328, 8-20=-1452/244

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 10-11-0, Exterior(2R) 10-11-0 to 13-11-0, Interior(1) 13-11-0 to 21-11-12, Exterior(2R) 21-11-12 to 24-11-12, Interior(1) 24-11-12 to 31-6-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - Bearing at joint(s) 20 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=lb) 15=220, 20=224.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	C9	Roof Special	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:29 2022 Page 7
ID:GSVPvo9ERO5RBWVVLhkf0yNGJr-M7y5RCzETf12?ei43b;3MQCgt73a6kn_100BzLnry

01/19/2022

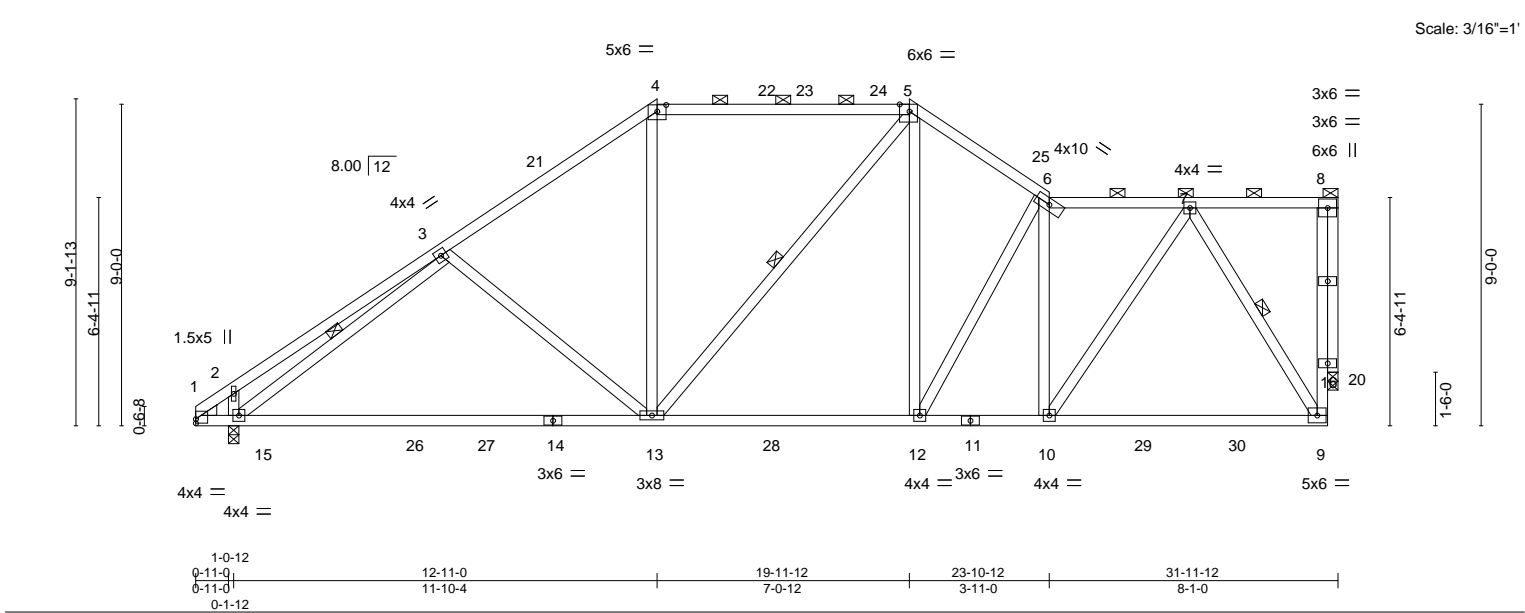


Plate Offsets (X,Y)-- [1:0-0-0,0-1-6], [4:0-3-0,0-2-3], [5:0-3-5,Edge]					
LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.79
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.99
TCDL	10.0	Rep Stress Incr	YES	WB	0.50
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS	
BCDL	10.0				
				DEFL.	
				in (loc)	l/defl
				Vert(LL)	-0.36 13-15 >999
				Vert(CT)	-0.66 13-15 >561
				Horz(CT)	0.06 20 n/a
				PLATES	GRIP
				MT20	244/190
				Weight: 221 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-6-7 oc purlins, except end verticals, and 2-0-0 oc purlins (3-7-13 max.): 4-5, 6-8.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x4 SP No.2 *Except*		2-2-0 oc bracing: 13-15.
	4-13,5-13,5-12: 2x4 SP No.1	WEBS	1 Row at midpt 3-15, 5-13, 7-9
OTHERS	2x4 SP No.2		
WEDGE			
Left: 2x4 SP No.3			

REACTIONS. (size) 15=0-3-8, 20=0-3-8
Max Horz 15=189(LC 14)
Max Uplift 15=-212(LC 14), 20=-232(LC 14)
Max Grav 15=1648(LC 24), 20=1489(LC 24)

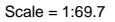
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-725/0, 2-3=-810/117, 3-4=-1695/334, 4-5=-1342/327, 5-6=-1605/332,
6-7=-1507/260, 9-16=-221/1397, 8-16=-221/1397
BOT CHORD 1-15=0/579, 13-15=-373/1560, 12-13=-226/1299, 10-12=-255/1489, 9-10=-158/854
WEBS 2-15=-352/230, 3-15=-1261/229, 4-13=-30/484, 5-12=-37/498, 6-10=-717/196,
7-10=-182/1172, 7-9=-1461/282, 6-12=-392/65, 8-20=-1492/252

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 12-11-0, Exterior(2R) 12-11-0 to 15-11-0, Interior(1) 15-11-0 to 19-11-12, Exterior(2R) 19-11-12 to 22-11-12, Interior(1) 22-11-12 to 31-6-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - Bearing at joint(s) 20 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=lb) 15=212, 20=232.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:23:11 2022 Page 2
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-9-10 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-4 max.): 5-6, 7-9.
BOT CHORD	2x4 SP No.1		
WEBS	2x4 SP No.1 *Except*	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
	9-10,2-17,2-16,3-16,7-13,8-11: 2x4 SP No.2	WEBS	1 Row at midpt 9-10, 3-14, 6-14, 7-11

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

TOP CHORD
1-2=255/20, 2-3=195/300, 3-5=1552/314, 5-6=1201/323, 6-7=1743/376,
7-8=898/161, 8-9=896/160, 9-10=1440/277

BOT CHORD
1-17=47/274, 16-17=287/379, 14-16=390/1635, 13-14=223/1173, 11-13=261/1414

WEBS
2-17=1416/291, 2-16=104/1269, 3-14=503/188, 5-14=46/477, 6-13=114/725,
7-13=448/143, 7-11=941/184, 8-11=411/178, 9-11=284/1590

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCFL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 14-11-0, Exterior(2E) 14-11-0 to 17-11-12, Exterior(2R) 17-11-12 to 20-11-12, Interior(1) 20-11-12 to 31-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCELL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 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, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=245, 17=203.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022



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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	C11	Roof Special	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:31:12 2022 Page 149830541
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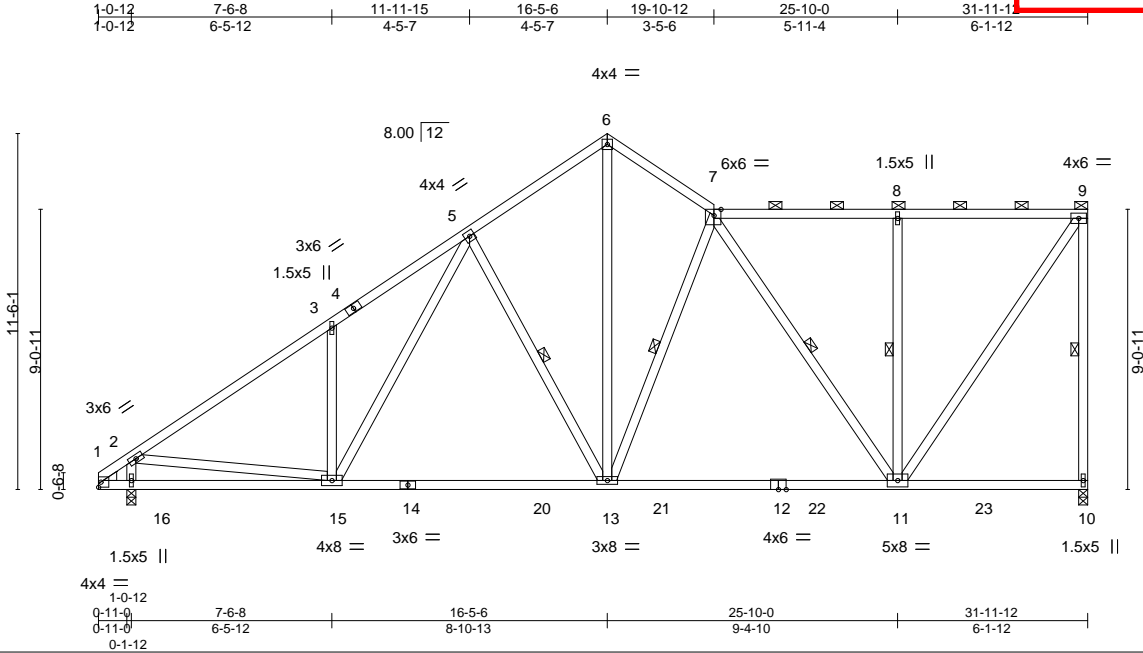


Plate Offsets (X,Y)-- [7:0-2-11,Edge]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defl	L/d
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	-0.23 11-13	>999	240
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.78	Vert(CT)	-0.38 11-13	>981	180
TCDL	10.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.04 10	n/a	n/a
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-MS					
BCDL	10.0								
					Weight: 232 lb FT = 20%				

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-1-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-7-1 oc bracing.
WEBS 2x4 SP No.1 "Except"	WEBS 1 Row at midpt 9-10, 7-13, 7-11, 8-11, 5-13
2-16,2-15,3-15: 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.3	

REACTIONS. (size) 10=0-3-8, 16=0-3-8
Max Horz 16=274(LC 14)
Max Uplift 10=-272(LC 11), 16=-192(LC 14)
Max Grav 10=1586(LC 23), 16=1668(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2016/362, 3-5=-2016/524, 5-6=-1422/388, 6-7=-1440/398, 7-8=-927/215, 8-9=-925/214, 9-10=-1483/374
BOT CHORD 1-16=-102/310, 15-16=-431/423, 13-15=-396/1402, 11-13=-332/1316
WEBS 2-16=-1534/392, 2-15=-70/1270, 3-15=-383/245, 6-13=-324/1306, 7-13=-503/164, 7-11=-699/211, 8-11=-498/213, 9-11=-375/1624, 5-13=-527/259, 5-15=-214/568

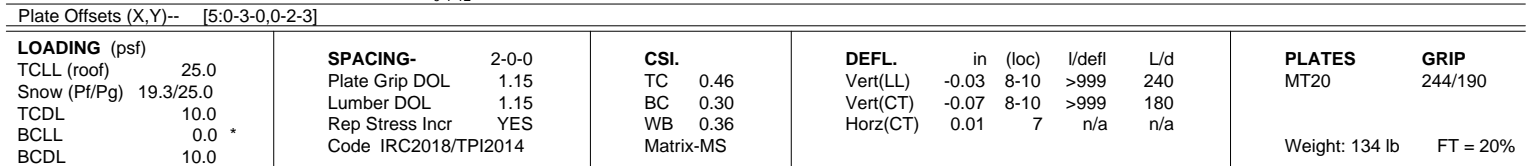
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-0 to 3-0-0, Exterior(2N) 3-0-0 to 16-5-6, Corner(3R) 16-5-6 to 19-5-6, Exterior(2N) 19-5-6 to 31-10-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=272, 16=192.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MITek Industries, Inc. Fri Jan 21 10:13:13 2022 Page 1
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Scale = 1:59.5



REACTIONS. (size) 7=0-3-8, 11=0-3-8
 Max Horz 11=300(LC 14)
 Max Uplift 7=208(LC 14), 11=59(LC 14)
 Max Grav 7=930(LC 23), 11=991(LC 23)

TOP CHORD 2-3=-1006/62, 3-5=-539/59, 5-6=-370/95, 6-7=-833/235
BOT CHORD 1-11=-46/254, 10-11=-358/334, 8-10=-247/814
WEBS 2-11=-829/169, 2-10=0/499, 3-8=-575/200, 6-8=-205/798

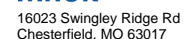
STATE OF MISSOURI

ERIC A.
GILBERT

NUMBER
PE-2011030168

PROFESSIONAL ENGINEER

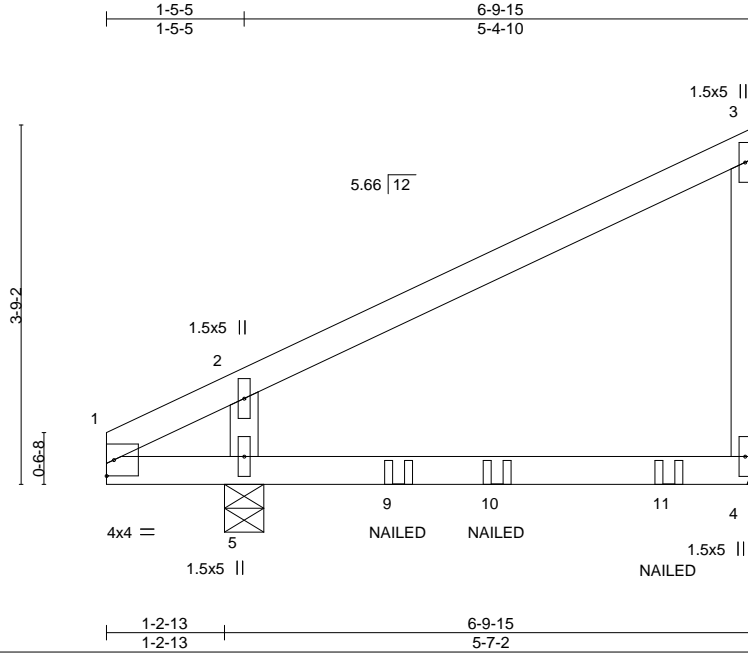
WARNING – verify design parameters and **READ NOTES ON THIS AND INCLUDED WITH REFERENCE TO AISC M14-13 161, JF 15/2020 BY ONE USER.** Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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 Cran Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	CJ6	Diagonal Hip Girder	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:35:20 2022 Page 1
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04/19/2022



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.27	Vert(LL) 0.09 4-5 >681 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Vert(CT) 0.08 4-5 >759 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.00 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 27 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-4-15
Max Horz 5=101(LC 12)
Max Uplift 4=-175(LC 12), 5=-109(LC 12)
Max Grav 4=336(LC 16), 5=413(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-463/184

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) 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) 4=175, 5=109.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 9) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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

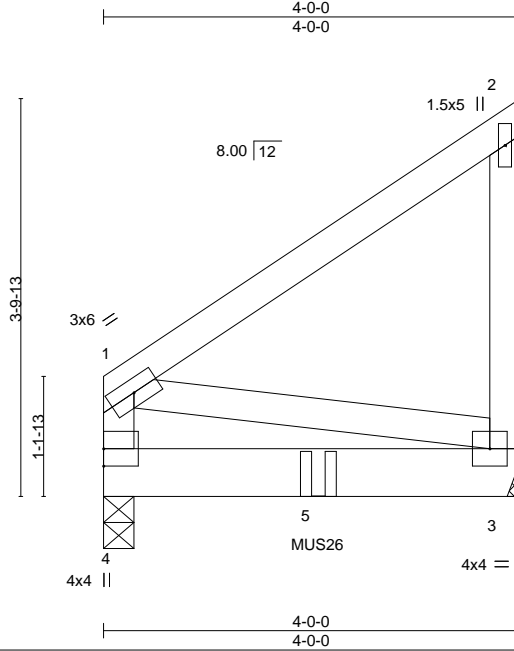
- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-59, 4-6=-20
- Concentrated Loads (lb)
Vert: 9=36(F) 10=-18(B) 11=-76(F)



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M20	Jack-Closed Girder	1	1	Job Reference (optional)

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:34:42 2022 Page 1
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04/19/2022



Scale = 1:22.1

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2'-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.03 3-4 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) -0.05 3-4 >899 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 27 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4'-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=0-3-8, 3=Mechanical
Max Horz 4=127(LC 9)
Max Uplift 4=87(LC 10), 3=-141(LC 7)
Max Grav 4=578(LC 2), 3=607(LC 2)

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

- NOTES-**
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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) 4 except (jt=lb) 3=141.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Use Simpson Strong-Tie MUS26 (6-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent at 2'-0-12 from the left end to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-59, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-741(F)



January 21, 2022

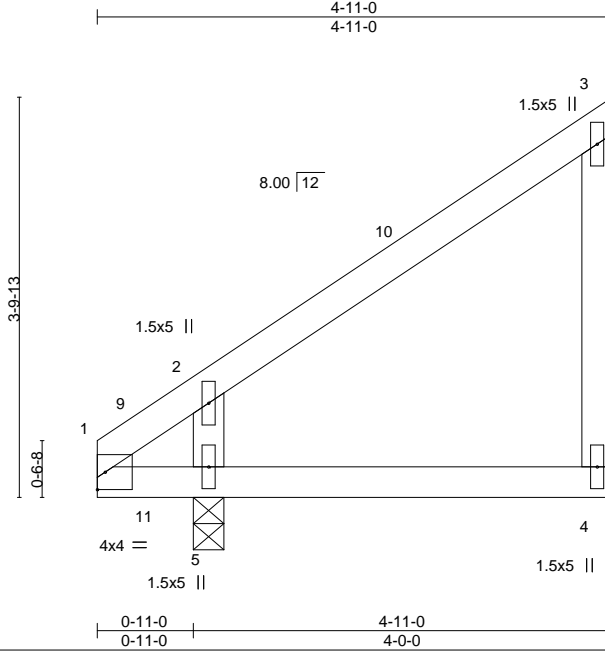
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M5	Jack-Closed	3	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:49 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkfkyNGJr-0WnKEYxQdqNbxpSIP9qold157dFJRt1BC44q1z19g

04/19/2022



Scale = 1:22.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.18	Vert(LL)	0.02	4-5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT)	-0.02	4-5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 22 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=130(LC 13)
Max Uplift 4=-68(LC 11), 5=-60(LC 14)
Max Grav 4=172(LC 23), 5=276(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-279/167
WEBS 2-5=-261/256

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 4-9-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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, 5.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



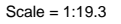
January 21, 2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 00:14:43 2022 Page 1
ID: GSVpvo9ERO5RBWVYLhkfk0vNGJr-BMQ3zVsf2 dYlOMJO8z9M1N0hitzVlGppvcdvz9dg

ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-BMQ3zVsf2_dY10MJO82QM1N0hjbzvjGopVdjdvt9go



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-1-3 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1		
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

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

NOTES-

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January 21, 2022



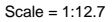
Design valid for use only with MiTeC® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 Code**.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:24:44 2022 Page 2
ID:GSVPv09ERO5RBWVVLhkf0v0NGJr-fY RBrtH0lPUAxxVvsZl0LwC06vReAkk19NG9Lz90u



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-1-3 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

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

NOTES-

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January 21, 2022



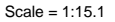
Design valid for use only with MTEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building system. 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 personnel 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 C**

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:14:44 2022 Page 1
ID:GSPVvo9ERO5RBWVVVlhkfk0yNGJr-fY_RBRtHplIPUaxVysZfuEwCL6yCeAhk19NG9LZt9gn



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-9-15 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

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

NOTES-

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January 21, 2022



Design valid for use only with MiTeC® 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 Code**.

