



10/12/2021

MiTek USA, Inc.

16023 Swingley Ridge Rd
Chesterfield, MO 63017
314-434-1200

Re: 210136-R
Lot 12 Whispering Woods

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

Pages or sheets covered by this seal: I45715974 thru I45716094

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

Missouri COA: Engineering 001193



Scott M. Sevier

April 20, 2021

Sevier, Scott ,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	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145715974
210136-R	A1	Hip	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:08 2021 Page 1

ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-vZHHaRhN9cmFyc6?8lAw5hki0GpH0q1L4cU1zP32t

10/12/2021

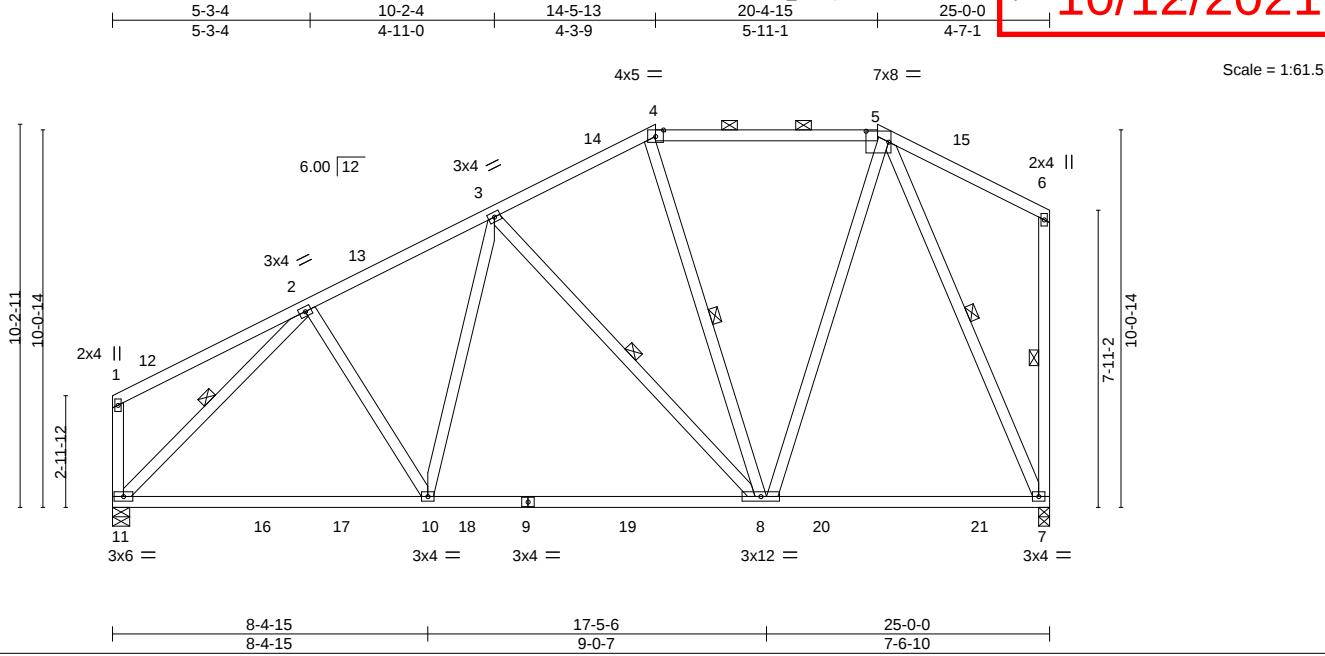


Plate Offsets (X,Y)-- [4:0-2-8,Edge], [5:0-7-4,0-3-8]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.14 8-10 >999 240
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.24 10-11 >999 180
TCDL	10.0	Rep Stress Incr	YES	WB	0.60	Horz(CT)	0.04 7 n/a n/a
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S			
BCDL	10.0						
						PLATES	GRIP
						MT20	244/190
						Weight: 184 lb	FT = 20%

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

REACTIONS.	(size) 11=0-5-8, 7=0-3-8 Max Horz 11=159(LC 16) Max Uplift 11=-66(LC 16), 7=-133(LC 16) Max Grav 11=1491(LC 46), 7=1379(LC 46)
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1470/212, 3-4=-874/191, 4-5=-730/185
BOT CHORD 10-11=-289/1219, 8-10=-221/1187, 7-8=-84/499
WEBS 3-10=-0/326, 3-8=-682/154, 5-8=-61/836, 2-11=-1583/142, 5-7=-1177/203

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2E) 3-1-12 to 24-10-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 7. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	A2	Hip	1	1	

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

10/12/2021

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:09 2021 Page 1
ID:hi?rkPJ3nvl67kOtbcc_eRzQm8d-Nmrfnni?wwwUsBJZTgXBe0?bMfnnZ0_pAQ12H8Z2

5-3-4 10-2-4 17-1-13 17-8-15 25-0-0
5-3-4 4-11-0 6-11-9 0-7-1 7-3-1

5x16 MT18HS =

Scale = 1:72.3

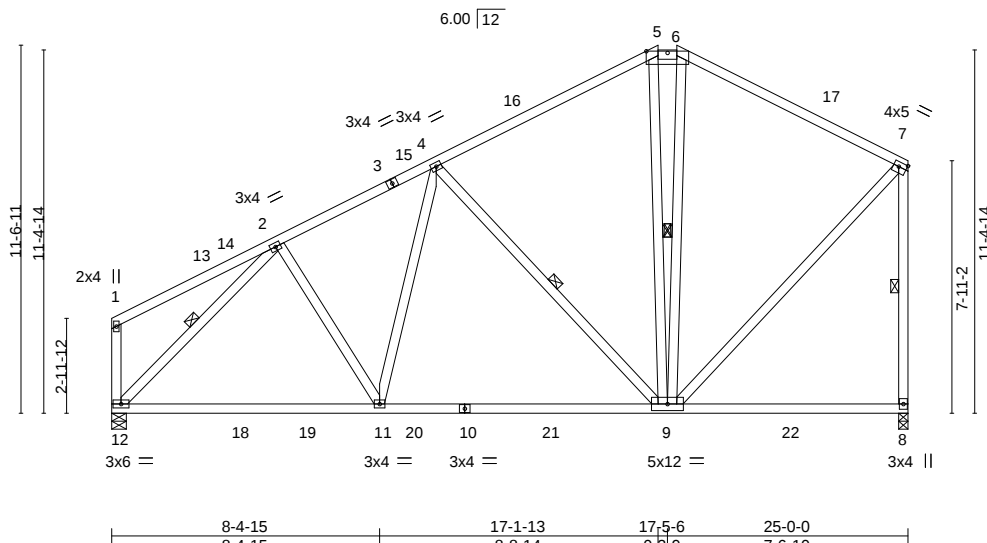


Plate Offsets (X,Y)-- [5:0-8-0,0-0-10], [7:Edge,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 1.00	Vert(LL) -0.17	9-11	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.96	Vert(CT) -0.28	9-11	>999	180	MT18HS	244/190
TCDL 10.0	Lumber DOL 1.15	WB 0.43	Horz(CT) 0.03	8	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 187 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 6-7: 2x4 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (4-11-5 max.): 5-6.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-9, 6-9, 2-12, 7-8, 5-9

REACTIONS. (size) 12=0-5-8, 8=0-3-8
Max Horz 12=159(LC 16)
Max Uplift 12=-66(LC 16), 8=-133(LC 16)
Max Grav 12=1489(LC 46), 8=1582(LC 50)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1544/154, 4-5=-1019/162, 5-6=-763/185, 6-7=-1009/159, 7-8=-1506/206
BOT CHORD 11-12=-213/1265, 9-11=-171/1314
WEBS 4-11=0/301, 4-9=-776/156, 6-9=-394/267, 2-12=-1652/76, 7-9=-89/1099, 5-9=-205/326

- 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=6.0psf; 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 17-1-13, Exterior(2E) 17-1-13 to 17-8-15, Exterior(2R) 17-8-15 to 21-11-13, Interior(1) 21-11-13 to 24-10-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
 - 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, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 8. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	A3	Common	2	1	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:11 2021 Page 1

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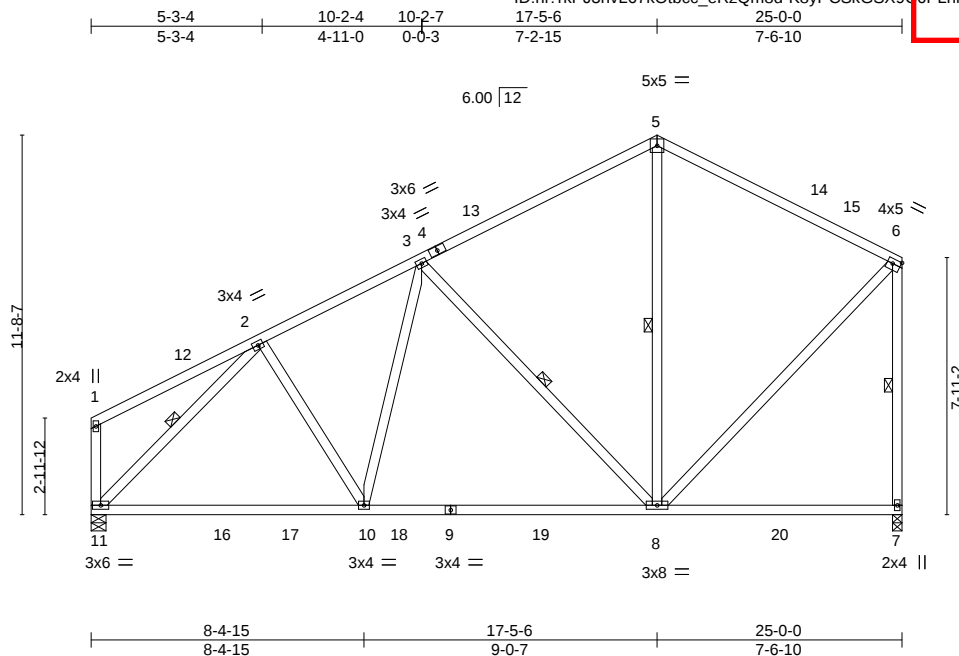
Job Reference (optional)

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale = 1:71.0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.81	Vert(LL) -0.17	8-10	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.91	Vert(CT) -0.28	8-10	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.36	Horz(CT) 0.03	7	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 172 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
5-6: 2x4 SP 2400F 2.0E
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 9-1-1 oc bracing.
WEBS 1 Row at midpt 3-8, 5-8, 2-11, 6-7

REACTIONS.

(size) 11=0-5-8, 7=0-3-8
Max Horz 11=159(LC 16)
Max Uplift 11=-66(LC 16), 7=-133(LC 16)
Max Grav 11=1206(LC 5), 7=1205(LC 23)

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

TOP CHORD 2-3=-1205/314, 3-5=-779/282, 5-6=-742/268, 6-7=-1062/386
BOT CHORD 10-11=-404/993, 8-10=-323/1015
WEBS 3-10=-15/301, 3-8=-605/280, 5-8=-74/263, 2-11=-1258/228, 6-8=-180/845

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=6.0psf; 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 17-5-6, Corner(3R) 17-5-6 to 20-5-6, Exterior(2N) 20-5-6 to 24-10-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- Unbalanced snow loads have been considered for this design.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 7. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145715977
210136-R	A4	Roof Special	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:12 2021 Page 1
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10/12/2021

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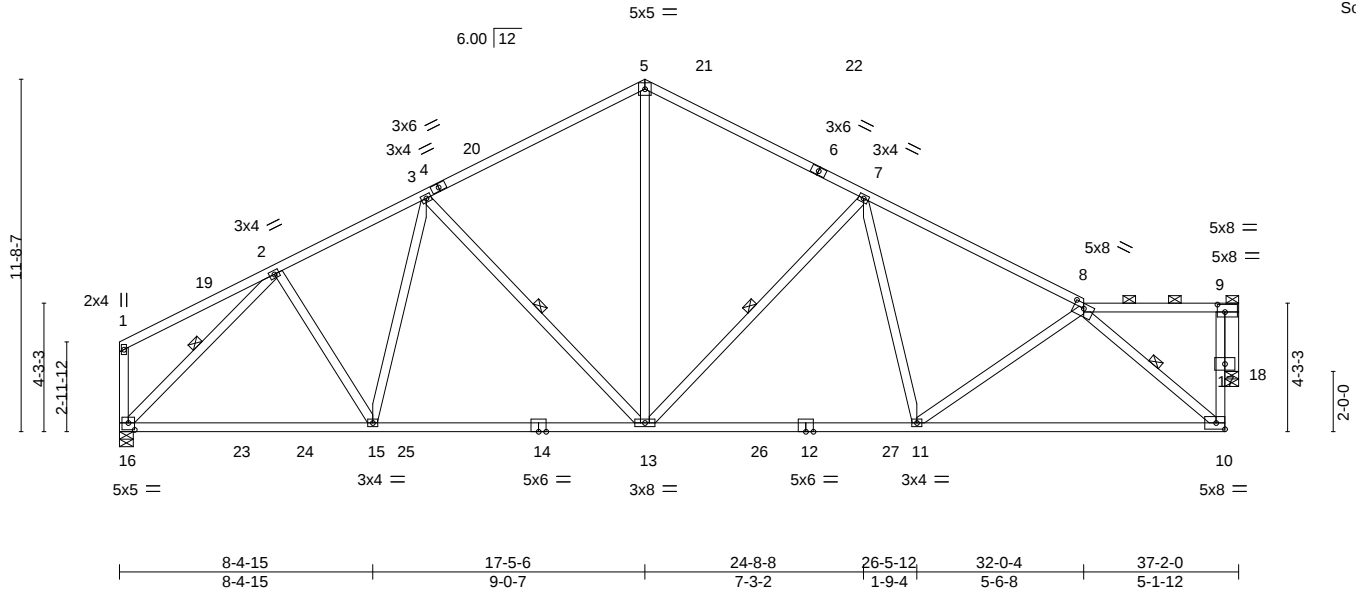


Plate Offsets (X,Y)--		[8:0-4-0,0-1-14], [9:0-3-0,0-3-0], [16:0-2-8,0-2-12]															
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP							
TCLL (roof)	20.0	2-0-0		TC 0.99		in (loc)		MT20		244/190							
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL 1.15		BC 0.86		Vert(LL) -0.23 10-11 >999 240											
TCDL	10.0	Lumber DOL 1.15		WB 0.61		Vert(CT) -0.48 10-11 >917 180											
BCLL	0.0 *	Rep Stress Incr YES		Matrix-S		Horz(CT) 0.11 18 n/a n/a											
BCDL	10.0	Code IRC2018/TPI2014						Weight: 237 lb		FT = 20%							

LUMBER-		BRACING-	
TOP CHORD	2x4 SP 2400F 2.0E *Except* 8-9: 2x4 SP No.2, 1-4,5-6: 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-9.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 8-11-9 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 3-13, 7-13, 8-10, 2-16
OTHERS	2x6 SP 2400F 2.0E		

REACTIONS. (size) 16=0-5-8, 18=0-5-8
Max Horz 16=149(LC 15)
Max Uplift 16=145(LC 16), 18=149(LC 16)
Max Grav 16=1762(LC 24), 18=1797(LC 51)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1948/544, 3-5=-1720/555, 5-7=-1825/560, 7-8=-2552/546, 10-17=-328/1751, 9-17=-328/1751
BOT CHORD 15-16=-401/1558, 13-15=-377/1767, 11-13=-410/2103, 10-11=-458/1995
WEBS 2-15=0/517, 3-13=-429/225, 5-13=-264/1137, 7-13=-975/275, 7-11=0/373, 8-10=-2393/572, 2-16=-2025/440, 9-18=-1828/398

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; 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 17-5-6, Corner(3R) 17-5-6 to 20-5-6, Exterior(2N) 20-5-6 to 36-6-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 and 18. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	A5	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:14 2021 Page 1
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10/12/2021

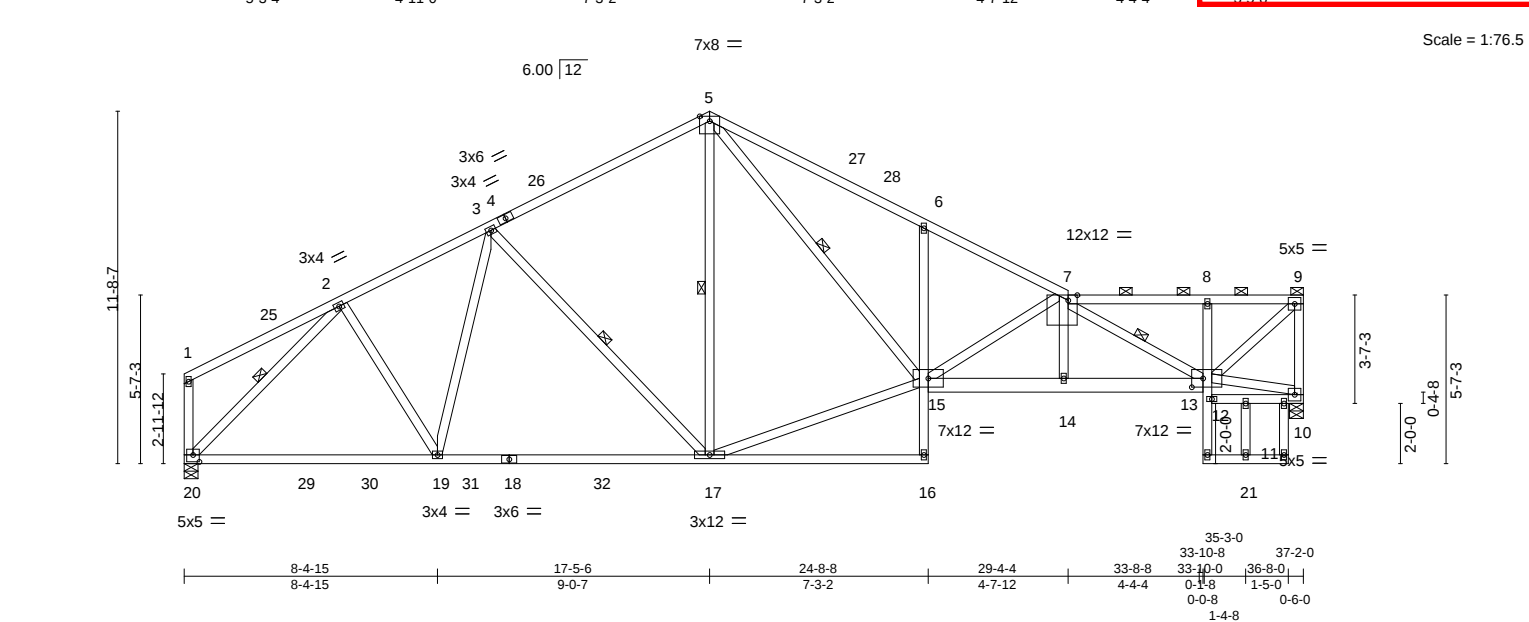


Plate Offsets (X,Y)-- [7:0-3-10,Edge], [13:0-4-8,0-3-8], [20:0-2-8,0-2-12]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.74	Vert(LL)	-0.25 17-19 >999 240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.42 17-19 >999 180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.12 11 n/a n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S				Weight: 278 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SP 2400F 2.0E *Except* 7-9: 2x4 SP No.2, 1-4: 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-2-10 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-2 max.): 7-9.
BOT CHORD	2x4 SP No.2 *Except* 18-20: 2x4 SP No.1, 13-15: 2x6 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt 3-17, 5-17, 7-13, 2-20, 5-15

REACTIONS. (size) 10=0-5-8, 20=0-5-8, 11=0-5-8
Max Horz 20=139(LC 15)
Max Uplift 10=-116(LC 16), 20=-139(LC 16), 11=-42(LC 16)
Max Grav 10=940(LC 49), 20=1735(LC 23), 11=818(LC 50)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1907/532, 3-5=-1662/540, 5-6=-3293/944, 6-7=-3199/770, 7-8=-1580/420,
8-9=-1542/409, 9-10=-1519/449
BOT CHORD 19-20=-453/1523, 17-19=-426/1722, 6-15=-748/294, 14-15=-832/3620, 13-14=-836/3613,
8-13=-527/188
WEBS 2-19=0/500, 3-17=-440/226, 5-17=-218/258, 15-17=-285/1475, 7-15=-1027/243,
7-13=-2404/510, 2-20=-1985/431, 5-15=-584/2250, 9-13=-563/2139

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 17-5-6, Corner(3R) 17-5-6 to 20-5-6, Exterior(2N) 20-5-6 to 37-0-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
 - All plates are 2x4 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10, 20, and 11. This connection is for uplift only and does not consider lateral forces.
 - 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.



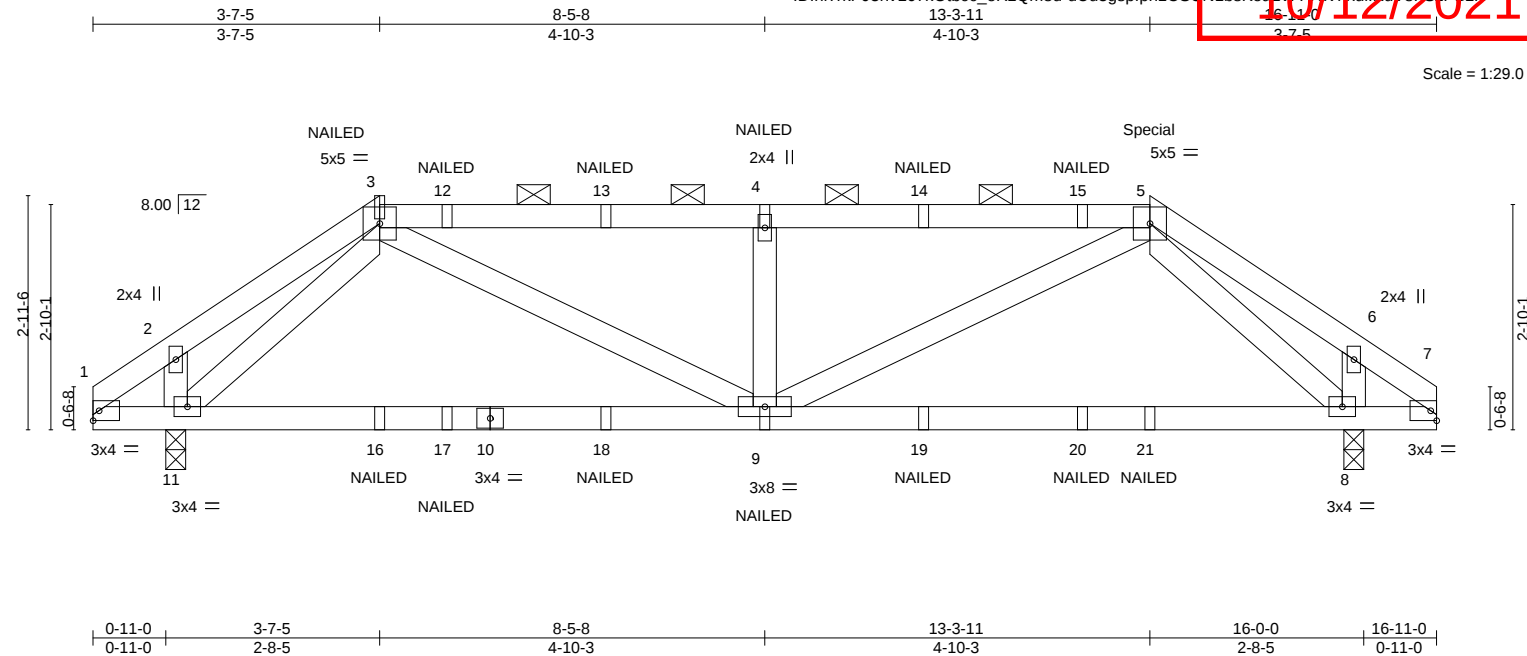
April 20,2021



Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/12/2021
210136-R	D1	Hip Girder	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:18 2021 Page 1
ID:hi?rkPJ3rvL67kQtbcc_eRzQm8d-dUu3gspfp1CSUN1bsKea1vT1V1Mxullu1u18P5rP32F



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.07	MT20		244/190	
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.64	Vert(CT)	-0.14				
TCDL	10.0	Rep Stress Incr	NO	WB	0.25	Horz(CT)	0.02				
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
BOT CHORD	2x4 SP No.2	BOT CHORD	2-0-0 oc purlins (4-3-6 max.): 3-5.
WEBS	2x4 SP No.2		Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-0, 8=0-3-0
Max Horz 11=-56(LC 8)
Max Uplift 11=-170(LC 10), 8=-170(LC 10)
Max Grav 11=1122(LC 1), 8=1122(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-275/0, 3-4=-1762/309, 4-5=-1762/309, 6-7=-275/0
BOT CHORD 9-11=-177/922, 8-9=-166/922
WEBS 3-9=-127/948, 4-9=-651/230, 5-9=-127/948, 3-11=-1107/283, 5-8=-1107/283

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 8. This connection is for uplift only and does not consider lateral forces.
 - 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 skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 80 lb up at 13-3-11 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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=-66, 3-5=-66, 5-7=-66, 1-7=-20



April 20,2021

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	D1	Hip Girder	1	1	
					Job Reference (optional)

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:18 2021 Page 2
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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
145715980

10/12/2021

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 3=-78(B) 5=-78(B) 9=-24(B) 4=-101(B) 12=-101(B) 13=-101(B) 14=-101(B) 15=-101(B) 16=-3(B) 17=-24(B) 18=-24(B) 19=-24(B) 20=-24(B) 21=-3(B)

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	D2	Hip	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,			8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:20 2021 Page 1			LEE'S SUMMIT, MISSOURI
			ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-Zt?p5XrvKIHWbXQiHM7S8m0K3?FrvWboc_FkzP32F			10/12/2021

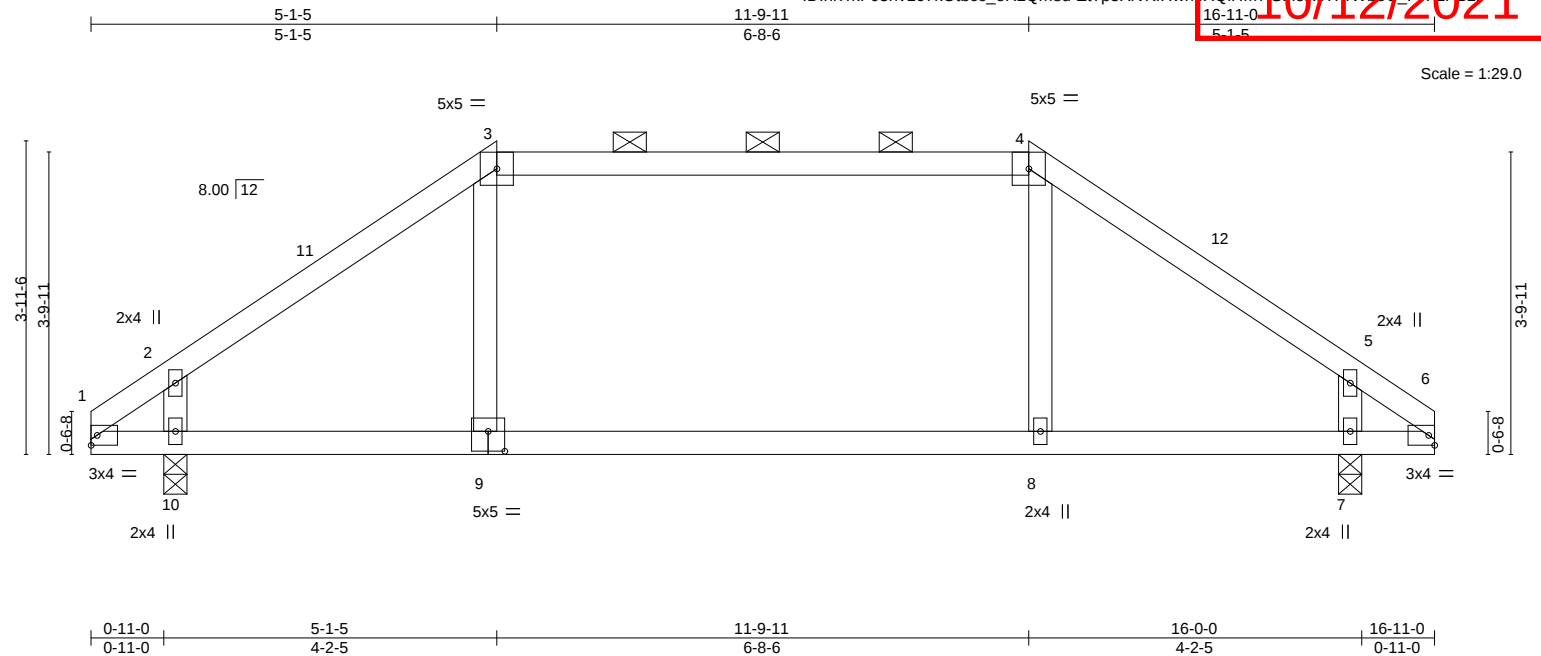


Plate Offsets (X,Y)-- [9:0-2-8,0-3-0]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.90	Vert(LL)	-0.12 8-9	>999	240
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.84	Vert(CT)	-0.26 8-9	>695	180
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01 7	n/a	n/a
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S					
BCDL	10.0								
								Weight: 66 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-8-7 oc purlins, except
BOT CHORD	2x4 SP No.2		2-0-0 oc purlins (2-10-13 max.): 3-4.
WEBS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 10=0-3-8, 7=0-3-8
	Max Horz 10=79(LC 13)
	Max Uplift 10=68(LC 14), 7=68(LC 14)
	Max Grav 10=729(LC 1), 7=729(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-559/61, 2-3=-738/103, 3-4=-535/123, 4-5=-738/102, 5-6=-560/60
BOT CHORD	1-10=-43/536, 9-10=-42/536, 8-9=-45/535, 7-8=-42/536, 6-7=-42/536
WEBS	2-10=-356/140, 5-7=-355/140

- 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=6.0psf; 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 16-11-0 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 7. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	D3	Hip	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:21 2021 Page 1
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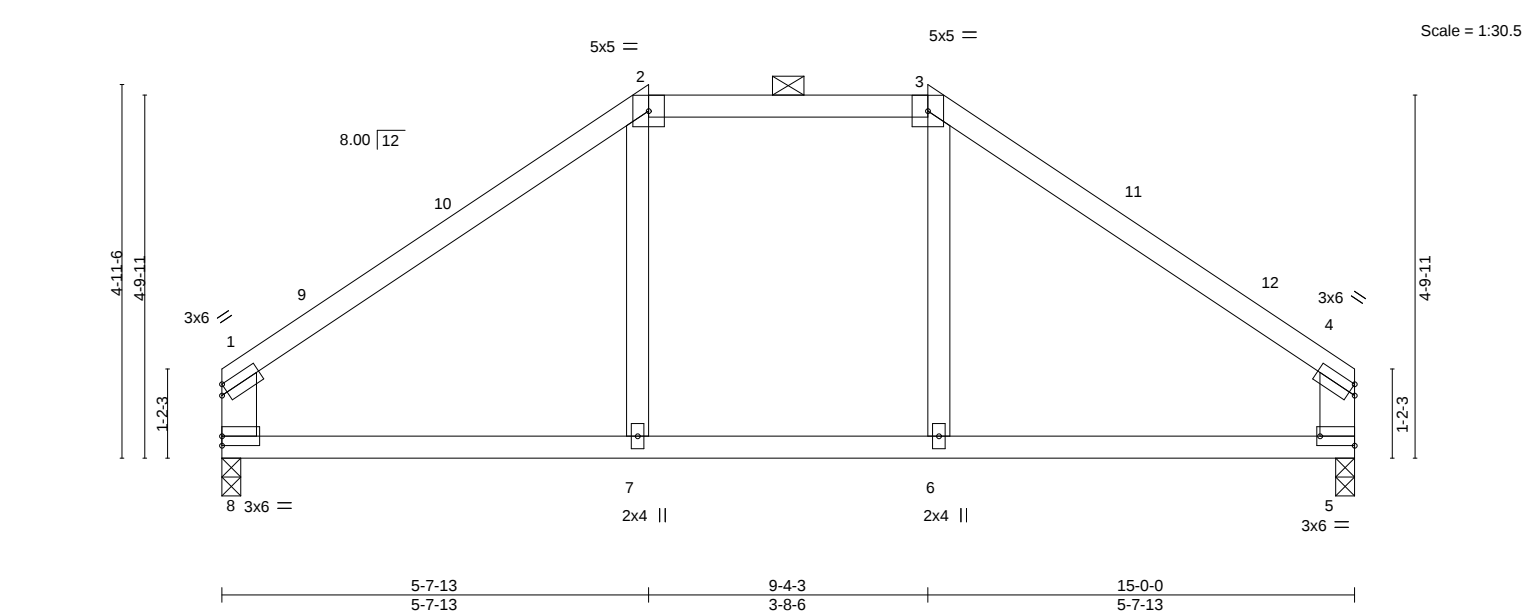


Plate Offsets (X,Y)-- [5:Edge,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.55	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.69	Vert(LL)	>999		244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Vert(CT)	>754		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-R		Horz(CT)	n/a		
BCDL	10.0							Weight: 65 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2 *Except*		
	1-8,4-5: 2x6 SP 2400F 2.0E		

REACTIONS.	
(size)	8=0-3-0, 5=0-3-0
Max Horz	8=-79(LC 12)
Max Uplift	8=-59(LC 14), 5=-59(LC 14)
Max Grav	8=701(LC 19), 5=701(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-753/132, 2-3=-524/166, 3-4=-753/145, 1-8=-552/131, 4-5=-552/134
BOT CHORD	7-8=-42/554, 6-7=-44/550, 5-6=-43/555

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 5-7-13, Exterior(2E) 5-7-13 to 9-4-3, Exterior(2R) 9-4-3 to 13-7-2, Interior(1) 13-7-2 to 14-9-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 5. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	D4	Hip	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,						LEE'S SUMMIT, MISSOURI
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:22 2021 Page 1						145715983
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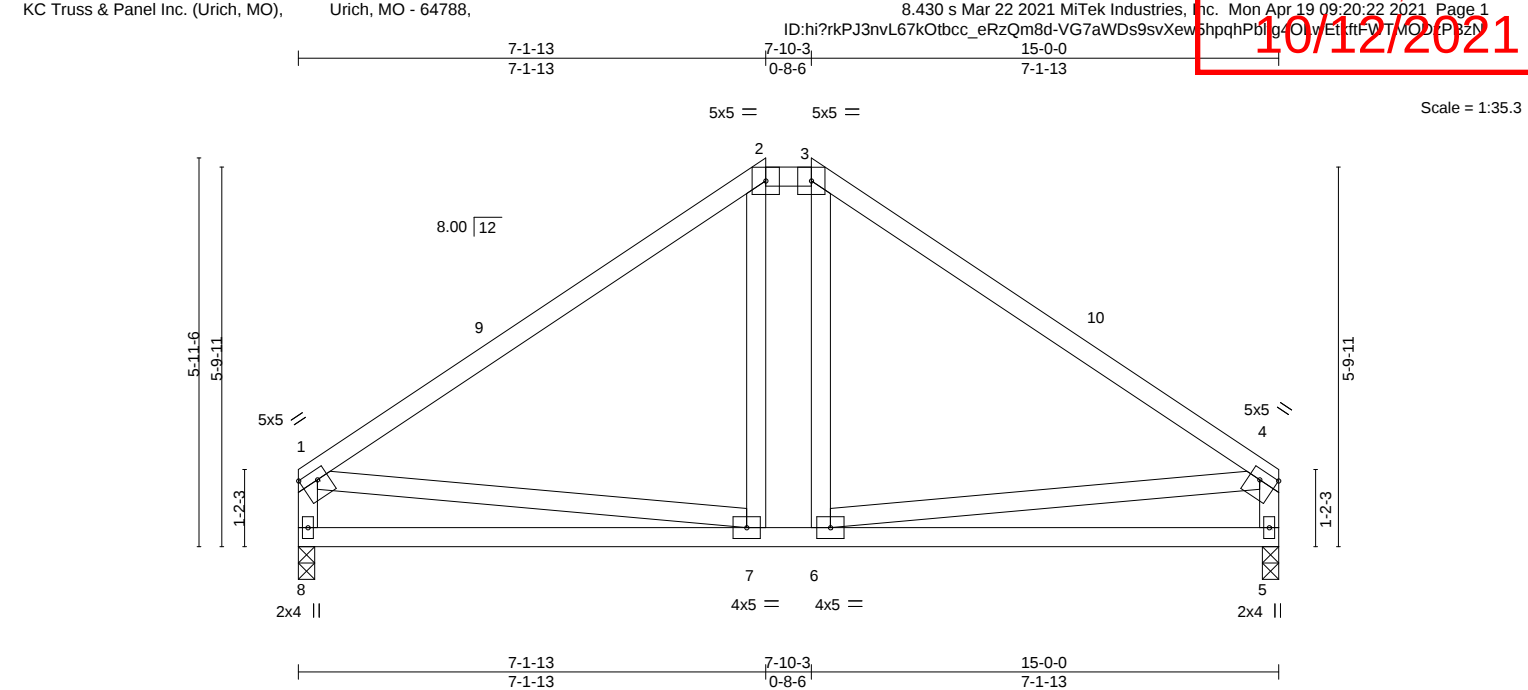


Plate Offsets (X,Y)-- [1:Edge,0-1-12], [4:Edge,0-1-12]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.41	5-6	>999		244/190
TCDL	10.0	Rep Stress Incr	YES	WB	0.06	5-6	>999		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S		n/a	n/a		
BCDL	10.0							Weight: 87 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-11-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 2-3.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS.	
(size)	8=0-3-0, 5=0-3-0
Max Horz	8=102(LC 13)
Max Uplift	8=-59(LC 14), 5=-59(LC 14)
Max Grav	8=634(LC 1), 5=634(LC 1)

FORCES.	
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-680/122, 2-3=-460/167, 3-4=-680/122, 1-8=-569/131, 4-5=-569/131
BOT CHORD	7-8=-89/312, 6-7=-1/460
WEBS	1-7=0/295, 4-6=0/297

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-12 to 3-1-12, Exterior(2E) 3-1-12 to 14-10-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 5. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145715984
210136-R	D5	Common Structural Gable	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:22 2021 Page 1

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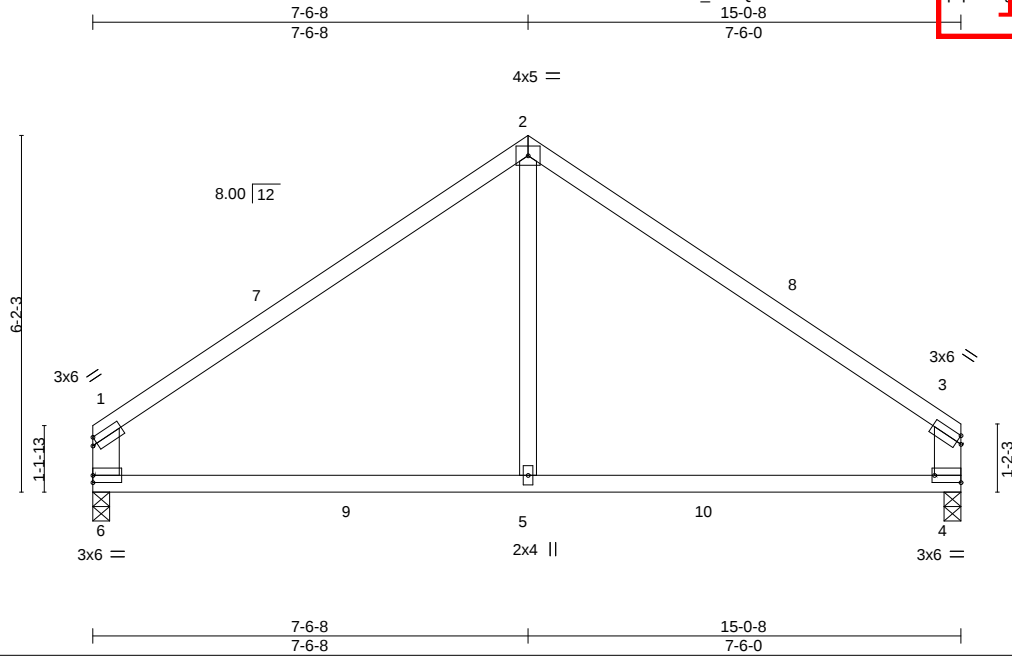


Plate Offsets (X,Y)--		[4:Edge,0-1-8]	
LOADING (psf)		SPACING-	
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0 *	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.56
		BC	0.44
		WB	0.09
		Matrix-R	
		DEFL.	
		Vert(LL)	-0.09 5-6 >999 240
		Vert(CT)	-0.16 5-6 >999 180
		Horz(CT)	0.01 4 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 62 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x6 SP 2400F 2.0E *Except*
2-5: 2x4 SP No.2

BRACING-

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

REACTIONS.