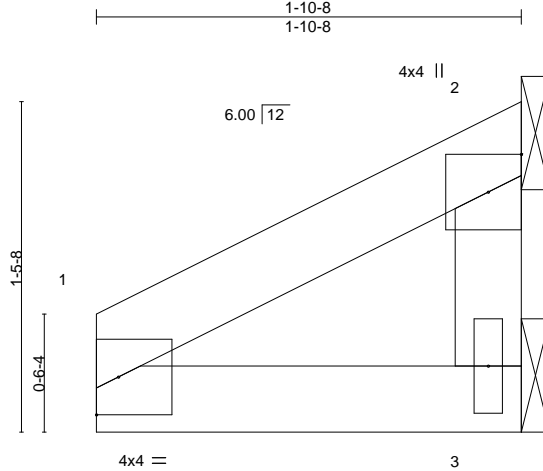
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601 **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component**



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M24	Jack-Closed	11	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:45 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkfkyNGJr-7kYpOBuvactG6JWWhVZ4uRSSmpWHBNdKb6p6qm29gm



Scale = 1:10.2

TRUSS MUST BE CONNECTED TO THE BEARINGS
FOR ALL VERTICAL AND HORIZONTAL REACTIONS (BY OTHERS).

Careful consideration should be given to bearing conditions.
Bearings and truss to bearing connections should be designed
in such a manner that they will safely withstand the
lateral forces of the trusses.

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.07	Vert(LL)	-0.00	6	n/r	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	-0.00	6	n/r		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00		n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 7 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 1-10-8 oc purlins,
except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 2=Mechanical
Max Horz 3=-136(LC 20), 2=136(LC 20)
Max Uplift 3=-20(LC 16), 2=-43(LC 16)
Max Grav 3=38(LC 7), 2=134(LC 20)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) 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) 3, 2.
- 8) Non Standard bearing condition. Review required.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



January 21, 2022

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

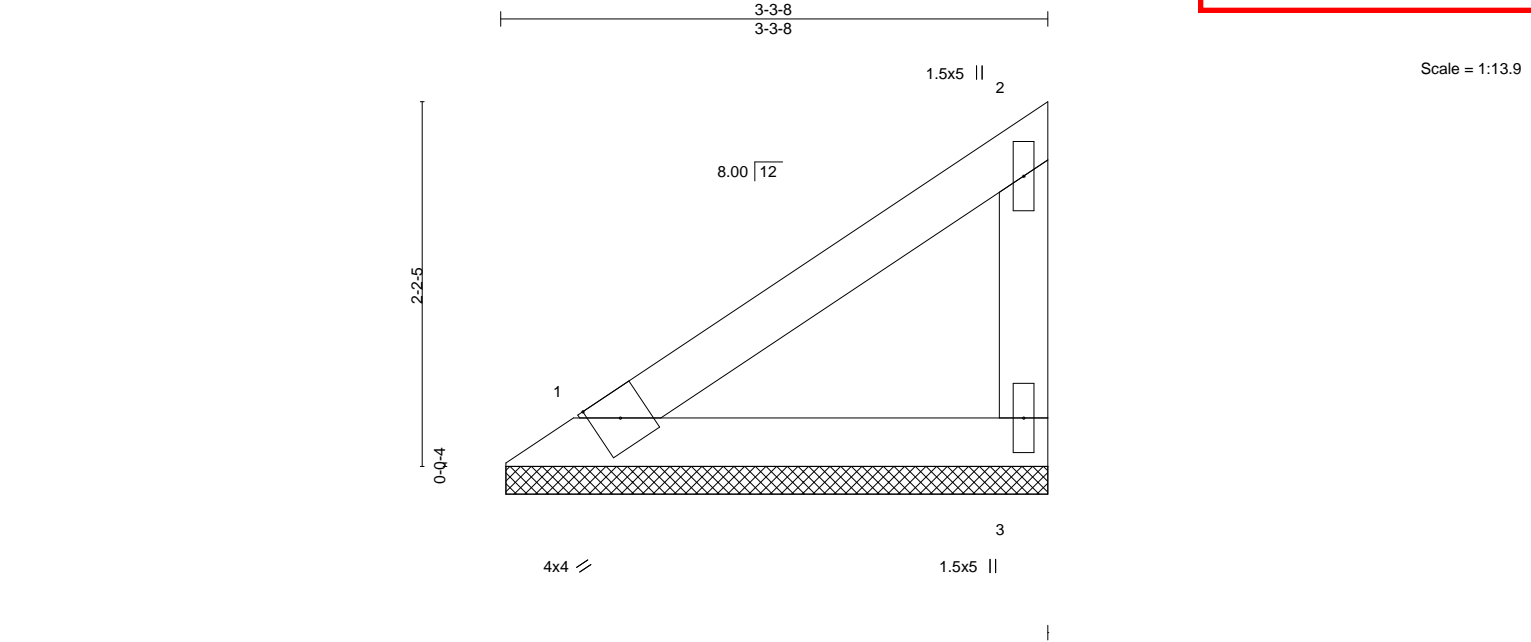
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	V1	Valley	1	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:35:13 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-Nl6er4CDSb8aEJ7h10Y_UxXpb?AVTOnjF/PCcH2legm



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-3-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=3-3-2, 3=3-3-2
Max Horz 1=57(LC 14)
Max Uplift 3=38(LC 14)
Max Grav 1=120(LC 2), 3=120(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Gable requires continuous bottom chord bearing.
 - 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) 3.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



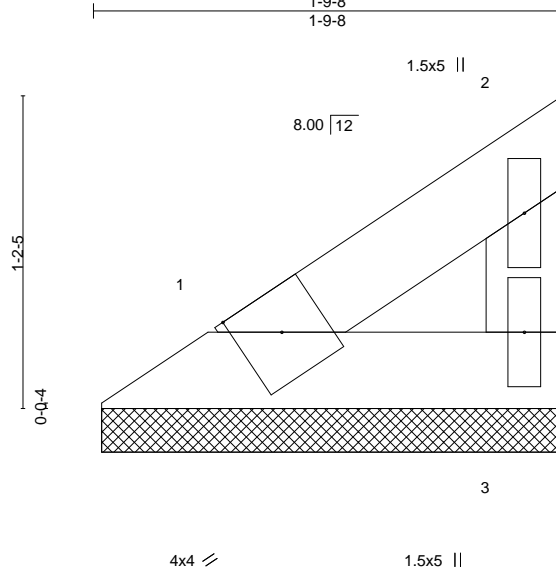
January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	V2	Valley	1	1	Job Reference (optional)

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:25:12 2022 Page 7
ID: GSVpvo9ERO5RBWVVLhkf0yNGJr-rxg13QDrDvGR-T4tbk3D1847mPWVCosTV98j29gE

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/19/2022



Scale = 1:8.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.02	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.01	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P					Weight: 6 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 1-9-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS.	(size)
1=1-9-2, 3=1-9-2	
Max Horz 1=25(LC 14)	
Max Uplift 3=16(LC 14)	
Max Grav 1=52(LC 2), 3=52(LC 2)	

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Gable requires continuous bottom chord bearing.
 - 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) 3.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

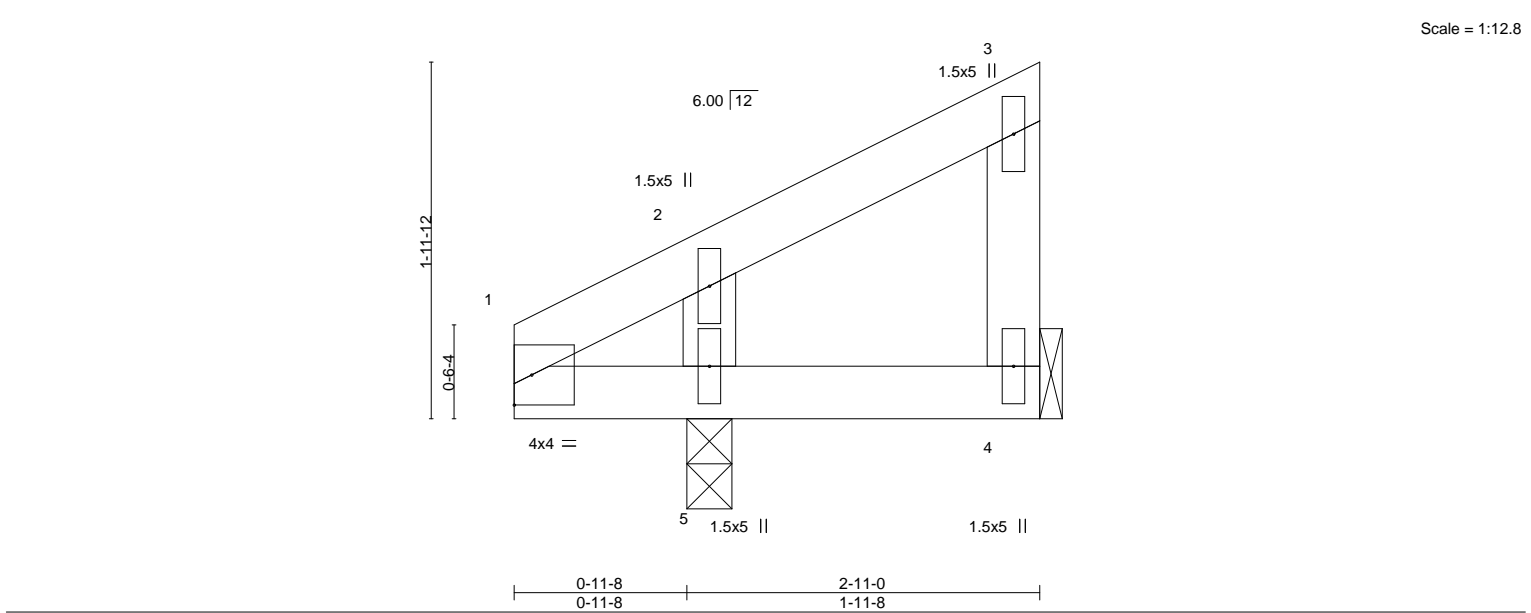


January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M26	Jack-Closed	3	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:46 2022 Page 149830552

ID:GSPV09ERO5RBWVVLhkf0yNGJr-bx6CcXvXLv?7xT5t4Gby_f?Vgwe_6481VTSNDLz1sg



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.06	Vert(LL)	0.00	5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	0.00	5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-11-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-0
Max Horz 5=60(LC 15)
Max Uplift 4=-31(LC 13), 5=-59(LC 16)
Max Grav 4=56(LC 27), 5=234(LC 20)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) 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) 4, 5.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



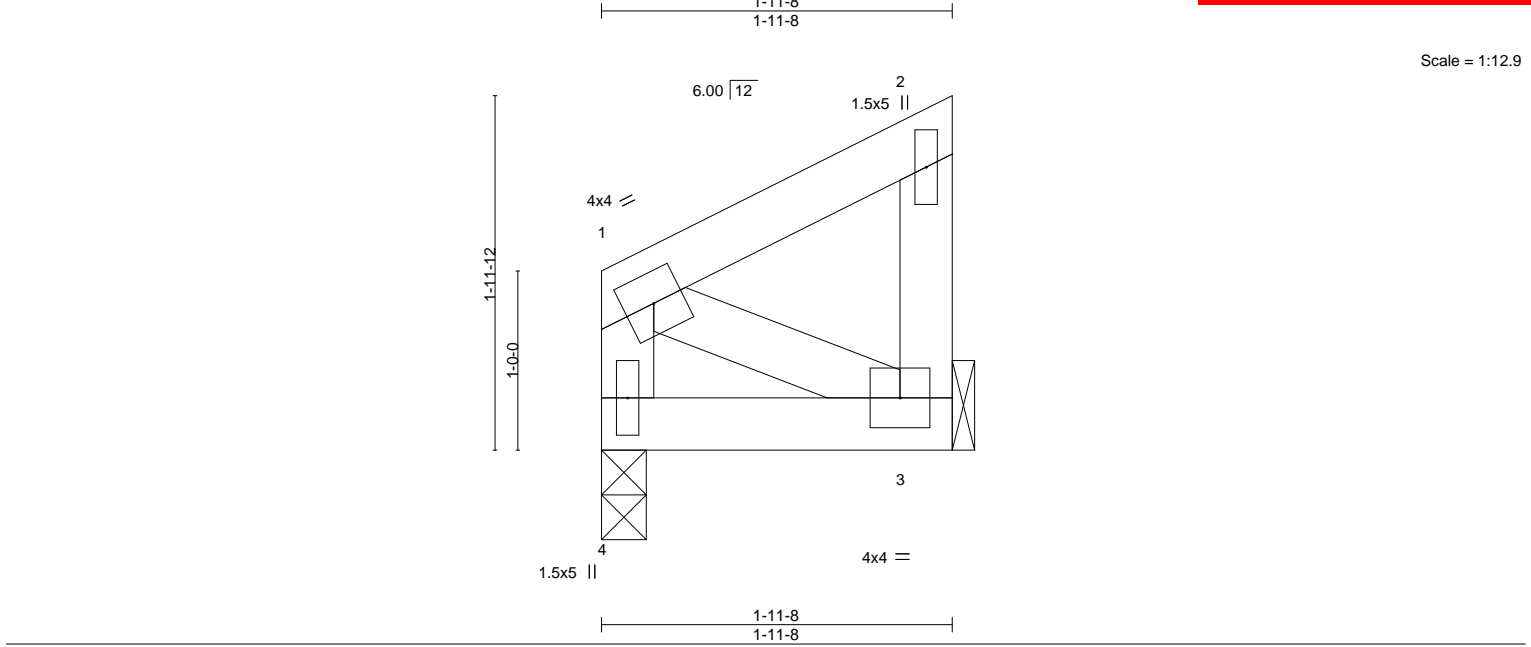
January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M27	Jack-Closed	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:47 2022 Page 2
ID:GSVPvo9ERO5RBWVVLhfk0yNGJr-47fapswA6D7_Mdg4d_6lMWtYHk_TrX-A6bXmgz9gk
Job Reference (optional)

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/19/2022



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.04	Vert(LL)	-0.00	4	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	-0.00	4	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	-0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 1-11-8 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=0-3-0, 3=Mechanical
Max Horz 4=60(LC 15)
Max Uplift 4=-8(LC 16), 3=-33(LC 13)
Max Grav 4=81(LC 20), 3=81(LC 20)

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

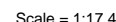
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) 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) 4, 3.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:25:19 2022 Page 1

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:15:00 2022 Page 3
ID:GSVPv99ERO5P8BWA/Vl bkkf0vNG Ir Bdv lY l4 l2Dm8E9a9uDrEvcaw0ZP Qf5e5e5u9g



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1		
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

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

NOTES-

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January 21, 2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MH-7473 (REV. 3/19/2020) BEFORE USE.