(size) 6=0-3-8, 4=0-3-8
Max Horz 6=-108(LC 12)
Max Uplift 6=-59(LC 14), 4=-59(LC 14)
Max Grav 6=713(LC 19), 4=713(LC 20)

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

TOP CHORD 1-2=-739/225, 2-3=-739/225, 3-4=-567/259, 1-6=-568/260
BOT CHORD 5-6=-53/533, 4-5=-53/533
WEBS 2-5=0/379

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-2-12 to 3-2-12, Exterior(2N) 3-2-12 to 7-6-8, Corner(3R) 7-6-8 to 10-6-8, Exterior(2N) 10-6-8 to 14-9-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 4. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



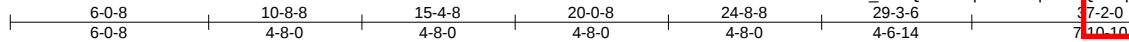
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210136-R	Truss GR1	Truss Type Half Hip Girder	Qty 1	Ply 2	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/12/2021
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KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:25 2021 Page 1

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Scale = 1:70.2

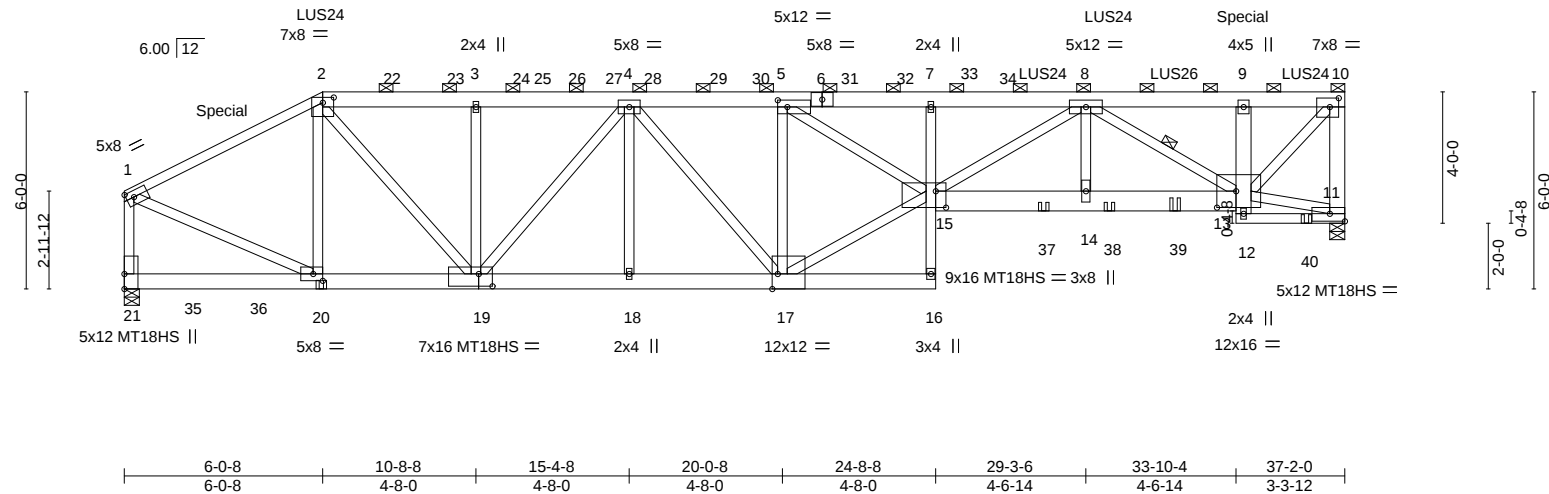


Plate Offsets (X,Y)-- [1:Edge,0-2-4], [2:0-4-0,0-1-15], [5:0-3-8,0-2-8], [10:0-3-4,0-3-4], [11:Edge,0-2-12], [13:0-7-0,0-6-0], [15:0-3-12,0-6-0], [17:0-2-0,Edge], [19:0-5-0,0-4-8], [20:0-3-8,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.91	Vert(LL) -0.40	16	>999	240	MT20	197/144
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.95	Vert(CT) -0.73	16	>607	180	MT18HS	197/144
TCDL 10.0	Lumber DOL 1.15	WB 0.94	Horz(CT) 0.22	11	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 620 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E *Except*
1-2: 2x4 SP No.1
BOT CHORD 2x6 SP 2400F 2.0E *Except*
7-16,11-12: 2x4 SP No.2, 13-15: 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
10-11: 2x6 SP 2400F 2.0E, 15-17: 2x4 SPF 2100F 1.8E
5-15,10-13: 2x4 SP No.1

BRACING-

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

REACTIONS.

(size) 11=0-5-8, 21=0-5-8
Max Horz 21=92(LC 12)
Max Uplift 11=-1280(LC 9), 21=-1150(LC 12)
Max Grav 11=8425(LC 30), 21=7514(LC 30)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-7978/1232, 2-3=-10978/1705, 3-4=-10939/1699, 4-5=-13404/2056, 5-7=-21403/3182, 7-8=-21418/3181, 8-9=-7487/1121, 9-10=-6996/1050, 10-11=-7774/1179, 1-21=-6845/1065
BOT CHORD 19-20=-1144/7153, 18-19=-2030/13035, 17-18=-2030/13035, 16-17=-60/396, 7-15=-1572/269, 14-15=-2404/16321, 13-14=-2404/16321, 11-12=-127/719, 9-13=-347/207
WEBS 2-20=-1536/265, 2-19=-864/5886, 3-19=-2082/381, 4-19=-3288/534, 4-17=-76/574, 5-17=-7448/1192, 15-17=-2271/14793, 5-15=-1409/9692, 8-15=-997/6095, 8-14=-161/1663, 1-20=-1115/7692, 8-13=-10509/1527, 11-13=-592/108, 10-13=-1517/10116

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, 2x4 - 1 row at 0-7-0 oc, 2x8 - 2 rows staggered at 0-5-0 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- Unbalanced snow loads have been considered for this design.
- Provide adequate drainage to prevent water ponding.
- All plates are 20 plates unless otherwise indicated.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145715985
210136-R	GR1	Half Hip Girder	1	2	Job Reference (optional)	

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:26 2021 Page 2
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10/12/2021

NOTES-

- 9) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 10) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=1280, 21=1150.
- 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.
- 14) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss) or equivalent spaced at 22-0-0 oc max. starting at 6-0-0 from the left end to 30-0-0 to connect truss(es) to front face of bottom chord.
- 15) Use Simpson Strong-Tie LUS26 (4-10d Girder, 3-10d Truss, Single Ply Girder) or equivalent at 32-0-0 from the left end to connect truss(es) to front face of bottom chord.
- 16) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 36-0-0 from the left end to connect truss(es) to front face of bottom chord.
- 17) Fill all nail holes where hanger is in contact with lumber.
- 18) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 647 lb down and 126 lb up at 8-0-12, 760 lb down and 141 lb up at 10-0-0, 687 lb down and 155 lb up at 12-0-0, 740 lb down and 174 lb up at 14-0-0, 676 lb down and 175 lb up at 16-0-0, 687 lb down and 174 lb up at 18-0-0, 756 lb down and 174 lb up at 20-0-0, 687 lb down and 163 lb up at 22-0-0, and 687 lb down and 147 lb up at 24-0-0, and 726 lb down and 117 lb up at 26-0-0 on top chord, and 671 lb down and 134 lb up at 2-0-0, and 672 lb down and 127 lb up at 4-0-0, and 683 lb down and 141 lb up at 34-1-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 19) Special hanger(s) or other connection device(s) shall be provided at 3-0-0 from the left end sufficient to connect truss(es) to front face of bottom chord. The design/selection of such special 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: 1-2=-66, 2-10=-66, 16-21=-20, 13-15=-20, 11-12=-20

Concentrated Loads (lb)

Vert: 20=-671(F) 5=-655 13=-683(F) 22=-615 23=-655 24=-655 27=-643 28=-643 29=-655 31=-655 33=-655 34=-694 35=-671(F) 36=-672(F) 37=-745(F) 38=-745(F) 39=-735(F) 40=-680(F)

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	GR2	GABLE	1	2	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145715986

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:27 2021 Page 1
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25-0-0
6-3-14

LEE'S SUMMIT, MISSOURI
10/12/2021

Scale = 1:43.4

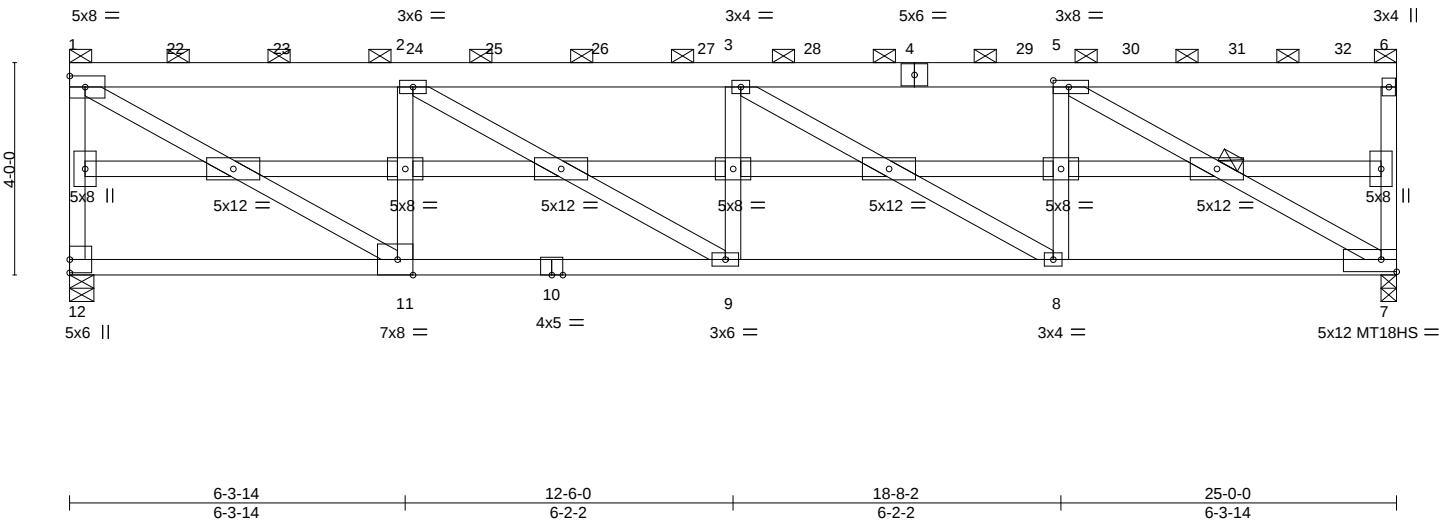


Plate Offsets (X,Y)-- [5:0-3-8,0-1-8], [7:Edge,0-2-12], [11:0-3-8,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0		TC	0.43	in (loc)	l/defl	L/d	
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.86	Vert(LL)	-0.17	9	>999
TCDL	10.0	Lumber DOL	1.15	WB	0.96	Vert(CT)	-0.32	9	>940
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-S		Horz(CT)	0.10	7	n/a
BCDL	10.0	Code IRC2018/TPI2014							
								Weight: 389 lb	
								FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x6 SP 2400F 2.0E	TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-6, except end verticals.
BOT CHORD	2x4 SP No.2 *Except* 7-10: 2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 9-7-3 oc bracing.
WEBS	2x4 SP No.2	WEBS	1 Row at midpt
OTHERS	2x4 SP No.2		5-7

REACTIONS. (size) 12=0-5-8, 7=0-3-8
Max Uplift 12=-846(LC 10), 7=-1047(LC 11)
Max Grav 12=4720(LC 4), 7=5204(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-12=-4648/1049, 1-2=-6799/1472, 2-3=-9020/2050, 3-5=-6983/1625, 6-7=-1084/297
BOT CHORD 9-11=-1472/6799, 8-9=-2050/9020, 7-8=-1625/6983
WEBS 1-11=-1693/7790, 2-11=-3830/942, 2-9=-670/2575, 3-9=-1177/408, 3-8=-2362/493,
5-8=-162/1305, 5-7=-7995/1865

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: 2x4 - 1 row 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; TCDL=6.0psf; BCDL=6.0psf; 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
- 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates 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.
- Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 7. This connection is for uplift only and does not consider lateral forces.
- 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.

3) Gable end representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	GR2	GABLE	1	2	Job Reference (optional)

KC Truss & Panel Inc. (Urlich, MO), Urlich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:27 2021 Page 2
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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/12/2021

NOTES-
14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 577 lb down and 147 lb up at 2-0-0, 722 lb down and 147 lb up at 4-0-0, 625 lb down and 151 lb up at 6-0-0, 713 lb down and 167 lb up at 8-0-0, 659 lb down and 188 lb up at 10-0-0, 699 lb down and 205 lb up at 12-0-0, 699 lb down and 211 lb up at 14-0-0, 711 lb down and 210 lb up at 16-0-0, 706 lb down and 210 lb up at 18-0-0, 688 lb down and 200 lb up at 20-0-0, and 675 lb down and 217 lb up at 22-0-0, and 692 lb down and 190 lb up at 24-0-0 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: 1-6=-66, 7-12=-20
Concentrated Loads (lb)
Vert: 4=-641 22=-523 23=-662 24=-619 25=-619 26=-614 27=-631 28=-630 29=-641 30=-626 31=-613 32=-627

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	GR3	Common Girder	1	2	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,						LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:29 2021 Page 1
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10/12/2021

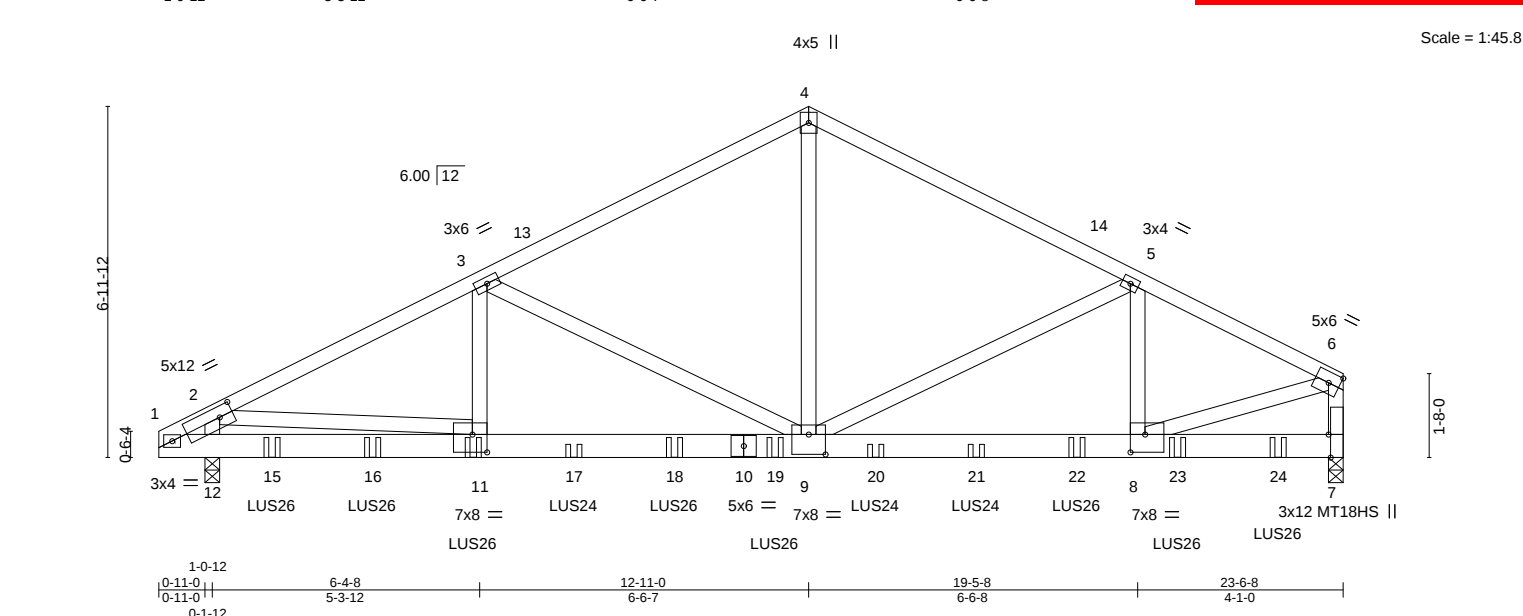


Plate Offsets (X,Y)-- [2:0-3-4,0-2-8], [7:0-5-8,Edge], [8:0-3-8,0-4-4], [9:0-4-0,0-4-12], [11:0-3-8,0-4-4]													
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.98	Vert(LL)	-0.14	9-11	>999	240		MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.25	9-11	>999	180		MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.78	Horz(CT)	0.04	7	n/a	n/a			
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S								Weight: 297 lb	FT = 20%
BCDL	10.0												

LUMBER-		BRACING-	
TOP CHORD	2x4 SP 2400F 2.0E *Except* 4-6: 2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x6 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS.	(size) 12=0-3-8, 7=0-3-8 Max Horz 12=111(LC 36) Max Uplift 12=640(LC 12), 7=562(LC 12) Max Grav 12=5995(LC 5), 7=5962(LC 6)
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FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-3026/304, 2-3=-8639/954, 3-4=-6040/714, 4-5=-6024/714, 5-6=-6999/711, 6-7=-5242/536
BOT CHORD	1-12=-269/2636, 11-12=-312/2636, 9-11=-823/7666, 8-9=-603/6229
WEBS	2-12=-3163/424, 2-11=-515/5086, 3-11=-199/2039, 3-9=-2646/356, 4-9=-498/4943, 5-9=-1052/109, 5-8=-184/656, 6-8=-614/6334

- 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 0-7-0 oc, Except member 11-2 2x4 - 1 row at 0-9-0 oc, member 3-11 2x4 - 1 row at 0-9-0 oc, member 9-3 2x4 - 1 row at 0-9-0 oc, member 9-4 2x4 - 1 row at 0-9-0 oc, member 9-5 2x4 - 1 row at 0-9-0 oc, member 5-8 2x4 - 1 row at 0-9-0 oc, member 8-6 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - Two H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7. This connection is for uplift only and does not consider lateral forces.

Continued on page 2



April 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145715987
210136-R	GR3	Common Girder	1	2	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:29 2021 Page 2
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NOTES-

- 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) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss, Single Ply Girder) or equivalent spaced at 4-0-0 oc max. starting at 2-3-0 from the left end to 12-3-0 to connect truss(es) to back face of bottom chord.
- 14) Use Simpson Strong-Tie LUS24 (4-SD9112 Girder, 2-SD9212 Truss, Single Ply Girder) or equivalent spaced at 6-0-0 oc max. starting at 8-3-0 from the left end to 16-3-0 to connect truss(es) to back face of bottom chord.
- 15) Use Simpson Strong-Tie LUS26 (4-10d Girder, 4-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 18-3-0 from the left end to 22-3-0 to connect truss(es) to back face of bottom chord.
- 16) Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-66, 4-6=-66, 1-7=-20

Concentrated Loads (lb)

Vert: 11=-873(B) 15=-870(B) 16=-870(B) 17=-873(B) 18=-873(B) 19=-871(B) 20=-871(B) 21=-871(B) 22=-871(B) 23=-871(B) 24=-871(B)

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	JD1	Diagonal Hip Girder	2	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145715988

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

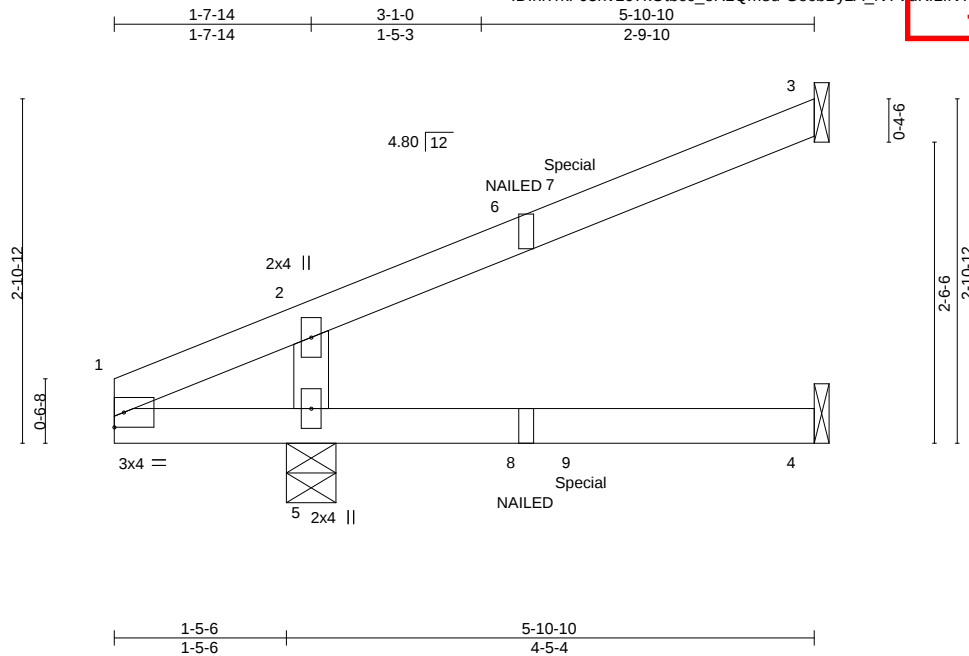
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:30 2021 Page 1

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Job Reference (optional)

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale = 1:19.4

LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) -0.01 4-5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Vert(CT) -0.01 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.02 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 19 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-5-0
Max Horz 5=82(LC 12)
Max Uplift 3=-59(LC 12), 4=-1(LC 12), 5=-34(LC 12)
Max Grav 3=159(LC 16), 4=57(LC 7), 5=452(LC 16)

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

WEBS 2-5=-398/97

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional); Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- Unbalanced snow loads have been considered for this design.
- 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) 3, 4.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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.
- "NAILED" indicates 3-10d skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 63 lb down and 45 lb up at 3-11-3 on top chord, and 2 lb down and 1 lb up at 3-11-3 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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=-66, 1-4=-20
- Concentrated Loads (lb)
Vert: 6=26(B) 8=29(B) 9=0(F)



April 20, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	JD2	Jack-Open	2	1	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

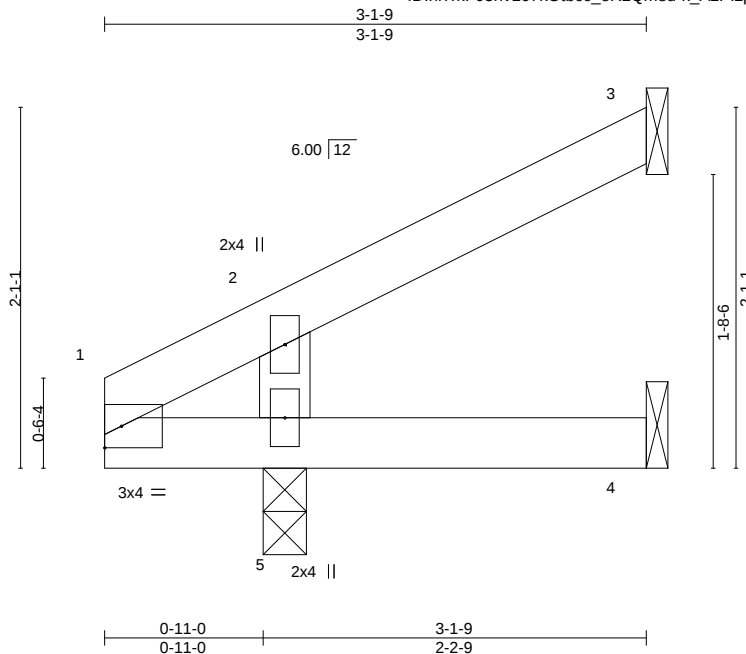
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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145715989

LEE'S SUMMIT, MISSOURI

10/12/2021

Scale = 1:13.3



LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.09	Vert(LL) -0.00 5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) -0.00 5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-0
Max Horz 5=56(LC 16)
Max Uplift 3=-31(LC 16)
Max Grav 3=75(LC 20), 4=30(LC 7), 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
- 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.



April 20,2021

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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	Lot 12 Whispering Woods
210136-R	JD3	Jack-Open	5	1	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

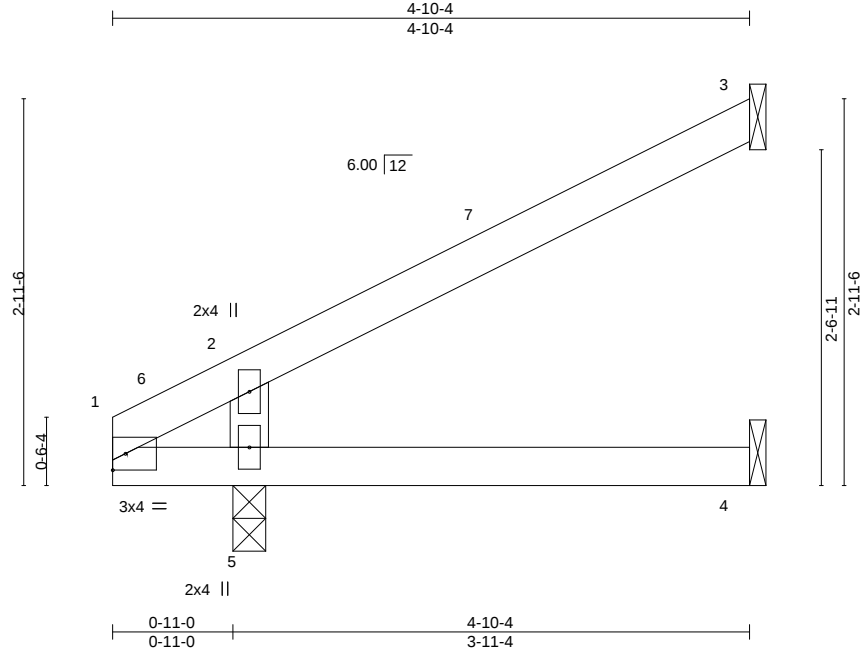
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:32 2021 Page 1

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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145715990

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale = 1:17.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.34	Vert(LL) 0.02	4-5	>999	240	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.22	Vert(CT) -0.02	4-5	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Horz(CT) -0.02	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014							

Weight: 16 lb FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-0
Max Horz 5=84(LC 16)
Max Uplift 3=51(LC 16)
Max Grav 3=167(LC 20), 4=67(LC 7), 5=374(LC 20)

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

WEBS 2-5=-358/238

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 4-9-8 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
- 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.



April 20, 2021

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

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

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



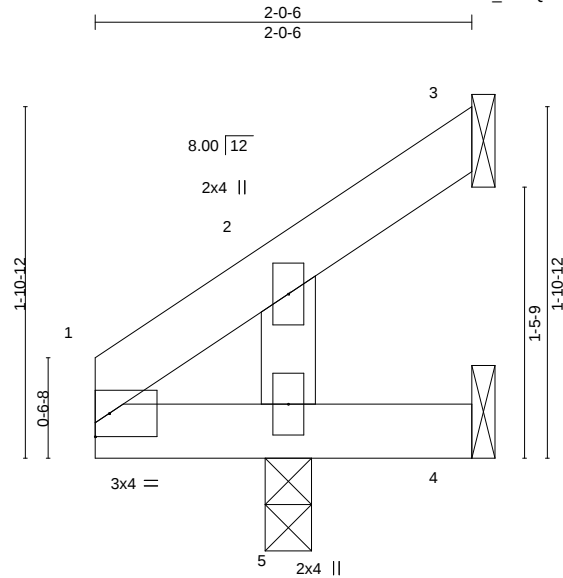
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145715991
210136-R	JD4	Jack-Open	2	1	Job Reference (optional)	8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:32 2021 Page 1

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

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10/12/2021



Scale = 1:12.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) 0.00 5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) 0.00 5 >999 180		
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: 8 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-0
Max Horz 5=49(LC 14)
Max Uplift 3=-25(LC 14), 4=-16(LC 1)
Max Grav 3=11(LC 19), 5=180(LC 1)

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, 4.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	JL1	Monopitch	2	1	

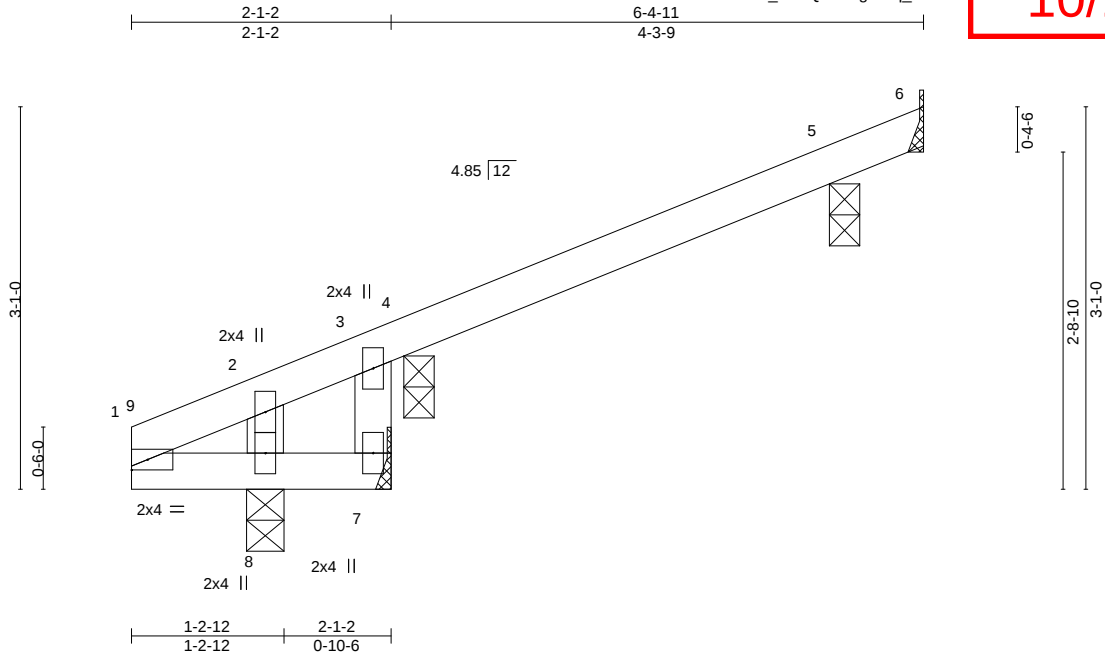
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145715992

LEE'S SUMMIT, MISSOURI

10/12/2021



LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.17	Vert(LL) 0.00 8 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) 0.00 8 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.01 6 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings Mechanical except (jt=length) 8=0-3-10, 4=0-2-15, 5=0-2-15.

(lb) - Max Horz 8=107(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 4, 5
Max Grav All reactions 250 lb or less at joint(s) 6, 8, 4, 5

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-308/82, 2-3=-275/61
BOT CHORD 1-8=-75/321

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- Unbalanced snow loads have been considered for this design.
- 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 at joint(s) 4, 5.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7, 4, 5.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 4, 5.
- 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.