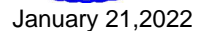
Design valid for use only with MiTEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 personnel 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 Code**

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

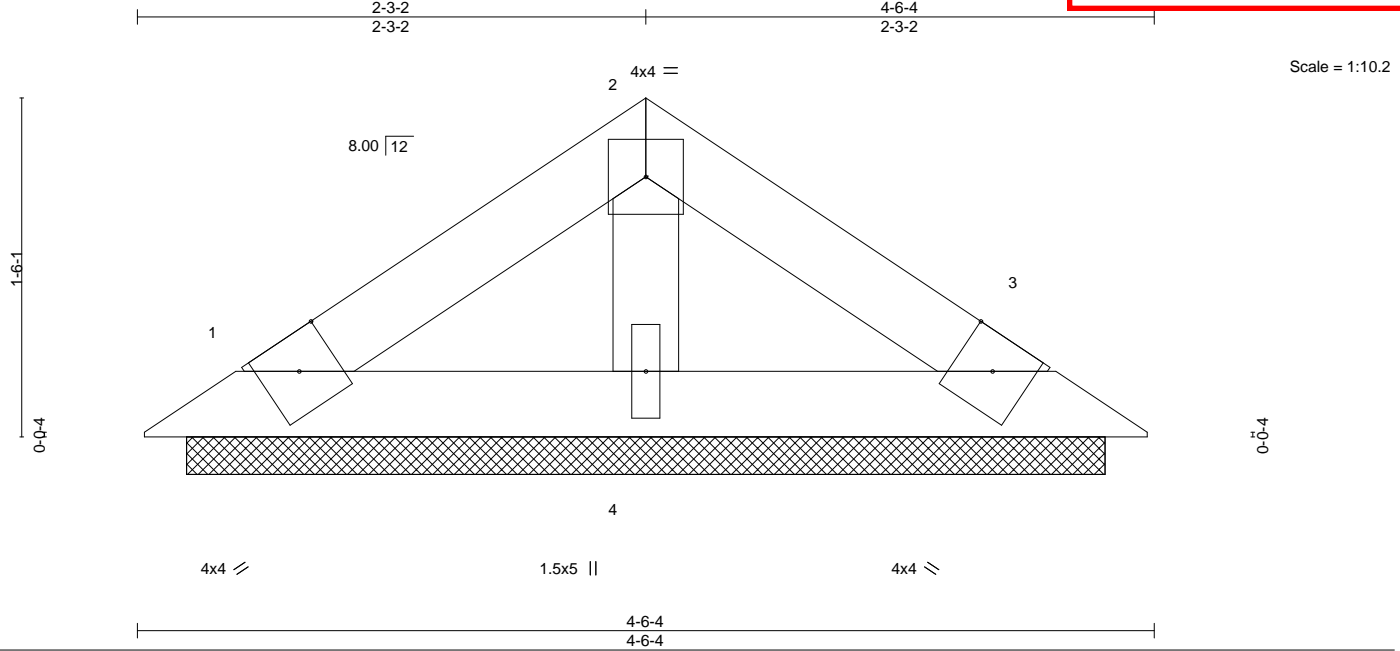
Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 00:14:59 2022 Page 2
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Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	PB15	Piggyback	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:25:02 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-703Fz?5aaq0sfxJy0attd1fHfN5sJ0AYkDolz9gv

04/19/2022



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P					Weight: 14 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-6-4 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=4-1-0, 3=4-1-0, 4=4-1-0
Max Horz 1=-26(LC 12)
Max Uplift 1=-21(LC 14), 3=-21(LC 14), 4=-8(LC 14)
Max Grav 1=88(LC 2), 3=88(LC 2), 4=144(LC 2)

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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 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) 1, 3, 4.
- Non Standard bearing condition. Review required.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



January 21, 2022

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	PB14	Piggyback	1	1	

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04/19/2022

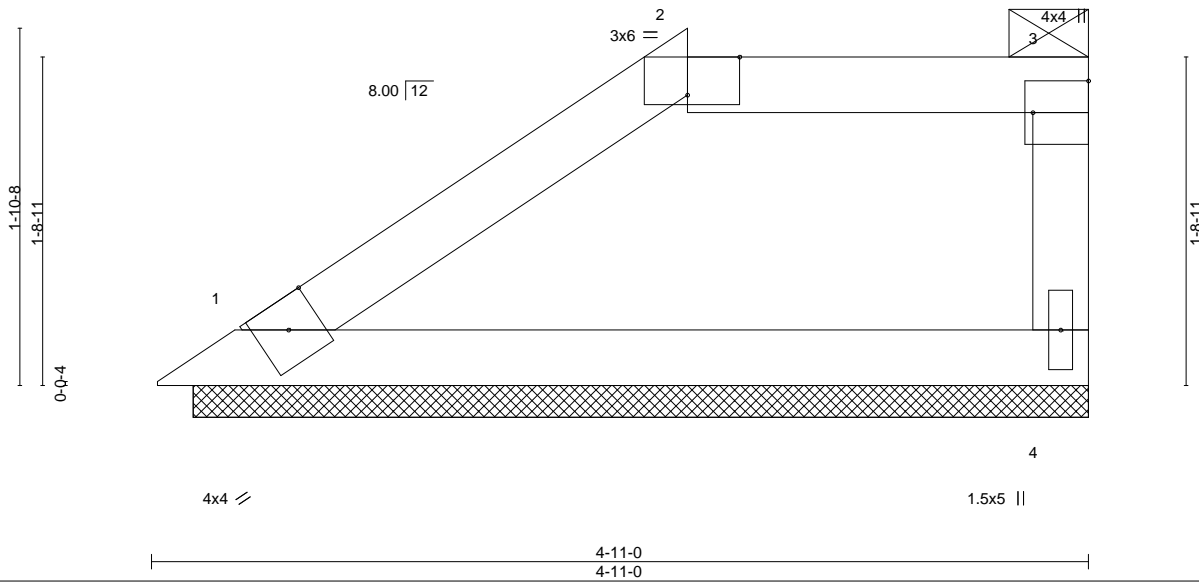


Plate Offsets (X,Y)-- [2:0-3-4,Edge], [3:Edge,0-3-8]									
LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Lumber DOL 1.15	BC 0.12	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-R							
BCDL 10.0								Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 2-3.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=4-8-6, 4=4-8-6
Max Horz 1=46(LC 14)
Max Uplift 1=23(LC 14), 4=44(LC 11)
Max Grav 1=193(LC 2), 4=193(LC 2)

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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-5-12 to 2-9-12, Exterior(2E) 2-9-12 to 4-9-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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) 1, 4.
 - Non Standard bearing condition. Review required.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



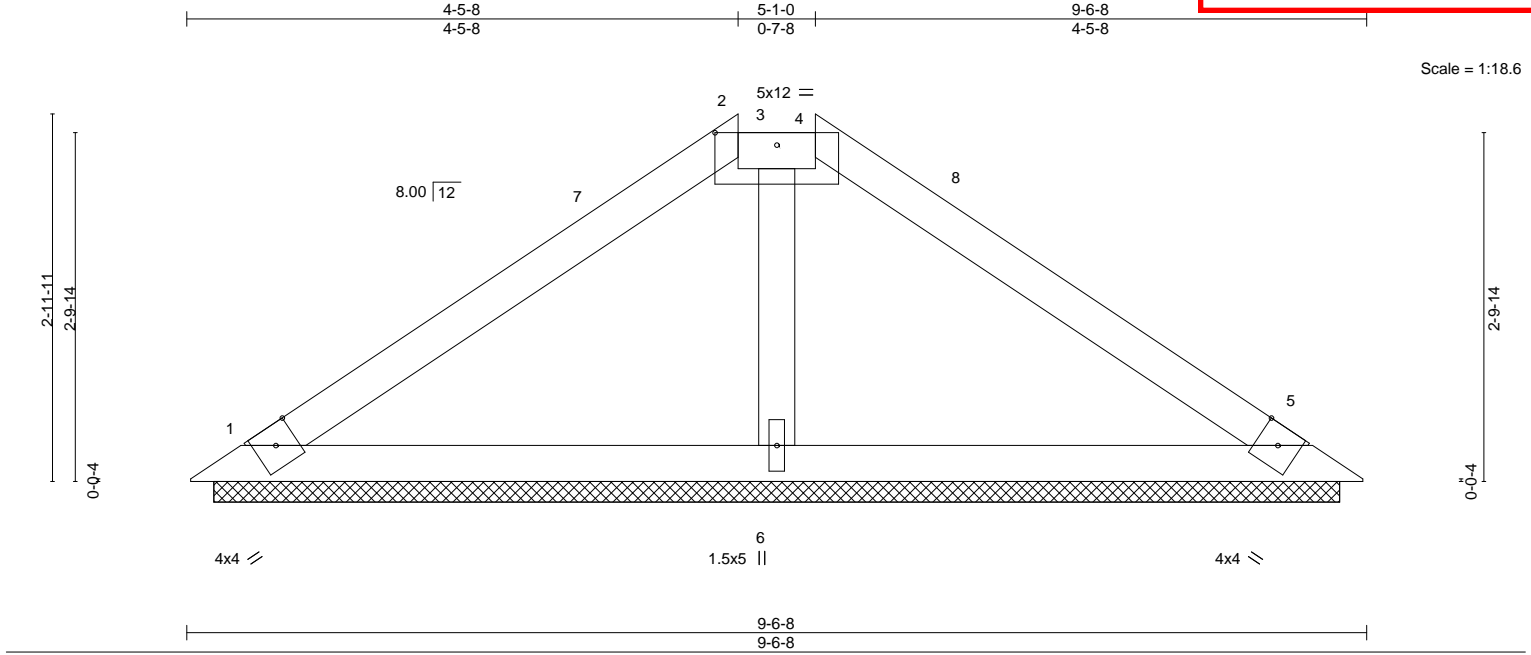
January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	PB2	Piggyback	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:35:02 2022 Page 7
ID: GSVpvo9ERO5RBWVVLhkfoYNGJr-703Fz?5aaqCsfXJy0dtto1fEON3CsJ_OAyKbolZ9gv

04/19/2022



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	n/a	MT20		244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	n/a				
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6'-0" oc purlins, except
BOT CHORD	2x4 SP No.1		2'-0" oc purlins (6'-0" max.): 2-4.
OTHERS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10'-0" oc bracing.

REACTIONS.	
(size)	1=9'-1-4, 5=9'-1-4, 6=9'-1-4
Max Horz	1=57(LC 13)
Max Uplift	1=46(LC 14), 5=46(LC 14), 6=29(LC 14)
Max Grav	1=205(LC 2), 5=205(LC 2), 6=362(LC 2)

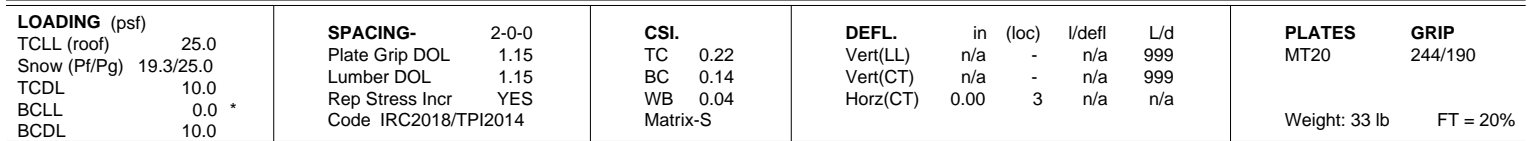
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-5-8, Exterior(2E) 4-5-8 to 9-0-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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" tall by 2'-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) 1, 5, 6.
 - Non Standard bearing condition. Review required.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 10:25:03 2022 Page 1
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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.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-255/109

STATE OF MISSOURI

ERIC A. GILBERT

NUMBER

PE-2011030168

PROFESSIONAL ENGINEER

January 21, 2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Friday, 21/08/2022 Page 2
ID: GSVpvo9ERO5RBWVVLHkfk0yNGJr-YblNb08SsIORW02XhmRafgHhMa6L3glsqwyOdz3gs
19-6-8
19-6-8

[illegible]

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 2-5.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCdL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-5-12 to 2-11-10, Exterior(2R) 2-11-10 to 5-9-4, Interior(1) 5-9-4 to 14-9-4, Exterior(2R) 14-9-4 to 17-9-4, Interior(1) 17-9-4 to 19-0-11 zone; 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) TCELL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.0; Lu=50-0-0; Min. flat roof snow load governs.
- 5) Provide adequate drainage to prevent water ponding.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 4-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 10, 12, 13, 9, 8.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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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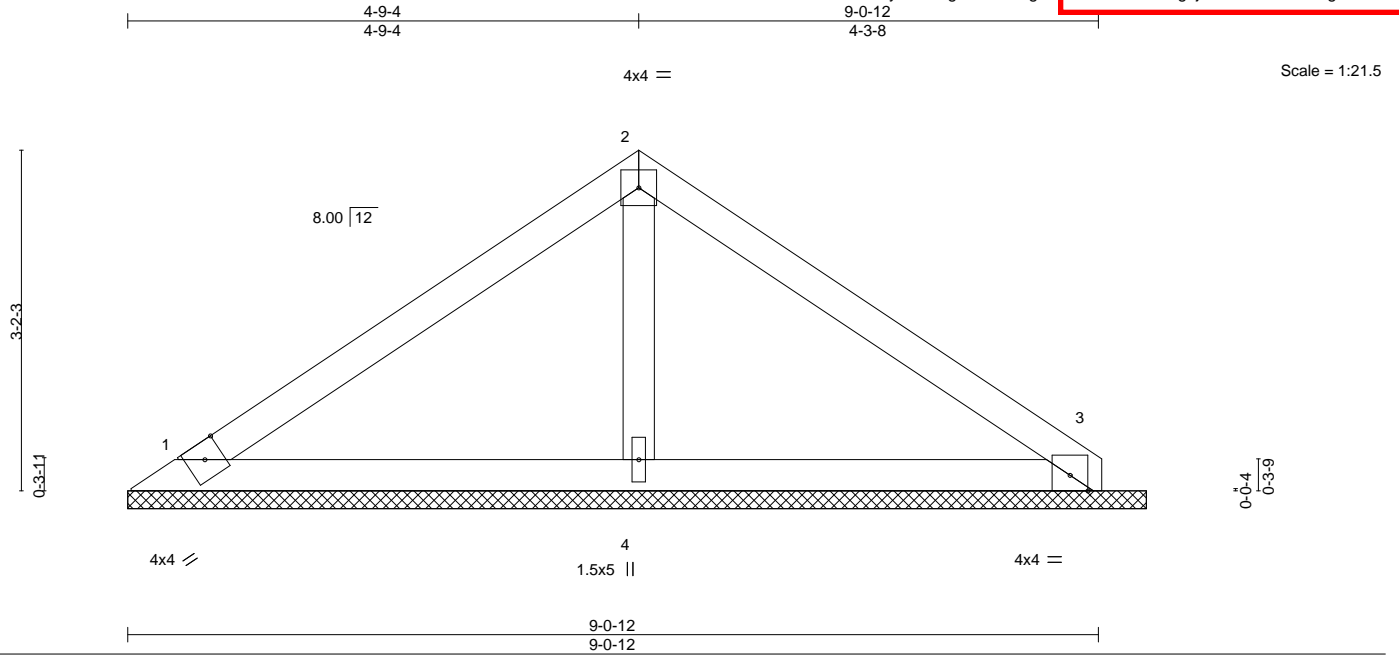
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	PB10	GABLE	6	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/19/2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:45:56 2022 Page 1
ID: GSVpvo9ERO5RBWVVLhkf0yNGJr-rg8bUc0BDg7rJshC5fFEz11Ytgaj9BM2MXm2Cz9gc



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.31	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P					Weight: 33 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=9-6-2, 3=9-6-2, 4=9-6-2
Max Horz 1=63(LC 13)
Max Uplift 1=51(LC 14), 3=51(LC 14), 4=19(LC 14)
Max Grav 1=212(LC 2), 3=210(LC 2), 4=346(LC 2)

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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-9-4, Exterior(2R) 4-9-4 to 7-9-4, Interior(1) 7-9-4 to 9-0-3 zone; 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.
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 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) 1, 3, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



January 21, 2022

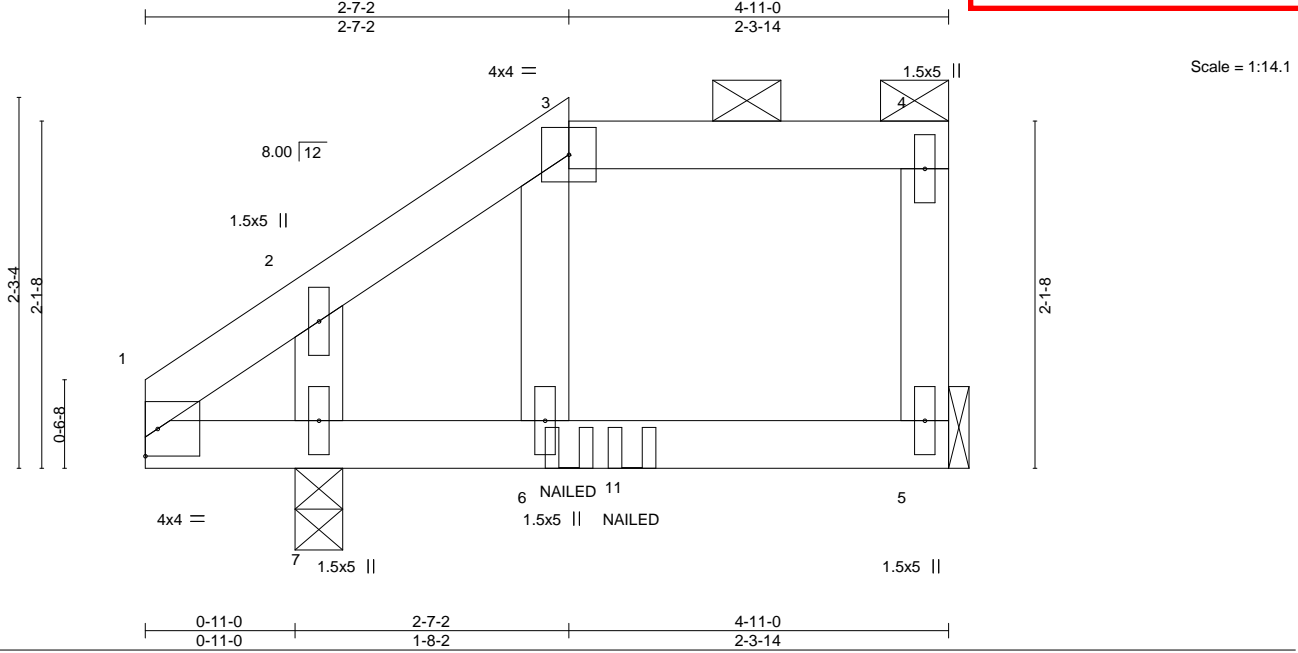
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M8	Jack-Closed Girder	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:45:31 2022 Page 1
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04/19/2022



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.08	Vert(LL) 0.04	5-6	>999	240	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.37	Vert(CT) -0.05	5-6	>907	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT) -0.00	5	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014							

LUMBER-		BRACING-	
TOP CHORD 2x4 SP No.1		TOP CHORD	Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD 2x4 SP No.1		BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2			

REACTIONS. (size) 5=Mechanical, 7=0-3-8
Max Horz 7=52(LC 10)
Max Uplift 5=82(LC 7), 7=72(LC 10)
Max Grav 5=195(LC 2), 7=324(LC 2)

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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- 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) 5, 7.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-59, 3-4=-58, 5-8=-20
Concentrated Loads (lb)
Vert: 6=-37(B) 11=-75(B)