April 20, 2021

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

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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	Lot 12 Whispering Woods
210136-R	JL2	Monopitch	2	1	

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:35 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-dmPUEg0JovAo_5AJ5w7ern0j\$raR0Cev0r15YUzrP3zA

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145715993

LEE'S SUMMIT, MISSOURI

10/12/2021

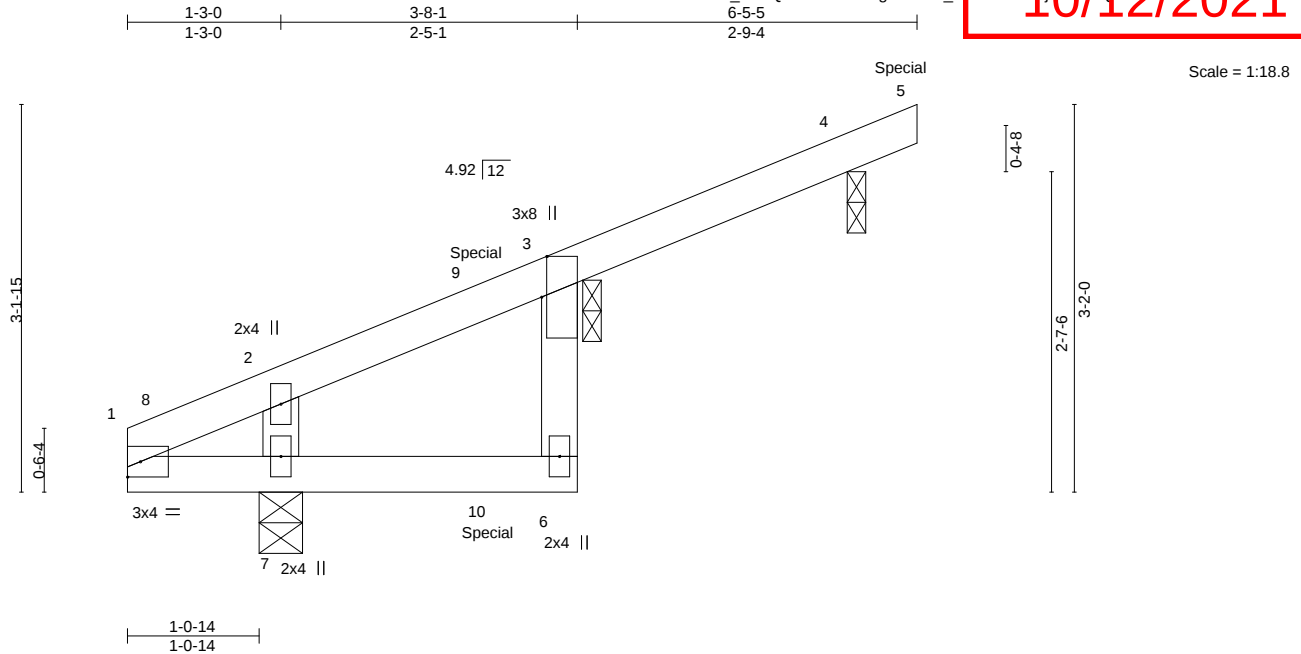


Plate Offsets (X,Y)-- [3:0-4-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.14	Vert(LL)	0.00 6-7	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	0.00 6-7	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Horz(CT)	-0.01 4	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 19 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-8-1 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=0-1-13, 7=0-4-4, 4=0-1-13
Max Horz 7=110(LC 12)
Max Uplift 3=-113(LC 12), 4=-56(LC 12)
Max Grav 3=254(LC 19), 7=281(LC 19), 4=187(LC 19)

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=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- Unbalanced snow loads have been considered for this design.
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 23.1 psf on overhangs non-concurrent with other live loads.
- 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 at joint(s) 3, 4.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=113.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 24 lb up at 2-11-6, and 28 lb down and 10 lb up at 6-5-5 on top chord, and 1 lb down and 13 lb up at 2-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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=-66, 3-5=-66, 1-6=-20



April 20,2021

Continued on page 2

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	JL2	Monopitch	2	1	Job Reference (optional)

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:35 2021 Page 2
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-dmPUEg0JovAo_5AJ5w7em0j\$raR0CQeV0r16YUzrP3zA

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
145715993

10/12/2021

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 5=-28(B)

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	JL3	Jack-Open	2	1	

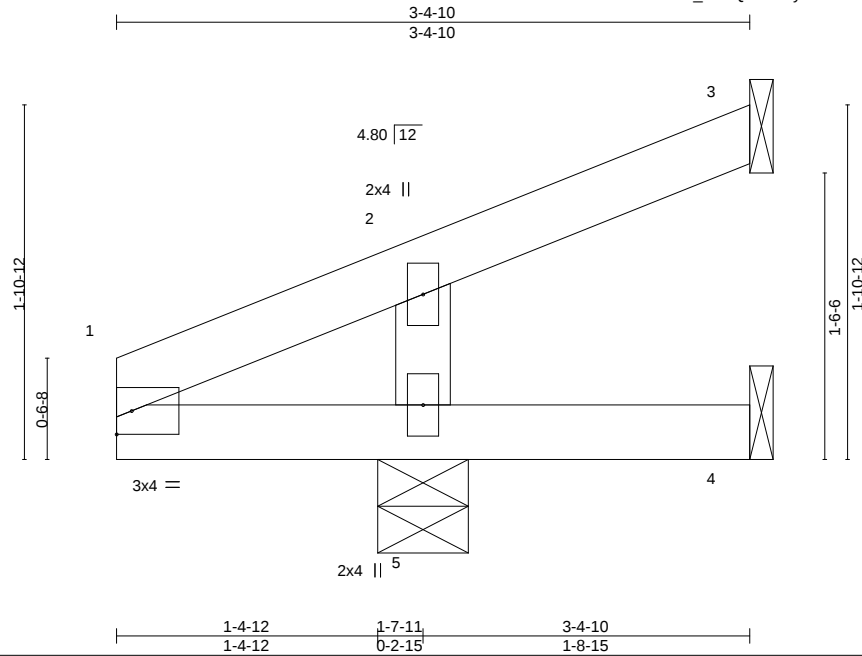
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:36 2021 Page 1
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RELEASE FOR CONSTRUCTION
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DEVELOPMENT SERVICES
145715994

LEE'S SUMMIT, MISSOURI

10/12/2021



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.15	Vert(LL) 0.00 4-5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Vert(CT) 0.00 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 12 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-4-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-5-13
Max Horz 5=50(LC 16)
Max Uplift 3=-23(LC 16), 4=-23(LC 20), 5=-3(LC 16)
Max Grav 3=28(LC 20), 4=7(LC 7), 5=370(LC 20)

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

WEBS 2-5=-256/146

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, 4.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20, 2021

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

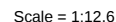
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component



16023 Swingley Ridge Rd
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8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:37 2021 Page 1
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on Apr 19 09:20:37 2021 Page 1
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10/12/2021



LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-10-4 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8
 Max Horz 5=52(LC 16)
 Max Uplift 3=-28(LC 16), 4=-1(LC 16)
 Max Grav 3=58(LC 20), 4=23(LC 7), 5=256(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; TC DL=6.0psf; BCDL=6.0psf; 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) TCDL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, 4.
- 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.



April 20, 2021



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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	JL5	Jack-Open	2	1	

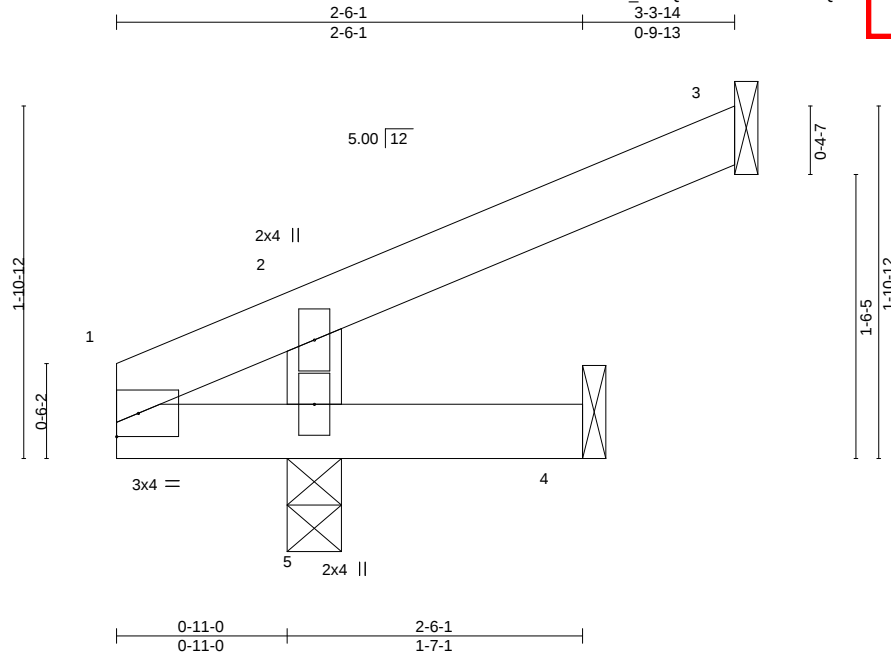
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:37 2021 Page 1
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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145715996

LEE'S SUMMIT, MISSOURI

10/12/2021



LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.11	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) 0.00 5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Vert(CT) 0.00 5 >999 180		
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-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-6-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=60(LC 16)
Max Uplift 3=-36(LC 16), 4=-9(LC 16), 5=-12(LC 16)
Max Grav 3=80(LC 23), 4=14(LC 7), 5=270(LC 23)

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=6.0psf; h=19ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, 4.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20, 2021

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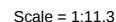
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:38 2021 Page 1
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10/12/2021



LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-3-15 oc purlins.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8
 Max Horz 5=43(LC 16)
 Max Uplift 3=-21(LC 16), 4=-12(LC 20)
 Max Grav 3=26(LC 20), 4=8(LC 7), 5=236(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; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=7ft; 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) TCDL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, 4.
- 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.



April 20, 2021



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

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

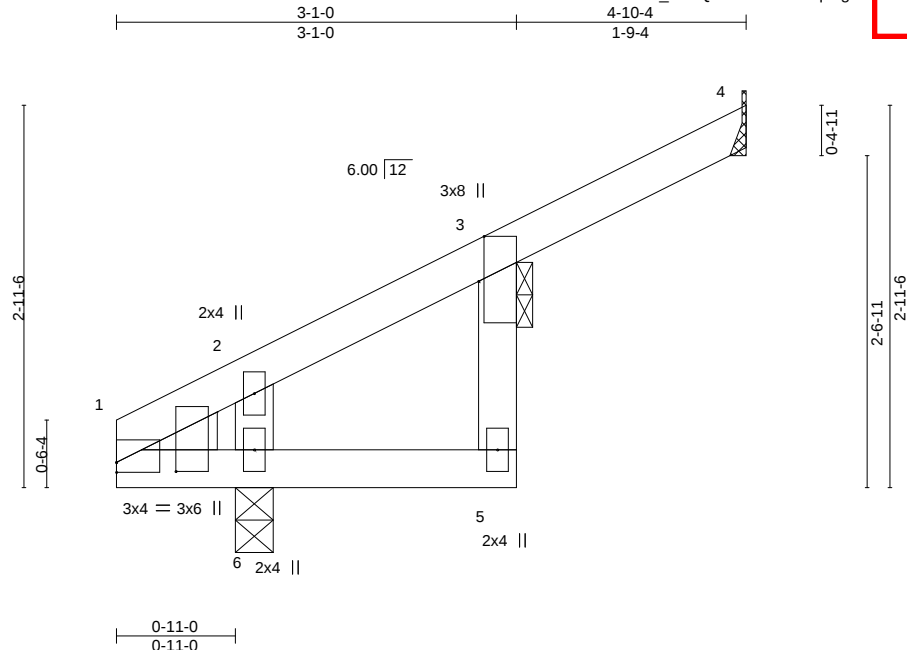


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145715998
210136-R	JL9	Monopitch	1	1	Job Reference (optional)	10/12/2021

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:39 2021 Page 1
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Scale = 1:17.8

Plate Offsets (X,Y)-- [1:0-0-13,0-5-8], [1:0-0-0,0-0-15], [3:0-4-3,Edge]										
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.10	in (loc)	l/defl	L/d	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.11	Vert(LL)	0.00	6	>999	
TCDL	10.0	Rep Stress Incr	YES	WB	0.02	Vert(CT)	0.00	6	>999	180
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P		Horz(CT)	-0.01	4	n/a	n/a
BCDL	10.0								Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=Mechanical, 3=0-1-8, 6=0-3-8
Max Horz 6=101(LC 16)
Max Uplift 4=22(LC 16), 3=110(LC 16)
Max Grav 4=76(LC 23), 3=209(LC 23), 6=262(LC 23)

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=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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 at joint(s) 3.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 3=110.
- 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 3.
- 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.



April 20,2021

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

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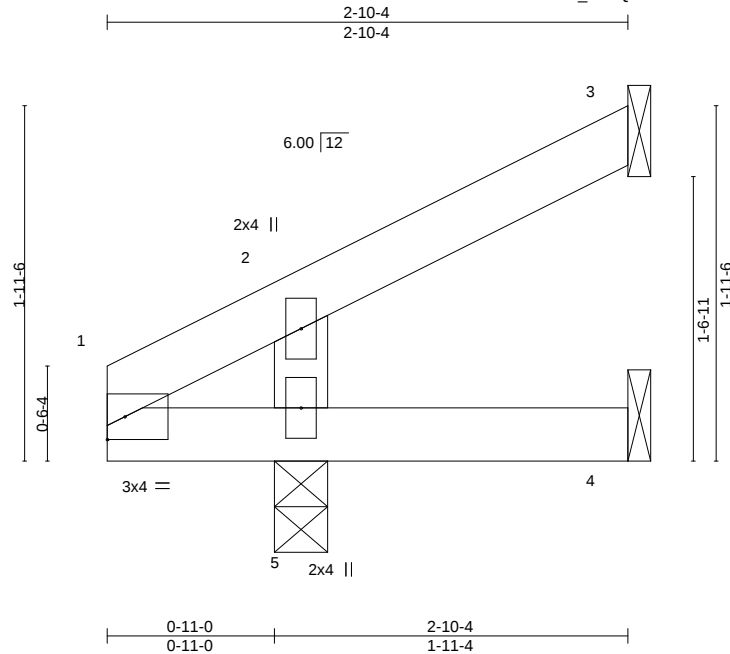


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145715999
210136-R	JL10	Jack-Open	1	1	Job Reference (optional)	8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:34 2021 Page 1 ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-9Zr61K0h1b2xMxc5XDCPEFAInB5m3He0NN_PkzP32F

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

10/12/2021



Scale = 1:12.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) 0.00 5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) 0.00 5 >999 180		
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-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=52(LC 16)
Max Uplift 3=-28(LC 16), 4=-1(LC 16)
Max Grav 3=58(LC 20), 4=23(LC 7), 5=256(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=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, 4.
- 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.



April 20,2021

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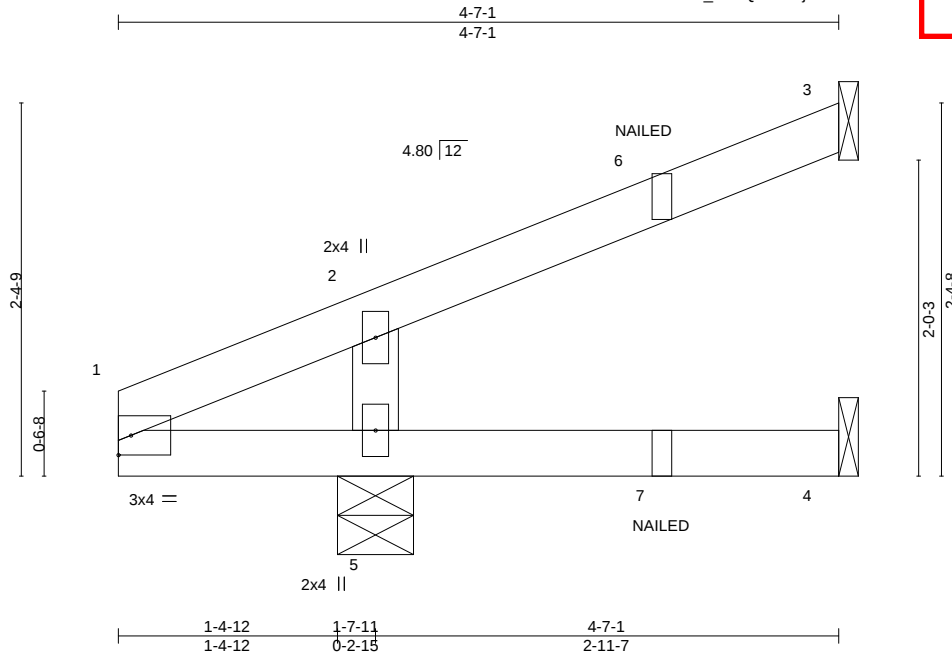
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716000
210136-R	JM1	Jack-Open Girder	2	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urlich, MO), Urlich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:40 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-zjDNIN4SdRo54-3GtTjpTtQ6RbWv8uYX0uqJ0FzPB25

10/12/2021



Scale = 1:14.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.28	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.13	Vert(LL) 0.00 4-5 >999 240		
TCDL 10.0	Rep Stress Incr NO	WB 0.04	Vert(CT) 0.01 4-5 >999 180		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-P	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0				Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-5-13
Max Horz 5=66(LC 12)
Max Uplift 3=-48(LC 12), 4=-14(LC 35), 5=-22(LC 12)
Max Grav 3=88(LC 16), 4=23(LC 7), 5=397(LC 16)

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

WEBS 2-5=-315/68

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, 4.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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) "NAILED" indicates 3-10d skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
Vert: 1-3=-66, 1-4=-20
- Concentrated Loads (lb)
Vert: 6=25(F) 7=28(F)



April 20, 2021

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

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



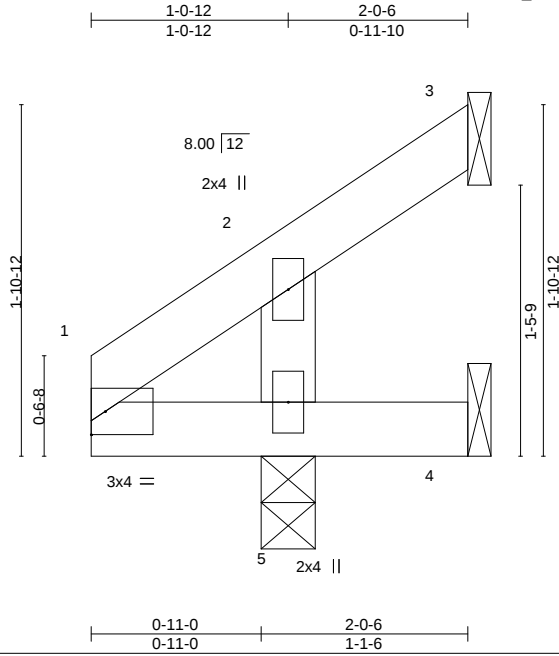
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716001
210136-R	JM2	Jack-Open	2	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:41 2021 Page 1
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10/12/2021



Scale = 1:12.4

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.06	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.08	Vert(LL) 0.00 5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) 0.00 5 >999 180		
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: 8 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=49(LC 14)
Max Uplift 3=-25(LC 14), 4=-18(LC 1)
Max Grav 3=9(LC 19), 5=184(LC 1)

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=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, 4.
- 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.



April 20,2021

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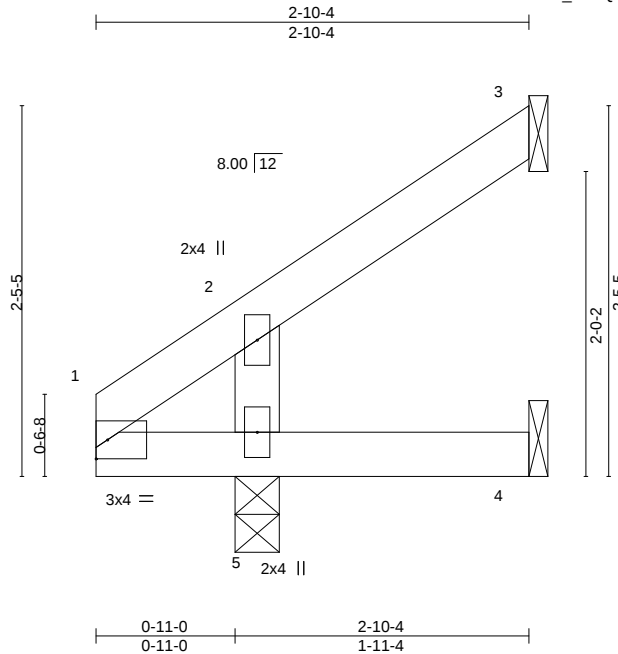
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	JM3	Jack-Open	9	1		AS NOTED FOR PLAN REVIEW
					Job Reference (optional)	DEVELOPMENT SERVICES

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:42 2021 Page 1
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10/12/2021



Scale = 1:15.2

LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) 0.00 5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) 0.00 5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-10-4 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=67(LC 14)
Max Uplift 3=-37(LC 14), 4=-8(LC 14)
Max Grav 3=45(LC 19), 4=22(LC 5), 5=194(LC 1)

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=11ft; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, 4.
- 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	JR1	Jack-Open	1	1	

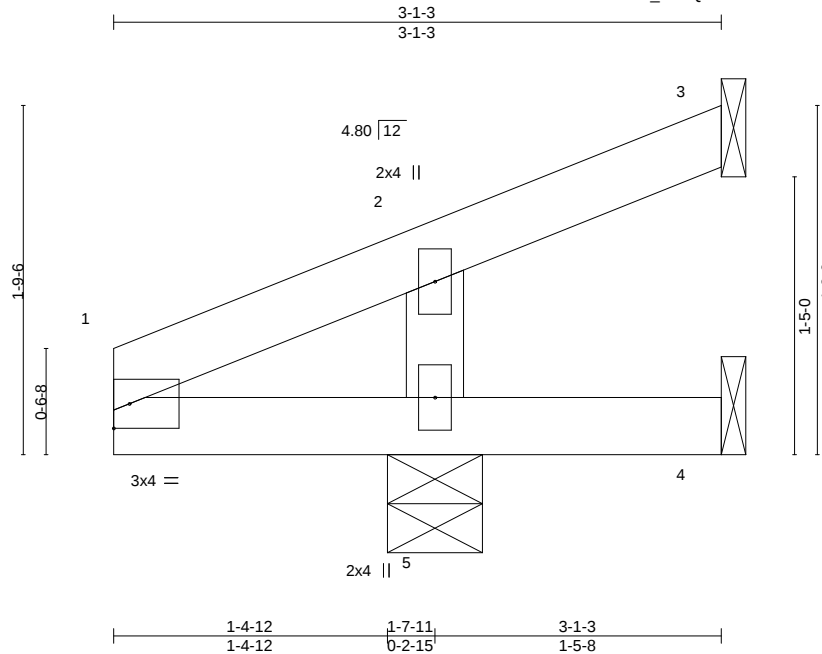
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:42 2021 Page 1
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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716003

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale = 1:11.8

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.18	Vert(LL) 0.00	4-5	>999	240	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.15	Vert(CT) 0.00	4-5	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.03	Horz(CT) -0.01	3	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 11 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-1-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-5-13
Max Horz 5=56(LC 16)
Max Uplift 3=-23(LC 16), 4=-35(LC 22), 5=-19(LC 16)
Max Grav 3=6(LC 22), 5=368(LC 22)

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=6.0psf; h=19ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, 4.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



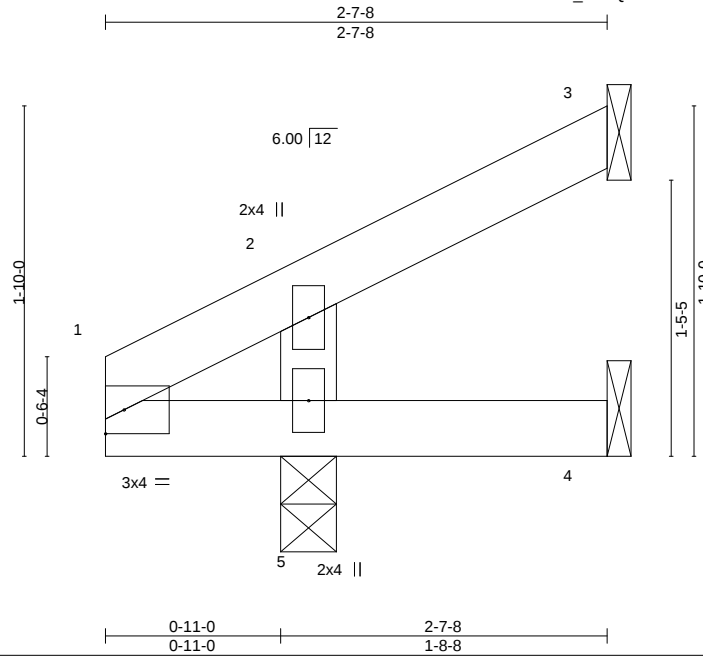
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716004
210136-R	JR2	Jack-Open	7	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:43 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-OluWwP7KwMBfyKorZcHW5lqmgBgFY2AH220vzP327

10/12/2021



LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) 0.00 5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	Vert(CT) 0.00 5 >999 180		
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: 9 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-3-8
Max Horz 5=58(LC 16)
Max Uplift 3=-31(LC 16), 4=-3(LC 16), 5=-3(LC 16)
Max Grav 3=44(LC 22), 4=17(LC 7), 5=246(LC 22)

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=6.0psf; h=19ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, 4.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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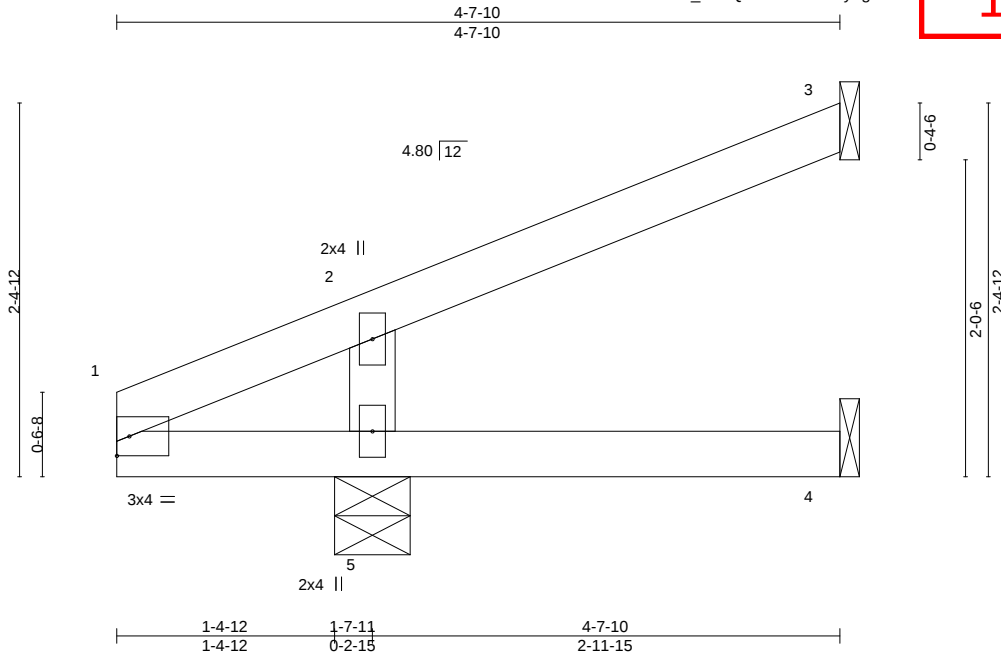
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	JR3	Jack-Open	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
Job Reference (optional)						LEE'S SUMMIT, MISSOURI

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:44 2021 Page 1
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10/12/2021



Scale = 1:14.8

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) 0.00 4-5 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.04	Vert(CT) -0.00 4-5 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.01 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 15 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 3=Mechanical, 4=Mechanical, 5=0-5-13
Max Horz 5=66(LC 16)
Max Uplift 3=-38(LC 16), 5=-5(LC 16)
Max Grav 3=106(LC 20), 4=42(LC 7), 5=419(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-325/196

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-0-0 to 4-2-15, Exterior(2R) 4-2-15 to 4-6-14 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 5. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	JR4	Jack-Closed Girder	1	1	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

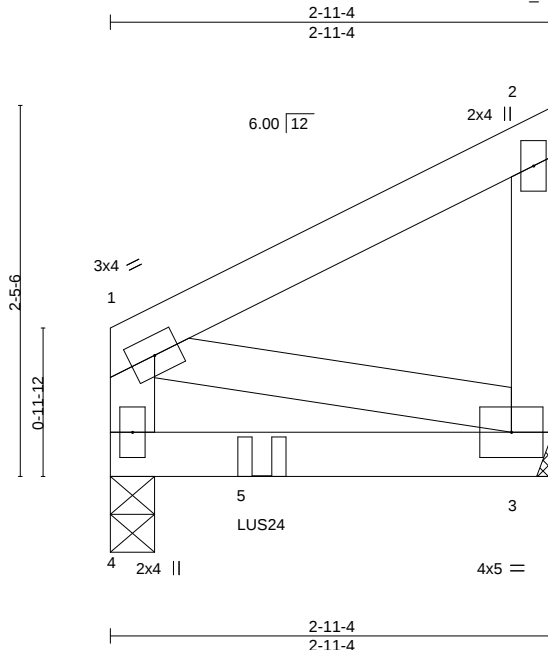
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:44 2021 Page 1

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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716006

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale = 1:15.2

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.02 3-4 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.01	Vert(CT) -0.04 3-4 >719 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 17 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-11-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=0-3-8, 3=Mechanical
Max Horz 4=42(LC 12)
Max Uplift 4=-12(LC 12), 3=-45(LC 12)
Max Grav 4=555(LC 5), 3=342(LC 16)

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=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 4. This connection is for uplift only and does not consider lateral forces.
- 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) Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 1-0-0 from the left end to connect truss(es) to front face of bottom chord.
- 11) Fill all nail holes where hanger is in contact with lumber.
- 12) 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=-66, 3-4=-20
Concentrated Loads (lb)
Vert: 5=-595(F)



April 20,2021

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

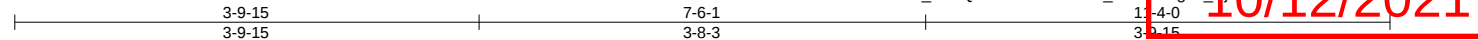


16023 Swingley Ridge Rd
Chesterfield, MO 63017

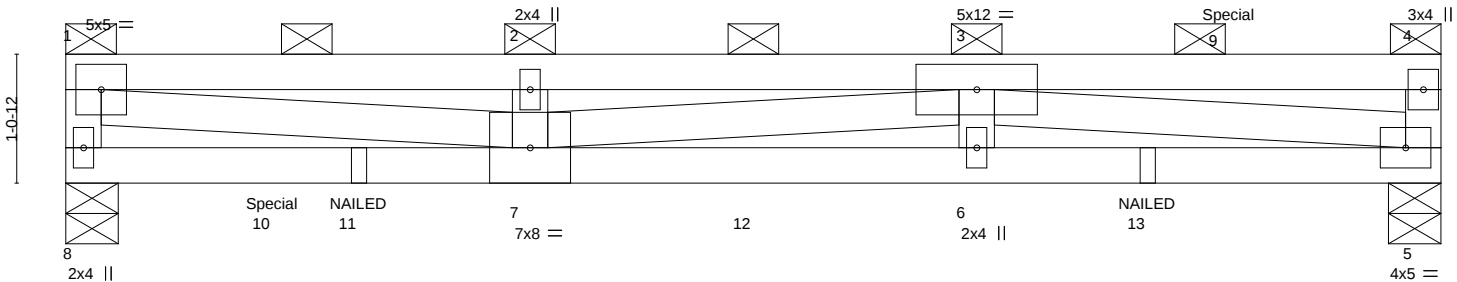
Job 210136-R	Truss L0	Truss Type Flat Girder	Qty 1	Ply 1	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/12/2021
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KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:45 2021 Page 1
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Scale = 1:19.0



3-9-15 3-9-15		7-6-1 3-8-3		11-4-0 3-9-15	
LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.94
TCDL	10.0	Rep Stress Incr	NO	WB	0.66
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S	
BCDL	10.0				
				DEFL.	
				in (loc)	l/defl
				Vert(LL)	-0.21 6-7 >645 240
				Vert(CT)	-0.28 6-7 >478 180
				Horz(CT)	0.03 5 n/a n/a
				PLATES	GRIP
				MT20	244/190
				Weight: 52 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD 2-0-0 oc purlins (3-4-14 max.): 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-0-7 oc bracing.

REACTIONS.