January 21, 2022

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

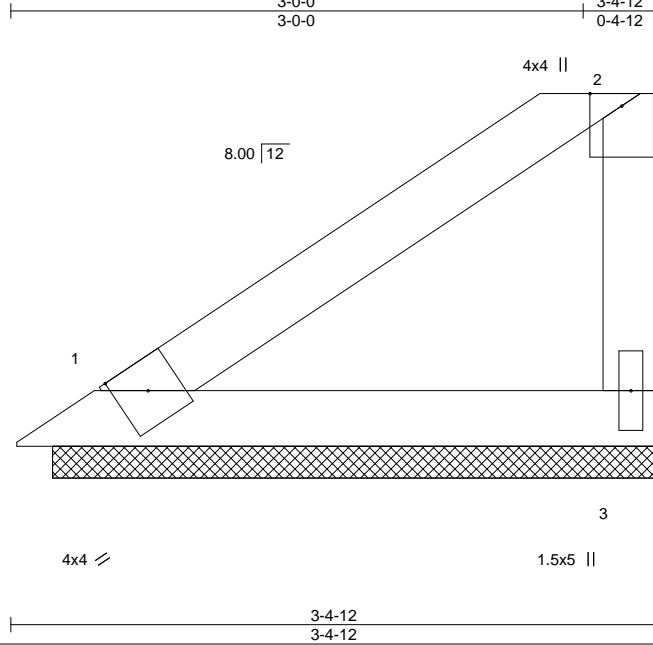
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	PB11	Piggyback	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:58 2022 Page 2
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Scale: 1"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.12	Vert(LL)	n/a -	n/a 999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	n/a -	n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00 3	n/a n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P					
BCDL 10.0	Code IRC2018/TPI2014					Weight: 12 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-4-12 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=3-2-2, 3=3-2-2
Max Horz 1=59(LC 14)
Max Uplift 3=38(LC 14)
Max Grav 1=125(LC 2), 3=122(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 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) 3.
 - 6) Non Standard bearing condition. Review required.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

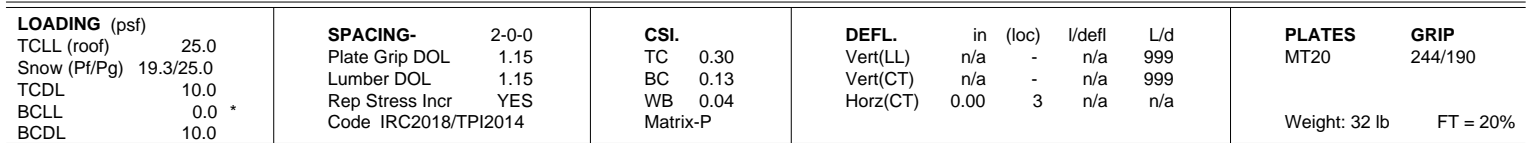


January 21, 2022

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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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 0:25:09 2022 Page 2
ID:GSVPv09ERO5RBWVVLhkfk0vNGJr-QM?uROBzw_us_0LIwvWWPW304BSs?UeQvUw5f0z3g0



REACTIONS. (size) 1=9-6-2, 3=9-6-2, 4=9-6-2
 Max Horz 1=63(LC 13)
 Max Uplift 1=-51(LC 14), 3=-51(LC 14), 4=-18(LC 14)
 Max Grav 1=210(LC 2), 3=210(LC 2), 4=343(LC 2)

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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-6-5 to 3-6-5, Exterior(2N) 3-6-5 to 4-9-4, Corner(3R) 4-9-4 to 7-9-4, Exterior(2N) 7-9-4 to 9-0-3 zone; 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) TCDL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 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) 1, 3, 4.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



January 21, 2022



WARNING – verify design parameters and **READ NOTES ON THIS AND INCLUDED WITH REFERENCE TO AISC M14-13 161, JF 15/2020 BY ONE USER.** 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

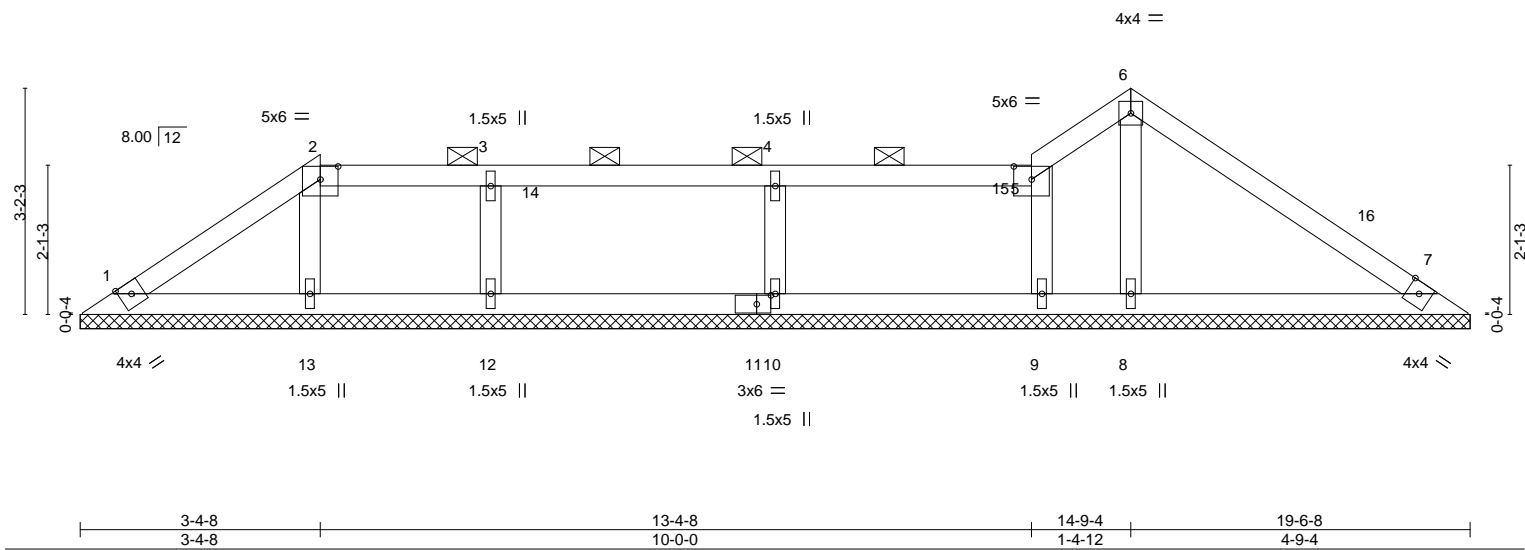


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	PB6	GABLE	1	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:35:06 2022 Page 2
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04/19/2022



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	n/a	MT20		244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a				
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.00				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							
BCDL	10.0										
								Weight: 73 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD	2x4 SP No.1		2-0-0 oc purlins (6-0-0 max.): 2-5.
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 19-6-8.
(lb) - Max Horz 1=63(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 12, 9, 13, 8 except 10=-102(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 9, 13 except 10=384(LC 2), 12=297(LC 30), 8=315(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 4-10=298/128

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-5-12 to 3-4-8, Exterior(2R) 3-4-8 to 6-4-8, Interior(1) 6-4-8 to 14-9-4, Exterior(2R) 14-9-4 to 17-9-4, Interior(1) 17-9-4 to 19-0-11 zone;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.
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 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) 1, 7, 12, 9, 13, 8 except (jt=lb) 10=102.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	PB7	GABLE	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:35:07 2022 Page 7

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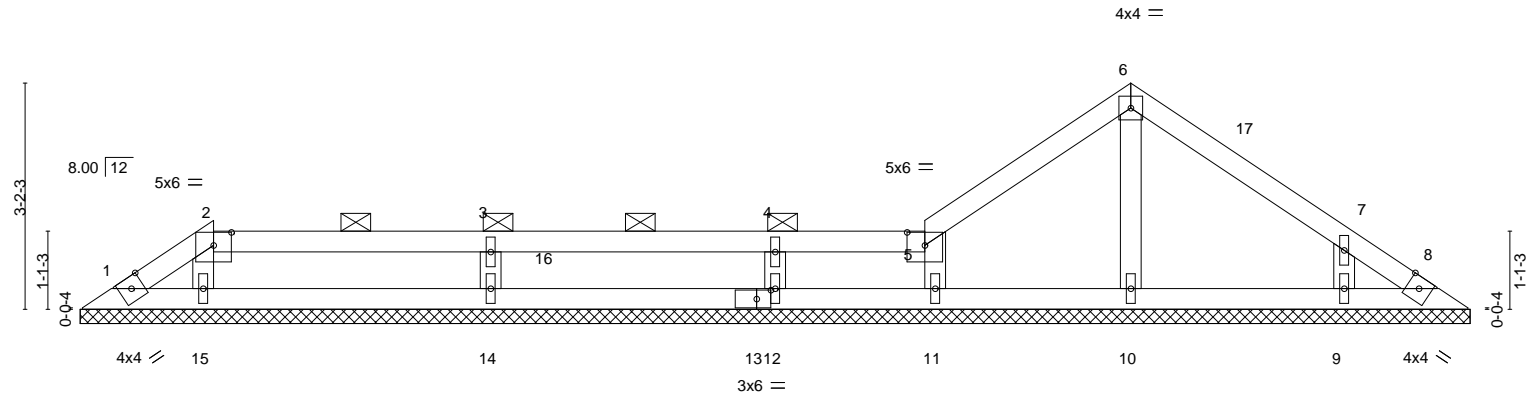


Plate Offsets (X,Y)--	[2:0-3-0,0-2-3], [5:0-3-0,0-2-3], [13:0-2-6,0-1-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 68 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SP No.1	2-0-0 oc purlins (6-0-0 max.): 2-5.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
OTHERS 2x4 SP No.2	6-0-0 oc bracing: 1-15.

REACTIONS. All bearings 19-6-8.
(lb) - Max Horz 1=63(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 12, 9, 11, 15 except 14=106(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 1, 8, 11 except 12=288(LC 2), 14=394(LC 30), 9=251(LC 31), 10=256(LC 2), 15=258(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-14=309/139

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-5-12 to 1-10-8, Corner(3R) 1-10-8 to 4-10-8, Exterior(2N) 4-10-8 to 14-9-4, Corner(3R) 14-9-4 to 17-9-4, Exterior(2N) 17-9-4 to 19-0-11 zone;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.
- TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x5 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 4-0-0 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) 1, 8, 12, 9, 11, 15 except (jt=lb) 14=106.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	PB4	GABLE	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:35:04 2022 Page 7
ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-4OB?Ng7q5RGauETL72wL3bCAmIKDUNEgDKsBL9gt
149830567
04/19/2022

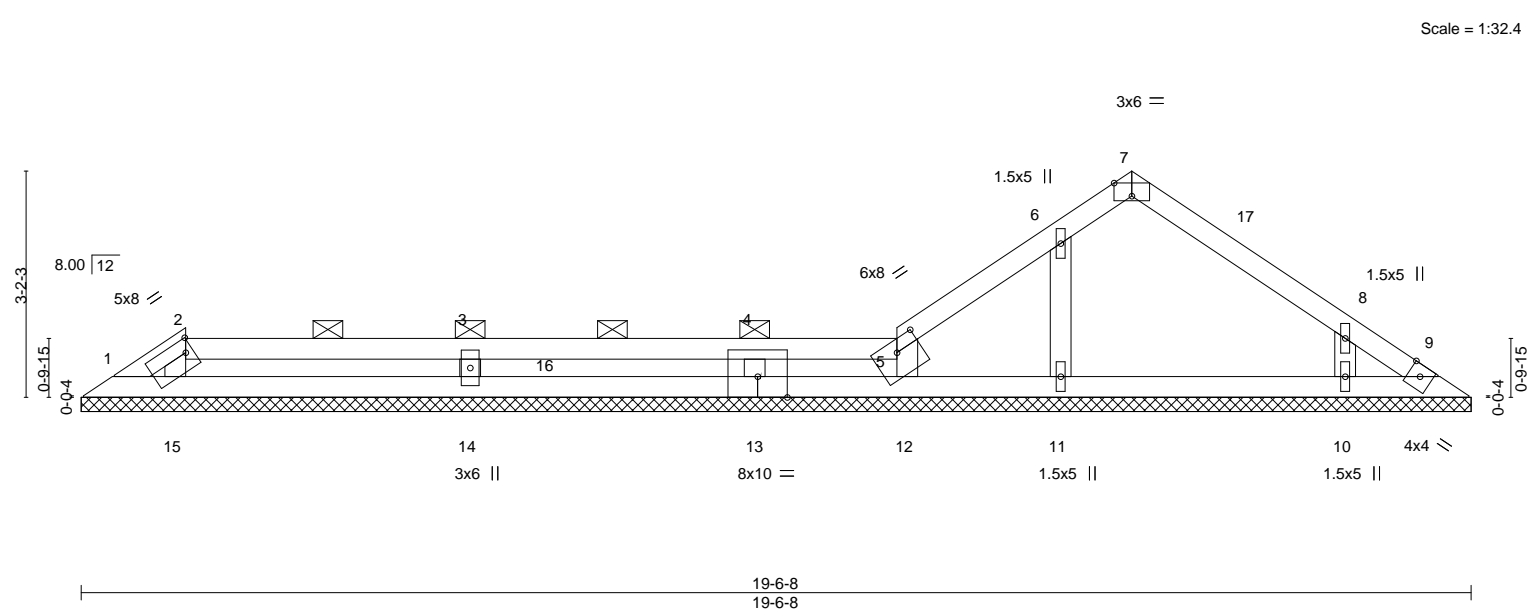


Plate Offsets (X,Y)-- [1:0-1-4,0-2-3], [5:0-4-0,0-2-0], [7:0-3-0,Edge]					
LOADING (psf)		SPACING-	2-0-0	CSL.	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.18
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.10
TCDL	10.0	Rep Stress Incr	YES	WB	0.04
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S	
BCDL	10.0				
				DEFL.	
				in (loc)	l/defl
				Vert(LL)	n/a - n/a
				Vert(CT)	n/a - n/a
				Horz(CT)	0.00 9 n/a
					L/d
					999
					999
					n/a
				PLATES	GRIP
				MT20	244/190
				Weight: 65 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD	2x4 SP No.1		2-0-0 oc purlins (6-0-0 max.): 2-5.
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 19-6-8.
(lb) - Max Horz 1=63(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 11, 10, 12, 15, 13 except 14=108(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 1, 9, 11, 12 except 10=283(LC 2), 15=255(LC 30), 14=399(LC 2), 13=299(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-14=313/141

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-5-12 to 1-5-10, Corner(3R) 1-5-10 to 4-5-10, Exterior(2N) 4-5-10 to 14-9-4, Corner(3R) 14-9-4 to 17-9-4, Exterior(2N) 17-9-4 to 19-0-11 zone;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.
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 4-0-0 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) 1, 9, 11, 10, 12, 15, 13 except (jt=lb) 14=108.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	PB4	GABLE	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:35:04 2022 Page 2
ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-4OB?Ng7q5RGauETL72wLl3bCAmIKDUneGDksBZ19gt

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
149830567

04/19/2022

- NOTES-**
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

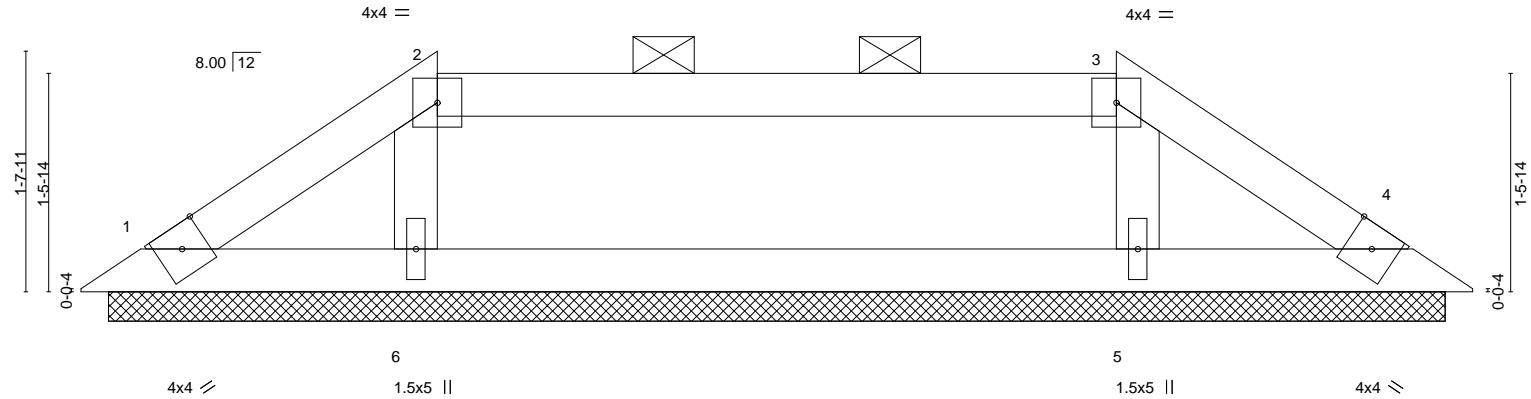
Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	PB1	Piggyback	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:45:42 2022 Page 1
ID:GSPVp09ERO5RBWVVLhkfk0yNGJr-MTbDHG?ZSN?_hiiQYXr?ILKt8Ln_15CKm00wmz19gd
13-8-4
13-8-4

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/19/2022

Scale = 1:15.7



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.25	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 31 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SP No.1	2-0-0 oc purlins (6-0-0 max.): 2-3.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 9-1-4.
(lb) - Max Horz 1=-28(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 1, 4, 6, 5
Max Grav All reactions 250 lb or less at joint(s) 1, 4 except 6=344(LC 29), 5=344(LC 30)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-6=-258/121, 3-5=-258/120

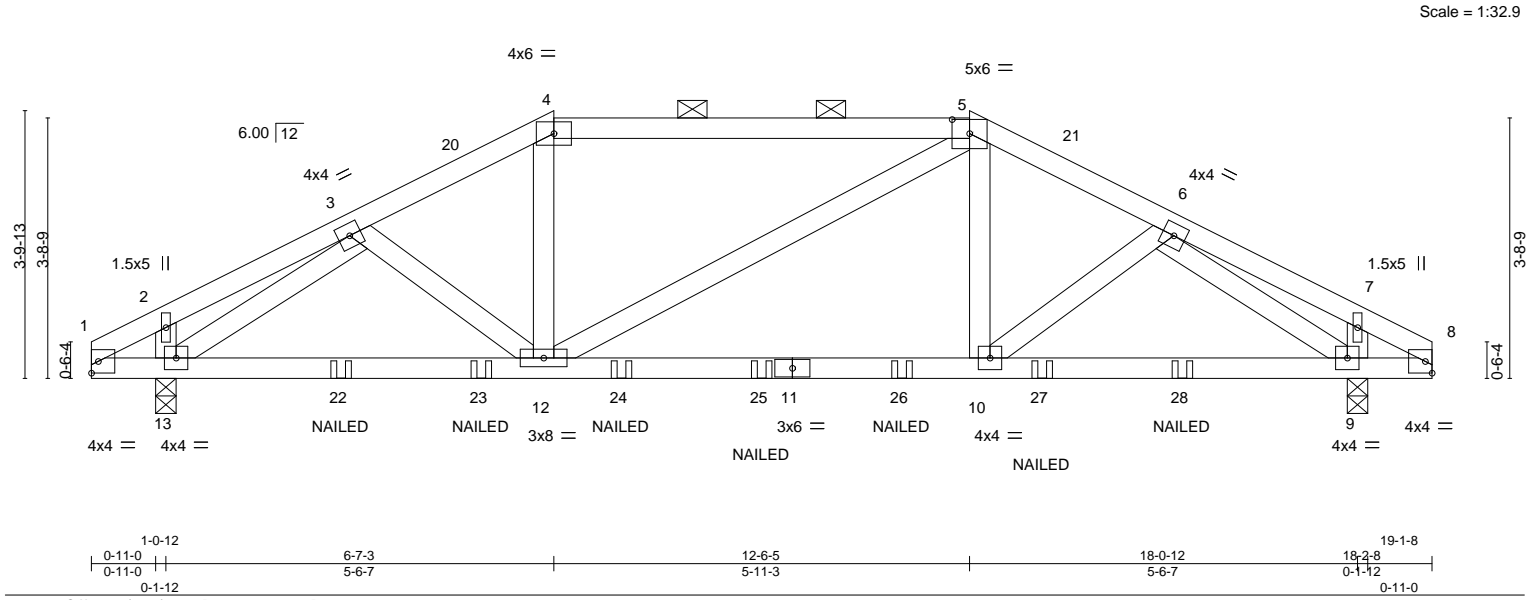
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-5-12 to 2-5-8, Exterior(2E) 2-5-8 to 9-0-11 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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) 1, 4, 6, 5.
 - Non Standard bearing condition. Review required.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	D3	Hip Girder	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:09 2022 Page 7
ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-QHuB98MJx4KWq29ExKHafeg5nen4gCf8ySVoLZehs
149830569
04/19/2022



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.06 9-10 >999	MT20		244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.59	Vert(CT)	-0.10 9-10 >999				
TCDL	10.0	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.03 9 n/a				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-MS							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-1-10 oc purlins, except
BOT CHORD	2x4 SP No.1		2-0-0 oc purlins (3-9-12 max.): 4-5.
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	
(size)	13=0-3-8, 9=0-3-8
Max Horz	13=-60(LC 10)
Max Uplift	13=-349(LC 12), 9=-349(LC 12)
Max Grav	13=1289(LC 34), 9=1290(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-321/112, 2-3=-354/146, 3-4=-1493/486, 4-5=-1315/452, 5-6=-1493/486, 6-7=-356/146, 7-8=-323/112
BOT CHORD	1-13=-88/271, 12-13=-341/1210, 10-12=-368/1315, 9-10=-341/1211, 8-9=-88/273
WEBS	3-13=-1190/326, 3-12=-79/252, 4-12=-113/340, 5-10=-113/341, 6-10=-79/252, 6-9=-1188/326

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDD=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) 13=349, 9=349.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15	
Uniform Loads (plf)	
Vert: 1-4=-59, 4-5=-58, 5-8=-58, 14-17=-20	



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
21-26876	D3	Hip Girder	1	1	Job Reference (optional)	149830569

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,
8.430 s Aug 16 2021 MiTek Industries, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc.

ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-uTRZNUNxiOSNSjQV1ppB0ArrBU0p7gzNcCzmZt9hK

04/19/2022

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 22=-166(F) 23=-114(F) 24=-47(F) 25=-47(F) 26=-47(F) 27=-114(F) 28=-168(F)

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	D2	Hip	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,	8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:59 2022 Page 7
ID:GSVPv09ERO5RBWVVLhk0yNGJr-TumQkSK3PT4	Job Reference (optional)

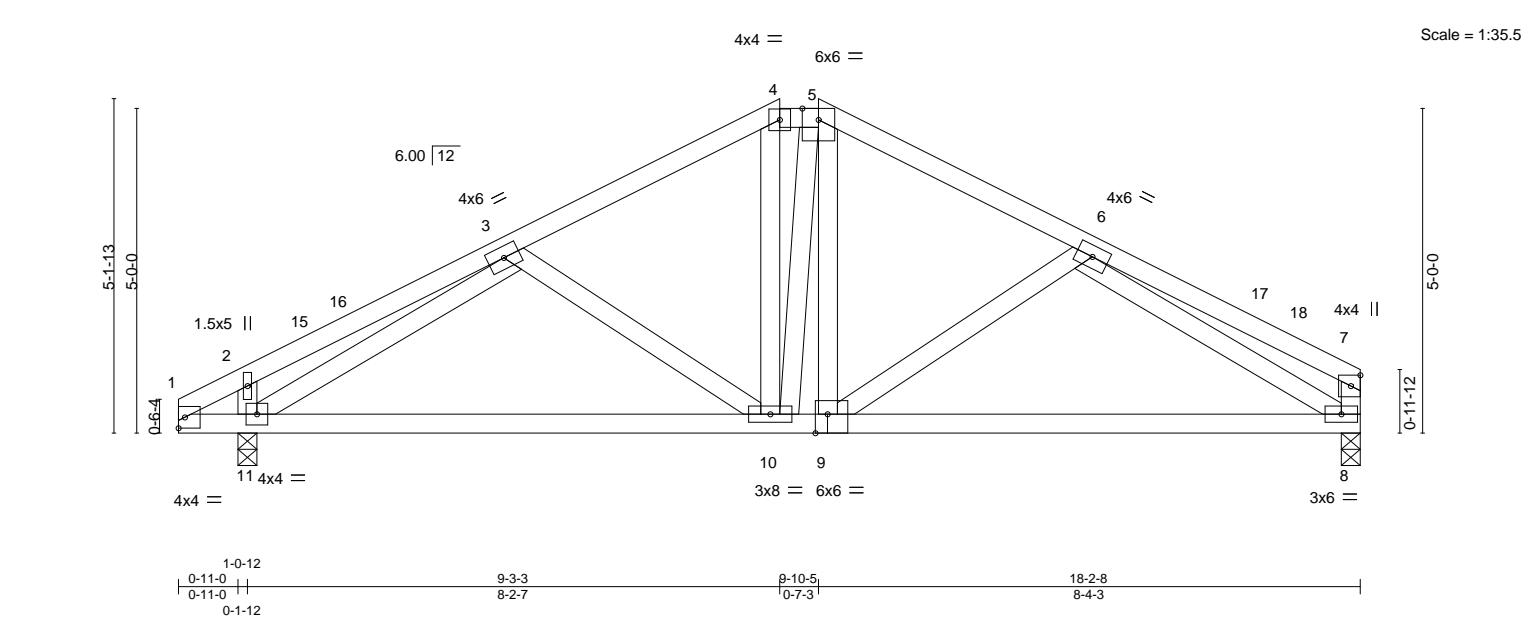


Plate Offsets (X,Y)-- [9:0-2-4,Edge]									
LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES GRIP
TCLL (roof) 25.0	Plate Grip DOL 1.15		TC 0.25	Vert(LL) -0.09	8-9	>999	240		MT20 244/190
Snow (Pf/Pg) 19.3/25.0	Lumber DOL 1.15		BC 0.42	Vert(CT) -0.18	8-9	>999	180		
TCDL 10.0	Rep Stress Incr YES		WB 0.47	Horz(CT) 0.03	8	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014		Matrix-MS						Weight: 107 lb FT = 20%
BCDL 10.0									

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-8-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS.	(size)
11=0-3-8, 8=0-3-8	
Max Horz 11=80(LC 15)	
Max Uplift 11=135(LC 16), 8=120(LC 36)	
Max Grav 11=1123(LC 38), 8=988(LC 38)	

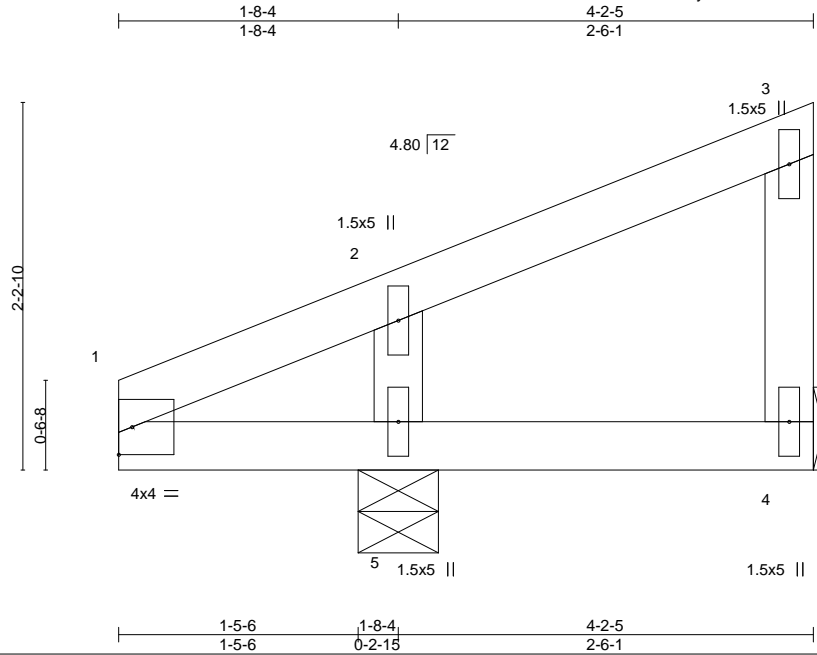
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-303/0, 2-3=-341/92, 3-4=-1096/308, 4-5=-893/309, 5-6=-1099/307, 6-7=-306/82, 7-8=-282/90
BOT CHORD	10-11=-253/1109, 9-10=-125/893, 8-9=-257/1121
WEBS	2-11=-340/179, 3-11=-1069/272, 3-10=-253/150, 5-9=-49/259, 6-9=-267/158, 6-8=-1114/284

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-0-0 to 3-0-0, Exterior(2E) 3-0-0 to 18-0-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Unbalanced snow loads have been considered for this design.
 - Provide adequate drainage to prevent water ponding.
 - 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) except (jt=lb) 11=135, 8=120.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	CJ3	Jack-Closed Girder	1	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:42 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkf0yNGJr-TdE?Ae7OPFxC2eCaKqS7C9ALAd7nd782chVM_xzt9m



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.16	Vert(LL)	0.00	4-5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	0.00	4-5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 17 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-2-5 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-5-13
Max Horz 5=70(LC 15)
Max Uplift 4=-31(LC 13), 5=-95(LC 16)
Max Grav 4=63(LC 29), 5=364(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-260/253

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) 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) 4, 5.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



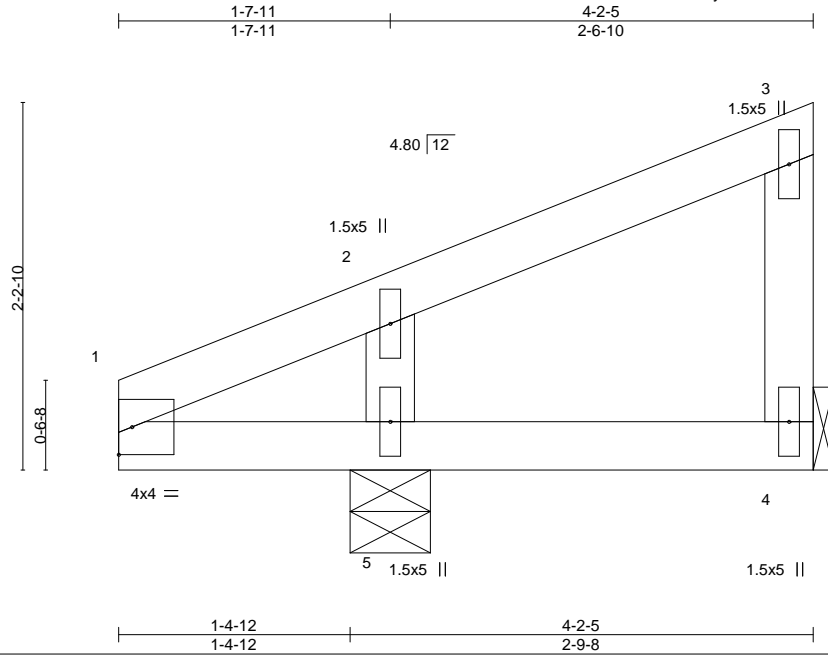
January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	CJ2	Jack-Closed Girder	1	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:33:39 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkf0yNGJr-32ZtYc5W7KZelAT?eiuCmXj33vINwnA5X7rKncZ9no

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/19/2022



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.16	Vert(LL)	0.00	4-5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	0.00	4-5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 16 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-2-5 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-5-13
Max Horz 5=70(LC 15)
Max Uplift 4=-30(LC 13), 5=-92(LC 16)
Max Grav 4=68(LC 20), 5=357(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-257/250

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(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) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 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) 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) 4, 5.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

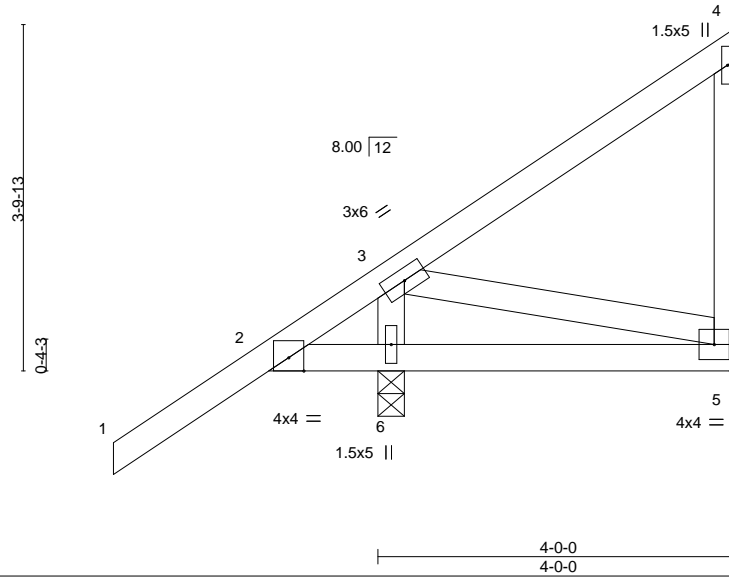
Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M7	Jack-Closed	3	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:50 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-UiLiRuy2O8VZD5OfJ6g3bVABHkzB2undQ4qm?z39g

04/19/2022

-2-11-0 4-0-0
2-11-0 4-0-0

Scale = 1:25.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.15	Vert(LL) -0.01 5-6 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Vert(CT) -0.01 5-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 31 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 6=0-3-8, 5=Mechanical
Max Horz 6=163(LC 14)
Max Uplift 6=106(LC 14), 5=-35(LC 11)
Max Grav 6=502(LC 2), 5=88(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-6=-475/425, 2-3=-439/336
BOT CHORD 2-6=-231/481

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -2-11-0 to 0-1-12, Exterior(2R) 0-1-12 to 3-10-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 19.3 psf on overhangs non-concurrent with other live loads.
 - 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) 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) 5 except (jt=lb) 6=106.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

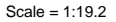


January 21, 2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 00:24:50 2022 Page 2
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LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2		

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

NOTES-

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January 21, 2022



Design valid for use only with MiTeC® 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 Code**.

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

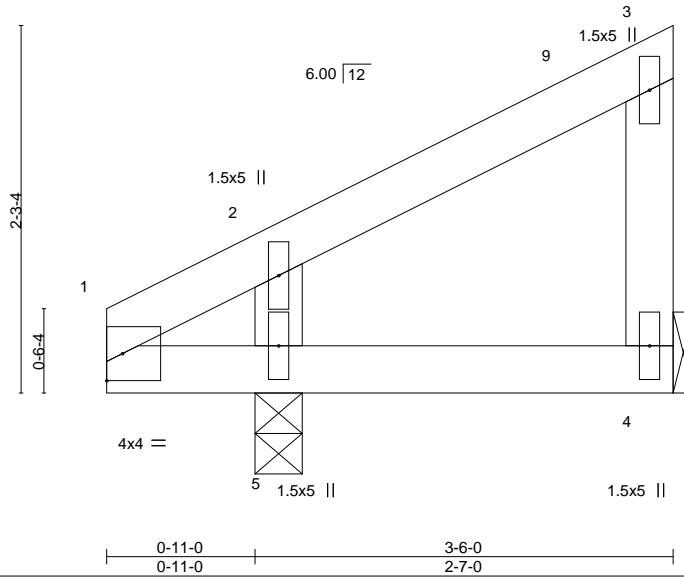


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M9	Jack-Closed	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:45:20 2022 Page 1
ID:GSVPvo9ERO5RBVVVhkf0yNGJr-Q5TTsaziwIHSoY1QXiBwFzWlh7WexwtCjnhRztsgr



Scale = 1:14.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.08	Vert(LL)	0.00	5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	-0.00	4-5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 14 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=71(LC 15)
Max Uplift 4=-34(LC 13), 5=-59(LC 16)
Max Grav 4=95(LC 20), 5=259(LC 20)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 3-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) 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) 4, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