(size) 8=0-5-3, 5=0-5-3
Max Uplift 8=-406(LC 6), 5=-394(LC 6)
Max Grav 8=747(LC 1), 5=747(LC 1)

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

TOP CHORD 1-8=-694/348, 1-2=-2779/1453, 2-3=-2779/1453
BOT CHORD 6-7=-1441/2779, 5-6=-1441/2779
WEBS 1-7=-1351/2628, 3-6=-146/341, 3-5=-2629/1346

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=19ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 5. This connection is for uplift only and does not consider lateral forces.
- 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 skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 98 lb up at 9-7-1 on top chord, and 110 lb up at 1-8-7, 205 lb down and 150 lb up at 4-0-11, and 173 lb down and 140 lb up at 5-8-0, and 205 lb down and 150 lb up at 7-3-5 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 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: 1-4=-66, 5-8=-20
- Concentrated Loads (lb)
Vert: 7=-205 6=-205 9=20(B) 10=20(B) 11=1(B) 12=-173 13=1(B)



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	L1	Roof Special Girder	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urlich, MO), Urlich, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:49 2021 Page 1
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10/12/2021

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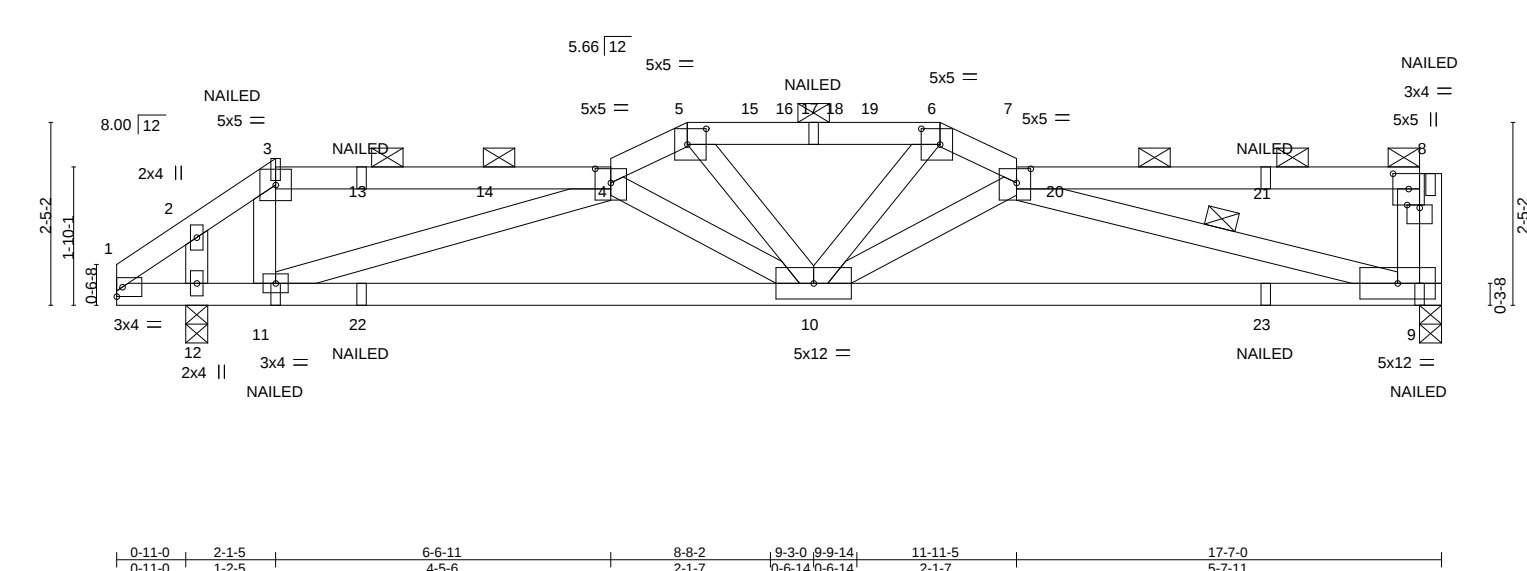


Plate Offsets (X,Y)-- [4:0-2-8,0-2-4], [5:0-3-0,0-2-8], [6:0-3-0,0-2-8], [7:0-2-4,0-2-4], [8:0-2-7,0-2-8], [8:0-2-0,0-0-7]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d			PLATES	GRIP		
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.76	Vert(LL)	-0.18	10-11	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.27	10-11	>723	180		
TCDL	10.0	Rep Stress Incr	NO	WB	1.00	Horz(CT)	0.06	9	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							Weight: 91 lb	FT = 20%
BCDL	10.0											

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

REACTIONS. (size) 9=0-3-8, 12=0-3-8
Max Horz 12=50(LC 112)
Max Uplift 9=-226(LC 9), 12=-176(LC 12)
Max Grav 9=1218(LC 40), 12=1209(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-800/115, 2-3=-945/125, 3-4=-681/108, 4-5=-2297/425, 5-6=-2512/421, 6-7=-2290/421, 8-9=-313/96
BOT CHORD 1-12=-88/712, 11-12=-106/712, 10-11=-517/2904, 9-10=-545/2885
WEBS 3-11=-12/379, 4-11=-2353/443, 4-10=-977/180, 5-10=-43/725, 6-10=-64/755, 7-9=-2842/557, 2-12=-397/43, 7-10=-977/205

- 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=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 12. This connection is for uplift only and does not consider lateral forces.
 - 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 skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 188 lb down and 73 lb up at 8-5-7, 146 lb down and 80 lb up at 8-11-0, and 146 lb down and 80 lb up at 9-7-0, and 188 lb down and 73 lb up at 10-0-9 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - 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
Continued on page 2



April 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L1	Roof Special Girder	1	1	
Job Reference (optional)					

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:49 2021 Page 2
ID:hi?rkPJ3rvL67kOtbcc_eRzQm8d-CSFnASB5VCxpFF?vsOVLtLEF1KkgS7DVHqszPBy

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/12/2021

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-66, 3-4=-66, 4-5=-66, 5-6=-66, 6-7=-66, 7-8=-66, 1-9=-20

Concentrated Loads (lb)

Vert: 8=-19(B) 9=1(B) 13=-0(B) 15=-179 16=-107 17=-23(B) 18=-107 19=-179 21=-0(B) 22=1(B) 23=1(B)

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	L2	Half Hip	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urlich, MO), Urlich, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:01 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-sm_jiZLdguS665AocObkq50cZ86DjVE7dDAPWFSzPhym
17-7-0 10/12/2021
5-0-0

Scale = 1:31.1

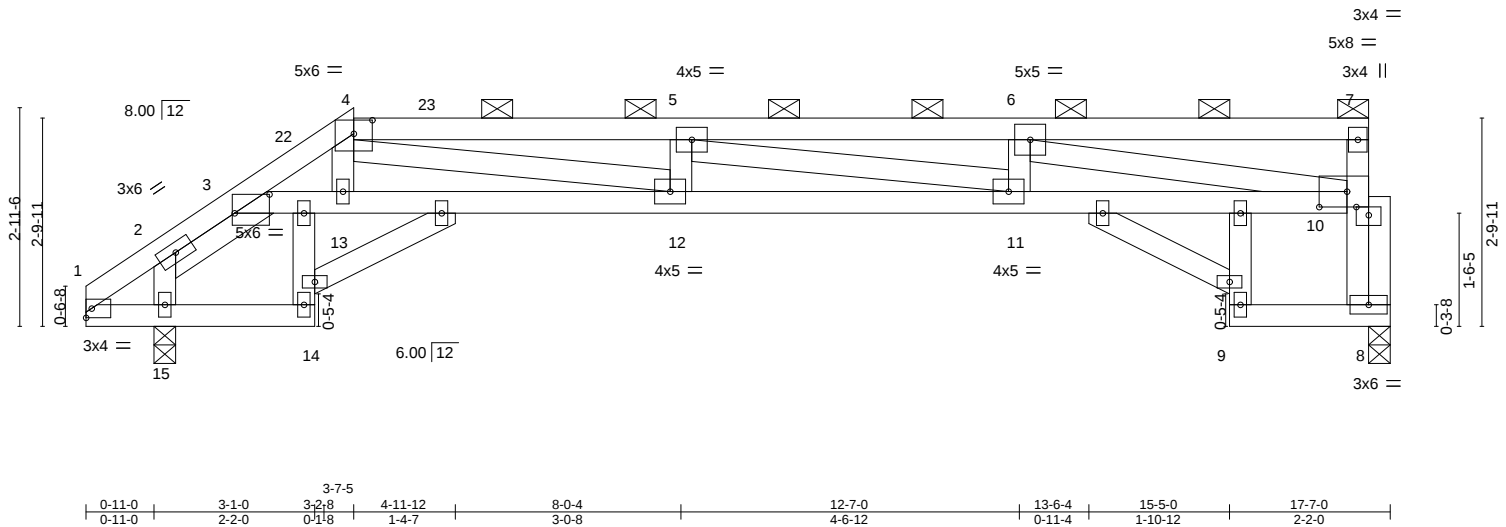


Plate Offsets (X,Y)-- [3:0-5-10,0-3-1], [4:0-3-0,0-2-3], [10:0-4-8,0-2-8], [10:0-2-0,0-1-5]													
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.82	Vert(LL)	-0.21	11-12	>947	240		MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.92	Vert(CT)	-0.39	11-12	>498	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.31	8	n/a	n/a			
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S								Weight: 99 lb	FT = 20%
BCDL	10.0												

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-8-1 oc purlins, except end verticals, and 2-0-0 oc purlins (3-1-1 max.): 4-7.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-11-11 oc bracing: 11-12.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		

REACTIONS.	(size) 8=0-3-8, 15=0-3-8
	Max Horz 15=81(LC 14)
	Max Uplift 8=-116(LC 11), 15=-67(LC 11)
	Max Grav 8=724(LC 1), 15=816(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-363/29, 3-4=-1844/294, 4-5=-2834/545, 5-6=-2415/465, 8-10=-687/139
BOT CHORD	3-13=-284/1667, 12-13=-285/1625, 11-12=-545/2834, 10-11=-465/2415
WEBS	4-13=0/315, 2-15=-718/124, 4-12=-266/1239, 5-11=-428/148, 6-10=-2249/455

- 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=6.0psf; 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 17-1-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 15. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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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	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	L3	Half Hip	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:11 2021 Page 1					ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-Zhb5ozSuKzihJdxDCUn4ECCW15boppp5WsgSzP3yn	145716010
3-1-0	5-1-5	9-0-5	13-1-1	13-2-12	15-3-8	17-2-6
3-1-0	2-0-5	3-11-0	4-0-12	0-1-11	2-0-12	2-3-8

Scale = 1:30.6

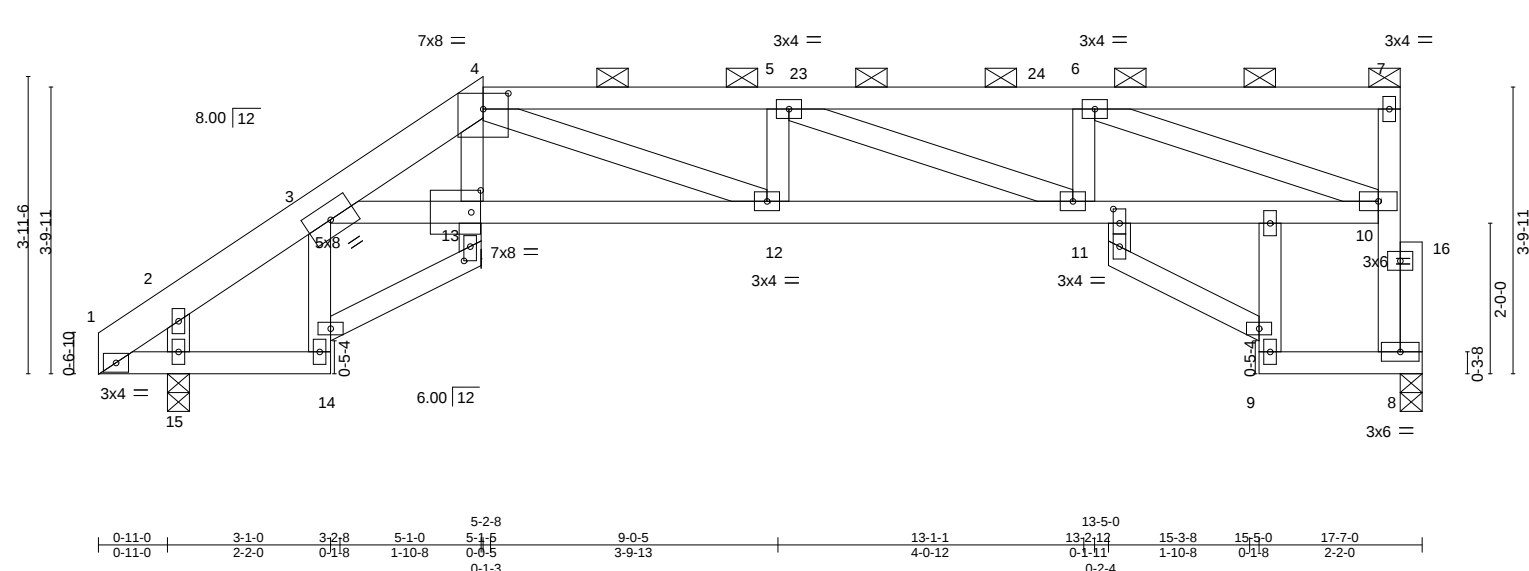


Plate Offsets (X,Y)--		[4:0-4-0,0-2-8], [13:0-1-8,0-3-8], [18:0-2-4,0-1-0], [19:0-2-4,0-1-0]	
LOADING (psf)		SPACING-	
TCLL (roof)	20.0	2-0-0	
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15
TCDL	10.0	Lumber DOL	1.15
BCLL	0.0 *	Rep Stress Incr	YES
BCDL	10.0	Code	IRC2018/TPI2014
		CSI.	
		TC	0.47
		BC	0.66
		WB	0.47
		Matrix-S	
		DEFL.	
		in (loc)	l/defl
		Vert(LL)	-0.12 12 >999 240
		Vert(CT)	-0.23 14 >834 180
		Horz(CT)	0.34 8 n/a n/a
		PLATES	
		MT20	244/190
		Weight: 106 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP 2400F 2.0E *Except*	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-2 max.): 4-7.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 9-6-6 oc bracing.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		

REACTIONS.		(size) 8=0-3-8, 15=0-3-8
		Max Horz 15=113(LC 14)
		Max Uplift 8=121(LC 11), 15=65(LC 11)
		Max Grav 8=719(LC 1), 15=795(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-326/7, 3-4=-1530/273, 4-5=-1904/385, 5-6=-1503/297, 8-10=-682/143
BOT CHORD	3-13=-288/1457, 12-13=-290/1442, 11-12=-384/1904, 10-11=-297/1503
WEBS	4-12=-102/519, 2-15=-692/124, 5-11=-428/111, 6-11=0/277, 6-10=-1461/306

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-3 to 3-1-0, Interior(1) 3-1-0 to 5-1-5, Exterior(2R) 5-1-5 to 9-4-4, Interior(1) 9-4-4 to 17-1-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 15. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

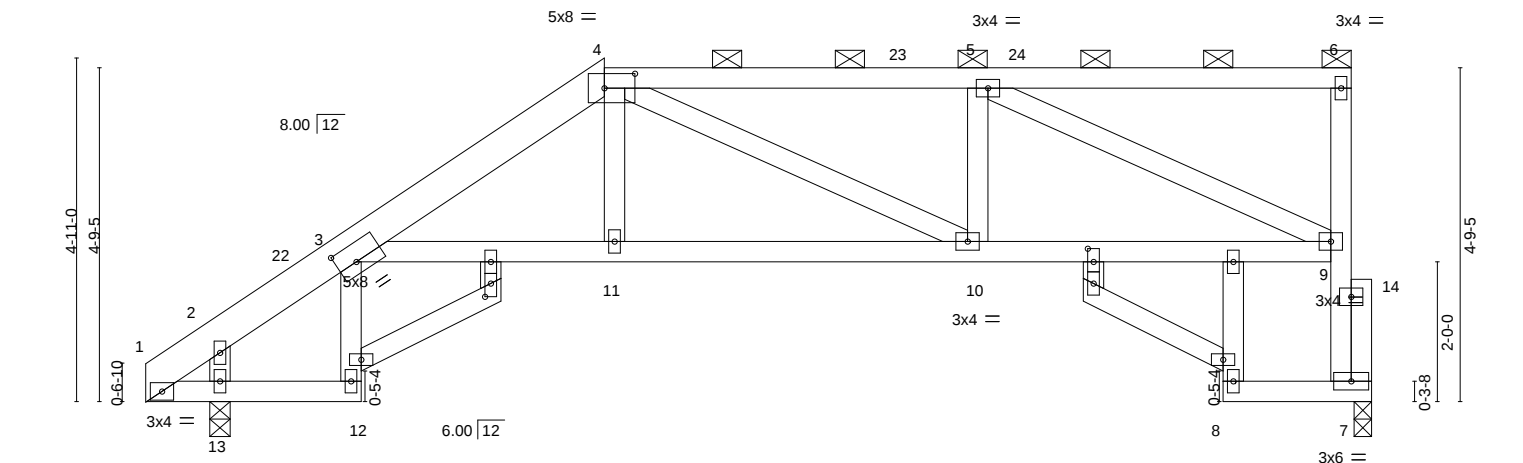
Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/12/2021
210136-R	L4	Half Hip	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:13 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-V4irDfU9sayP/x4cJvpYtdSJvHsGSQYdyYonZPByz

3-1-0	5-1-0	6-6-12	11-10-14	13-3-8	15-3-8
3-1-0	2-0-0	1-5-12	5-4-2	1-4-10	2-0-0

Scale = 1:33.0



0-11-0	3-1-0	3-2-8	5-1-0	5-2-8	6-6-12	11-10-14	13-3-8	13-5-0	15-3-8	15-5-0	17-6-8
0-11-0	2-2-0	0-1-8	1-10-8	0-1-8	1-4-4	5-4-2	1-4-10	0-1-8	1-10-8	0-1-8	2-1-8

Plate Offsets (X,Y)-- [3:0-3-4,0-3-0], [4:0-5-4,0-2-8], [16:0-2-4,0-1-0], [18:0-2-4,0-1-0]											
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.45	Vert(LL)	0.14	12	>999	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.25	12	>771		
TCDL	10.0	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.34	7	n/a		
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S							
BCDL	10.0									Weight: 108 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP 2400F 2.0E *Except* 4-6: 2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-3-6 max.): 4-6.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		

REACTIONS. (size) 7=0-3-0, 13=0-3-8
Max Horz 13=144(LC 14)
Max Uplift 7=118(LC 11), 13=52(LC 14)
Max Grav 7=717(LC 1), 13=794(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-335/0, 3-4=-1193/185, 4-5=-1091/214, 7-9=-680/140
BOT CHORD 3-11=-202/1073, 10-11=-199/1081, 9-10=-214/1091
WEBS 2-13=-691/112, 5-9=-1115/229

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-3 to 3-0-3, Interior(1) 3-0-3 to 6-6-12, Exterior(2R) 6-6-12 to 10-9-11, Interior(1) 10-9-11 to 17-1-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 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.
 - 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 13. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716012
210136-R	L5	Half Hip	1	1	Job Reference (optional)	

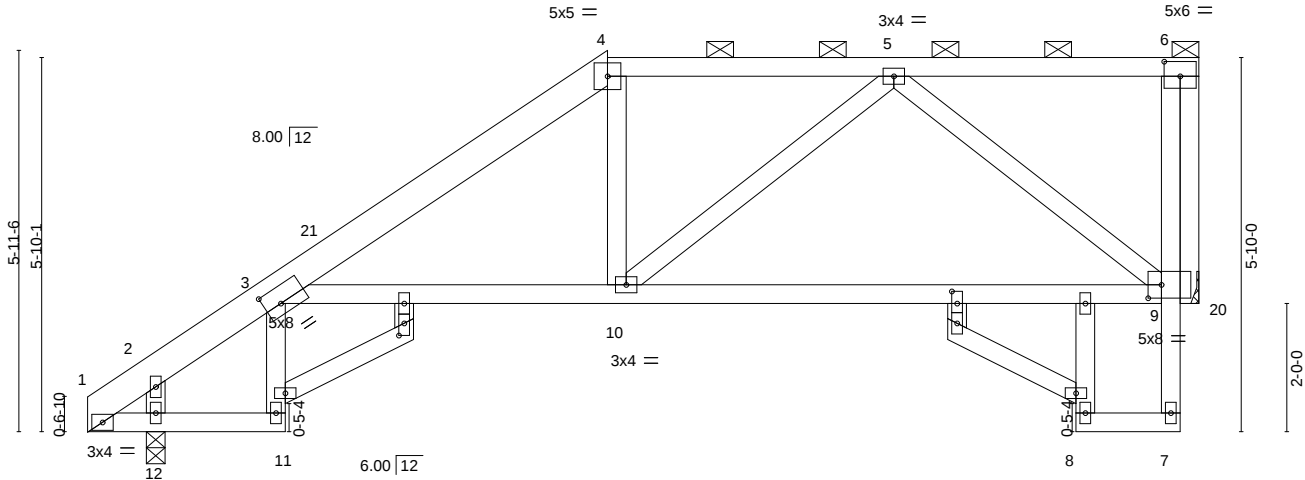
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:14 2021 Page 1
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10/12/2021

3-1-0	5-1-0	5-2-8	8-1-5	12-6-14	13-3-8	15-3-8	17-4-0
3-1-0	2-0-0	0-1-8	2-10-13	4-5-10	0-8-10	2-0-0	2-0-0

Scale = 1:35.9



0-11-0	3-1-0	3-2-8	5-1-0	5-2-8	8-1-5	13-3-8	13-5-0	15-3-8	15-5-0	17-4-0
0-11-0	2-2-0	0-1-8	1-10-8	0-1-8	2-10-13	5-2-3	0-1-8	1-10-8	0-1-8	1-11-0

Plate Offsets (X,Y)-- [3:0-3-0,0-3-0], [6:0-3-0,0-2-12], [9:0-2-8,0-2-8], [14:0-2-4,0-1-0], [16:0-2-4,0-1-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0		TC 0.50	Vert(LL)	0.18	11	>999	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL 1.15	BC 0.66	Vert(CT)	-0.34	9-10	>569		
TCDL	10.0	Lumber DOL 1.15	WB 0.40	Horz(CT)	0.29	20	n/a		
BCLL	0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL	10.0	Code IRC2018/TPI2014						Weight: 112 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP 2400F 2.0E *Except*
4-6: 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

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 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 12=0-3-8, 20=Mechanical
Max Horz 12=178(LC 14)
Max Uplift 12=42(LC 14), 20=-114(LC 11)
Max Grav 12=795(LC 1), 20=691(LC 1)

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

TOP CHORD 2-3=-335/0, 3-4=-1010/103, 4-5=-858/158, 6-9=-59/562
BOT CHORD 3-10=-163/856, 9-10=-152/653
WEBS 5-9=-720/196, 5-10=-47/299, 2-12=-692/99, 6-20=-695/115

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-0-3 to 3-0-3, Interior(1) 3-0-3 to 8-1-5, Exterior(2R) 8-1-5 to 12-6-14, Interior(1) 12-6-14 to 16-10-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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) except (jt=lb) 20=114.
- 9) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210136-R	Truss L6	Truss Type Half Hip	Qty 1	Ply 1	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/12/2021
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KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:15 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-SSqclVPNBD7EE?RKtCOZnNzizntf3R6GofmeZP3yY

3-1-0	5-1-0	5-2-8	9-7-5	13-2-2	13-3-8	15-3-8	17-4-0
3-1-0	2-0-0	0-1-8	4-4-13	3-6-14	0-1-6	2-0-0	2-0-8

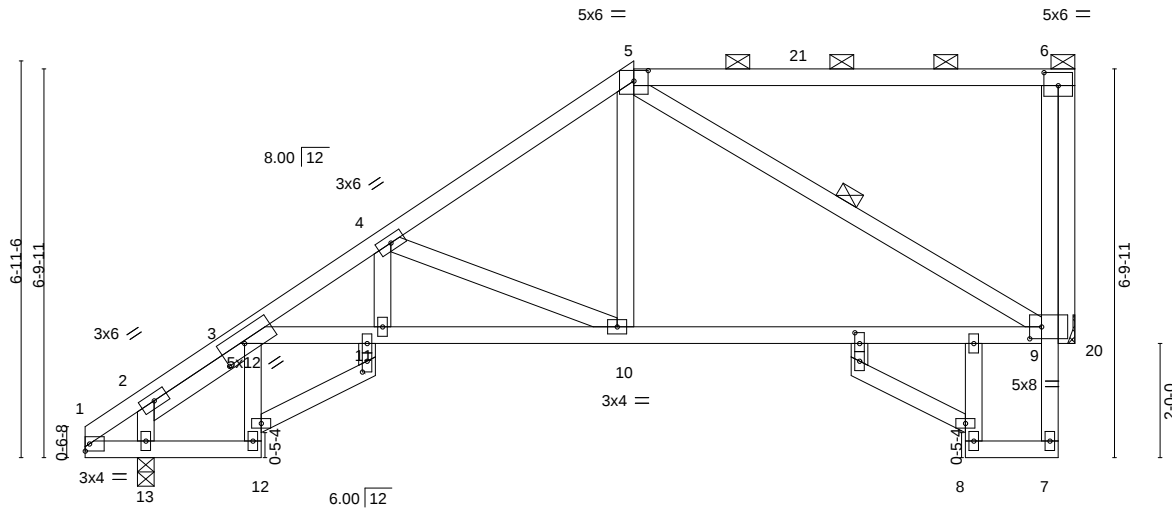


Plate Offsets (X,Y)--	[3:0-5-5,0-2-4], [5:0-3-0,0-2-3], [6:0-3-0,0-2-12], [9:0-2-8,0-2-8], [15:0-2-4,0-1-0], [16:0-2-4,0-1-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.61	Vert(LL) 0.21 12 >946 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.30	Vert(CT) -0.28 12 >684 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.27 20 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 117 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	1-5: 2x4 SP 2400F 2.0E
BOT CHORD	2x4 SP No.2 *Except*
	3-9: 2x4 SP 2400F 2.0E
WEBS	2x4 SP No.2
OTHERS	2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-10-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	1 Row at midpt 5-9

REACTIONS.

(size) 13=0-3-8, 20=Mechanical
Max Horz 13=209(LC 14)
Max Uplift 13=-27(LC 14), 20=-107(LC 11)
Max Grav 13=801(LC 1), 20=692(LC 1)

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

TOP CHORD	2-3=-358/0, 3-4=-1543/300, 4-5=-888/125, 6-9=-21/448
BOT CHORD	3-11=-422/1380, 10-11=-422/1380, 9-10=-135/664
WEBS	5-10=-21/478, 2-13=-702/82, 5-9=-663/145, 4-10=-781/309, 6-20=-695/108

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-0-0 to 2-8-9, Exterior(2E) 2-8-9 to 16-10-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 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
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 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.
- 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) 20=107.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L7	Half Hip	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716014

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:17 2021 Page 1

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10/12/2021

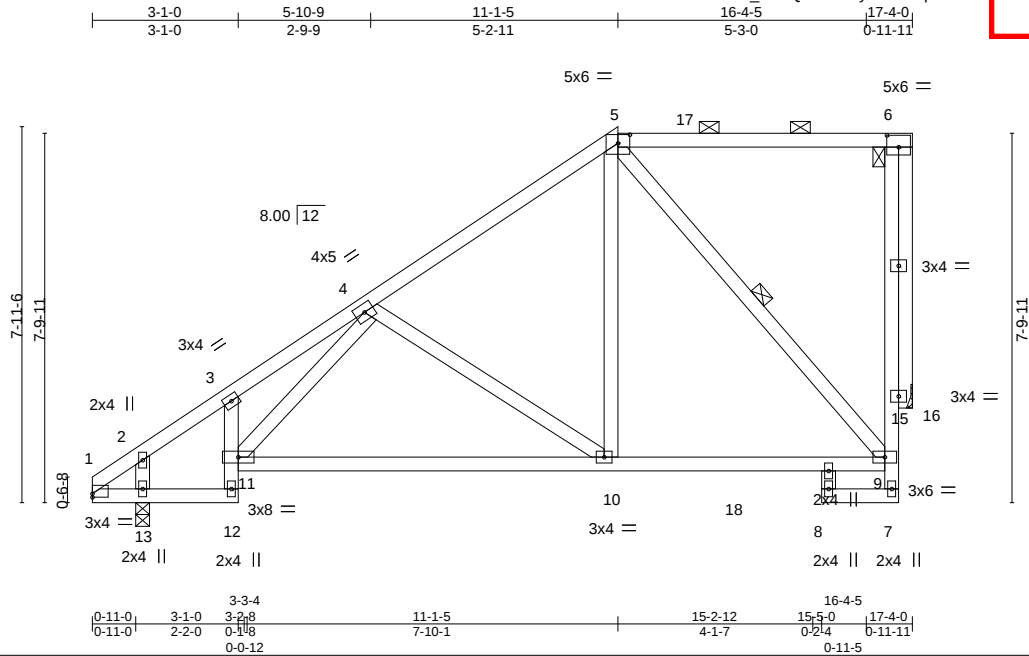


Plate Offsets (X,Y)-- [1:0-0-0,0-0-14], [5:0-3-0,0-2-3], [6:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.58	Vert(LL)	-0.12 10-11	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.86	Vert(CT)	-0.25 10-11	>765	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.35	Horz(CT)	0.05 16	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 118 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-12.
WEBS 1 Row at midpt 5-9

REACTIONS.

(size) 13=0-3-8, 16=Mechanical
Max Horz 13=241(LC 14)
Max Uplift 13=-17(LC 14), 16=-102(LC 14)
Max Grav 13=895(LC 20), 16=810(LC 20)

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

TOP CHORD 1-2=-457/0, 2-3=-751/53, 3-4=-1024/166, 4-5=-680/60, 9-15=-56/654, 6-15=-56/654
BOT CHORD 1-13=0/458, 12-13=-232/523, 10-11=-245/820, 9-10=-89/501
WEBS 5-10=-3/521, 5-9=-676/127, 4-10=-367/186, 2-13=-552/107, 6-16=-812/113

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-0-0 to 2-11-4, Exterior(2E) 2-11-4 to 16-10-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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.
- 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) 16=102.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	L8	ROOF SPECIAL	1	1		AS NOTED FOR PLAN REVIEW
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	DEVELOPMENT SERVICES
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:18 2021 Page 1					LEE'S SUMMIT, MISSOURI	145716015
ID:hi?rkPJ3nVL67kOtbcc_eRzQm8d-s1WkGNYHg6beiza6SPJm7hmvL9vM7fE1JjzzP3y						10/12/2021

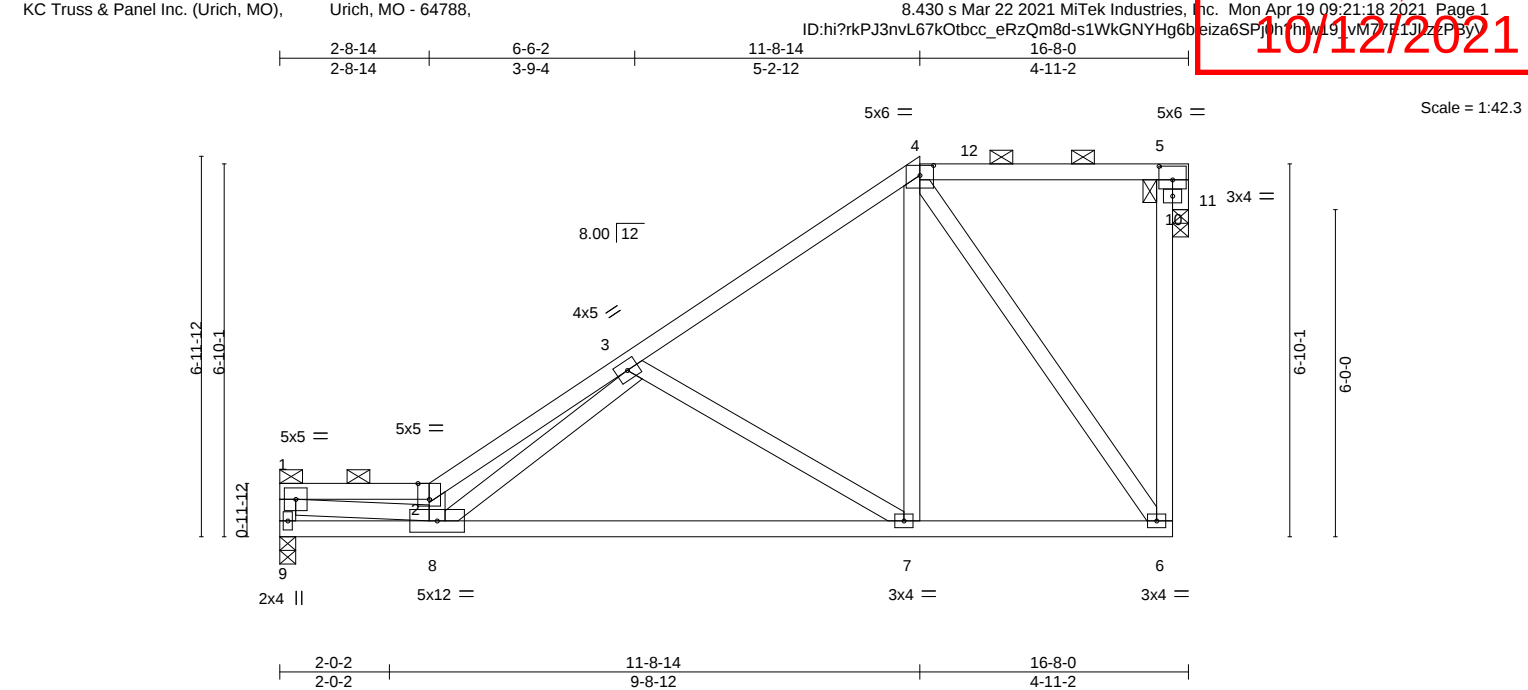


Plate Offsets (X,Y)--		[2:0-2-8,Edge], [4:0-3-0,0-2-3], [5:0-3-0,0-3-0]	
LOADING (psf)		SPACING-	
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0 *	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.60
		BC	0.49
		WB	0.71
		Matrix-S	
		DEFL.	
		Vert(LL)	-0.16 7-8 >999 240
		Vert(CT)	-0.37 7-8 >533 180
		Horz(CT)	-0.02 11 n/a n/a
		PLATES	
		MT20	244/190
		GRIP	
		Weight: 103 lb	FT = 20%

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

REACTIONS.	(size) 9=0-3-8, 11=0-3-8
	Max Horz 9=188(LC 14)
	Max Uplift 9=-25(LC 14), 11=-105(LC 14)
	Max Grav 9=706(LC 1), 11=681(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-9=-657/128, 1-2=-2280/317, 2-3=-2387/365, 3-4=-590/101, 6-10=-181/558, 5-10=-181/558
BOT CHORD	8-9=-322/252, 7-8=-404/897, 6-7=-143/394
WEBS	1-8=-279/2155, 2-8=-1434/293, 3-8=-169/1440, 3-7=-572/301, 4-7=-59/488, 4-6=-647/233, 5-11=-741/266

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 2-8-14, Exterior(2N) 2-8-14 to 11-8-14, Corner(3R) 11-8-14 to 14-8-14, Exterior(2N) 14-8-14 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 11. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L9	Roof Special Girder	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716016

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:19 2021 Page 1
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LEE'S SUMMIT, MISSOURI
10/12/2021

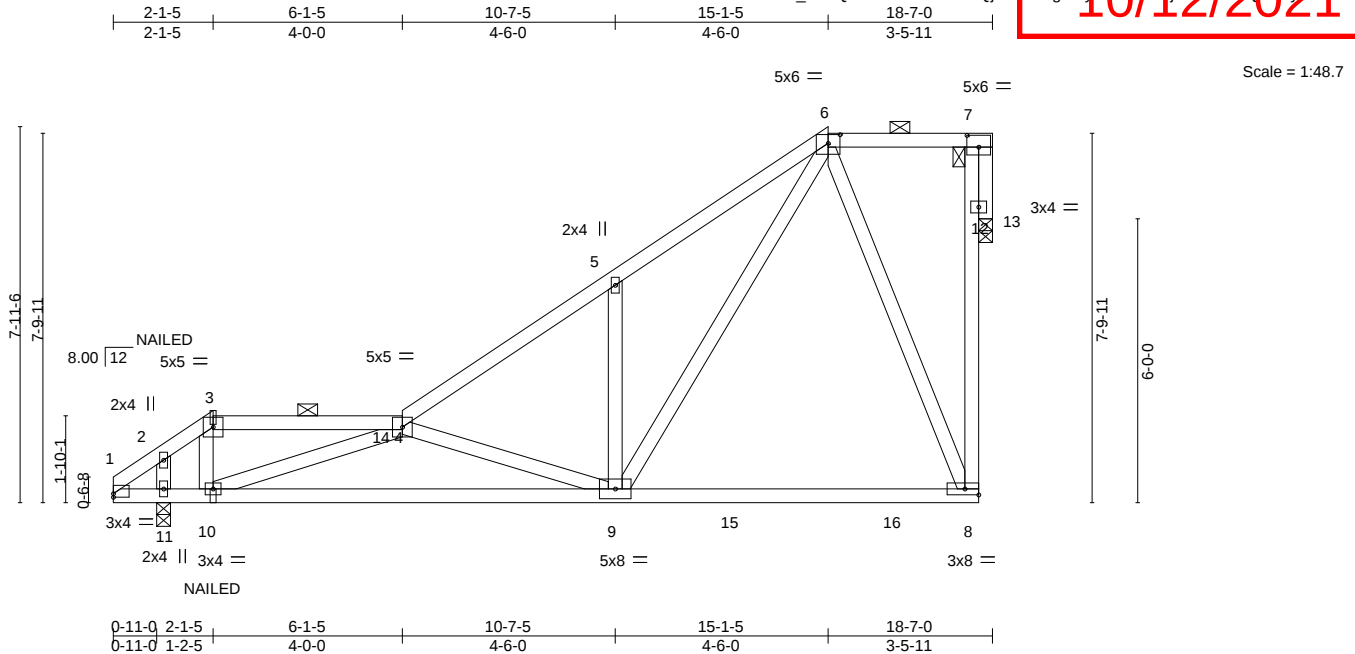


Plate Offsets (X,Y)-- [1:0-0-0,0-0-14], [6:0-3-0,0-2-3], [7:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.54	Vert(LL)	-0.14 8-9	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.74	Vert(CT)	-0.25 9-10	>832	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.82	Horz(CT)	0.04 13	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S						
BCDL 10.0	Code IRC2018/TP12014						Weight: 118 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 11=0-3-8, 13=0-3-8
Max Horz 11=241(LC 47)
Max Uplift 11=-27(LC 10), 13=-120(LC 10)
Max Grav 11=927(LC 51), 13=849(LC 51)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-567/0, 2-3=-747/0, 3-4=-488/7, 4-5=-1090/0, 5-6=-1130/112, 8-12=-102/804, 7-12=-102/804
BOT CHORD 1-11=0/512, 10-11=-189/577, 9-10=-246/1826, 8-9=-57/303
WEBS 3-10=0/418, 4-10=-1381/53, 4-9=-988/131, 5-9=-321/176, 6-9=-128/1158, 6-8=-718/148, 2-11=-362/0, 7-13=-861/121

- 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=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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) 13 considers parallel to grain value using ANSI/TP1 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 13. This connection is for uplift only and does not consider lateral forces.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 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 skew 45 to 135 degrees (0.148" x 3") 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



April 20,2021

Continued on page 2

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L9	Roof Special Girder	1	1	Job Reference (optional)

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:20 2021 Page 2
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-oQdVh2ZYCkrPu07yDtRB5642BjedS03QbXvQQszP3y7

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/12/2021

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-66, 3-4=-66, 4-6=-66, 6-7=-66, 1-8=-20

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L10	Roof Special	1	1	

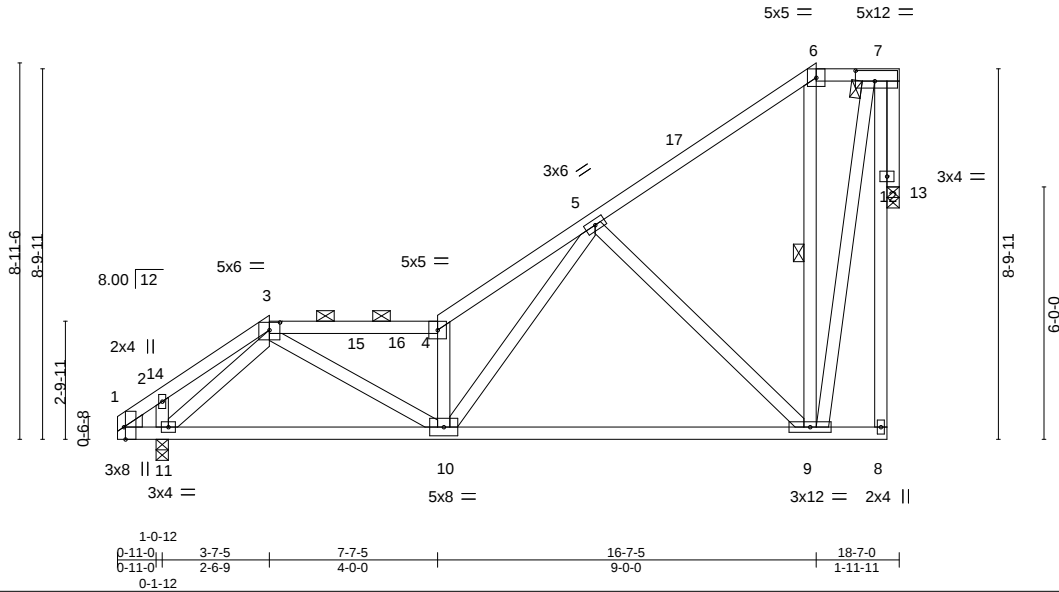
RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716017

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:50 2021 Page 1
ID:hi?rkPJ3nVL67kOtbcc_eRzQm8d-hep9OocJGW3gHPqBTav9nirzOUjRHTmFgmZPBy

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale = 1:54.8

Plate Offsets (X,Y)-- [1:0-3-8,Edge], [3:0-3-0,0-2-3], [7:0-5-8,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.35	Vert(LL)	-0.11 9-10	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.41	Vert(CT)	-0.23 9-10	>892	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.58	Horz(CT)	0.06 13	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 136 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-14 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-7 max.): 3-4, 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 6-9

REACTIONS.