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

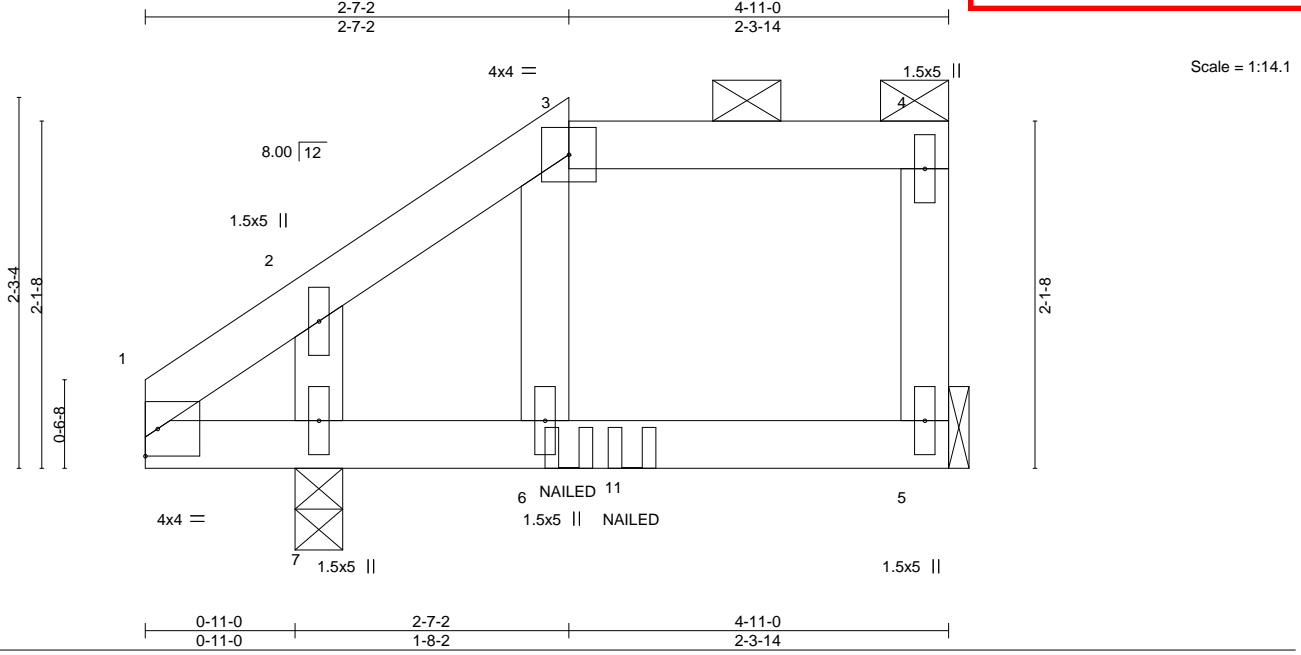


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M1	Jack-Closed Girder	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Friday, Jan 21, 10:24:34 2022 Page 1
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04/19/2022



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.08	Vert(LL) 0.04	5-6	>999	240	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.38	Vert(CT) -0.05	5-6	>889	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT) -0.00	5	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 21 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD
BOT CHORD 2x4 SP No.1	Structural wood sheathing directly applied or 4-11-0 oc purlins, except end verticals, and 2-0-0 oc purlins: 3-4.
WEBS 2x4 SP No.2	BOT CHORD
	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (size) 5=Mechanical, 7=0-3-8
Max Horz 7=52(LC 10)
Max Uplift 5=-82(LC 7), 7=-72(LC 10)
Max Grav 5=197(LC 2), 7=326(LC 2)

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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - 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) 5, 7.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-59, 3-4=-58, 5-8=-20
- Concentrated Loads (lb)
Vert: 6=-43(F) 11=-75(F)



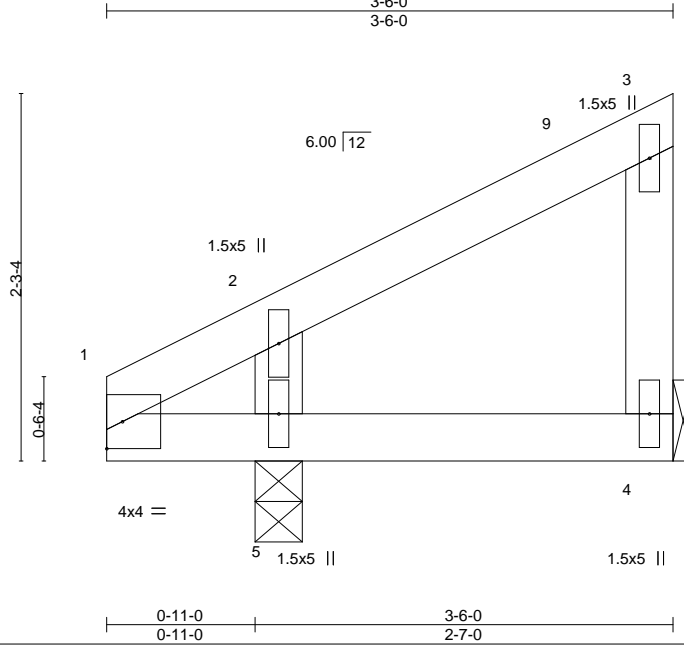
January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	M25	Jack-Closed	1	1	

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LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:46 2022 Page 7
ID:GSVPvo9ERO5RBWVVVhkf0yNGJr-bx6CcXvXLv?77kT5t4Gb7_f?XRweJ6431VTSNDLz1sgt

04/19/2022



Scale = 1:14.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.08	Vert(LL)	0.00	5	>999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	-0.00	4-5	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	4	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 14 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-6-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=Mechanical, 5=0-3-8
Max Horz 5=71(LC 15)
Max Uplift 4=-34(LC 13), 5=-59(LC 16)
Max Grav 4=95(LC 20), 5=259(LC 20)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 3-4-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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) 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) 4, 5.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

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

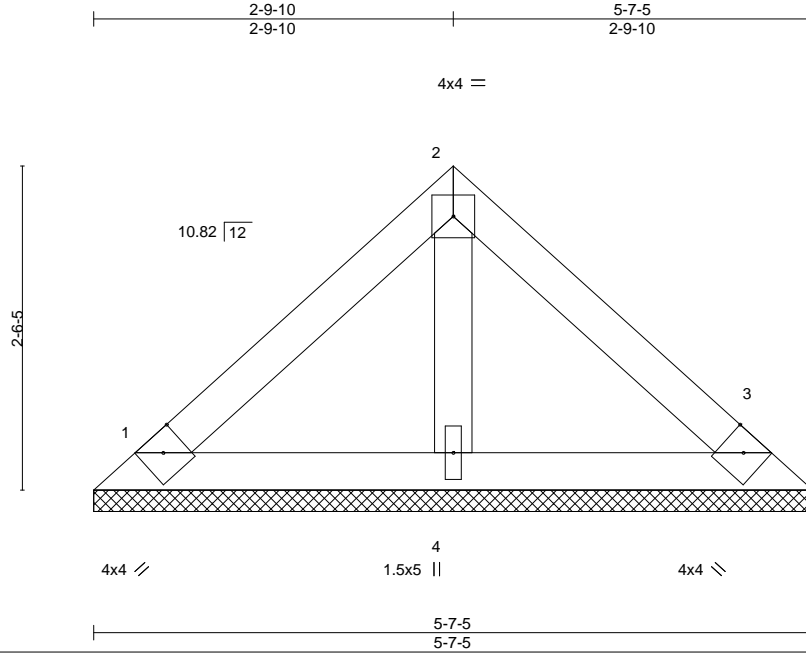


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY1	Lay-In Gable	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:41:2022 Page 1
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04/19/2022



Scale = 1:18.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.14	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 21 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-7-5 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=5-7-5, 3=5-7-5, 4=5-7-5
Max Horz 1=53(LC 13)
Max Uplift 1=-33(LC 14), 3=-33(LC 14), 4=-2(LC 14)
Max Grav 1=131(LC 2), 3=131(LC 2), 4=175(LC 2)

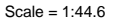
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - Gable requires continuous bottom chord bearing.
 - 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) 1, 3, 4.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 01:14:26 2022 Page 2
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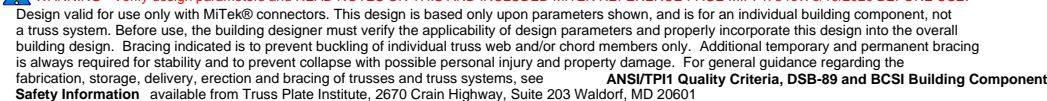
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 3-8.
BOT CHORD	2x4 SP No.1		
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
OTHERS	2x4 SP No.2		6-0-0 oc bracing: 8-9.

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDF=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 2-2-2, Exterior(2N) 2-2-2 to 2-11-8, Corner(3R) 2-11-8 to 6-0-6, Exterior(2N) 6-0-6 to 12-5-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCELL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 1.5x5 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 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) Bearing at joint(s) 15, 8, 11, 14, 13, 12, 10, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 8, 11, 14, 13, 12, 10, 9.
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 10, 9.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022



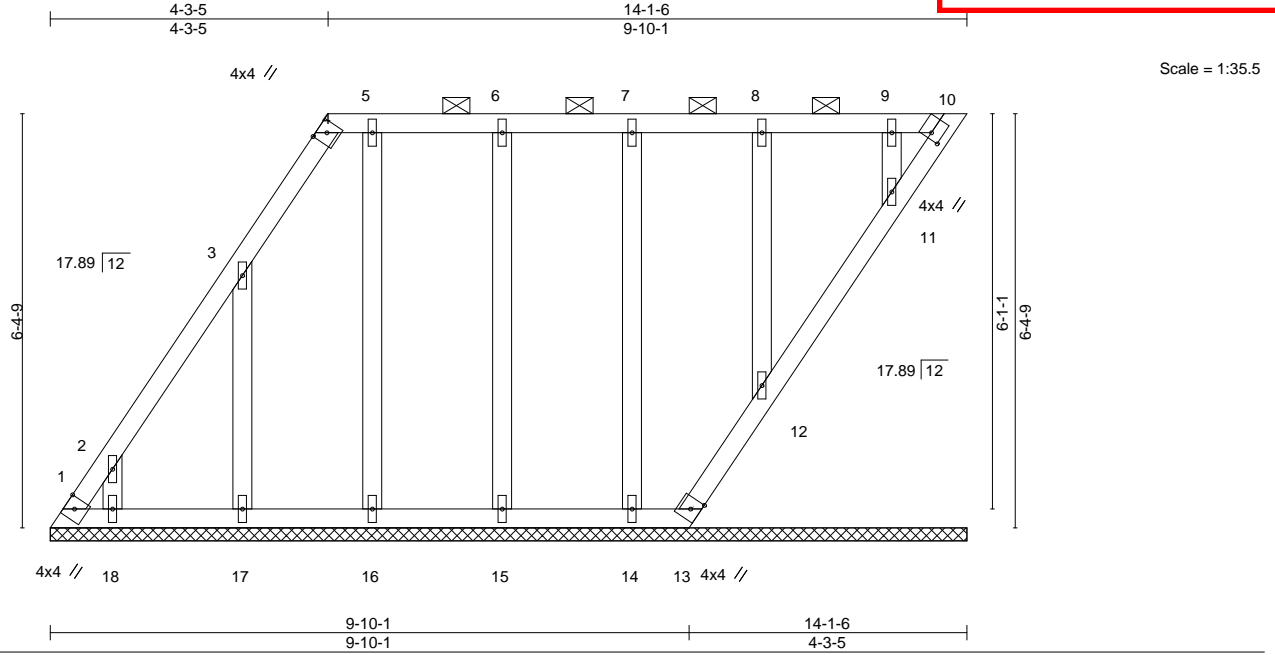
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY3	GABLE	2	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:42:27 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-fHS0c1gdp4qqY8ESngifjfuG9hAFOE7ht3qz19hz

04/19/2022



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	MT20		244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	n/a				
TCDL	10.0	Rep Stress Incr	YES	WB	0.10	Horz(CT)	-0.00				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-10.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.
OTHERS	2x4 SP No.2		

REACTIONS.	
(lb) - Max Horz	1=195(LC 14)
Max Uplift	All uplift 100 lb or less at joint(s) 10, 13, 16, 15, 14, 12, 11 except 1=145(LC 12), 18=151(LC 14), 17=155(LC 14)
Max Grav	All reactions 250 lb or less at joint(s) 1, 10, 13, 18, 17, 16, 15, 14, 12, 11

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-369/295

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-3-4 to 3-3-4, Exterior(2N) 3-3-4 to 4-4-4, Corner(3R) 4-4-4 to 7-4-4, Exterior(2N) 7-4-4 to 13-10-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x5 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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) 1, 10, 13, 18, 17, 16, 15, 14, 12, 11 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) 10, 13, 16, 15, 14, 12, 11 except (jt=lb) 1=145, 18=151, 17=155.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 12, 11.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

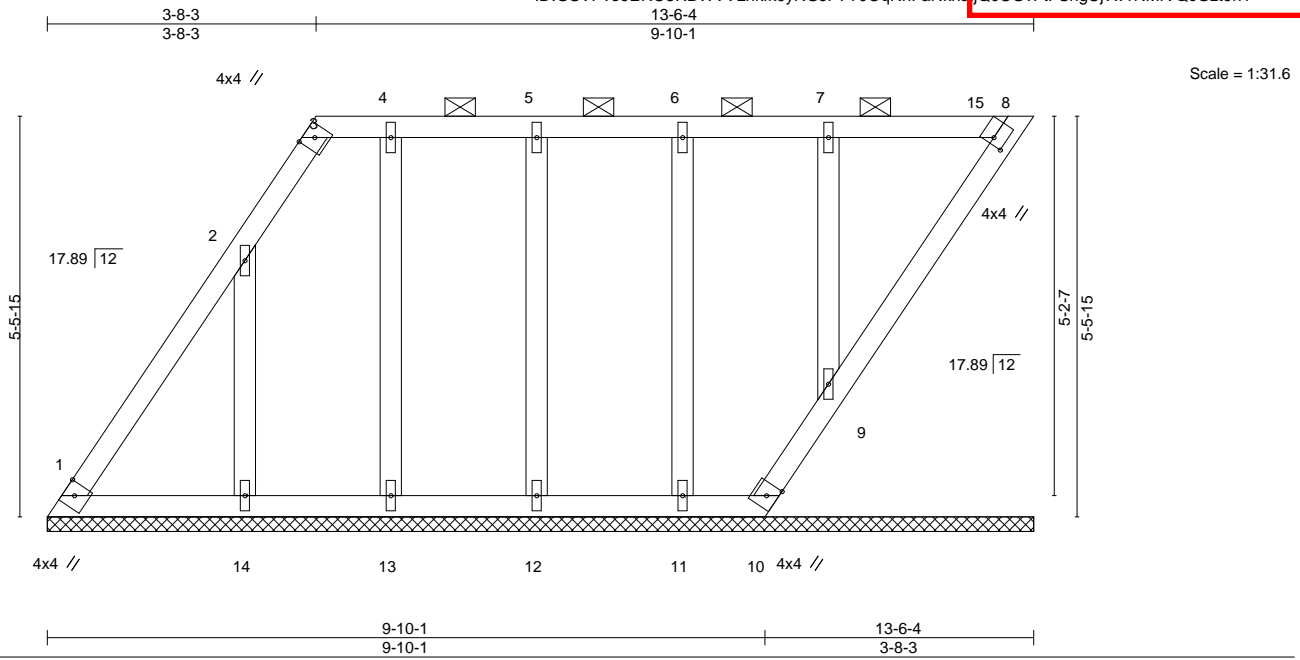


January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY4	GABLE	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:42:28 2022 Page 1
ID:GSPVvo9ERO5RBWVVLhkfk0yNGJr-7T0QqNhFaNkhajQ0UGvtrfShgUjvw1NMVscGZ9Ht



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	n/a	MT20		244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a				
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00				
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 3-8.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 8-9.
OTHERS	2x4 SP No.2		

REACTIONS.	
All bearings 13-6-4.	
(lb) - Max Horz	1=167(LC 14)
Max Uplift	All uplift 100 lb or less at joint(s) 1, 8, 10, 13, 12, 11, 9 except 14=197(LC 14)
Max Grav	All reactions 250 lb or less at joint(s) 1, 8, 10, 13, 12, 11, 9 except 14=308(LC 23)

FORCES.	
(lb) - Max. Comp./Max. Ten.	- All forces 250 (lb) or less except when shown.
WEBS	2-14=288/272

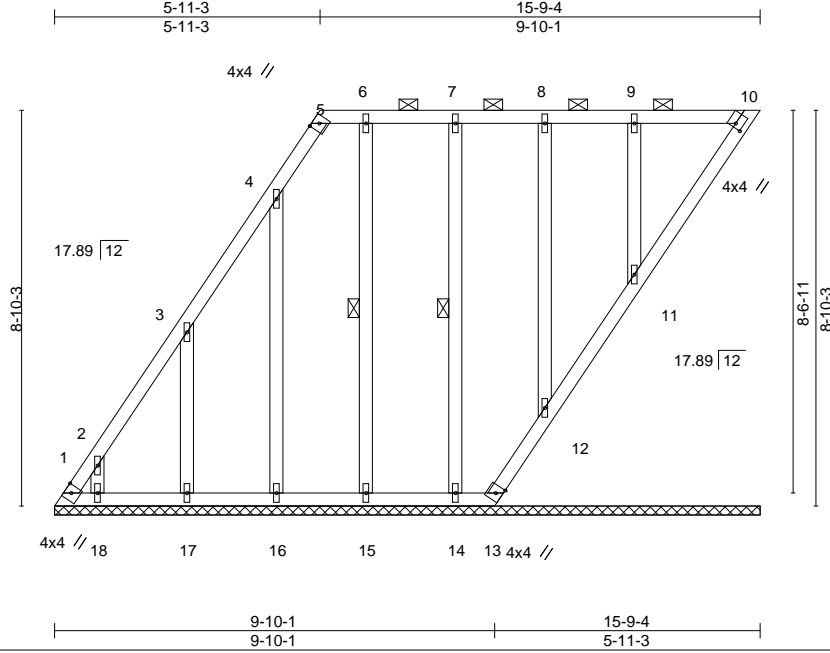
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-3-4 to 3-3-4, Exterior(2N) 3-3-4 to 3-9-2, Corner(3R) 3-9-2 to 6-8-8, Exterior(2N) 6-8-8 to 13-3-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x5 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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) 1, 8, 10, 14, 13, 12, 11, 9 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) 1, 8, 10, 13, 12, 11, 9 except (jt=lb) 14=197.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY5	GABLE	1	1	
Job Reference (optional)					

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:42:29 2022 Page 1
ID: GSVpvo9ERO5RBVVLhkf0yNGJr-bfam1jitLhs\BslcaC00h40dc3qxeMvXbJL_8jz9no