(size) 11=0-3-8, 13=0-3-8
Max Horz 11=273(LC 14)
Max Uplift 11=-12(LC 14), 13=-135(LC 14)
Max Grav 11=843(LC 1), 13=721(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1239/0, 4-5=-1477/22, 5-6=-311/0
BOT CHORD 10-11=-261/637, 9-10=-150/624
WEBS 3-11=-805/23, 3-10=0/701, 4-10=-1002/80, 5-10=-39/967, 5-9=-640/170, 7-9=-143/795, 7-13=-725/158

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=6.0psf; 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 3-7-5, Exterior(2R) 3-7-5 to 6-7-5, Interior(1) 6-7-5 to 16-7-5, Exterior(2E) 16-7-5 to 18-1-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11 and 13. This connection is for uplift only and does not consider lateral forces.
- This truss is 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L11	Roof Special	1	1	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:51 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-9rNXb8DM1qBXvYPN1HQOQIN6pLmAgY9wX_Ou1zP3wv

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716018

LEE'S SUMMIT, MISSOURI

10/12/2021

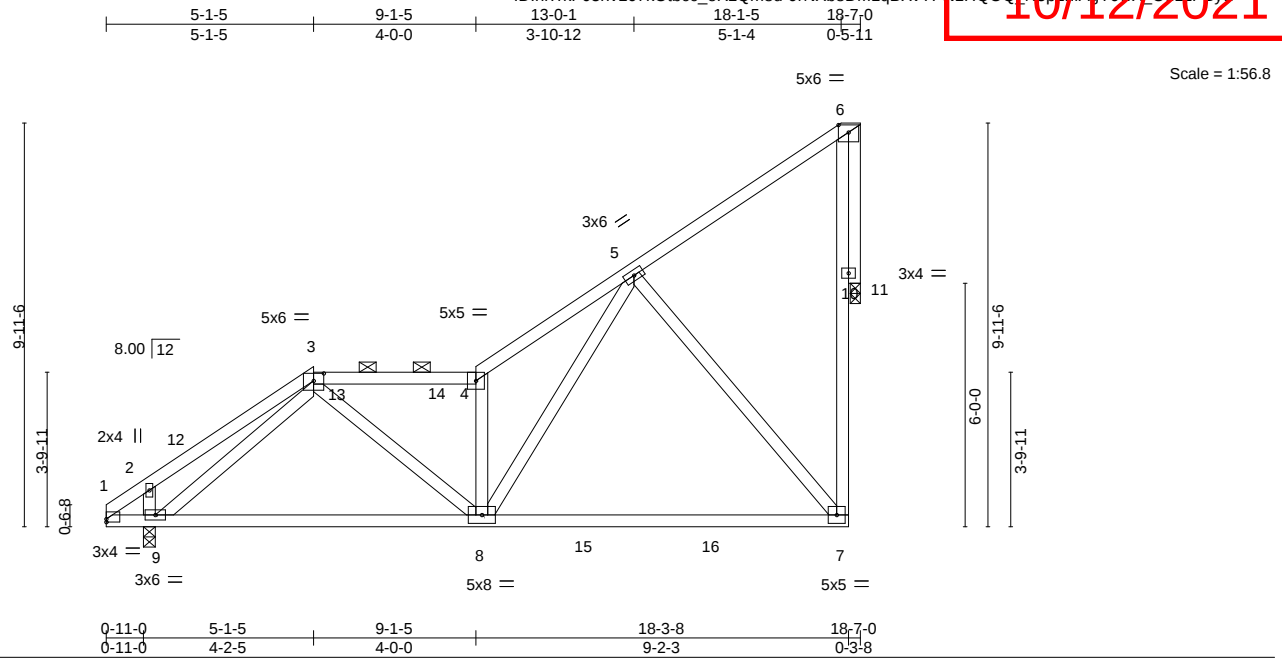


Plate Offsets (X,Y)-- [1:0-0-0,0-0-14], [3:0-3-0,0-2-3]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.52	Vert(LL) -0.25	7-8	>823	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.63	Vert(CT) -0.41	7-8	>504	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.85	Horz(CT) 0.15	11	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 123 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins, except end verticals, and 2-0-0 oc purlins (5-5-12 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 9=0-3-8, 11=0-3-0
Max Horz 9=310(LC 14)
Max Uplift 11=-153(LC 14)
Max Grav 9=944(LC 20), 11=853(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1052/0, 4-5=-1279/0, 7-10=-89/739, 6-10=-89/739
BOT CHORD 8-9=-247/722, 7-8=-115/521
WEBS 3-8=0/516, 4-8=-871/55, 5-7=-752/172, 5-8=-36/1057, 3-9=-739/0, 6-11=-857/159

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=6ft; 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 5-1-5, Exterior(2R) 5-1-5 to 8-1-5, Interior(1) 8-1-5 to 18-1-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716020
210136-R	L13	Roof Special	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:53 2021 Page 1

ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-5DVI0pEcZRRFbsZm8iSsvfT0mrXekfRnrtVwzPByt

10/12/2021

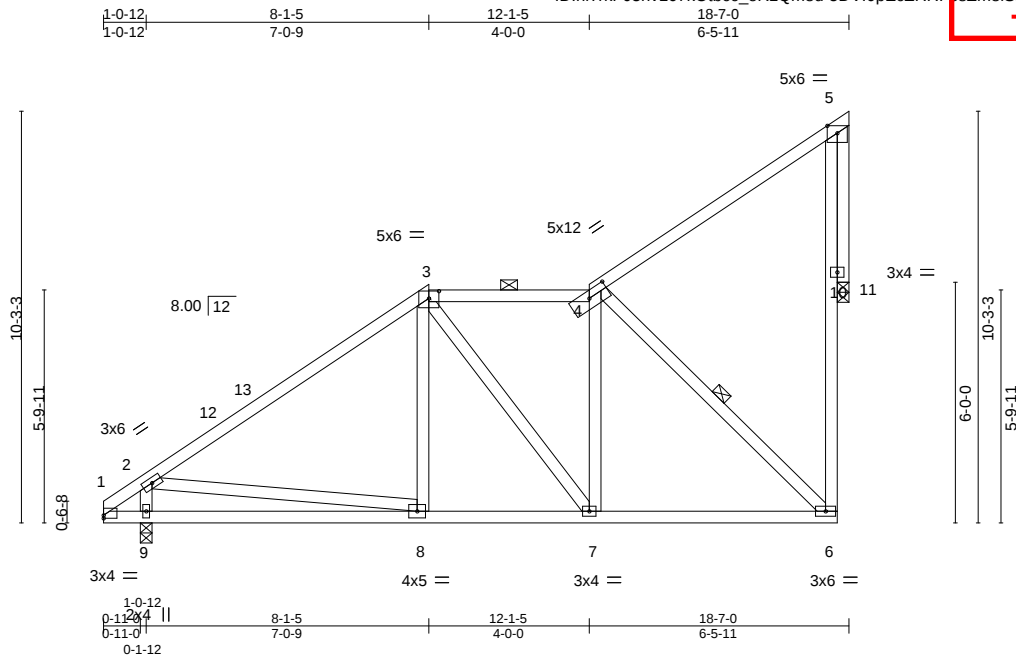


Plate Offsets (X,Y)-- [1:0-0-0,0-0-14], [3:0-3-0,0-2-3], [4:0-6-0,0-2-2]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0		TC 0.68	Vert(LL)	-0.04	8-9	>999	MT20	244/190
Snow (Pf/Pg)	23.1/30.0		BC 0.27	Vert(CT)	-0.09	8-9	>999		
TCDL	10.0		WB 0.23	Horz(CT)	0.21	11	n/a		
BCLL	0.0 *		Matrix-S						
BCDL	10.0							Weight: 128 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-5-3 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 9-11-9 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS.

(size) 9=0-3-8, 11=0-3-8
Max Horz 9=310(LC 14)
Max Uplift 11=-154(LC 14)
Max Grav 9=843(LC 1), 11=721(LC 1)

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

TOP CHORD 1-2=-282/20, 2-3=-848/0, 3-4=-561/0, 6-10=-58/553, 5-10=-58/553
BOT CHORD 1-9=-91/355, 8-9=-393/434, 7-8=-169/587, 6-7=-102/565
WEBS 2-9=-728/136, 2-8=-2/265, 4-6=-721/125, 5-11=-724/155

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 8-1-5, Exterior(2E) 8-1-5 to 12-1-5, Interior(1) 12-1-5 to 18-1-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L14	Roof Special	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716021

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:54 2021 Page 1

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Job Reference (optional)

LEE'S SUMMIT, MISSOURI

10/12/2021

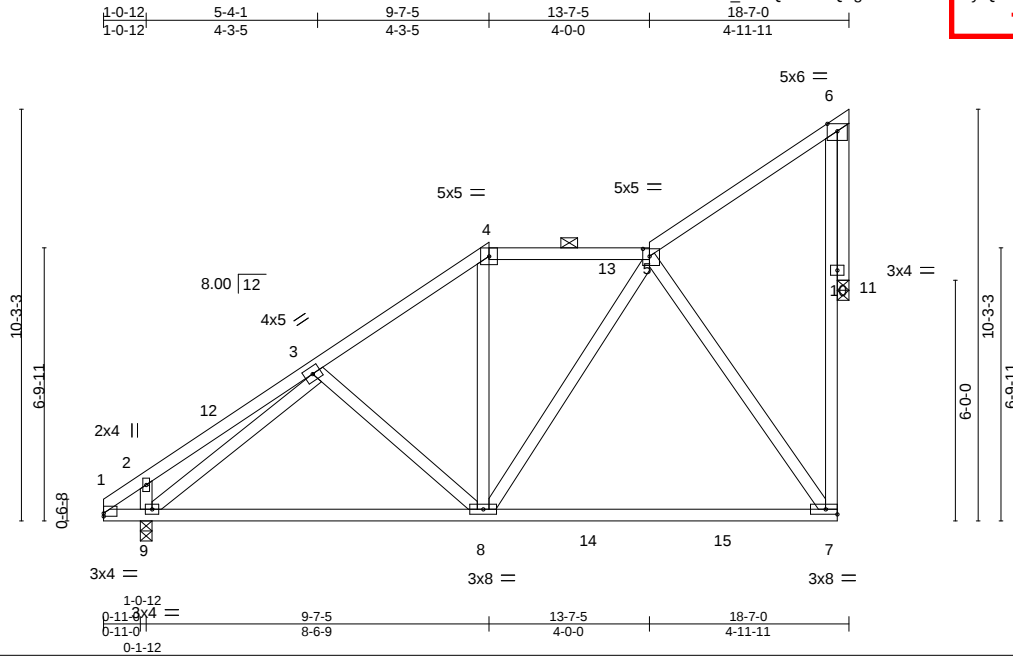


Plate Offsets (X,Y)-- [1:0-0-0,0-0-14], [5:0-2-0,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.50	Vert(LL) -0.23	7-8	>918	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.61	Vert(CT) -0.36	7-8	>583	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.80	Horz(CT) 0.15	11	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 128 lb	FT = 20%

LUMBER-

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

BRACING-

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 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 9=0-3-8, 11=0-3-8
Max Horz 9=310(LC 14)
Max Uplift 11=-154(LC 14)
Max Grav 9=939(LC 20), 11=862(LC 20)

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

TOP CHORD 2-3=-306/48, 3-4=-796/5, 4-5=-613/45, 7-10=-83/749, 6-10=-83/749
BOT CHORD 8-9=-246/766, 7-8=-91/448
WEBS 3-9=-666/0, 5-8=-86/359, 5-7=-720/152, 6-11=-865/154

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 9-7-5, Exterior(2E) 9-7-5 to 13-7-5, Interior(1) 13-7-5 to 18-1-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L16	Roof Special	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716023

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

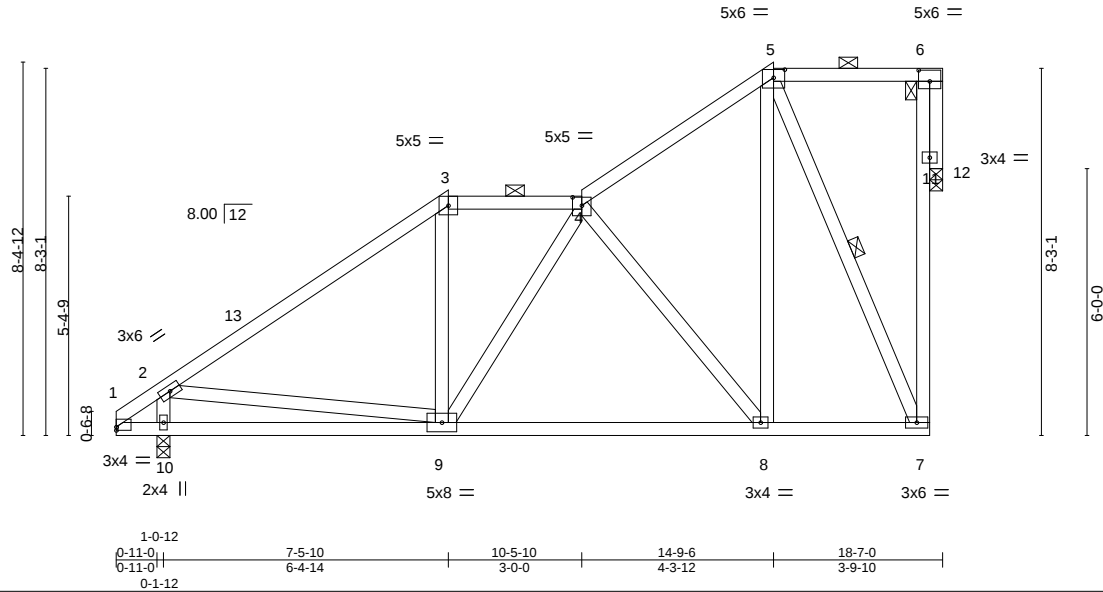
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:56 2021 Page 1

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Job Reference (optional)

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale = 1:51.8

Plate Offsets (X,Y)-- [1:0-0-0,0-0-14], [4:0-2-8,0-2-4], [5:0-3-0,0-2-3], [6:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.55	Vert(LL) -0.06	8-9	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.32	Vert(CT) -0.13	8-9	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.40	Horz(CT) 0.09	12	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014							
							Weight: 132 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-11-5 oc bracing: 9-10.
WEBS 1 Row at midpt 5-7

REACTIONS.

(size) 10=0-3-8, 12=0-3-8
Max Horz 10=256(LC 14)
Max Uplift 10=-20(LC 14), 12=-126(LC 14)
Max Grav 10=843(LC 1), 12=721(LC 1)

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

TOP CHORD 2-3=-869/129, 3-4=-615/180, 4-5=-427/70, 7-11=-229/643, 6-11=-229/643
BOT CHORD 1-10=-123/270, 9-10=-494/379, 8-9=-272/620, 7-8=-107/283
WEBS 2-10=-760/274, 2-9=0/352, 4-8=-522/259, 5-8=-118/515, 5-7=-665/251, 6-12=-728/268

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=6.0psf; 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 7-5-10, Corner(3E) 7-5-10 to 10-5-10, Exterior(2N) 10-5-10 to 14-9-6, Corner(3R) 14-9-6 to 17-9-6, Exterior(2N) 17-9-6 to 18-1-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 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
- 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) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 12. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716024
210136-R	L17	Roof Special	1	1	Job Reference (optional)	

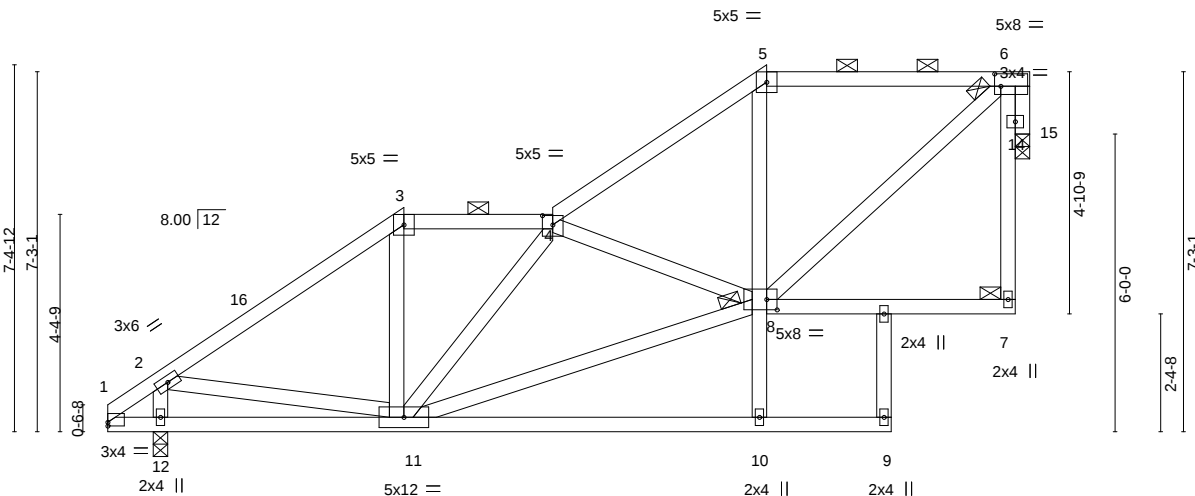
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:57 2021 Page 1
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10/12/2021

5-11-10 8-11-10 13-3-6 15-9-8 18-7-0
5-11-10 3-0-0 4-3-12 2-6-2 2-9-8

Scale = 1:46.4



0-11-0 5-11-10 8-11-10 13-3-6 15-9-8 15-11-0 18-7-0
0-11-0 5-0-10 3-0-0 4-3-12 2-6-2 0-1-8 2-8-0

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.49	Vert(LL)	-0.06	10-11	>999	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.32	Vert(CT)	-0.12	10-11	>999		
TCDL 10.0	Lumber DOL 1.15	WB 0.41	Horz(CT)	0.05	15	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 131 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-11 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6.
BOT CHORD Rigid ceiling directly applied or 9-5-14 oc bracing.
JOINTS 1 Brace at Jt(s): 6, 7, 8

REACTIONS.

(size) 12=0-3-8, 15=0-3-8
Max Horz 12=223(LC 14)
Max Uplift 12=-27(LC 14), 15=-96(LC 11)
Max Grav 12=854(LC 1), 15=760(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-902/156, 3-4=-680/181, 4-5=-841/182, 5-6=-645/206
BOT CHORD 11-12=-382/255
WEBS 3-11=0/251, 4-11=-600/165, 6-8=-258/795, 2-12=-776/239, 2-11=0/538, 8-11=-423/1056, 4-8=-409/213, 6-15=-793/232

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=6.0psf; 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 5-11-10, Corner(3E) 5-11-10 to 8-11-10, Exterior(2N) 8-11-10 to 13-3-6, Corner(3R) 13-3-6 to 16-3-6, Exterior(2N) 16-3-6 to 18-1-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 15. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L18	Roof Special	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716025

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

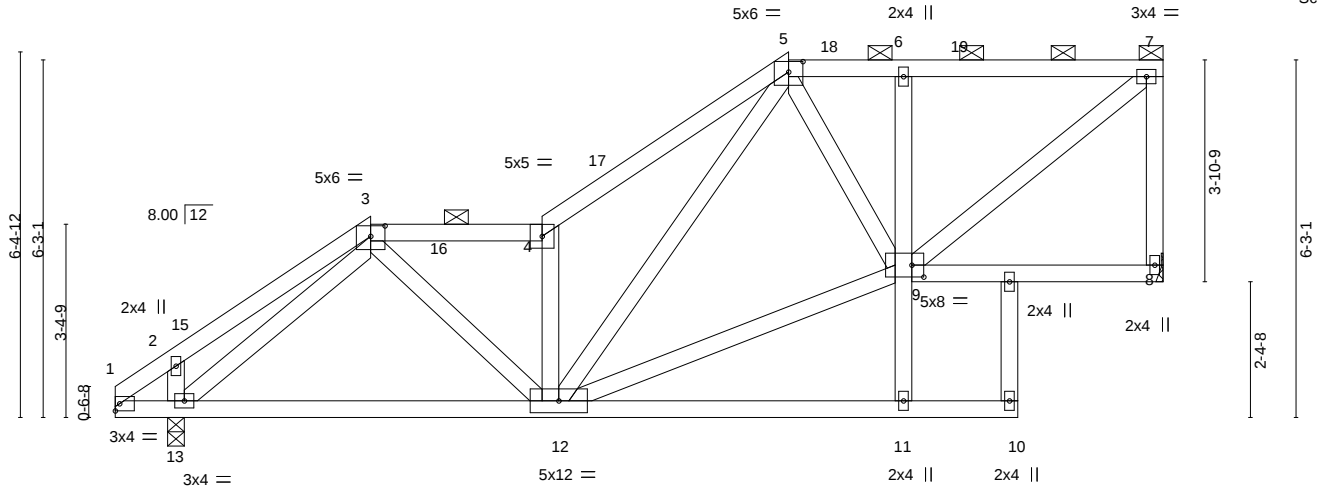
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:20:58 2021 Page 1
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LEE'S SUMMIT, MISSOURI

10/12/2021

4-5-10 7-5-10 11-9-6 13-9-8 18-4-0
4-5-10 3-0-0 4-3-12 2-0-2 4-6-8

Scale = 1:40.3



0-11-0 7-5-10 13-9-8 15-9-8 18-4-0
0-11-0 6-6-10 6-3-14 2-0-0 2-6-8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.32	Vert(LL)	-0.04 12-13	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.37	Vert(CT)	-0.09 12-13	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.26	Horz(CT)	0.01 8	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 128 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-6 oc purlins, except end verticals, and 2-0-0 oc purlins (5-9-8 max.): 3-4, 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=Mechanical, 13=0-3-8
Max Horz 13=191(LC 14)
Max Uplift 8=-106(LC 11), 13=-40(LC 14)
Max Grav 8=765(LC 1), 13=840(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1011/79, 4-5=-1185/151, 5-6=-717/109, 6-7=-706/105, 7-8=-717/133
BOT CHORD 12-13=-207/643
WEBS 3-12=0/499, 4-12=-845/160, 5-12=-56/444, 9-12=-149/714, 6-9=-255/120, 7-9=-136/900, 3-13=-712/28

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=6.0psf; 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 4-5-10, Exterior(2E) 4-5-10 to 7-5-10, Interior(1) 7-5-10 to 11-9-6, Exterior(2R) 11-9-6 to 14-9-6, Interior(1) 14-9-6 to 18-2-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 8=106.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	L20	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:02 2021 Page 1
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1-5-10	4-5-10	8-9-6	13-11-0	15-5-14	15-11-0	18-4-0
1-5-10	3-0-0	4-3-12	5-1-10	1-6-14	0-5-2	2-5-0

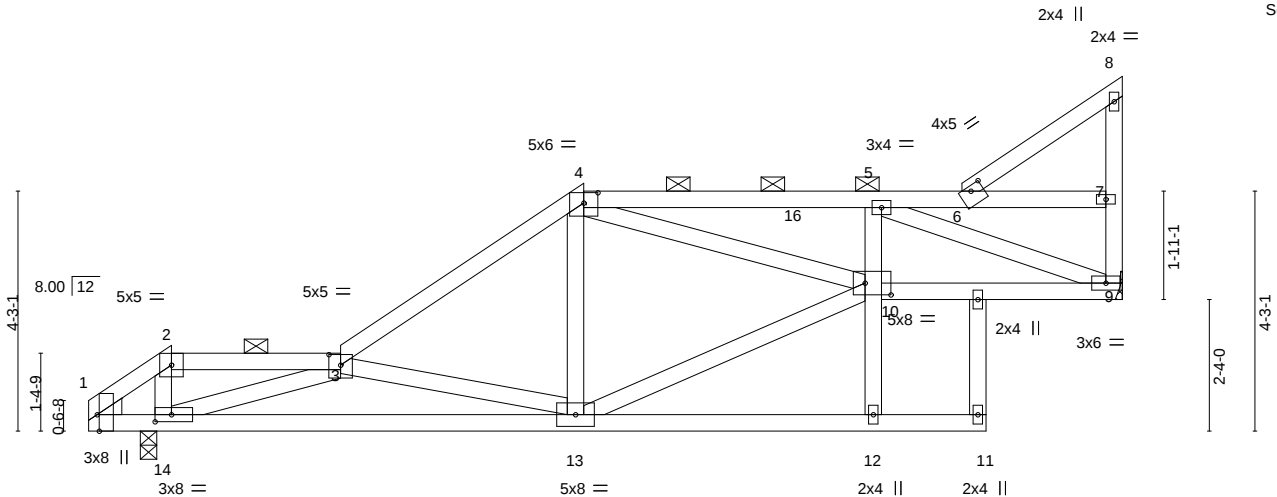


Plate Offsets (X,Y)--	[1:0-3-8,Edge], [3:0-2-8,0-2-4], [4:0-3-0,0-2-3], [6:0-2-8,0-1-1], [10:0-5-8,0-1-8], [14:0-3-8,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.44	Vert(LL) -0.07	13-14	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.15	13-14	>999	180		
TCDL 10.0	Rep Stress Incr YES	WB 0.59	Horz(CT) 0.04	9	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-S						
BCDL 10.0							Weight: 118 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-3-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-1-2 max.): 2-3, 4-7.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-10-5 oc bracing.
WEBS 2x4 SP No.2	
WEDGE	
Left: 2x4 SP No.2	

REACTIONS. (size) 9=Mechanical, 14=0-3-8
Max Horz 14=188(LC 14)
Max Uplift 9=-81(LC 14), 14=-42(LC 14)
Max Grav 9=755(LC 1), 14=853(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-1021/155, 4-5=-1574/319
BOT CHORD 13-14=-559/1560, 9-10=-412/1607
WEBS 3-14=-1610/384, 3-13=-784/303, 5-9=-1655/440, 5-10=-7/340, 10-13=-291/857, 4-10=-139/806

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-0 to 4-5-10, Exterior(2N) 4-5-10 to 8-9-6, Corner(3R) 8-9-6 to 11-9-6, Exterior(2N) 11-9-6 to 18-2-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) 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) 9, 14.
 - 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.



April 20,2021

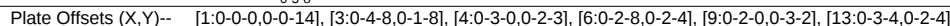
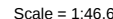
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

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BRACING-	
TOP CHORD	Structural wood sheathing directly applied or 4-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-7-8 max.): 4-6.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

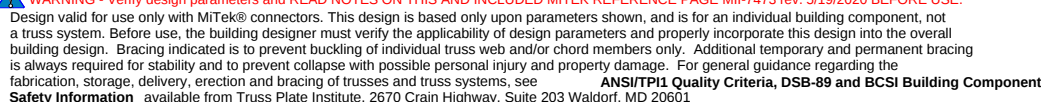
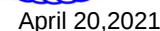
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-1179/320, 3-4=-1306/210, 4-5=-1053/128, 5-6=-1053/128, 8-18=-64/614,
7-18=-64/614

BOT CHORD 12-13=-254/66, 11-12=-538/1102, 10-11=-300/1046, 9-10=-294/1028, 8-9=-134/747

WEBS 2-13=-711/196, 4-10=-119/386, 6-8=-878/163, 6-9=-74/409, 3-12=-525/130,
2-12=-262/1078, 7-19=-706/122

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=6.0psf; 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 17-10-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) 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) 19=121.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- 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.



Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L22	Roof Special	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716029

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:06 2021 Page 1

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LEE'S SUMMIT, MISSOURI
10/12/2021

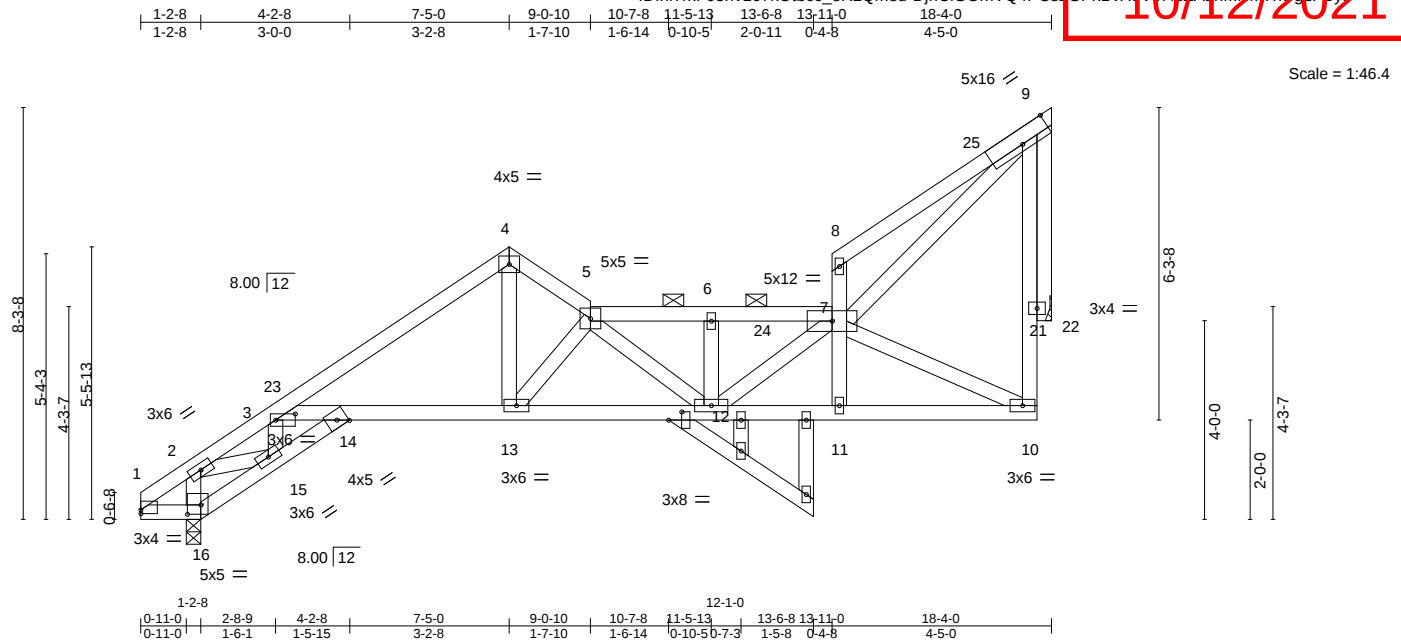


Plate Offsets (X,Y)-- [1:0-0-0,0-0-14], [3:0-4-12,0-1-8], [9:0-7-7,Edge], [12:0-2-0,0-3-2], [16:0-3-4,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.54	Vert(LL)	0.18 13-14	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.73	Vert(CT)	-0.28 13-14	>725	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.38	Horz(CT)	0.19 22	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 125 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-10: 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-9 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-15 max.): 5-7, 7-11.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 10-0-0 oc bracing: 11-12

REACTIONS.

(size) 16=0-3-8, 22=Mechanical
Max Horz 16=246(LC 14)
Max Uplift 16=-24(LC 14), 22=-121(LC 14)
Max Grav 16=843(LC 1), 22=700(LC 1)

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

TOP CHORD 2-3=-1183/562, 3-4=-1272/413, 4-5=-1221/441, 5-6=-1477/322, 6-7=-1475/321,
10-21=-127/611, 9-21=-127/611
BOT CHORD 15-16=-293/79, 14-15=-811/1140, 13-14=-485/1012, 12-13=-606/1544, 11-12=-310/1174,
10-11=-295/1134
WEBS 2-16=-715/344, 7-10=-1211/304, 3-15=-523/231, 2-15=-473/1080, 4-13=-312/1060,
5-13=-850/192, 7-12=-187/380, 9-22=-704/266

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 7-5-0, Corner(3E) 7-5-0 to 9-0-10, Exterior(2N) 9-0-10 to 14-0-12, Corner(3E) 14-0-12 to 17-0-12, Exterior(2N) 17-0-12 to 17-10-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
- All plates are 2x4 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.
- 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) 22=121.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	L23	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:07 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-hwLaycPOGkCFqdSzei83v2qXU9m3qVocSE6zP3yn

10/12/2021

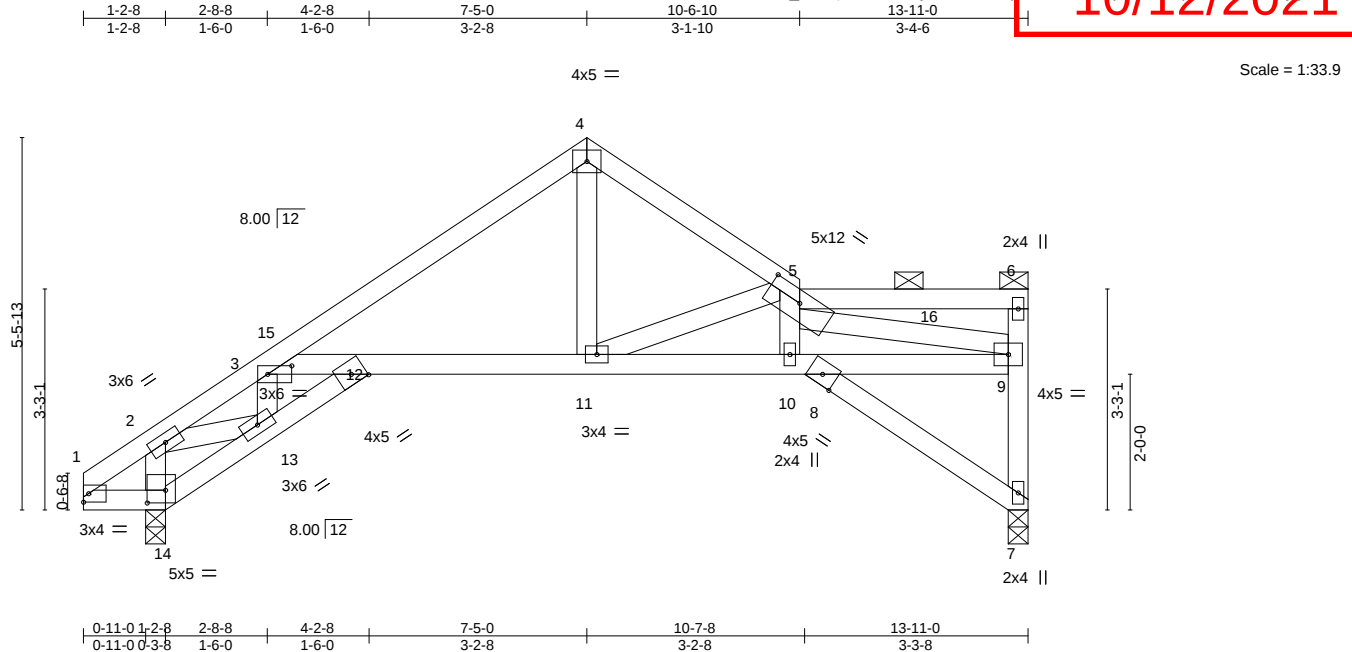


Plate Offsets (X,Y)--		[3:0-4-4,0-1-8], [5:0-6-0,0-2-2], [14:0-3-4,0-2-4]			
LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.54
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.92
TCDL	10.0	Rep Stress Incr	NO	WB	0.25
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S	
BCDL	10.0				
				DEFL.	
				in (loc)	
				Vert(LL)	0.12 11-12 >999 240
				Vert(CT)	-0.22 11-12 >688 180
				Horz(CT)	0.21 7 n/a n/a
				PLATES	GRIP
				MT20	244/190
				Weight: 77 lb	FT = 20%

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

REACTIONS.	(size) 7=0-3-8, 14=0-3-8
	Max Horz 14=95(LC 14)
	Max Uplift 7=64(LC 14), 14=50(LC 14)
	Max Grav 7=566(LC 1), 14=651(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-849/439, 3-4=-809/339, 4-5=-793/351, 7-9=-526/222
BOT CHORD	12-13=-488/796, 11-12=-220/622, 10-11=-463/1210, 8-10=-481/1224, 8-9=-485/1223
WEBS	2-14=-541/286, 2-13=-366/790, 3-13=-361/190, 4-11=-190/541, 5-11=-615/255, 5-9=-1167/452

- 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=6.0psf; 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 7-5-0, Corner(3E) 7-5-0 to 10-6-10, Exterior(2N) 10-6-10 to 13-9-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 14. This connection is for uplift only and does not consider lateral forces.
 - 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.