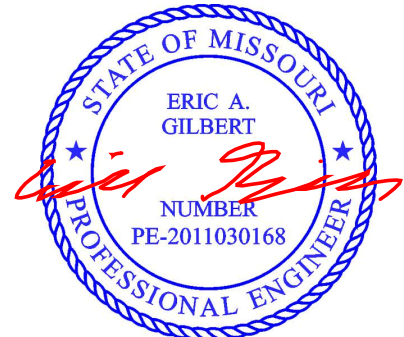
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a - n/a	MT20	244/190		
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a - n/a				
TCDL	10.0	Rep Stress Incr	YES	WB	0.16	Horz(CT)	-0.00 10 n/a				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							
BCDL	10.0										
								Weight: 117 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6'-0-0 oc purlins, except 2'-0-0 oc purlins (6'-0-0 max.): 5-10.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10'-0-0 oc bracing.
OTHERS	2x4 SP No.2 *Except* 6-15,7-14: 2x4 SP No.1	WEBS	1 Row at midpt 6-15, 7-14

REACTIONS. All bearings 15-9-4.
(lb) - Max Horz 1=274(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 10, 13, 15, 14, 12, 11 except 1=211(LC 12), 18=139(LC 14), 17=187(LC 14), 16=120(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 10, 13, 18, 16, 15, 14, 12, 11 except 1=342(LC 14), 17=270(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=519/417, 2-3=356/283
WEBS 3-17=275/262

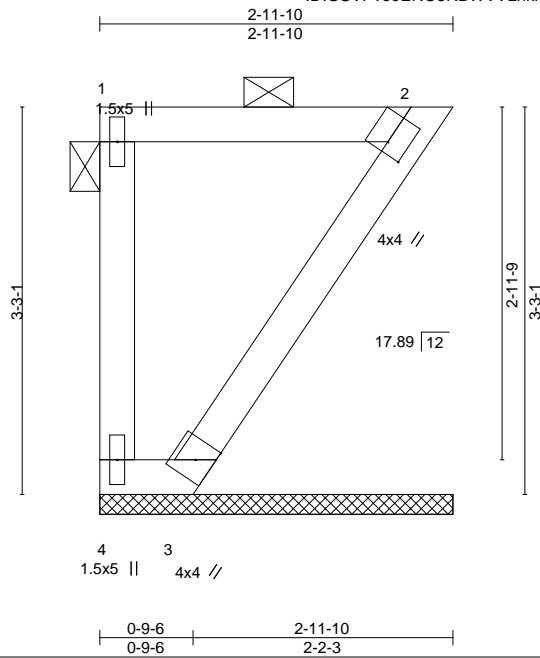
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-3-4 to 3-3-4, Exterior(2N) 3-3-4 to 6-0-2, Corner(3R) 6-0-2 to 8-11-8, Exterior(2N) 8-11-8 to 15-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x5 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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) 1, 10, 13, 18, 17, 16, 15, 14, 12, 11 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) 10, 13, 15, 14, 12, 11 except (jt=lb) 1=211, 18=139, 17=187, 16=120.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 12, 11.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY6	Lay-In Gable	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:30 2022 Page 1
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Scale = 1:19.4

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	n/a	MT20		244/190	
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a				
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00				
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-R							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	2-0-0 oc purlins: 1-2, except end verticals.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS. (size) 4=2-11-10, 2=2-11-10, 3=2-11-10
Max Uplift 4=-39(LC 10), 2=-33(LC 10)
Max Grav 4=83(LC 2), 2=106(LC 2), 3=79(LC 5)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 3) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 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) 4, 2, 3 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) 4, 2.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

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

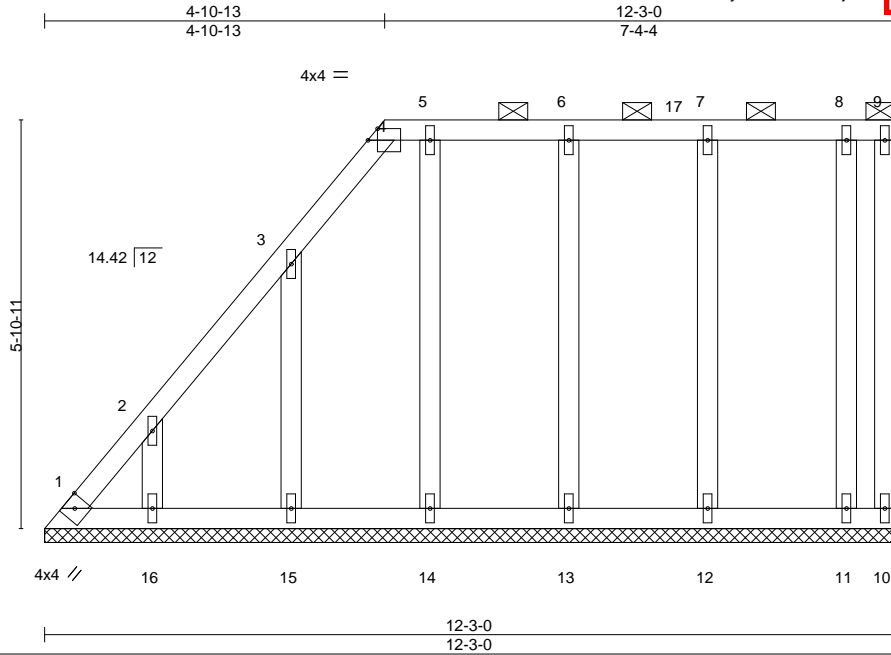


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY7	GABLE	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:33 2022 Page 1
ID: GSVpvo9ERO5RBWVVLhkfkyNGJr-Y2iXSOJ7t16FRAR?hdqctVt_RtWk6Hdq2oj4Db29n_



Scale = 1:33.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Horz(CT)	0.00	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 87 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD 2x4 SP No.1	2-0-0 oc purlins (10-0-0 max.): 4-9.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 12-3-0.
(lb) - Max Horz 1=180(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 14, 13, 12, 11 except 16=110(LC 14), 15=122(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 1, 16, 15, 14, 13, 12, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=334/286

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-3-12 to 3-6-10, Exterior(2E) 3-6-10 to 12-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x5 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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) 1, 10, 14, 13, 12, 11 except (jt=lb) 16=110, 15=122.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

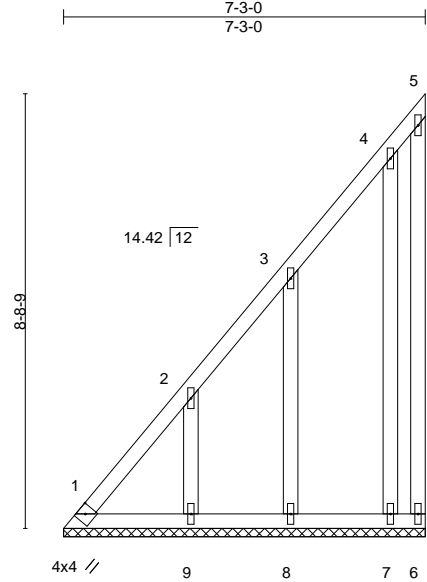


January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY8	GABLE	1	1	Job Reference (optional)

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:32 2022 Page 1
ID: GSV Pvo9ERO5RBWVVLhkfk0yNGJr-0EFvgkklecE52K0BfKzrPj06VHsmjzrHftek2z9gz

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/19/2022



Scale = 1:46.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.11	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.15	Horz(CT)	0.00	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 61 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 7-3-0.
(lb) - Max Horz 1=262(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 7 except 9=145(LC 14), 8=123(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 8, 7 except 1=260(LC 14), 9=263(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-506/431, 2-3=-287/257
WEBS 2-9=-267/261

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-3-12 to 4-6-10, Exterior(2R) 4-6-10 to 7-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) All plates are 1.5x5 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 6, 7 except (jt=lb) 9=145, 8=123.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



January 21, 2022

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY9	GABLE	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:43:33 2022 Page 1
ID:GSPVov9ERO5RBWVVLhkf0yNGJr-URpHt4lOPwMzgTlOp2s4yWzKwhCuaB5VvXCBOUz9g

04/19/2022

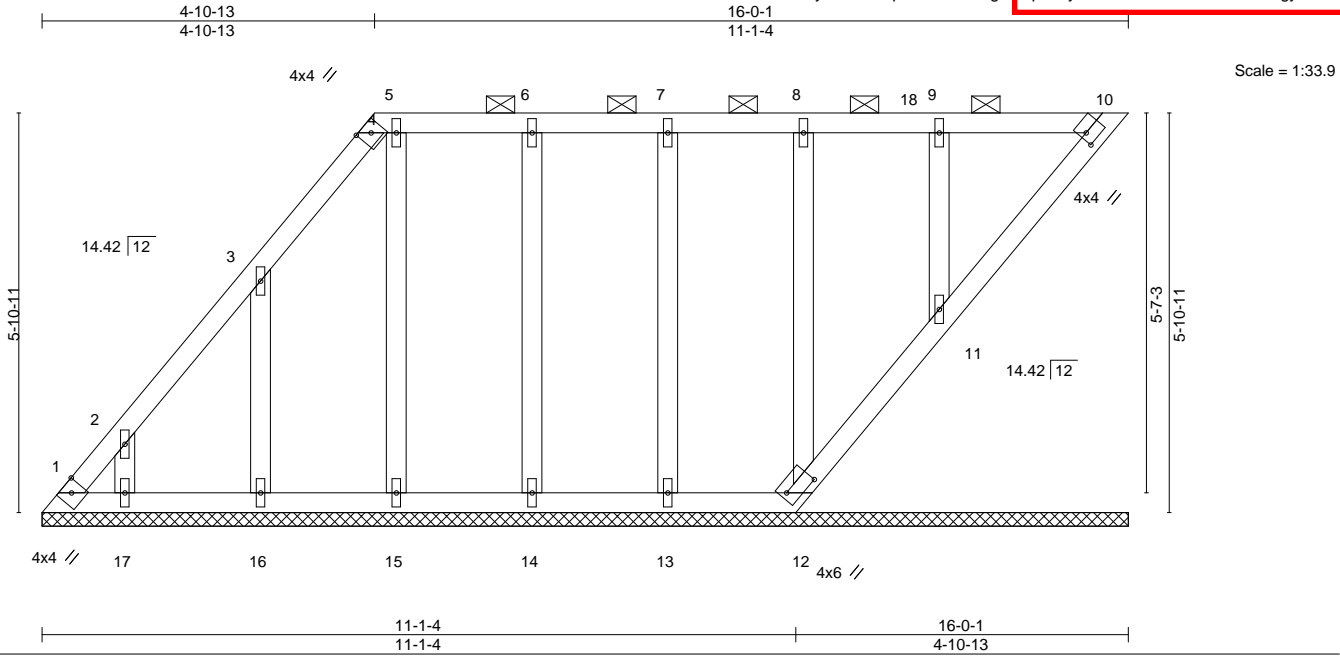


Plate Offsets (X,Y)-- [10:0-1-2,0-2-0], [12:0-4-15,0-2-4]					
LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.04
TCDL	10.0	Rep Stress Incr	YES	WB	0.08
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S	
BCDL	10.0				
DEFL.	in (loc)	L/defl	L/d	PLATES	GRIP
Vert(LL)	n/a	-	n/a	999	244/190
Vert(CT)	n/a	-	n/a	999	
Horz(CT)	-0.00	10	n/a	n/a	
				Weight: 97 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 4-10.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 16-0-1.
(lb) - Max Horz 1=180(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 1, 10, 12, 15, 14, 13, 11 except 17=103(LC 14), 16=123(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 1, 10, 12, 17, 16, 15, 14, 13, 11

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=276/224

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-3-12 to 3-2-10, Exterior(2N) 3-2-10 to 4-11-10, Corner(3R) 4-11-10 to 7-11-10, Exterior(2N) 7-11-10 to 15-8-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x5 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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) 1, 10, 12, 17, 16, 15, 14, 13, 11 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) 1, 10, 12, 15, 14, 13, 11 except (jt=lb) 17=103, 16=123.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 10, 12, 11.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY10	GABLE	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:18 2022 Page 1
ID:GSVPvo9ERO5RBWVVVhkf0yNGJr-QYPckyZzxJT5NayVRO5Zmmme4TZPKv364uFr19MB

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
04/19/2022

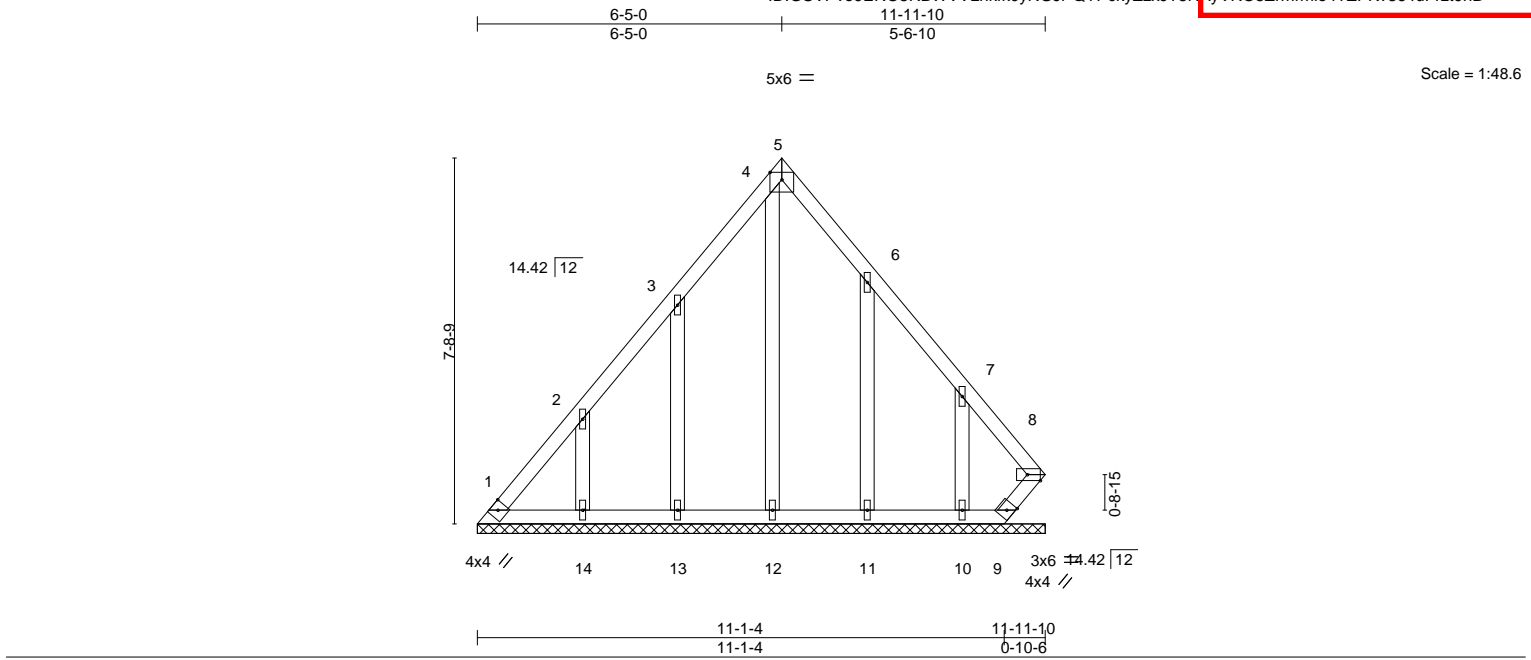


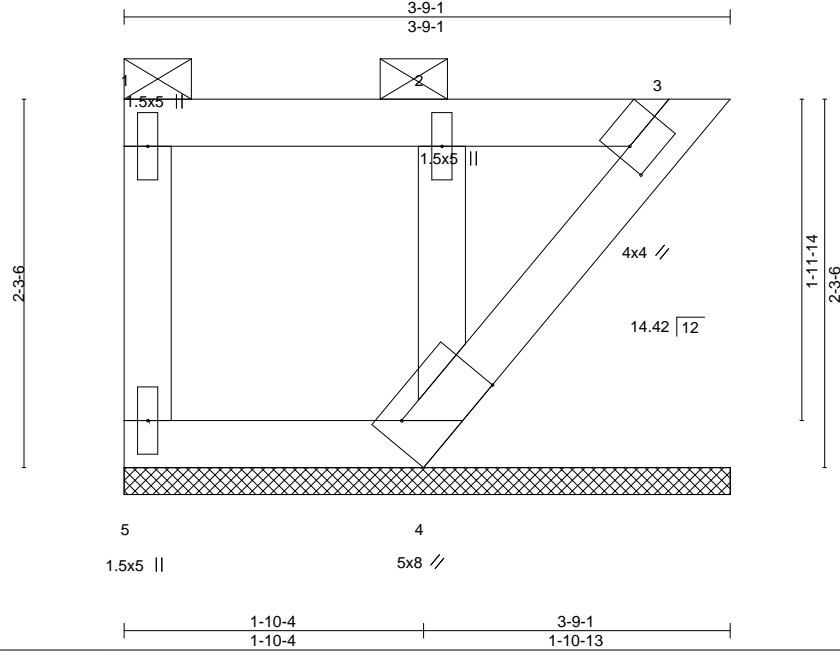
Plate Offsets (X,Y)-- [5:Edge,0-1-14], [8:Edge,0-1-8]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	8	n/a	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							Weight: 77 lb	FT = 20%
BCDL	10.0											

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY11	GABLE	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:24:19 2022 Page 2
ID:GSVPvo9ERO5RBWVVLhkfk0yNGJr-ukz_xlabicby KXh_6ccOzNxs1QsItLhmpniz9nA

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/19/2022



Scale = 1:14.3

Plate Offsets (X,Y)-- [3:0-1-2,0-2-0], [4:0-6-6,Edge]									
LOADING (psf)	SPACING-	CSL.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT)	-0.00	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						Weight: 17 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014								

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. (size) 5=3-9-1, 3=3-9-1, 4=3-9-1
Max Uplift 5=17(LC 10), 3=11(LC 10), 4=51(LC 10)
Max Grav 5=70(LC 2), 3=51(LC 2), 4=176(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) Gable requires continuous bottom chord bearing.
 - 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, 3, 4 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) 5, 3, 4.
 - 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3, 4.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY12	GABLE	1	1	Job Reference (optional)

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Friday, Jan 21, 03:41:19 2022 Page 2
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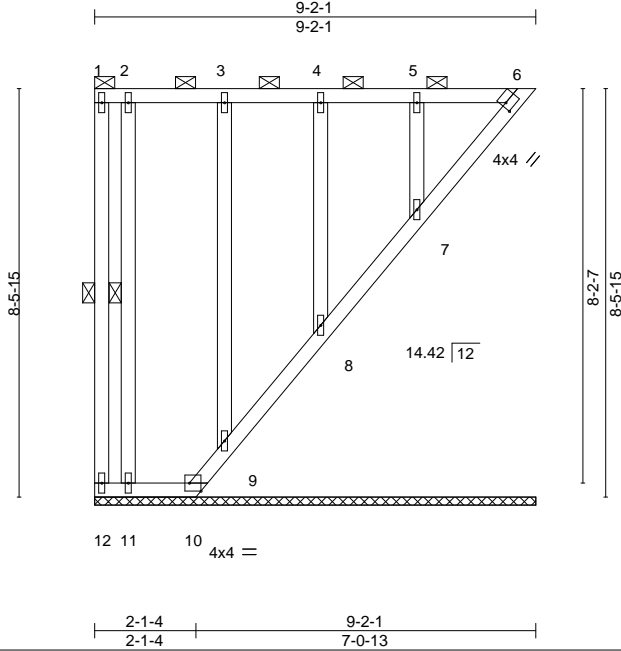


Plate Offsets (X,Y)-- [6:0-1-2,0-2-0], [10:Edge,0-2-0]					
LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.05
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.03
TCDL	10.0	Rep Stress Incr	YES	WB	0.14
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S	
BCDL	10.0				
DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
Vert(LL)	n/a	-	n/a	MT20	244/190
Vert(CT)	n/a	-	n/a		
Horz(CT)	0.00	7	n/a		
				Weight: 78 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	2-0-0 oc purlins: 1-6.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x4 SP No.2		6-0-0 oc bracing: 6-7.
OTHERS	2x4 SP No.2	WEBS	1 Row at midpt 2-11, 1-12

REACTIONS. All bearings 9-2-1.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 6, 12, 11, 9, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 6, 12, 10, 11, 9, 8, 7

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 1.5x5 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 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) Bearing at joint(s) 6, 12, 10, 11, 9, 8, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 12, 11, 9, 8, 7.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 9, 8, 7.
- 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

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



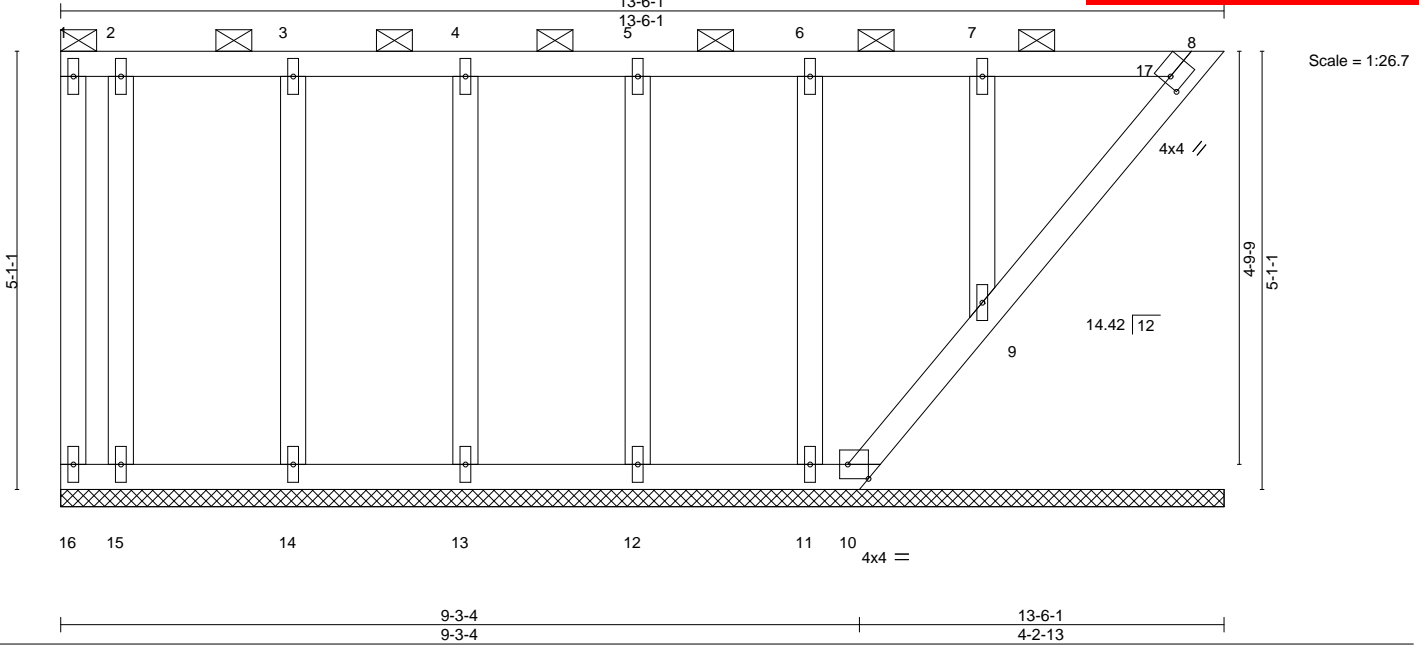
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY13	GABLE	1	1	Job Reference (optional)

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:44:20 2022 Page 1

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/19/2022



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a	MT20	244/190		
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a				
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00				
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	2-0-0 oc purlins (10-0-0 max.): 1-8.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS	2x4 SP No.2		6-0-0 oc bracing: 8-9.
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 13-6-1.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 8, 16, 10, 15, 14, 13, 12, 11, 9
Max Grav All reactions 250 lb or less at joint(s) 8, 16, 10, 15, 14, 13, 12, 11, 9

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCCL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 1.5x5 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 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) Bearing at joint(s) 8, 16, 10, 15, 14, 13, 12, 11, 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 16, 10, 15, 14, 13, 12, 11, 9.
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 9.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

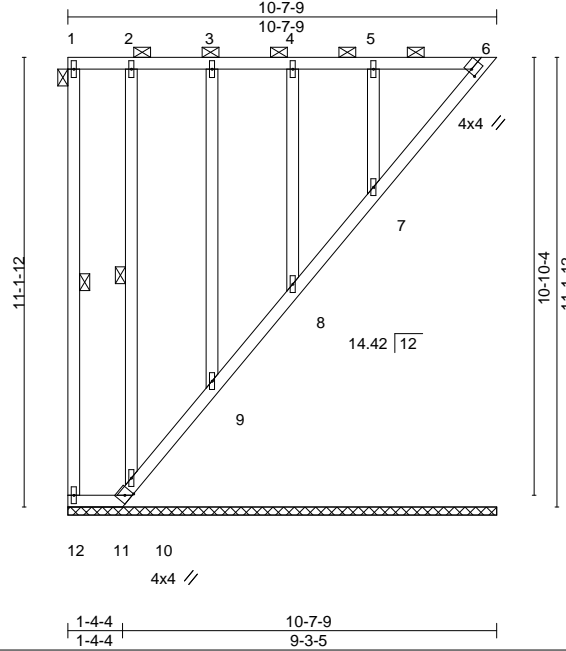


January 21, 2022

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY14	GABLE	1	1	Job Reference (optional)

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066,

8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:44:23 2022 Page 7
ID:GSVPvo9ERO5RBWVVVhkf0yNGJr-q75IMzbsDErgEg46WeG7OT5mr61mmL44z5AL9mo



Scale = 1:57.1

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

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.17	Horz(CT)	-0.00	6	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S					Weight: 95 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014							

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.1
OTHERS 2x4 SP No.2 *Except*
2-10: 2x4 SP No.1

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.): 1-6, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 1-12, 2-10

REACTIONS. All bearings 10-7-9.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 12, 6, 11, 9, 8, 7
Max Grav All reactions 250 lb or less at joint(s) 12, 6, 11, 9, 8 except 7=257(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 1.5x5 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 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) Bearing at joint(s) 12, 6, 11, 9, 8, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 6, 11, 9, 8, 7.
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6, 9, 8, 7.
 - 11) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

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

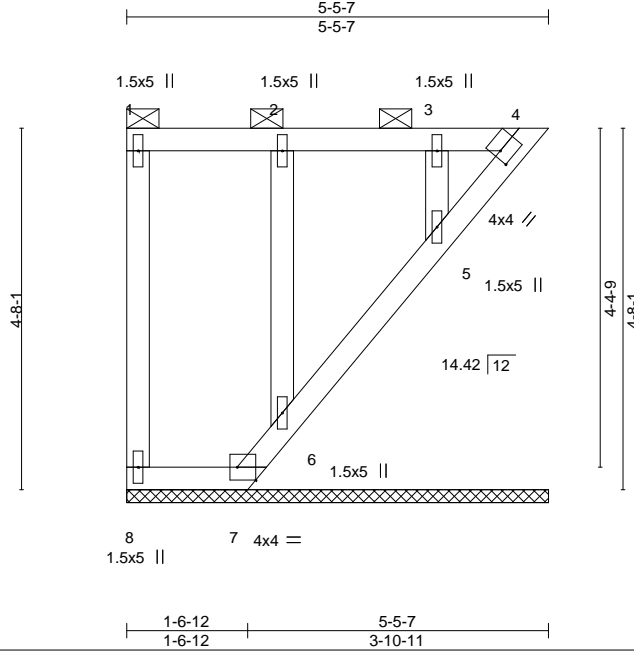


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY15	GABLE	1	1	Job Reference (optional)

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:42:20 2022 Page 7
ID:GSVPvo9ERO5RBWVVVlhkfk0yNGJr-IJf7ZJcU_XzXsnfGgEAV1c?S2FRvD2Vzk260OdZ9m7

04/19/2022



Scale = 1:29.8

Plate Offsets (X,Y)-- [4:0-1-2,0-2-0], [7:Edge,0-2-0]					
LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.04
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.02
TCDL	10.0	Rep Stress Incr	YES	WB	0.04
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-P	
BCDL	10.0				
DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
Vert(LL)	n/a	-	n/a	MT20	244/190
Vert(CT)	n/a	-	n/a		
Horz(CT)	0.00	6	n/a		
				Weight: 32 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	2-0-0 oc purlins: 1-4, except end verticals.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 5-5-7.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 8, 4, 6, 5
Max Grav All reactions 250 lb or less at joint(s) 8, 4, 7, 6, 5

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) Gable requires continuous bottom chord bearing.
 - 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) 8, 4, 7, 6, 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) 8, 4, 6, 5.
 - 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 6, 5.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21,2022

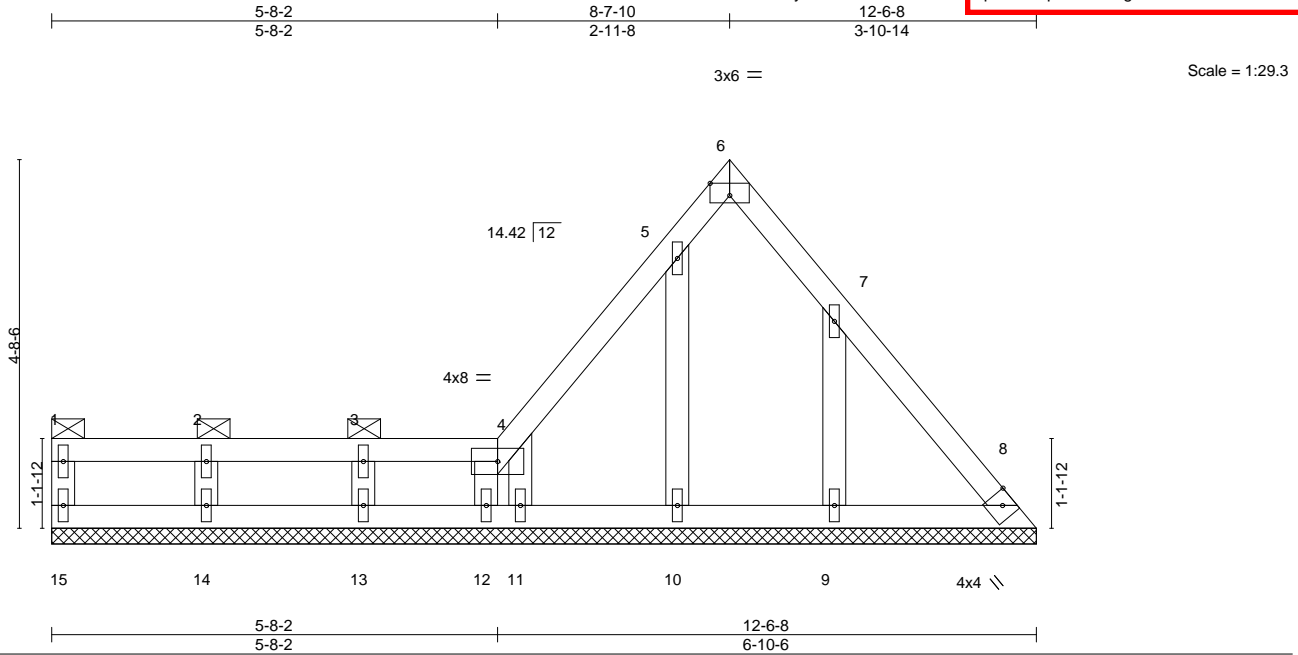
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY16	GABLE	1	1	

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:42:23 2022 Page 1
ID:GSVPvo9ERO5RBWVVLhfk0yNGJr-nWDVnfd6lr5OTxqTDxhkYpY6GfmbEgNeCOnw3z9no 149830593

04/19/2022



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	25.0	Plate Grip DOL	1.15	TC	0.06	Vert(LL)	n/a - n/a	MT20	244/190		
Snow (Pf/Pg)	19.3/25.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a - n/a				
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.00 8 n/a				
BCDL	0.0 *	Code IRC2018/TPI2014		Matrix-S							
BCDL	10.0										

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-4.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		

REACTIONS. All bearings 12-6-8.
(lb) - Max Horz 15=111(LC 13)
Max Uplift All uplift 100 lb or less at joint(s) 15, 14, 13, 10, 12 except 11=142(LC 14), 9=123(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 15, 8, 14, 13, 11, 10, 12 except 9=253(LC 24)

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 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCCL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 8-7-10, Corner(3R) 8-7-10 to 11-7-10, Exterior(2N) 11-7-10 to 12-2-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 1.5x5 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - 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) 15, 14, 13, 10, 12 except (jt=lb) 11=142, 9=123.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



January 21, 2022

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jan 21 00:24:24 2022 Page 2
ID:GSVPv09ERO5RBWVVLhbkf0vNGJr-Fint ?ekW9DF:5PfnCZ3:5n4276Z/X0R:XBTV4915



LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-7.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=270/229

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED INTER-RELATIVES FOR ALL INTER-RELATIVES. Design valid for use only with MiTEK® connectors. This design is based only upon parameters shown, and is for 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/TPH Quality Criteria, DSB-89 and BCSI Building Component**

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

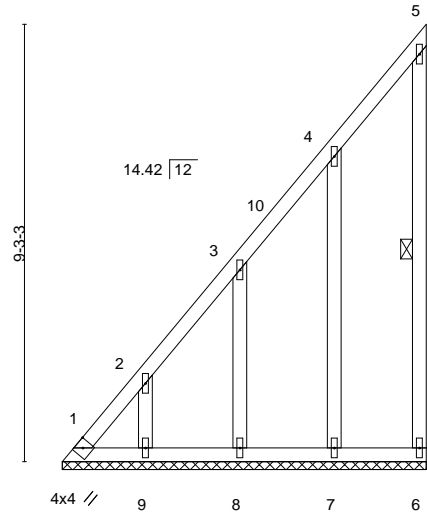


Job	Truss	Truss Type	Qty	Ply	290 PARK RIDGE
21-26876	LAY18	GABLE	1	1	Job Reference (optional)

Pioneer Industries, LLC (Mitek), Owensville, MO - 65066, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fr Jan 21 10:42:26 2022 Page 7
ID: GSVpvo9ERO5RBWVVLhkf0yNGJr-juKFCLfMHS�6_F_rLMjCdEdyf6TKYhghGm?xz9m4

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

04/19/2022



Scale = 1:48.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pl/Pg) 19.3/25.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.17	Horz(CT)	0.00	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P					Weight: 59 lb	FT = 20%
BCDL 10.0	Code IRC2018/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.1	WEBS 1 Row at midpt 5-6
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 7-8-8.
(lb) - Max Horz 1=280(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 6 except 1=137(LC 12), 9=115(LC 14), 8=122(LC 14), 7=125(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 6, 9, 8, 7 except 1=305(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-567/480, 2-3=-399/349

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=3.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-3-12 to 4-6-10, Exterior(2R) 4-6-10 to 7-6-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-16; Pr=25.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=25.0 psf; Pf=19.3 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
 - 3) All plates are 1.5x5 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 1=137, 9=115, 8=122, 7=125.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



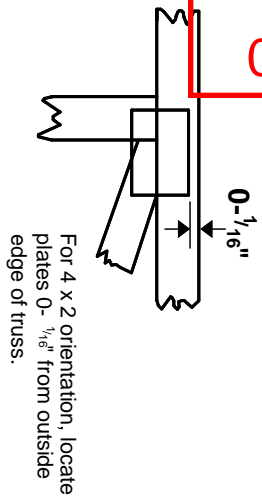
January 21, 2022

04/19/2022

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.



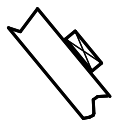
—
—
This symbol indicates the required direction of slots in connector plates.

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

PLATE SIZE

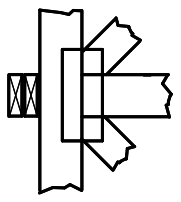
4 X 4
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

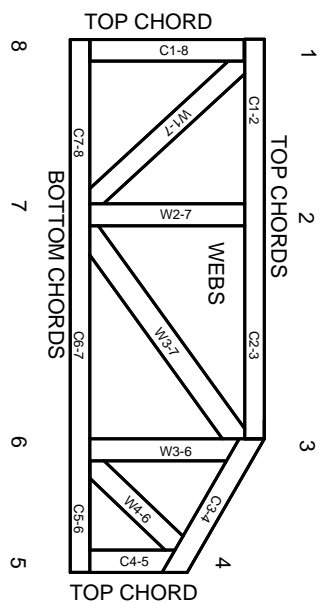


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:
ANSI/TPI 1: 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)



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.

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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.