LOAD CASE(S)	Standard
1) Dead + Snow (balanced):	Lumber Increase=1.15, Plate Increase=1.15

Continued on page 2



April 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L23	Roof Special	1	1	

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788, 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:07 2021 Page 2
 ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-hwLaycPOGkCFqdSzei83v12qxU9m3qVn0cSE6zP3yo

RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

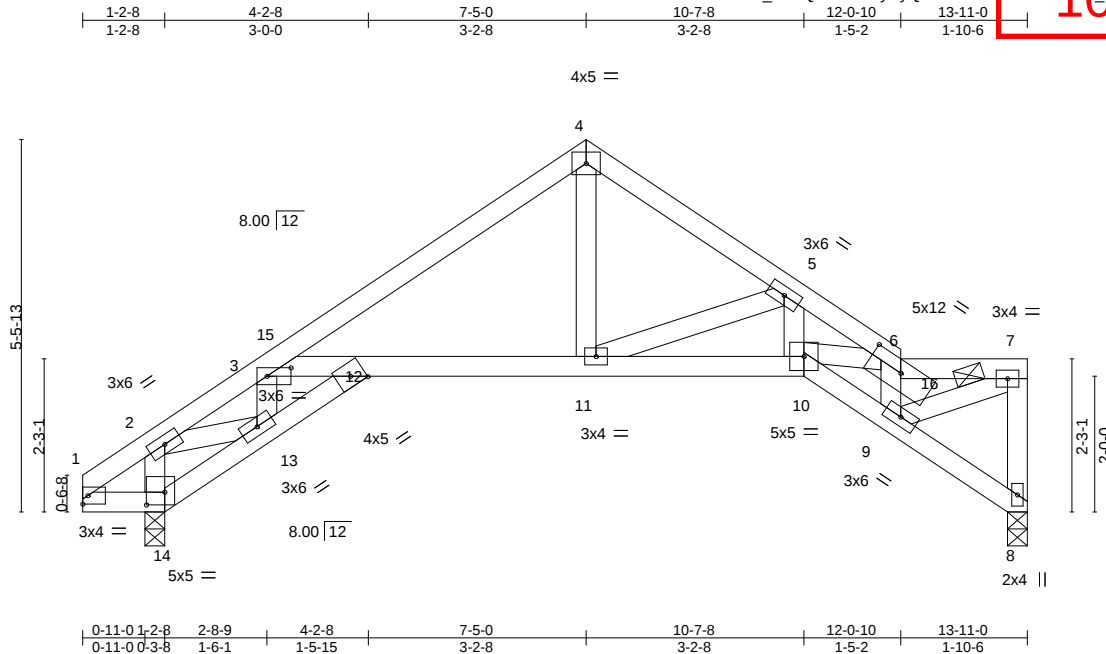
10/12/2021

LOAD CASE(S) Standard
 Uniform Loads (plf)
 Vert: 1-4=-66, 4-5=-66, 5-6=-66, 1-14=-20, 12-14=-20, 8-12=-20, 7-8=-20
 Concentrated Loads (lb)
 Vert: 6=-30

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	L24	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:08 2021 Page 1
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10/12/2021



Scale = 1:33.9

Plate Offsets (X,Y)--		[3:0-4-4,0-1-8], [6:0-6-0,0-2-2], [14:0-3-4,0-2-4]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0		TC	0.54	in (loc)	l/defl	MT20		244/190	
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.93	Vert(LL)	-0.11 11-12				
TCDL	10.0	Lumber DOL	1.15	WB	0.25	Vert(CT)	-0.22 11-12				
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-S		Horz(CT)	0.21 8				
BCDL	10.0	Code IRC2018/TPI2014									
								Weight: 72 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-9-9 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-6 max.): 6-7.
BOT CHORD	2x4 SP No.2 *Except* 3-10: 2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.2		

REACTIONS.	
(size)	8=0-3-8, 14=0-3-8
Max Horz	14=-93(LC 12)
Max Uplift	8=-25(LC 14), 14=-56(LC 14)
Max Grav	8=566(LC 1), 14=651(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-851/393, 3-4=-804/287, 4-5=-772/310, 5-6=-1475/502, 6-7=-965/334, 7-8=-540/167
BOT CHORD	12-13=-412/804, 11-12=-145/618, 10-11=-368/1132, 9-10=-325/961
WEBS	2-14=-542/258, 4-11=-154/513, 3-13=-358/172, 2-13=-327/790, 7-9=-355/1030, 6-9=-896/334, 6-10=-113/385, 5-10=-115/479, 5-11=-548/244

- 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=6.0psf; 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 7-5-0, Corner(3R) 7-5-0 to 10-5-12, Exterior(2N) 10-5-12 to 13-9-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 14. This connection is for uplift only and does not consider lateral forces.
 - 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.
 - Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
Continued on page 2



April 20,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716031
210136-R	L24	Roof Special	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:08 2021 Page 2
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-96vyAyQ012K6RAceWMDNca1_BuVyeW6gpcn7yZPBy1

10/12/2021

LOAD CASE(S) Standard

- 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-66, 4-6=-66, 6-7=-66, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 7=-30
- 2) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-6=-60, 6-7=-60, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 7=-30
- 3) Dead + 0.75 Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-6=-50, 6-7=-50, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 7=-30
- 4) Dead + 0.75 Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-55, 4-6=-55, 6-7=-55, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 7=-30
- 5) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-20, 4-6=-20, 6-7=-20, 1-14=-40, 12-14=-40, 10-12=-40, 8-10=-40
Concentrated Loads (lb)
Vert: 7=-30
- 6) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-15=49, 4-15=39, 4-6=39, 6-7=39, 1-14=-12, 12-14=-12, 10-12=-12, 8-10=-12
Horz: 1-15=-61, 4-15=-51, 4-6=51, 6-7=51
Concentrated Loads (lb)
Vert: 7=-30
- 7) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=39, 4-6=39, 6-7=49, 1-14=-12, 12-14=-12, 10-12=-12, 8-10=-12
Horz: 1-4=-51, 4-6=51, 6-7=61
Concentrated Loads (lb)
Vert: 7=-30
- 8) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-45, 4-6=-45, 6-7=-45, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=25, 4-6=-25, 6-7=-25
Concentrated Loads (lb)
Vert: 7=-30
- 9) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-45, 4-6=-45, 6-7=-45, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=25, 4-6=-25, 6-7=-25
Concentrated Loads (lb)
Vert: 7=-30
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=0, 4-6=11, 6-16=30, 7-16=13, 1-14=-12, 12-14=-12, 10-12=-12, 8-10=-12
Horz: 1-4=-12, 4-6=23, 6-16=42, 7-16=25
Concentrated Loads (lb)
Vert: 7=-30
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=11, 4-6=0, 6-7=30, 1-14=-12, 12-14=-12, 10-12=-12, 8-10=-12
Horz: 1-4=-23, 4-6=12, 6-7=42
Concentrated Loads (lb)
Vert: 7=-30
- 12) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-31, 4-6=-9, 6-7=-21, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=11, 4-6=11, 6-7=-1
Concentrated Loads (lb)
Vert: 7=-30
- 13) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-9, 4-6=-31, 6-7=-21, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=-11, 4-6=-11, 6-7=-1
Concentrated Loads (lb)
Vert: 7=-30
- 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716031
210136-R	L24	Roof Special	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:08 2021 Page 3
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10/12/2021

LOAD CASE(S) Standard

- Uniform Loads (plf)
Vert: 1-4=20, 4-6=20, 6-7=20, 1-14=-12, 12-14=-12, 10-12=-12, 8-10=-12
Horz: 1-4=-32, 4-6=32, 6-7=32
- Concentrated Loads (lb)
Vert: 7=-30
- 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=8, 4-6=8, 6-7=8, 1-14=-12, 12-14=-12, 10-12=-12, 8-10=-12
Horz: 1-4=-20, 4-6=20, 6-7=20
Concentrated Loads (lb)
Vert: 7=-30
- 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-21, 4-6=-21, 6-7=-21, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=1, 4-6=-1, 6-7=-1
Concentrated Loads (lb)
Vert: 7=-30
- 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-21, 4-6=-21, 6-7=-21, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=1, 4-6=-1, 6-7=-1
Concentrated Loads (lb)
Vert: 7=-30
- 18) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-4=-20, 4-6=-20, 6-7=-20, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 7=-30
- 19) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-63, 4-6=-47, 6-7=-55, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=9, 4-6=8, 6-7=-1
Concentrated Loads (lb)
Vert: 7=-30
- 20) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-47, 4-6=-63, 6-7=-55, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=-8, 4-6=-9, 6-7=-1
Concentrated Loads (lb)
Vert: 7=-30
- 21) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-55, 4-6=-55, 6-7=-55, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=1, 4-6=-1, 6-7=-1
Concentrated Loads (lb)
Vert: 7=-30
- 22) Dead + 0.75 Snow (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-55, 4-6=-55, 6-7=-55, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=1, 4-6=-1, 6-7=-1
Concentrated Loads (lb)
Vert: 7=-30
- 23) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-59, 4-6=-42, 6-7=-51, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=9, 4-6=8, 6-7=-1
Concentrated Loads (lb)
Vert: 7=-30
- 24) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-42, 4-6=-59, 6-7=-51, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=-8, 4-6=-9, 6-7=-1
Concentrated Loads (lb)
Vert: 7=-30
- 25) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-51, 4-6=-51, 6-7=-51, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=1, 4-6=-1, 6-7=-1
Concentrated Loads (lb)
Vert: 7=-30
- 26) Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-51, 4-6=-51, 6-7=-51, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Horz: 1-4=1, 4-6=-1, 6-7=-1
Concentrated Loads (lb)
Vert: 7=-30

Continued on page 4

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	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	L24	Roof Special	1	1	Job Reference (optional)	AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,						LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:08 2021 Page 4
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10/12/2021

LOAD CASE(S) Standard

- 27) Dead + 0.6 C-C Wind Min. Down: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=-28, 4-6=-28, 6-7=-28, 1-14=-12, 12-14=-12, 10-12=-12, 8-10=-12
Horz: 1-4=16, 4-6=16, 6-7=16
Concentrated Loads (lb)
Vert: 7=-30
- 28) Dead + 0.6 C-C Wind Min. Upward: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-4=4, 4-6=4, 6-7=4, 1-14=-12, 12-14=-12, 10-12=-12, 8-10=-12
Horz: 1-4=-16, 4-6=-16, 6-7=-16
Concentrated Loads (lb)
Vert: 7=-30
- 29) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-6=-20, 6-7=-20, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 7=-30
- 30) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-20, 4-6=-60, 6-7=-60, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 7=-30
- 31) 3rd Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-50, 4-6=-20, 6-7=-20, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 7=-30
- 32) 4th Dead + 0.75 Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-20, 4-6=-50, 6-7=-50, 1-14=-20, 12-14=-20, 10-12=-20, 8-10=-20
Concentrated Loads (lb)
Vert: 7=-30

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L25	Roof Special	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716032

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:09 2021 Page 1
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LEE'S SUMMIT, MISSOURI
10/12/2021

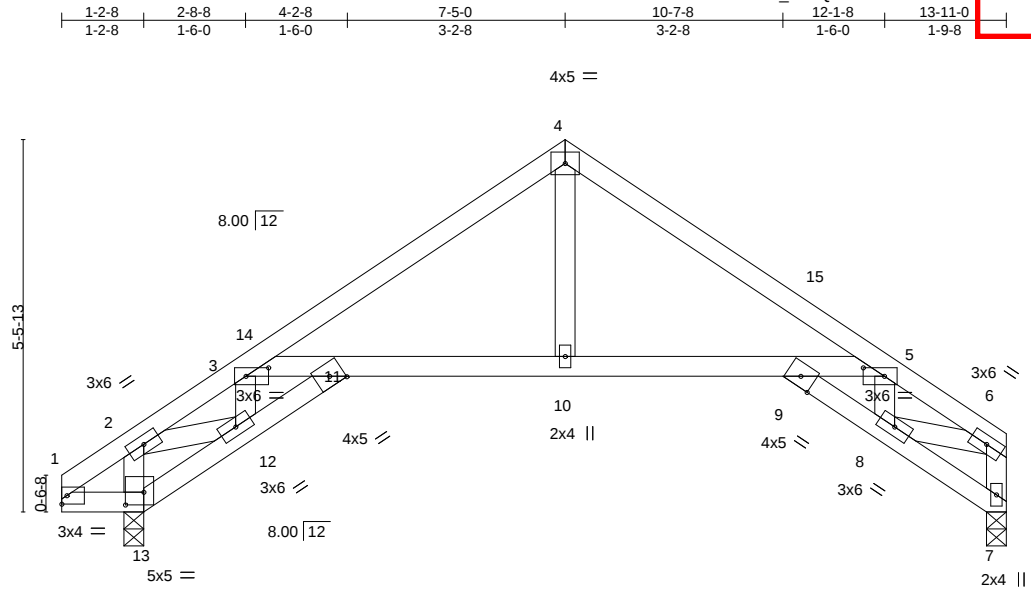


Plate Offsets (X,Y)--		[3:0-4-0,0-1-8], [5:0-3-12,0-1-8], [13:0-3-4,0-2-4]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0		TC	0.52	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL 1.15		BC	0.99	Vert(LL)	-0.12 9-10 >999		244/190
TCDL	10.0	Lumber DOL 1.15		WB	0.20	Vert(CT)	-0.23 9-10 >659		
BCLL	0.0 *	Rep Stress Incr NO		Matrix-S		Horz(CT)	0.29 7 n/a		
BCDL	10.0	Code IRC2018/TPI2014						Weight: 65 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-5: 2x4 SP No.1
WEBS 2x4 SP No.2

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

REACTIONS. (size) 7=0-3-8, 13=0-3-8
Max Horz 13=-105(LC 12)
Max Uplift 7=-54(LC 14), 13=-60(LC 14)
Max Grav 7=566(LC 1), 13=651(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-853/342, 3-4=-862/275, 4-5=-854/275, 5-6=-974/368, 6-7=-559/211
BOT CHORD 11-12=-310/830, 10-11=-81/667, 9-10=-81/667, 8-9=-323/888
WEBS 2-13=-539/229, 2-12=-284/797, 3-12=-371/161, 4-10=-101/519, 5-8=-339/160, 6-8=-286/772

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; 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 7-5-0, Corner(3R) 7-5-0 to 10-5-0, Exterior(2N) 10-5-0 to 13-9-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
 - Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 13. This connection is for uplift only and does not consider lateral forces.
 - 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.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-66, 4-6=-66, 1-13=-20, 11-13=-20, 9-11=-20, 7-9=-20



April 20,2021

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

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	L25	Roof Special	1	1	Job Reference (optional)

KC Truss & Panel Inc. (Urish, MO),
 Urish, MO - 64788,
 8.430 s Mar 22 2021

MiTek Industries, Inc.
 Mon Apr 19 09:21:09 2021
 Page 2
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RELEASE FOR CONSTRUCTION
 AS NOTED FOR PLAN REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 10/12/2021

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 6=-30

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	L26	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:10 2021 Page 1					ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-5V1jbeSGZfaqhT	M1enGrnpgMhCN6RYV15U3RzP3yn
1-2-8 2-8-8 4-2-8 7-5-0 10-7-8 12-1-8 13-7-8 14-10-0					1-2-8 1-6-0 1-6-0 3-2-8 1-6-0 1-6-0 1-2-8	

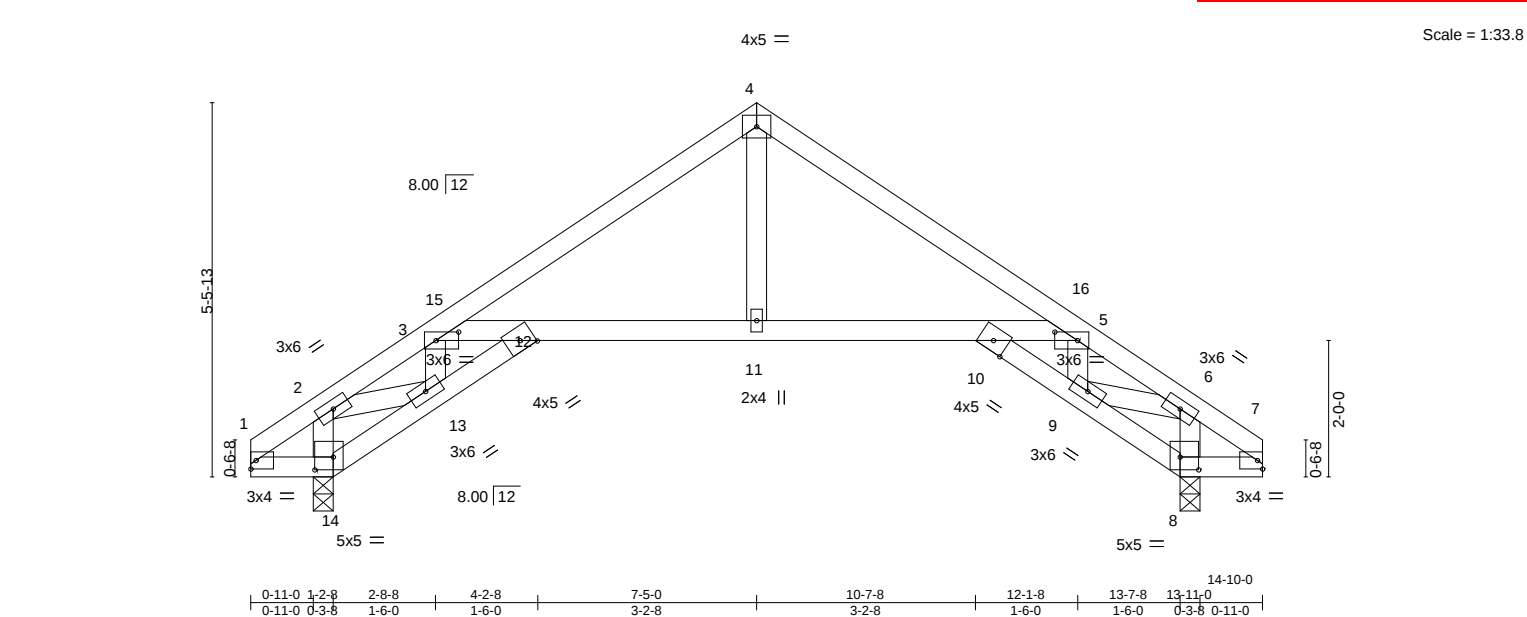


Plate Offsets (X,Y)--		[3:0-4-0,0-1-8], [5:0-4-0,0-1-8], [8:0-3-4,0-2-4], [14:0-3-4,0-2-4]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0 *	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.41
		BC	0.86
		WB	0.19
		Matrix-S	
		DEFL.	
		Vert(LL)	-0.10 11-12 >999 240
		Vert(CT)	-0.19 11-12 >773 180
		Horz(CT)	0.26 8 n/a n/a
		PLATES	MT20
		GRIP	244/190
		Weight:	68 lb
		FT =	20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-6-13 oc purlins.
BOT CHORD	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
	3-5: 2x4 SP No.1		10-0-0 oc bracing: 10-11
WEBS	2x4 SP No.2		

REACTIONS.	(size)	14=0-3-8, 8=0-3-8
	Max Horz	14=115(LC 13)
	Max Uplift	14=-60(LC 14), 8=-60(LC 14)
	Max Grav	14=639(LC 1), 8=639(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-832/271, 3-4=-825/210, 4-5=-825/210, 5-6=-832/251
BOT CHORD	12-13=-193/830, 11-12=0/636, 10-11=0/636, 9-10=-167/751
WEBS	5-9=-361/130, 6-9=-210/778, 6-8=-529/174, 3-13=-361/135, 2-13=-222/778, 2-14=-529/187, 4-11=-43/484

- 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=6.0psf; 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 7-5-0, Corner(3R) 7-5-0 to 10-5-0, Exterior(2N) 10-5-0 to 14-10-0 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 8. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	LG1	GABLE	1	1	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:21 2021 Page 1
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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716034

LEE'S SUMMIT, MISSOURI

10/12/2021

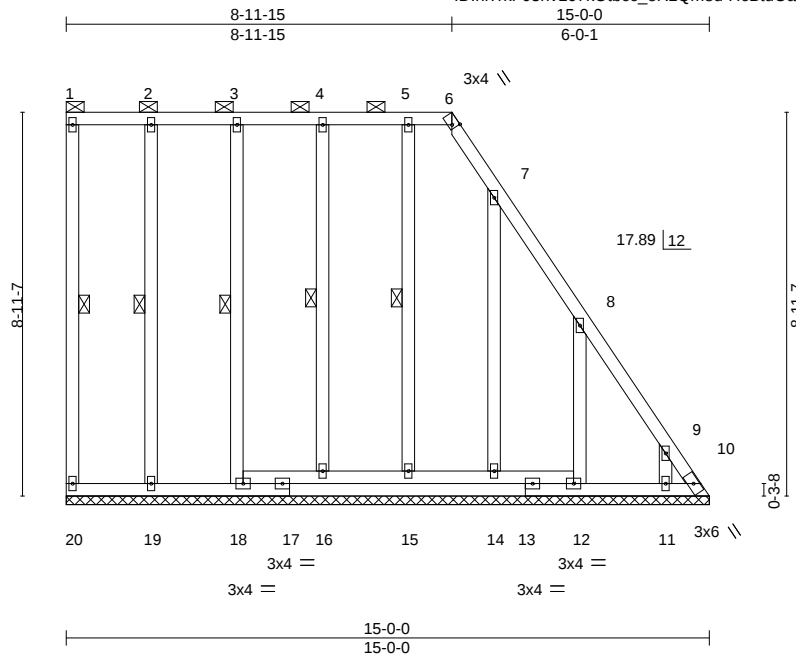


Plate Offsets (X,Y)-- [6:0-1-1,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.11	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.19	Horz(CT)	0.01	10	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 133 lb	FT = 20%

LUMBER-

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

BRACING-

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.): 1-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 16-18,12-14.
WEBS 1 Row at midpt 1-20, 2-19, 3-18, 4-16, 5-15

REACTIONS.

All bearings 15-0-0.
(lb) - Max Horz 20=-278(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 20, 19, 18, 16, 15, 14 except 10=-260(LC 13), 12=-204(LC 14), 11=-138(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 20, 19, 18, 16, 15, 14, 11 except 10=413(LC 14), 12=276(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-465/385, 9-10=-633/522
BOT CHORD 19-20=-289/359, 18-19=-289/359, 16-18=-295/362, 15-16=-289/359, 14-15=-289/359, 12-14=-295/362, 11-12=-289/359, 10-11=-289/359
WEBS 8-12=-266/254

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 8-11-15, Corner(3R) 8-11-15 to 11-11-12, Exterior(2N) 11-11-12 to 14-8-11 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 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.
- N/A
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 16, 15, 14.
- 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.



April 20,2021

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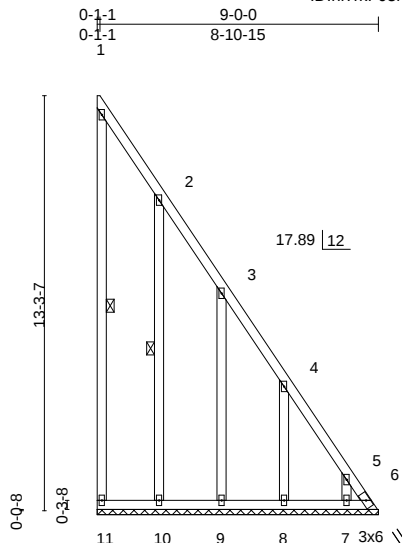
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	LG2	GABLE	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
Job Reference (optional)					LEE'S SUMMIT, MISSOURI	145716035

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:31 2021 Page 1
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10/12/2021



Scale = 1:73.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.19	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.23	Horz(CT)	0.01	6	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 87 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-9-4 oc bracing.
WEBS 1 Row at midpt 1-11, 2-10

REACTIONS.

All bearings 9-0-0.
(lb) - Max Horz 11=-409(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 11 except 6=-387(LC 13), 10=-167(LC 14), 9=-158(LC 14), 8=-163(LC 14), 7=-132(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 11, 9, 7 except 6=609(LC 14), 10=262(LC 20), 8=255(LC 20)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-364/291, 3-4=-612/482, 4-5=-868/681, 5-6=-1065/836
BOT CHORD 10-11=-460/595, 9-10=-460/595, 8-9=-460/595, 7-8=-460/595, 6-7=-460/595
WEBS 2-10=-287/291, 3-9=-270/274, 4-8=-280/285

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 8-8-6 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) All plates are 2x4 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) N/A
- 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.



April 20,2021

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

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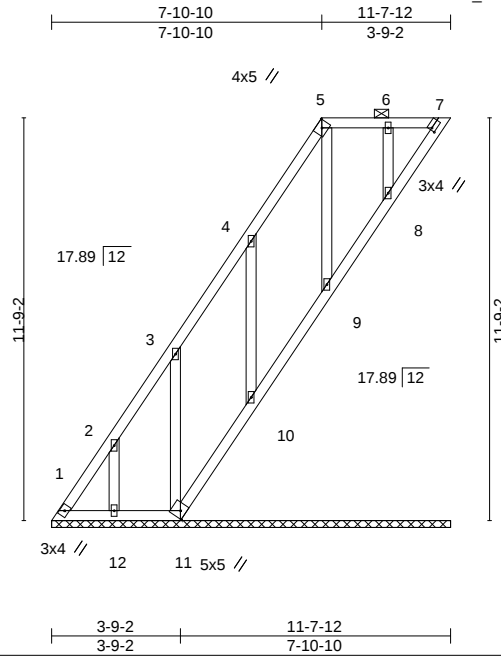


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	LG3	GABLE	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:33 2021 Page 1
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10/12/2021



Scale = 1:67.3

Plate Offsets (X,Y)--		[7:0-0-13,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0		TC	0.12	in (loc)	l/defl	MT20		244/190	
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.04	n/a	n/a				
TCDL	10.0	Lumber DOL	1.15	WB	0.12	n/a	n/a				
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-S		-0.01	7				
BCDL	10.0	Code IRC2018/TPI2014									
								Weight: 80 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except
BOT CHORD	2x4 SP No.2		2-0-0 oc purlins (6-0-0 max.): 5-7.
OTHERS	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
			6-0-0 oc bracing: 7-8.

REACTIONS. All bearings 11-7-12.
(lb) - Max Horz 1=368(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 11, 8 except 1=-196(LC 12), 7=-130(LC 14), 10=-187(LC 14), 12=-136(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 7, 11, 12, 9, 8 except 1=368(LC 14), 10=289(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-614/485, 2-3=-416/328
WEBS 4-10=-306/302, 3-11=-255/251

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=6.0psf; 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 7-10-10, Corner(3R) 7-10-10 to 10-10-10, Exterior(2N) 10-10-10 to 11-4-8 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 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) 8 except (jt=lb) 7=130, 10=187.
- N/A
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 10, 9, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	LG4	GABLE	1	1		AS NOTED FOR PLAN REVIEW
					Job Reference (optional)	DEVELOPMENT SERVICES
						LEE'S SUMMIT, MISSOURI

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:35 2021 Page 1
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10/12/2021

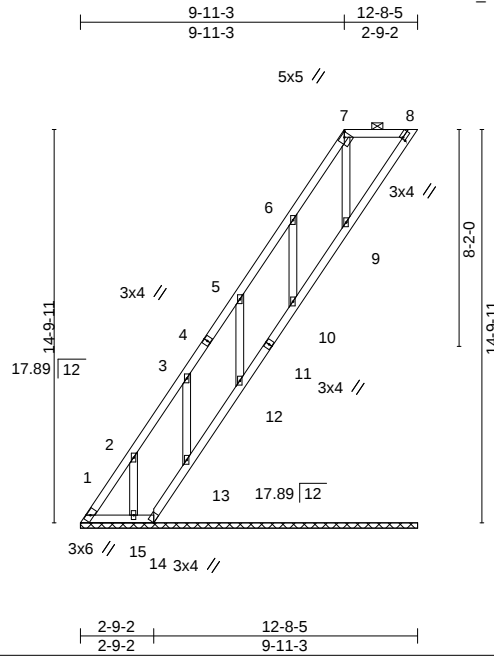


Plate Offsets (X,Y)-- [7:0-2-3,Edge], [8:0-0-13,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.16	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.05	Horz(CT)	-0.01	8	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 84 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-12,8-9.

REACTIONS.

All bearings 12-8-5.

(lb) - Max Horz 1=466(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) except 1=-265(LC 12), 8=-167(LC 14), 14=-103(LC 12), 15=-170(LC 14), 13=-171(LC 14), 12=-157(LC 14), 10=-170(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 8, 14, 13, 12, 10, 9 except 1=481(LC 14), 15=253(LC 19)

FORCES.

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

TOP CHORD 1-2=-783/629, 2-3=-558/447, 3-5=-326/262

BOT CHORD 13-14=-276/236, 12-13=-272/232, 10-12=-273/230, 9-10=-272/234, 8-9=-276/224

WEBS 2-15=-259/250, 3-13=-262/256, 5-12=-260/252, 6-10=-272/268

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=6.0psf; 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 9-11-3, Corner(3E) 9-11-3 to 12-5-1 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 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) 8, 10, 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 167 lb uplift at joint 8, 103 lb uplift at joint 14, 171 lb uplift at joint 13, 157 lb uplift at joint 12 and 170 lb uplift at joint 10.
- N/A
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 8, 13, 12, 10, 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.



April 20,2021

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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

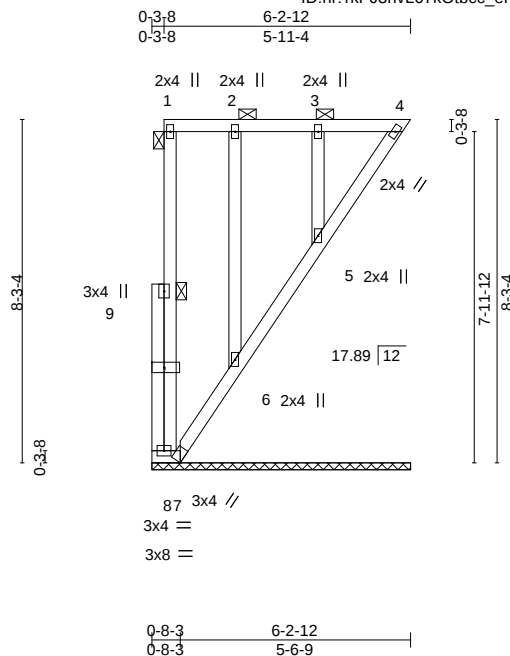
Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716038
210136-R	LG5	GABLE	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:35 2021 Page 1

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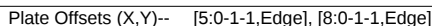
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Plate Offsets (X,Y)-- [8:0-3-8,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0		2-0-0			in (loc)	l/defl	L/d	GRIP
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	n/a	-	n/a
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	n/a	-	n/a
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	-0.00	4	n/a
BCDL	10.0	Code IRC2018/TPI2014		Matrix-P					

Scale = 1:75.8



LUMBER-

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

BRACING-

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.): 5-7, 8-10.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 4-14, 6-13

REACTIONS.

All bearings 10-11-13.

(lb) - Max Horz 1=415(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=-300(LC 12), 14=-178(LC 14), 16=-184(LC 14), 15=-142(LC 14), 13=-106(LC 14)

Max Gray All reactions 250 lb or less at joint(s) 11, 14, 15, 13, 12 except 1=546(LC 14), 16=283(LC 19)

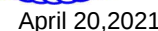
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-921/735, 2-3=-662/526, 3-4=-437/350

WEBS 2-16=-292/288. 3-15=-252/247. 4-14=-283/290

NOTES-

- 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=6.0psf; 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 7-8-13, Corner(3E) 7-8-13 to 8-8-13, Exterior(2N) 8-8-13 to 9-10-7, Corner(3E) 9-10-7 to 10-10-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb) 13=106.
- 10) N/A
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11, 13, 12.
- 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.



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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

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:37 2021 Page 1

10/12/2021

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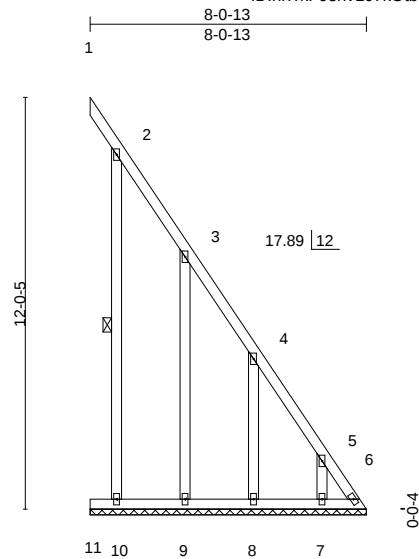
Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	LG8	GABLE	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:38 2021 Page 1

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10/12/2021



Scale = 1:67.3

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.18	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.28	Horz(CT)	0.02	6	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 67 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-10

REACTIONS.

All bearings 8-0-13.

(lb) - Max Horz 1=-491(LC 15)

Max Uplift All uplift 100 lb or less at joint(s) 6 except 1=-310(LC 13), 10=-165(LC 15), 9=-237(LC 15), 8=-228(LC 15), 7=-193(LC 15)

Max Grav All reactions 250 lb or less at joint(s) 6, 11, 10, 8, 7 except 1=709(LC 15), 9=252(LC 22)

FORCES.

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

TOP CHORD 1-2=-782/862, 2-3=-639/701, 3-4=-423/464

WEBS 3-9=-300/262, 4-8=-289/252

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=29ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2R) 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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 2x4 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) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=310.
- 9) N/A
- 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.



April 20, 2021

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

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



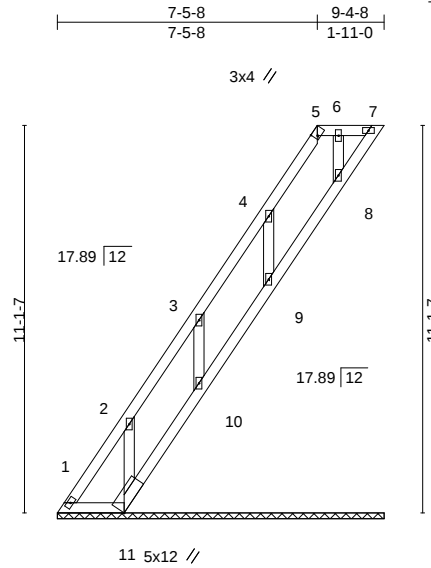
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716042
210136-R	LG9	GABLE	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:39 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-l4HhgYoSkZEjgx4crMHeM6MNO0UPawDy3cwDFzP3yA

10/12/2021



Scale = 1:66.1

Plate Offsets (X,Y)-- [5:0-1-1,Edge]		1-11-0 1-11-0		9-4-8 7-5-8	
LOADING (psf)		SPACING-	2-0-0	CSI.	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.14
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.04
TCDL	10.0	Rep Stress Incr	YES	WB	0.05
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S	
BCDL	10.0				
				DEFL.	
				in (loc)	l/defl L/d
				Vert(LL)	n/a - n/a 999
				Vert(CT)	n/a - n/a 999
				Horz(CT)	-0.01 7 n/a n/a
				PLATES	GRIP
				MT20	244/190
				Weight: 56 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 7-8.

REACTIONS.

All bearings 9-4-8.

(lb) - Max Horz 1=347(LC 14)

Max Uplift All uplift 100 lb or less at joint(s) 11 except 1=196(LC 12), 7=128(LC 14), 10=166(LC 14), 9=136(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 7, 11, 9, 8 except 1=371(LC 14), 10=258(LC 19)

FORCES.

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

TOP CHORD 1-2=-646/509, 2-3=-376/290

WEBS 2-11=-293/293, 3-10=-281/287

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=6.0psf; 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 7-5-8, Corner(3E) 7-5-8 to 9-1-3 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 psf (Lum DOL=1.15 Plate DOL=1.15); ls=1.0; Rough Cat C; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10, Lu=50-0-0
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 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) (jt=lb) 7=128, 10=166, 9=136.
- N/A
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 10, 9, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20,2021

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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



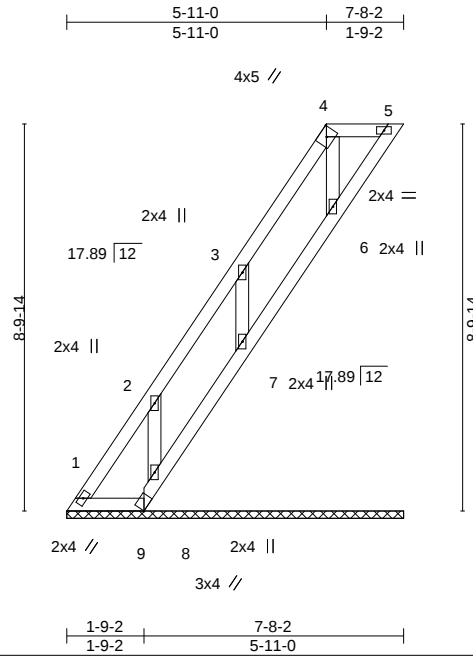
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716043
210136-R	LG10	GABLE	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:22 2021 Page 1
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10/12/2021



Scale = 1:52.5

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 44 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

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

REACTIONS.

All bearings 7-8-2.
(lb) - Max Horz 1=274(LC 14)
Max Uplift All uplift 100 lb or less at joint(s) 9 except 1=-124(LC 12), 5=-102(LC 14), 8=-186(LC 14), 7=-177(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 5, 9, 6 except 1=260(LC 14), 8=268(LC 19), 7=272(LC 19)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-483/380
WEBS 2-8=-280/289, 3-7=-307/317

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=6.0psf; 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 5-11-0, Corner(3E) 5-11-0 to 7-4-14 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- Provide adequate drainage to prevent water ponding.
- 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) 9 except (jt=lb) 5=102, 8=186, 7=177.
- N/A
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 8, 7, 6.
- 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	LG11	GABLE	1	1	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:23 2021 Page 1
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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716044

LEE'S SUMMIT, MISSOURI

10/12/2021

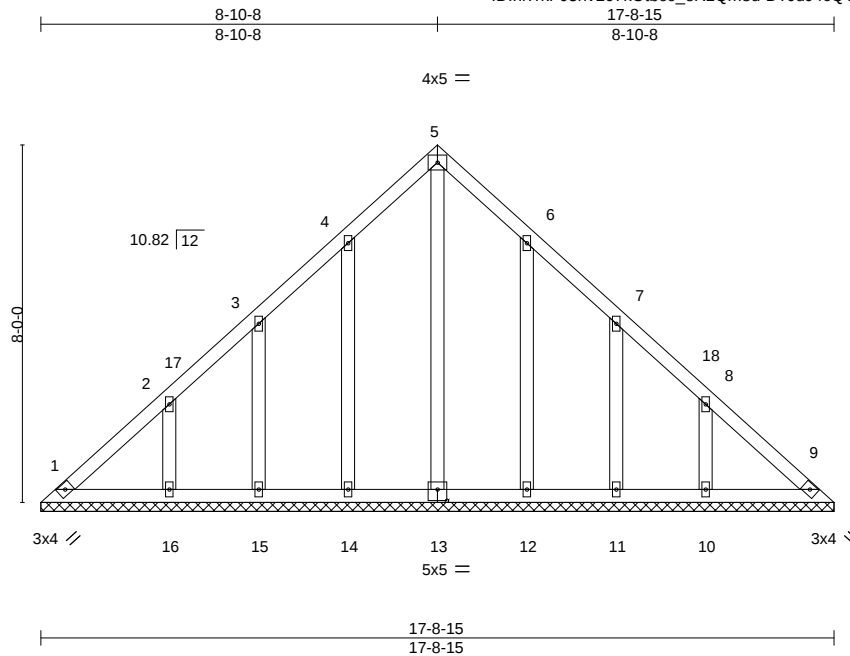


Plate Offsets (X,Y)--		[13:0-2-8,0-3-0]	
LOADING (psf)		SPACING-	
TCLL (roof)	20.0	2-0-0	
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15
TCDL	10.0	Lumber DOL	1.15
BCLL	0.0 *	Rep Stress Incr	YES
BCDL	10.0	Code	IRC2018/TPI2014
		CSI.	
		TC	0.08
		BC	0.06
		WB	0.20
		Matrix-S	
		DEFL.	
		in (loc)	
		l/defl	
		L/d	
		Vert(LL)	n/a
		Vert(CT)	n/a
		Horz(CT)	0.00
			9
			n/a
			n/a
		PLATES	
		MT20	
		GRIP	
		244/190	
		Weight: 106 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 17-8-15.

(lb) - Max Horz 1=-185(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 14, 15, 16, 12, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 13, 14, 15, 16, 12, 11, 10

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; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-4-9 to 3-4-9, Exterior(2N) 3-4-9 to 8-10-8, Corner(3R) 8-10-8 to 11-10-8, Exterior(2N) 11-10-8 to 17-4-6 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) All plates are 2x4 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) N/A
- 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.



April 20, 2021

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

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



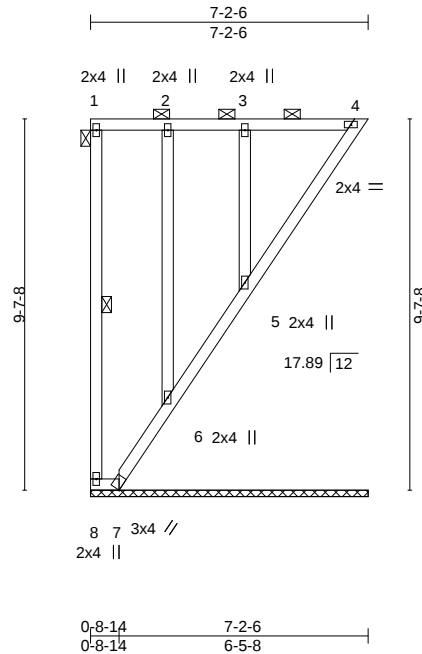
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716045
210136-R	LG12	GABLE	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:24 2021 Page 1
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10/12/2021



Scale = 1:59.7

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.12	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Horz(CT)	0.00	5	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 59 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-4, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 4-5.
WEBS 1 Row at midpt 1-8

REACTIONS.

All bearings 7-2-6.

(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 except 5=259(LC 1)

FORCES.

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

WEBS 3-5=-198/269

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 6, 5.
- 8) N/A
- 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.



April 20,2021

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

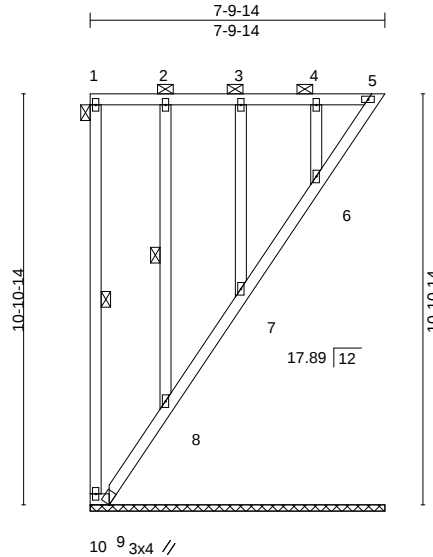
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	LG13	GABLE	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urlich, MO), Urlich, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:25 2021 Page 1
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0'-6-1 7-9-14
0'-6-1 7-3-13

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Rep Stress Incr YES	WB 0.06	Horz(CT)	0.00	7	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-P					Weight: 69 lb	FT = 20%
BCDL 10.0								

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins: 1-5, except end verticals.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 1-10, 2-8
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 7-9-14.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 10, 5, 8, 7, 6
Max Grav All reactions 250 lb or less at joint(s) 10, 5, 9, 8, 7, 6

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=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 2x4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 8, 7, 6.
 - 9) N/A
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 8, 7, 6.
 - 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.



April 20,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	LG14	GABLE	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:26 2021 Page 1
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10/12/2021

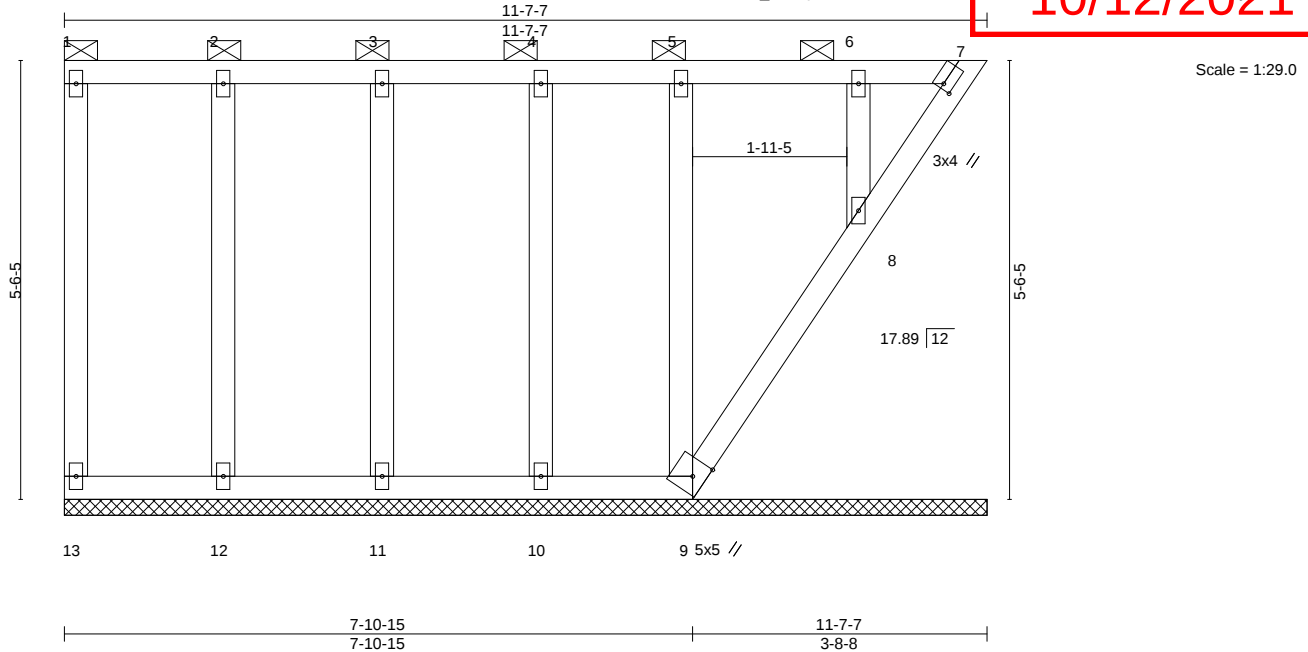


Plate Offsets (X,Y)-- [7:0-0-13,0-1-8]		7-10-15		11-7-7	
LOADING (psf)		SPACING-		CSI.	
TCLL (roof)	20.0	2-0-0		TC 0.05	
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL 1.15		BC 0.04	
TCDL	10.0	Lumber DOL 1.15		WB 0.07	
BCLL	0.0 *	Rep Stress Incr YES		Matrix-S	
BCDL	10.0	Code IRC2018/TPI2014			
				DEFL.	
				in (loc) l/defl L/d	
				Vert(LL) n/a - n/a 999	
				Vert(CT) n/a - n/a 999	
				Horz(CT) -0.00 7 n/a n/a	
				PLATES GRIP	
				MT20 244/190	
				Weight: 78 lb FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-7, except end verticals.
BOT CHORD	2x4 SP No.2	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 11-7-7.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 13, 7, 9, 12, 11, 10, 8
Max Grav All reactions 250 lb or less at joint(s) 13, 7, 9, 12, 11, 10, 8

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=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 2x4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8.
 - 9) N/A
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 7, 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) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component**
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	LG15	GABLE	1	1	

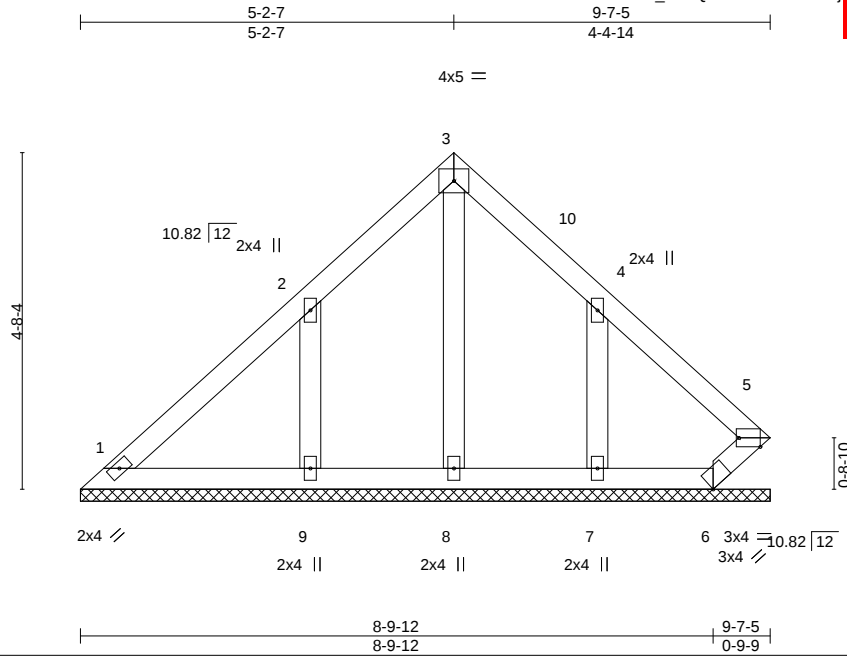
KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:27 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-5mY89SfxZtjD59l8r3jtaLmYCso9wSc7lIayzP3ym

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716048

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale: 3/8"=1'

Plate Offsets (X,Y)--		[5:0-3-9,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0		TC	0.13	in (loc)	l/defl	L/d			
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.06	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	WB	0.05	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-S		Horz(CT)	0.00	5	n/a		
BCDL	10.0	Code IRC2018/TPI2014								Weight: 46 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 5-6.

REACTIONS.

All bearings 9-7-5.
(lb) - Max Horz 1=99(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 5, 6, 7 except 9=101(LC 14)
Max Grav All reactions 250 lb or less at joint(s) 1, 5, 6, 8, 7 except 9=279(LC 19)

FORCES.

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

WEBS 2-9=-211/305, 4-7=-175/266

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-4-9 to 3-2-7, Exterior(2N) 3-2-7 to 5-2-7, Corner(3R) 5-2-7 to 8-2-7, Exterior(2N) 8-2-7 to 9-4-11 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) 5, 6.
- N/A
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716049
210136-R	LG16	Lay-In Gable	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

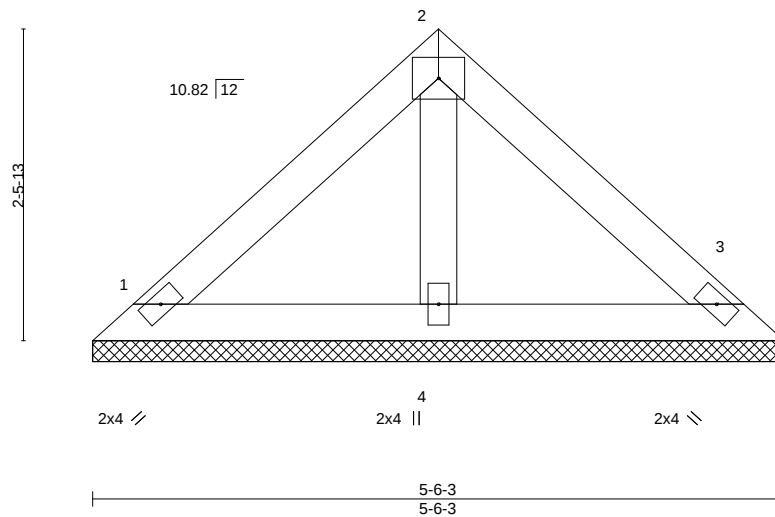
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:28 2021 Page 1
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10/12/2021

2-9-2 2-9-2 5-6-3 2-9-2

4x5 =

Scale = 1:18.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.02	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: 21 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=5-6-3, 3=5-6-3, 4=5-6-3
Max Horz 1=-52(LC 12)
Max Uplift 1=-27(LC 14), 3=-27(LC 14)
Max Grav 1=120(LC 1), 3=120(LC 1), 4=170(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
- N/A
- 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.



April 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716050
210136-R	LG17	GABLE	1	1	Job Reference (optional)	10/12/2021

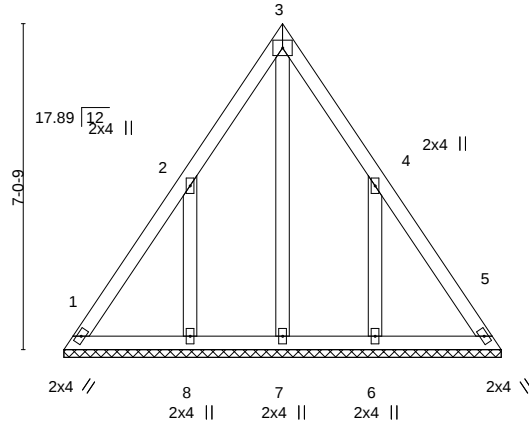
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:29 2021 Page 1
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4-8-12 4-8-12 9-5-8 9-5-8 4-8-12

4x5 =

Scale = 1:49.8



LOADING (psf)	SPACING-	CS.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Lumber DOL 1.15	WB 0.11	Horz(CT)	0.00	5	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 58 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

All bearings 9-5-8.

(lb) - Max Horz 1=-207(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-212(LC 14), 6=-212(LC 14)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=338(LC 19), 6=337(LC 20)

FORCES.

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

WEBS 2-8=-343/343, 4-6=-343/343

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=6.0psf; 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 4-8-12, Corner(3R) 4-8-12 to 7-8-12, Exterior(2N) 7-8-12 to 9-2-3 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) 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) N/A
- 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.



April 20, 2021

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

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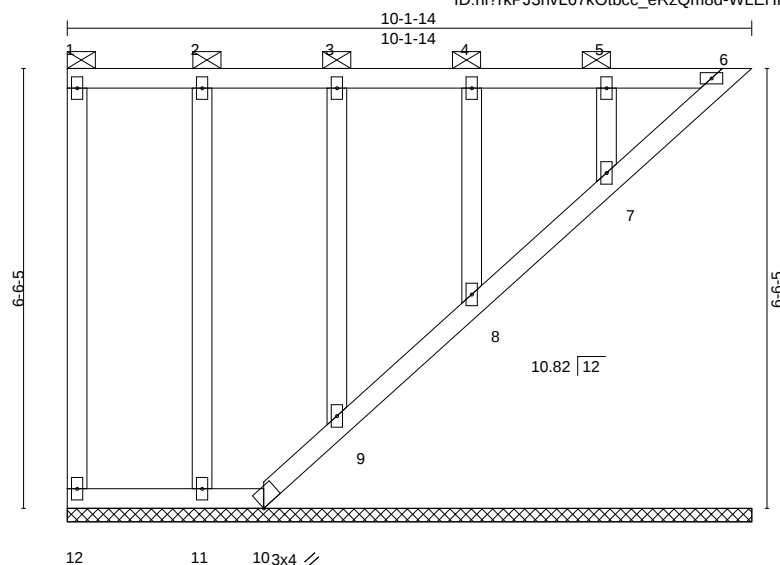
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:30 2021 Page 1
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Scale = 1:34.2

		2-11-0		10-1-14															
		2-11-0		7-2-14															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc)		l/defl		L/d		PLATES		GRIP	
TCLL (roof) 20.0		Plate Grip DOL		1.15		TC 0.05		Vert(LL)		n/a		-		999		MT20		244/190	
Snow (Pl/Pg) 23.1/30.0		Lumber DOL		1.15		BC 0.03		Vert(CT)		n/a		-		999					
TCDL 10.0		Rep Stress Incr		YES		WB 0.09		Horz(CT)		0.00		7		n/a					
BCLL 0.0 *		Code IRC2018/TPI2014				Matrix-S													
BCDL 10.0																Weight: 65 lb		FT = 20%	

LUMBER-

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

BRACING-

TOP CHORD	2-0-0 oc purlins (6-0-0 max.): 1-6, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 6-7.

REACTIONS.

All bearings 10-1-14.

(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, 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; TC DL=6.0psf; BCDL=6.0psf; 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) TCDL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x4 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 9, 8, 7.
- 9) N/A
- 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.



April 20, 2021

 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 MITER REFERENCE PAGE MH-7473 (REV. 3/19/2020) BEFORE USE.

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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	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	LG19	GABLE	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:31 2021 Page 1
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4-4-4 5-8-2
4-4-4 1-3-14

3x4 =

Scale = 1:43.9

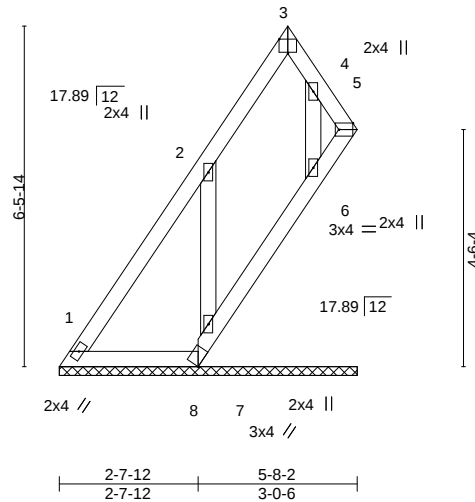


Plate Offsets (X,Y)--		[3:Edge,0-3-5], [5:Edge,0-1-8]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0 *	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.19
		BC	0.06
		WB	0.07
		Matrix-P	
		DEFL.	
		Vert(LL)	n/a
		Vert(CT)	n/a
		Horz(CT)	-0.00
			in (loc) l/defl L/d
			n/a - n/a 999
			n/a - n/a 999
			n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 34 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-8-2 oc purlins.
BOT CHORD	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: 5-6.

REACTIONS.	All bearings 5-8-2.
(lb) - Max Horz	1=142(LC 12)
Max Uplift	All uplift 100 lb or less at joint(s) 1, 5, 8 except 7=194(LC 14)
Max Grav	All reactions 250 lb or less at joint(s) 1, 5, 8, 6 except 7=346(LC 19)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-339/264
WEBS	2-7=-379/402

- 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=6.0psf; 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(3E) 4-4-4 to 5-6-0 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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) 5, 8 except (jt=lb) 7=194.
 - N/A
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 5, 7, 6.
 - 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.



April 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	LG20	GABLE	1	1	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

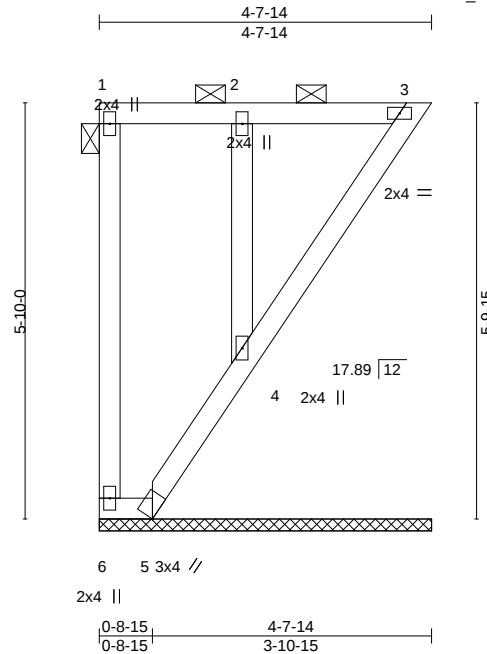
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:32 2021 Page 1

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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716053

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale: 3/8"=1'

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
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-P						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 31 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD 2-0-0 oc purlins: 1-3, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS.

All bearings 4-7-14.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 6, 3, 4
Max Grav All reactions 250 lb or less at joint(s) 6, 3, 5, 4

FORCES.

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

WEBS 2-4=175/260

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- Provide adequate drainage to prevent water ponding.
- 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) 3, 4.
- N/A
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



April 20,2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M1	Hip Girder	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

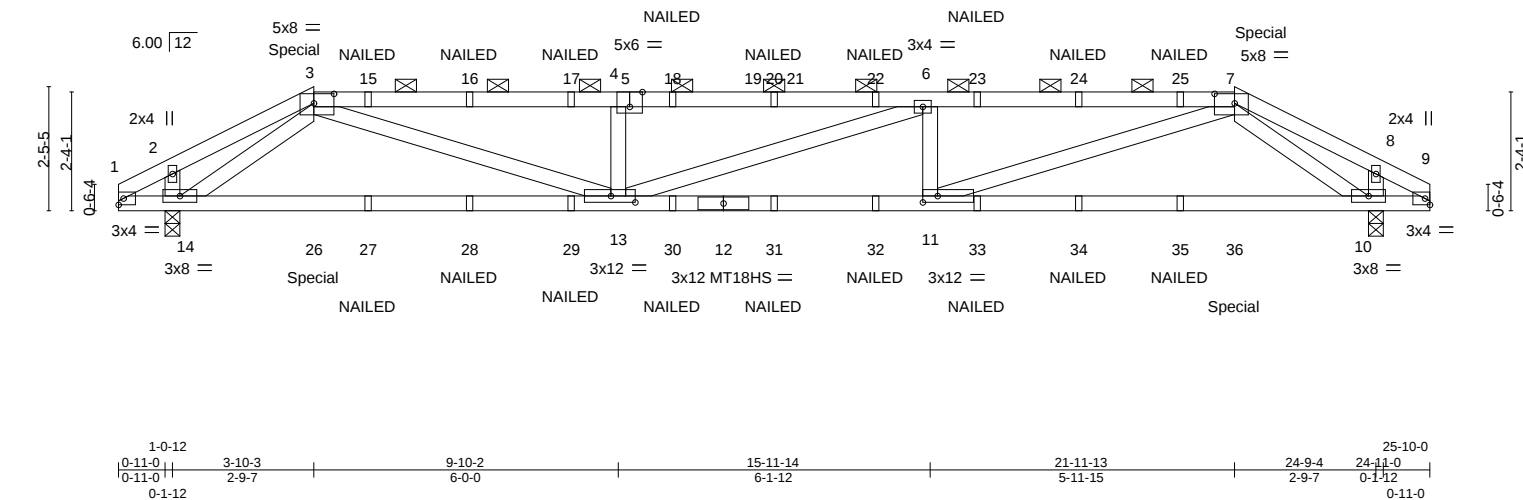
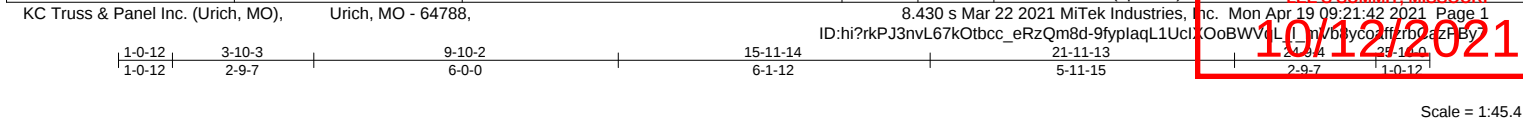


Plate Offsets (X,Y)-- [3:0-4-12,0-2-4], [5:0-3-0,Edge], [7:0-4-12,0-2-4], [11:0-3-8,0-1-8], [13:0-5-12,0-1-8]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.68	Vert(LL)	-0.29 11-13	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.79	Vert(CT)	-0.41 11-13	MT18HS	244/190
TCDL	10.0	Rep Stress Incr	NO	WB	0.63	Horz(CT)	0.07 10		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S				Weight: 122 lb	FT = 20%
BCDL	10.0								

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except* 3-5,5-7: 2x4 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (3-5-3 max.): 3-7.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-6-10 oc bracing: 11-13.
WEBS	2x4 SP No.2		

REACTIONS.	
(size)	14=0-3-8, 10=0-3-8
Max Horz	14=38(LC 81)
Max Uplift	14=-252(LC 12), 10=-252(LC 12)
Max Grav	14=1376(LC 33), 10=1376(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	1-2=-286/19, 2-3=-263/68, 3-4=-3979/739, 4-6=-3979/739, 6-7=-3974/739, 7-8=-264/68, 8-9=-286/20
BOT CHORD	13-14=-278/1548, 11-13=-702/3974, 10-11=-288/1548
WEBS	2-14=-251/98, 3-14=-1862/365, 3-13=-438/2577, 4-13=-709/194, 6-11=-708/176, 7-11=-438/2572, 7-10=-1861/365, 8-10=-251/98

- 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=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 10. This connection is for uplift only and does not consider lateral forces.
 - 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 Nails (0.148" x 3") toe-nails per NDS guidelines.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 57 lb up at 3-10-3, and 67 lb down and 57 lb up at 21-11-13 on top chord, and 2 lb down and 49 lb up at 3-10-3, and 2 lb down and 49 lb up at 21-11-13 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	M1	Hip Girder	1	1	
Job Reference (optional)					

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:42 2021 Page 2
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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/12/2021

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-66, 3-7=-66, 7-9=-66, 1-9=-20

Concentrated Loads (lb)

Vert: 3=-7(B) 7=-7(B) 26=1(B) 27=3(B) 28=3(B) 29=3(B) 30=3(B) 31=3(B) 32=3(B) 33=3(B) 34=3(B) 35=3(B) 36=1(B)

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M2	Hip	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:54 2021 Page 1
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10/12/2021

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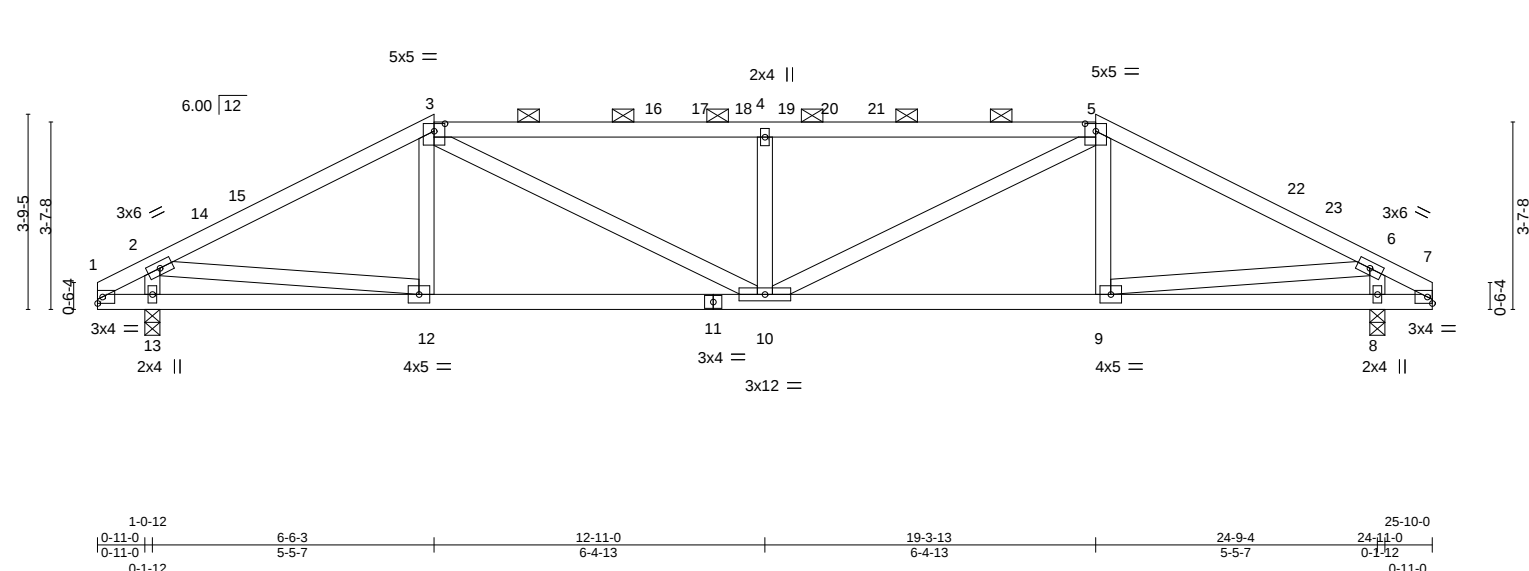


Plate Offsets (X,Y)-- [3:0-2-8,0-1-12], [5:0-2-8,0-1-12]							
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc) l/defl L/d
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.88	Vert(LL)	-0.13 10 >999 240
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.20 10-12 >999 180
TCDL	10.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.04 8 n/a n/a
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S			
BCDL	10.0						
						PLATES	GRIP
						MT20	244/190
						Weight: 131 lb	FT = 20%

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

REACTIONS. (size) 13=0-3-8, 8=0-3-8
Max Horz 13=63(LC 15)
Max Uplift 13=-104(LC 16), 8=-104(LC 16)
Max Grav 13=1196(LC 38), 8=1196(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-303/49, 2-3=-1825/205, 3-4=-2569/287, 4-5=-2569/287, 5-6=-1825/205, 6-7=-303/49
BOT CHORD 1-13=-71/371, 12-13=-74/371, 10-12=-97/1610, 9-10=-96/1610, 8-9=-71/371, 7-8=-71/371
WEBS 2-13=-1125/212, 2-12=-66/1452, 3-10=-100/1081, 4-10=-879/158, 5-10=-100/1081, 6-9=-67/1452, 6-8=-1125/212

- 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=6.0psf; 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 6-6-3, Exterior(2R) 6-6-3 to 10-9-1, Interior(1) 10-9-1 to 19-3-13, Exterior(2R) 19-3-13 to 23-6-12, Interior(1) 23-6-12 to 25-10-0 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 8. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

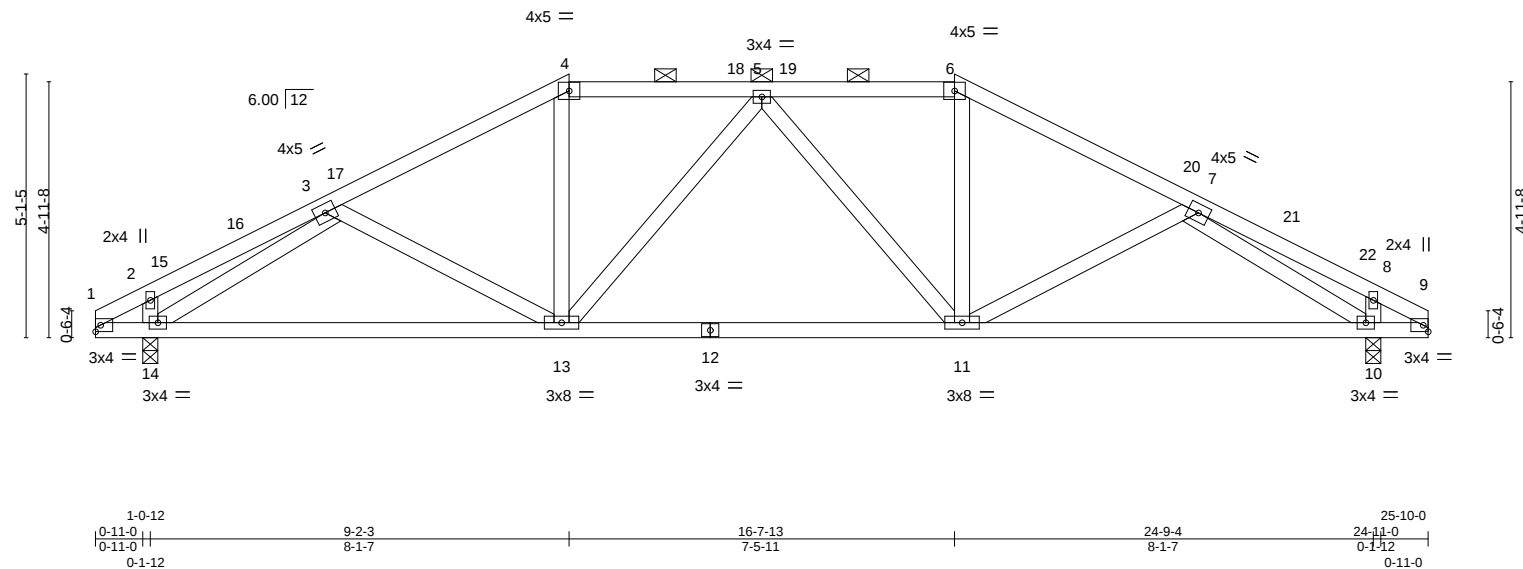
Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/12/2021
210136-R	M3	Hip	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:56 2021 Page 1
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1-0-12	4-7-6	9-2-3	12-11-0	16-7-13	21-2-10	24-9-4	25-10-0
1-0-12	3-6-10	4-6-13	3-8-13	3-8-13	4-6-13	8-1-7	0-1-12

Scale = 1:44.7



LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.59	Vert(LL) -0.07 13-14 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.15 11-13 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 10 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 139 lb	FT = 20%

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

REACTIONS. (size) 14=0-3-8, 10=0-3-8
Max Horz 14=87(LC 15)
Max Uplift 14=-104(LC 16), 10=-104(LC 16)
Max Grav 14=1401(LC 38), 10=1401(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-299/0, 2-3=-284/7, 3-4=-1548/217, 4-5=-1273/225, 5-6=-1273/225, 6-7=-1548/217, 7-8=-284/7, 8-9=-299/0
BOT CHORD 13-14=-157/1469, 11-13=-100/1439, 10-11=-154/1469
WEBS 2-14=-271/117, 3-14=-1594/267, 4-13=-0/365, 6-11=-0/365, 7-10=-1594/267, 8-10=-271/117, 5-11=-332/69, 5-13=-332/69

- 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=6.0psf; 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 9-2-3, Exterior(2R) 9-2-3 to 13-5-1, Interior(1) 13-5-1 to 16-7-13, Exterior(2R) 16-7-13 to 20-10-12, Interior(1) 20-10-12 to 25-10-0 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14 and 10. This connection is for uplift only and does not consider lateral forces.
 - 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.



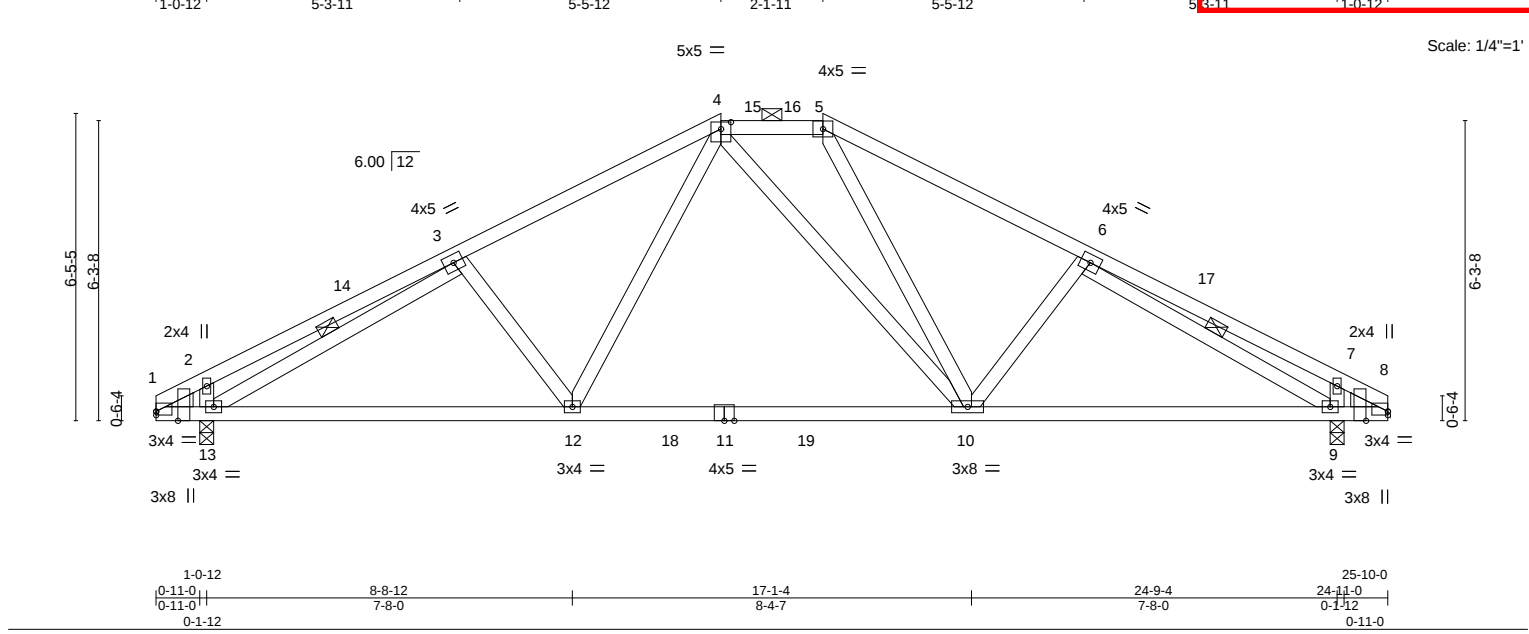
April 20,2021

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MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M4	Hip	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:58 2021 Page 1
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10/12/2021



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.70	Vert(LL)	-0.19 10-12	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.84	Vert(CT)	-0.30 10-12	>942	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.35	Horz(CT)	0.06 9	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 145 lb	FT = 20%

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

REACTIONS. (size) 13=0-3-8, 9=0-3-8
Max Horz 13=112(LC 15)
Max Uplift 13=-104(LC 16), 9=-104(LC 16)
Max Grav 13=1606(LC 38), 9=1606(LC 38)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-372/0, 2-3=-530/98, 3-4=-1916/309, 4-5=-1354/292, 5-6=-1905/306, 6-7=-539/95, 7-8=-382/0
BOT CHORD 1-13=0/375, 12-13=-177/1833, 10-12=-59/1366, 9-10=-178/1810, 8-9=0/383
WEBS 2-13=-491/178, 3-13=-1730/212, 3-12=-380/168, 4-12=-42/626, 5-10=-39/584, 6-10=-381/168, 6-9=-1725/216, 7-9=-490/179

- 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=6.0psf; 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 25-10-0 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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, with BCDL = 10.0psf.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13 and 9. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M5	Common	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:59 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-9wUEtO1?0jlt3?bS0ZeKARBesxxV50Q926T_P5zPBxs
10/12/2021

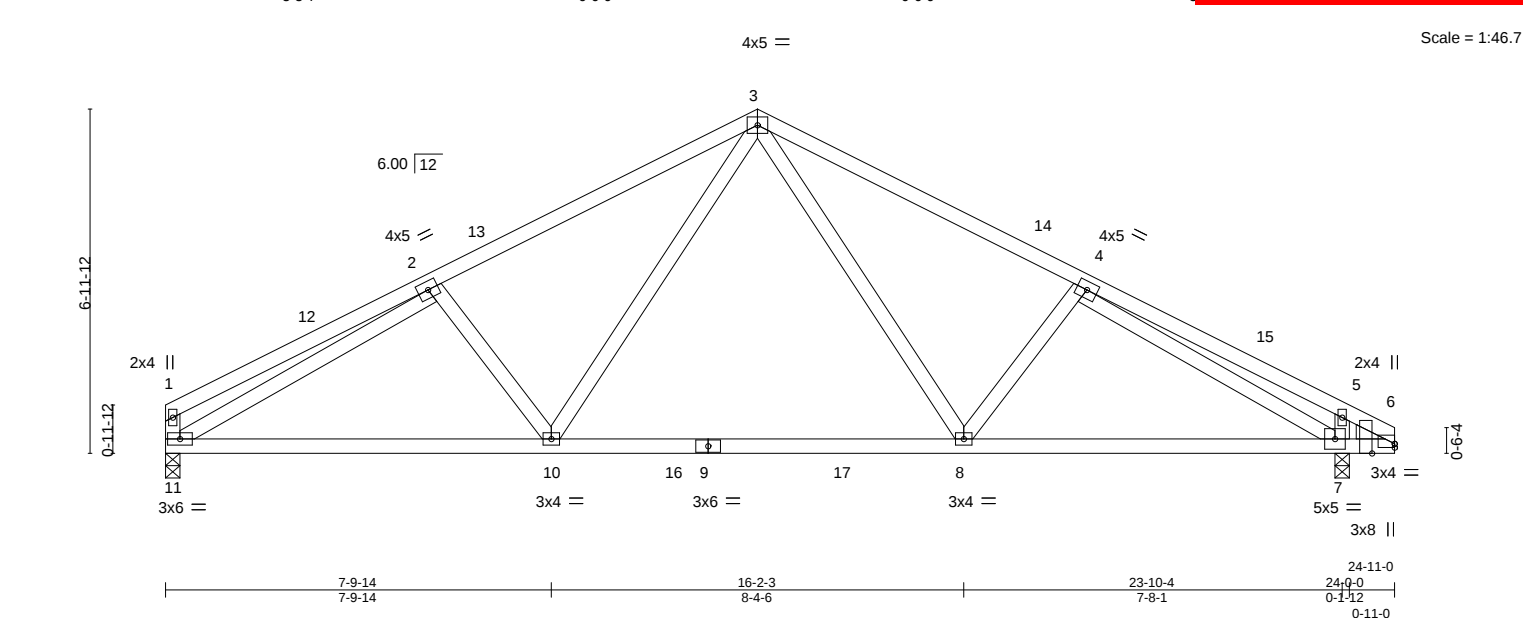


Plate Offsets (X,Y)-- [6:0-0-0,0-0-15], [6:0-2-5,Edge]													
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.18	8-10	>999	240		MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.82	Vert(CT)	-0.29	8-10	>992	180			
TCDL	10.0	Rep Stress Incr	YES	WB	0.98	Horz(CT)	0.05	7	n/a	n/a			
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S								Weight: 133 lb	FT = 20%
BCDL	10.0												

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

REACTIONS.	(size) 7=0-3-8, 11=0-3-8
	Max Horz 11=-117(LC 14)
	Max Uplift 7=-104(LC 16), 11=-96(LC 16)
	Max Grav 7=1206(LC 24), 11=1105(LC 5)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-311/151, 2-3=-1547/457, 3-4=-1535/443, 4-5=-391/152, 5-6=-305/0
BOT CHORD	10-11=-313/1461, 8-10=-98/1013, 7-8=-284/1414, 6-7=-7/288
WEBS	2-10=-345/256, 3-10=-121/617, 3-8=-109/600, 4-8=-344/236, 4-7=-1377/335, 5-7=-264/274, 2-11=-1455/347

- 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=6.0psf; 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 12-0-0, Corner(3R) 12-0-0 to 15-0-0, Exterior(2N) 15-0-0 to 24-11-0 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 11. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716059
210136-R	M6	Common	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:00 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-d62d4k2en0tkh9AeZH9ZyYpHhUutCJmCXpZP8X

10/12/2021

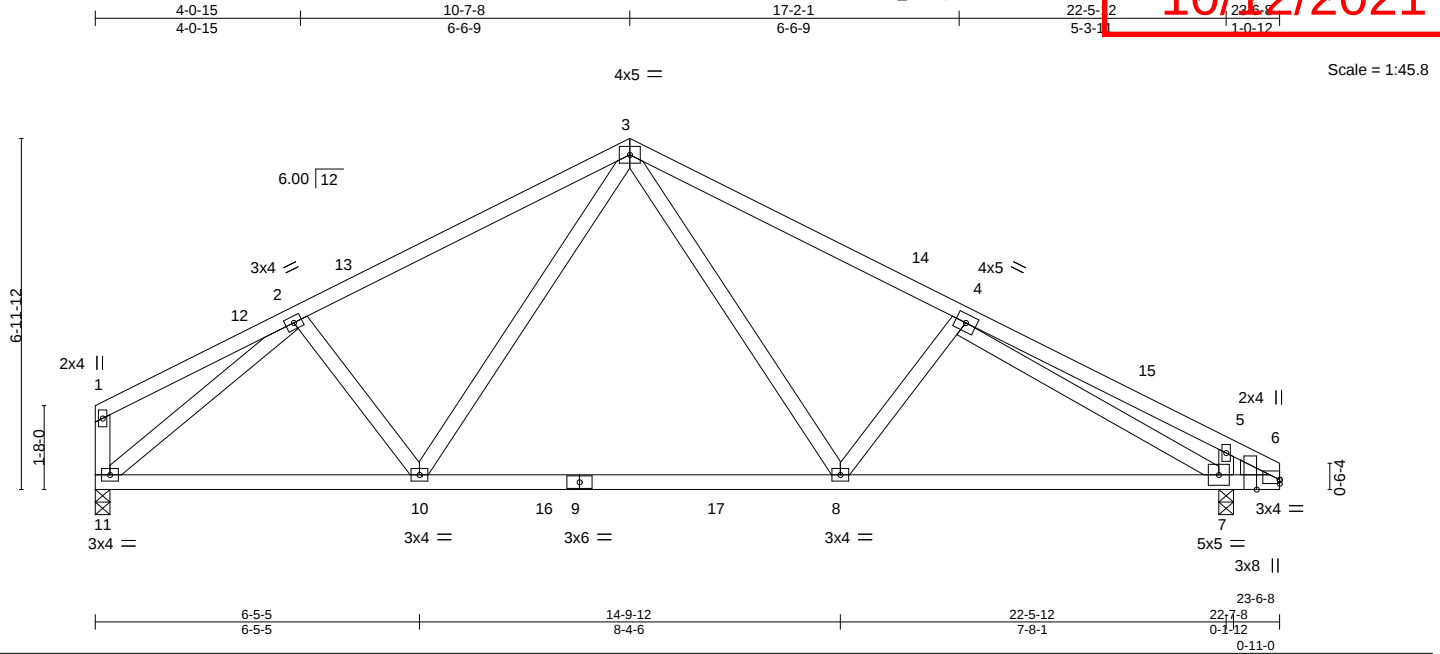


Plate Offsets (X,Y)-- [6:0-0-0,0-0-15], [6:0-2-5,Edge]												
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.18	8-10	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.29	8-10	>922	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.87	Horz(CT)	0.04	7	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							Weight: 128 lb	FT = 20%
BCDL	10.0											

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

REACTIONS. (size) 7=0-3-8, 11=0-3-8
Max Horz 11=-112(LC 14)
Max Uplift 7=-98(LC 16), 11=-92(LC 16)
Max Grav 7=1150(LC 6), 11=1046(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1289/399, 3-4=-1436/415, 4-5=-378/152, 5-6=-293/0
BOT CHORD 10-11=-225/1109, 8-10=-73/899, 7-8=-261/1331, 6-7=-7/277
WEBS 3-10=-71/401, 3-8=-109/616, 4-8=-353/239, 4-7=-1291/307, 5-7=-262/272, 2-11=-1380/339

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 3-1-12, Exterior(2N) 3-1-12 to 10-7-8, Corner(3R) 10-7-8 to 13-7-8, Exterior(2N) 13-7-8 to 23-6-8 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- Unbalanced snow loads have been considered for this design.
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 11. This connection is for uplift only and does not consider lateral forces.
- 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.



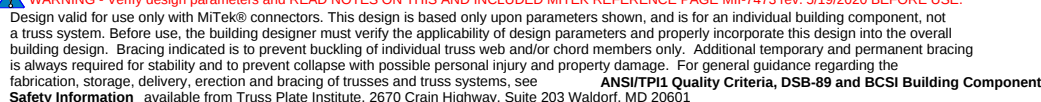
April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017



Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M8	Common	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
Job Reference (optional)						LEE'S SUMMIT, MISSOURI

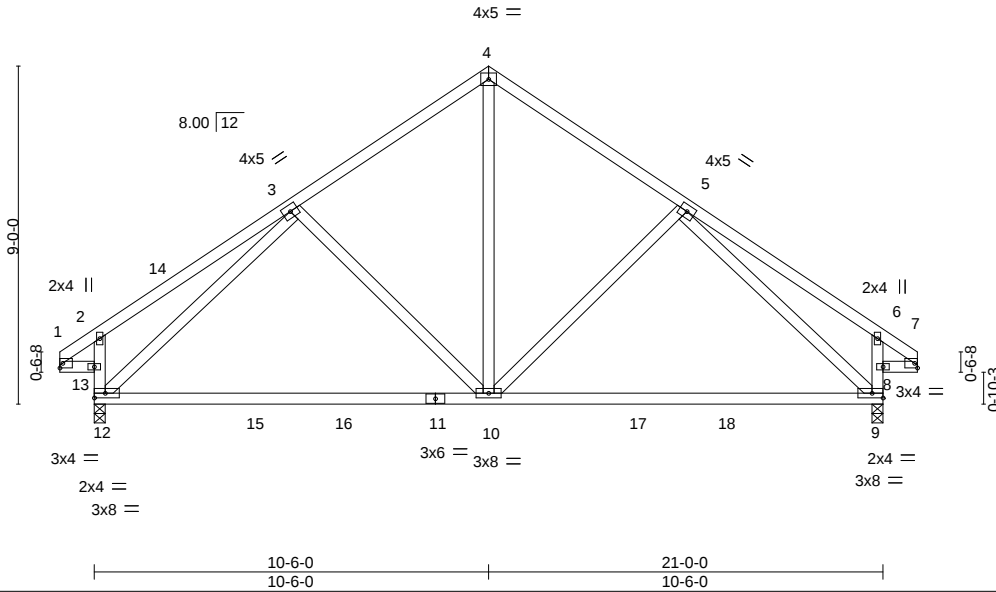
KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:02 2021 Page 1
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-0-11-0 5-4-2 10-6-0 15-7-14 21-0-0 21-11-0
0-11-0 5-4-2 5-1-14 5-1-14 5-4-2 0-11-0

10/12/2021

Scale = 1:61.3



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.37	Vert(LL)	-0.31	10-12	>810	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.53	10-12	>468		
TCDL	10.0	Rep Stress Incr	YES	WB	0.75	Horz(CT)	0.02	9	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							
BCDL	10.0									Weight: 134 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
9-11: 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 12-13, 8-9
BOT CHORD Rigid ceiling directly applied or 9-6-8 oc bracing.

REACTIONS.

(size) 12=0-3-8, 9=0-3-8
Max Horz 12=-198(LC 12)
Max Uplift 12=-87(LC 14), 9=-101(LC 14)
Max Grav 12=1061(LC 19), 9=1069(LC 20)

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

TOP CHORD 2-3=-275/166, 3-4=-860/275, 4-5=-862/275, 5-6=-261/142, 12-13=-323/187,
2-13=-377/237, 8-9=-316/157, 6-8=-371/203
BOT CHORD 10-12=-114/806, 9-10=-109/708
WEBS 4-10=-147/580, 3-12=-827/135, 5-9=-828/143

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=0ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 10-6-0, Corner(3R) 10-6-0 to 13-6-0, Exterior(2N) 13-6-0 to 21-11-0 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12 and 9. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20, 2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M9	Common	2	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
Job Reference (optional)						LEE'S SUMMIT, MISSOURI

KC Truss & Panel Inc. (Urich, MO),

Urich, MO - 64788,

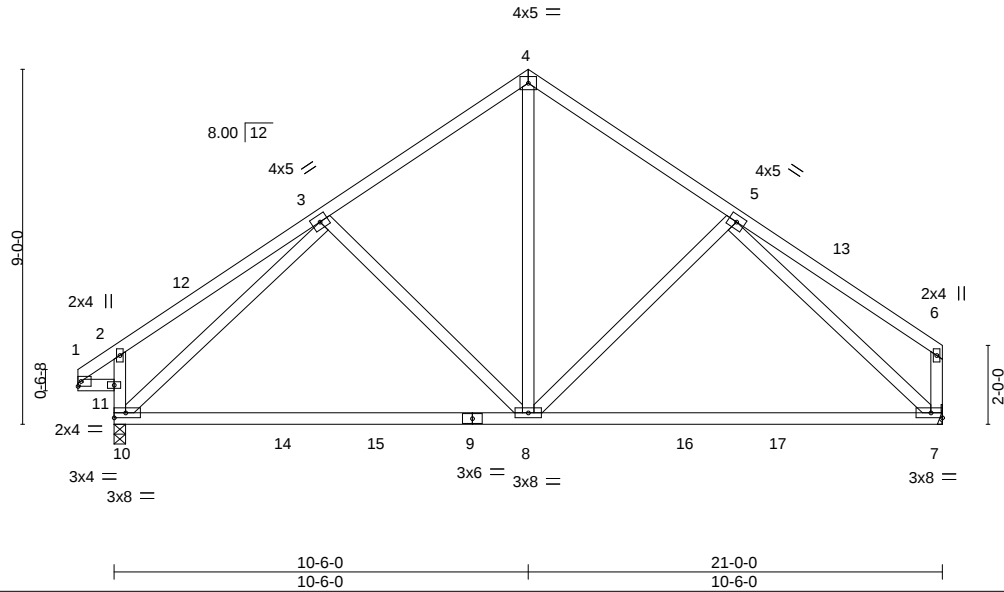
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:03 2021 Page 1

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0-11-0 5-4-2 10-6-0 15-7-14 21-0-0
0-11-0 5-4-2 5-1-14 5-1-14 5-4-2

10/12/2021

Scale = 1:58.4



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.37	Vert(LL)	-0.31 8-10 >814 240	MT20		244/190	
Snow (Pl/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.90	Vert(CT)	-0.53 8-10 >470 180				
TCDL	10.0	Rep Stress Incr	YES	WB	0.77	Horz(CT)	0.02 7 n/a n/a				
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							
BCDL	10.0										
								Weight: 131 lb		FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
7-9: 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-15 oc purlins, except end verticals. Except:
6-0-0 oc bracing: 10-11
BOT CHORD Rigid ceiling directly applied or 9-4-10 oc bracing.

REACTIONS.

(size) 7=Mechanical, 10=0-3-8
Max Horz 10=-193(LC 12)
Max Uplift 7=-86(LC 14), 10=-86(LC 14)
Max Grav 7=978(LC 20), 10=1063(LC 19)

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

TOP CHORD 2-3=-275/166, 3-4=-864/275, 4-5=-866/276, 10-11=-322/187, 2-11=-377/237
BOT CHORD 8-10=-141/804, 7-8=-135/712
WEBS 4-8=-149/587, 5-7=-849/194, 3-10=-831/137

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) -0-11-0 to 2-1-0, Exterior(2N) 2-1-0 to 10-6-0, Corner(3R) 10-6-0 to 13-6-0, Exterior(2N) 13-6-0 to 20-10-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
- 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) 7.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20, 2021

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

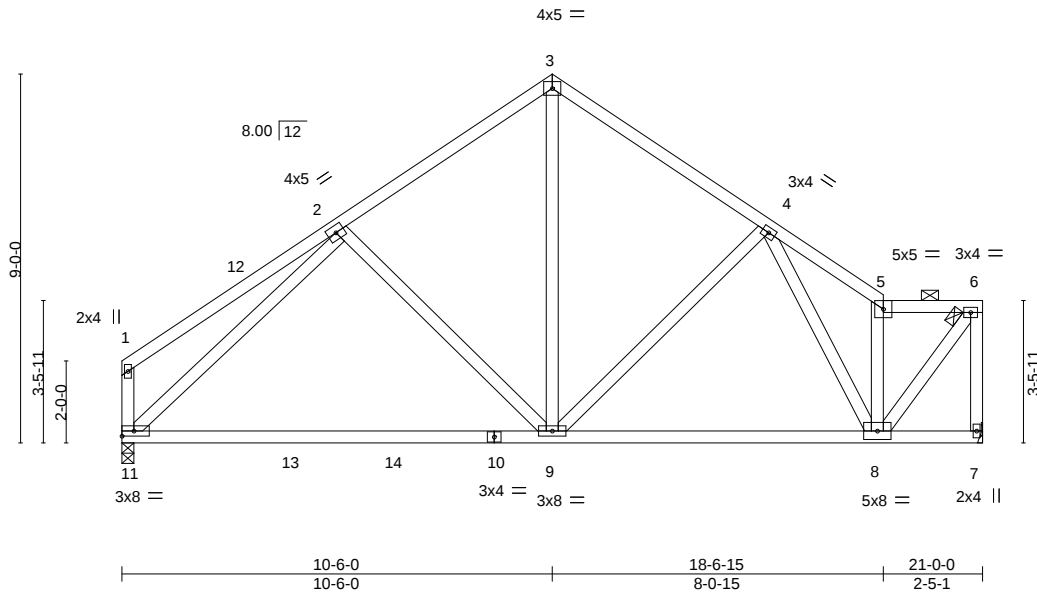
Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M10	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:43 2021 Page 1					145716063
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5-4-2 10-6-0 15-7-14 18-6-15 21-0-0					5-4-2 5-1-14 5-1-14 2-11-1 2-5-1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.95	Vert(LL) -0.40 9-11 >621 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.76	Vert(CT) -0.67 9-11 >368 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.02 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 137 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	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.): 5-6.
BOT CHORD 2x4 SP No.2 *Except* 7-10: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 7=Mechanical, 11=0-3-8
Max Horz 11=-137(LC 12)
Max Uplift 7=-89(LC 14), 11=-81(LC 14)
Max Grav 7=945(LC 21), 11=1005(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-253/102, 2-3=-840/267, 3-4=-845/263, 4-5=-765/184, 5-6=-646/126, 6-7=-924/206, 1-11=-273/133
BOT CHORD 9-11=-196/787, 8-9=-156/713
WEBS 3-9=-133/562, 5-8=-500/152, 6-8=-199/1049, 2-11=-830/188

- 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=6.0psf; 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 10-6-0, Corner(3R) 10-6-0 to 13-6-0, Exterior(2N) 13-6-0 to 20-10-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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.
 - 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) 7.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
 - 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.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-66, 3-5=-66, 5-6=-66, 7-11=-20



April 20, 2021

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

MiTek
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	M10	Roof Special	1	1	
					Job Reference (optional)

KC Truss & Panel Inc. (Urlich, MO),

Urlich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:44 2021 Page 2

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RELEASE FOR CONSTRUCTION

AS NOTED FOR PLAN REVIEW

DEVELOPMENT SERVICES

LEE'S SUMMIT, MISSOURI

145716063

LOAD CASE(S)

Standard

Concentrated Loads (lb)

Vert: 1=-30

10/12/2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M11	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:44 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-514ZjGsbY6s?mizdwtp3443sfmJ4jEygSknc12P3y5
10/12/2021

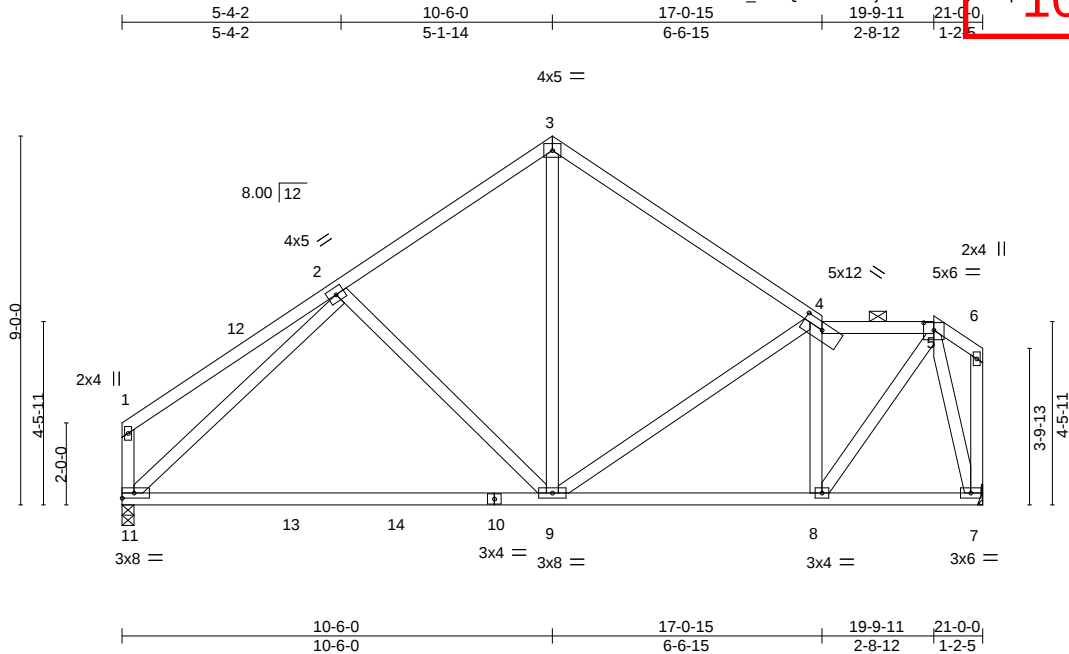


Plate Offsets (X,Y)--		[4:0-6-0,0-2-2], [5:0-3-0,0-2-3]							
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0		TC	0.88	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.99	9-11	>606		244/190
TCDL	10.0	Lumber DOL	1.15	WB	0.75	9-11	>356		
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-S		n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014						Weight: 140 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD	2x4 SP No.2 *Except* 7-10: 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, 7=Mechanical
Max Horz 11=-134(LC 12)
Max Uplift 11=-79(LC 14), 7=-91(LC 14)
Max Grav 11=1007(LC 19), 7=946(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-258/103, 2-3=-836/265, 3-4=-875/243, 4-5=-743/202, 1-11=-277/135
BOT CHORD 9-11=-205/784, 8-9=-162/722
WEBS 3-9=-89/533, 4-8=-663/233, 5-8=-221/942, 2-11=-821/182, 5-7=-857/193

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; 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 10-6-0, Corner(3R) 10-6-0 to 13-6-0, Exterior(2N) 13-6-0 to 19-9-11, Corner(3E) 19-9-11 to 20-10-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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.
 - 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) 7.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
 - 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.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-66, 3-4=-66, 4-5=-66, 5-6=-66, 7-11=-20

Continued on page 2



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	M11	Roof Special	1	1	
KC Truss & Panel Inc. (Urish, MO),		Urish, MO - 64788,	Job Reference (optional)		

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:45 2021 Page 2
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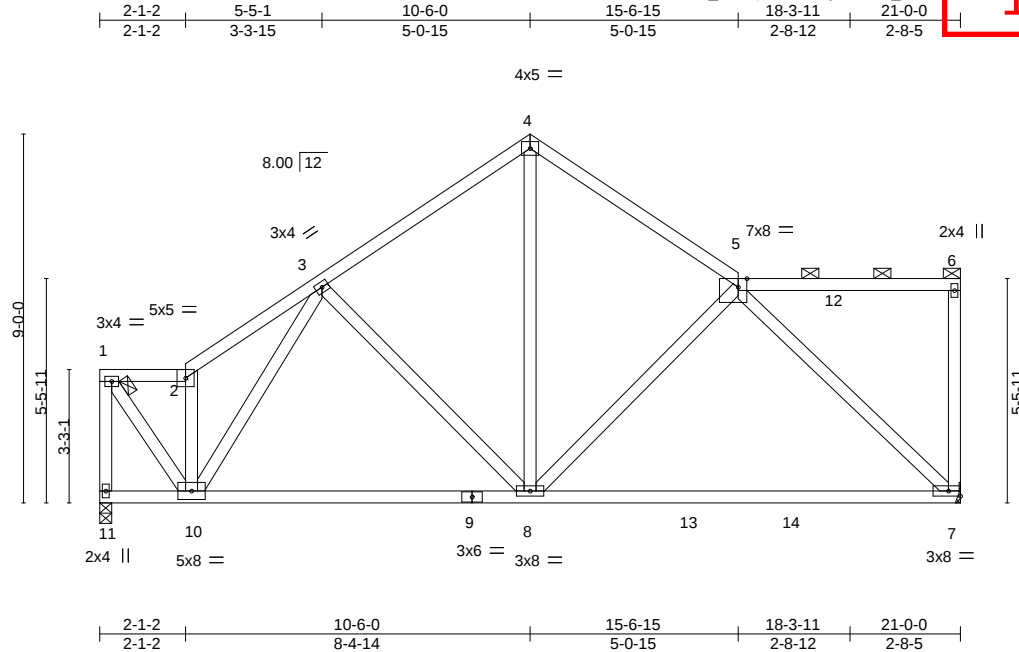
145716064
LEE'S SUMMIT, MISSOURI
10/12/2021

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 1=-30

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M12	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:45 2021 Page 1
ID:hi?rkPj3nvL67kOtbcc_eRzQm8d-aEeyxbtDJP_sOsXnBdO2cnChG7wP5MSLw4FvzP3ya

10/12/2021



Scale = 1:56.2

Plate Offsets (X,Y)-- [5:0-2-8,Edge]											
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0		TC	0.45	in (loc)	l/defl	MT20		244/190	
Snow (Pf/Pg)	23.1/30.0	Plate Grip DOL	1.15	BC	0.91	Vert(LL)	-0.39				
TCDL	10.0	Lumber DOL	1.15	WB	0.89	Vert(CT)	-0.66				
BCLL	0.0 *	Rep Stress Incr	NO	Matrix-S		Horz(CT)	0.02				
BCDL	10.0	Code IRC2018/TPI2014									
								Weight: 140 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-10-8 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 5-6.
BOT CHORD	2x4 SP No.2 *Except* 7-9: 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, 7=Mechanical
Max Horz 11=-102(LC 12)
Max Uplift 11=-72(LC 14), 7=-98(LC 14)
Max Grav 11=981(LC 19), 7=978(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-980/179, 1-2=-626/100, 2-3=-755/167, 3-4=-828/230, 4-5=-854/226
BOT CHORD 8-10=-216/784, 7-8=-190/699
WEBS 1-10=-164/1069, 2-10=-510/154, 4-8=-87/579, 5-7=-930/272

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-1-12 to 2-1-2, Exterior(2N) 2-1-2 to 10-6-0, Corner(3R) 10-6-0 to 13-6-0, Exterior(2N) 13-6-0 to 20-10-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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.
 - 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) 7.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
 - 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.

LOAD CASE(S) Standard

- Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-66, 2-4=-66, 4-5=-66, 5-6=-66, 7-11=-20

Continued on page 2



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	M12	Roof Special	1	1	Job Reference (optional)

KC Truss & Panel Inc. (Urlich, MO),
 Urlich, MO - 64788,
 8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:45 2021 Page 2

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RELEASE FOR CONSTRUCTION
 AS NOTED FOR PLAN REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 10/12/2021

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 1=-30

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716066
210136-R	M13	Roof Special	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

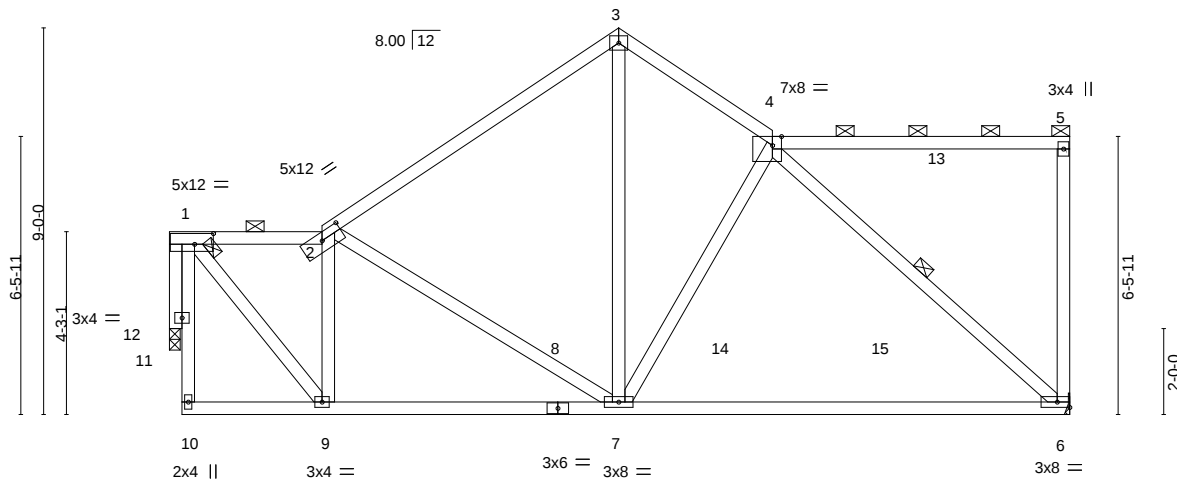
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:46 2021 Page 1
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10/12/2021

0-3-8 3-6-10 10-5-8 14-0-7 20-11-8
0-3-8 3-3-2 6-10-14 3-6-15 6-11-1

4x5 =

Scale = 1:53.6



0-3-8 3-6-10 10-5-8 14-0-7 20-11-8
0-3-8 3-3-2 6-10-14 3-6-15 6-11-1

Plate Offsets (X,Y)-- [1:0-5-4,0-3-0], [2:0-6-0,0-2-2], [4:0-2-9,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.86	Vert(LL) -0.44	6-7	>558	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.87	Vert(CT) -0.73	6-7	>341	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.35	Horz(CT) 0.03	6	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 143 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
6-8: 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 4-5.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-6

REACTIONS.

(size) 6=Mechanical, 12=0-3-0
Max Horz 12=80(LC 12)
Max Uplift 6=95(LC 14), 12=70(LC 14)
Max Grav 6=987(LC 20), 12=932(LC 20)

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

TOP CHORD 1-2=-745/115, 2-3=-878/169, 3-4=-836/208
BOT CHORD 7-9=-199/758, 6-7=-174/709
WEBS 1-9=-226/1057, 2-9=-714/236, 3-7=-29/578, 4-6=-910/234, 1-12=-943/187

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-5-4 to 3-6-10, Exterior(2N) 3-6-10 to 10-5-8, Corner(3R) 10-5-8 to 13-5-8, Exterior(2N) 13-5-8 to 20-9-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 12 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) 6.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

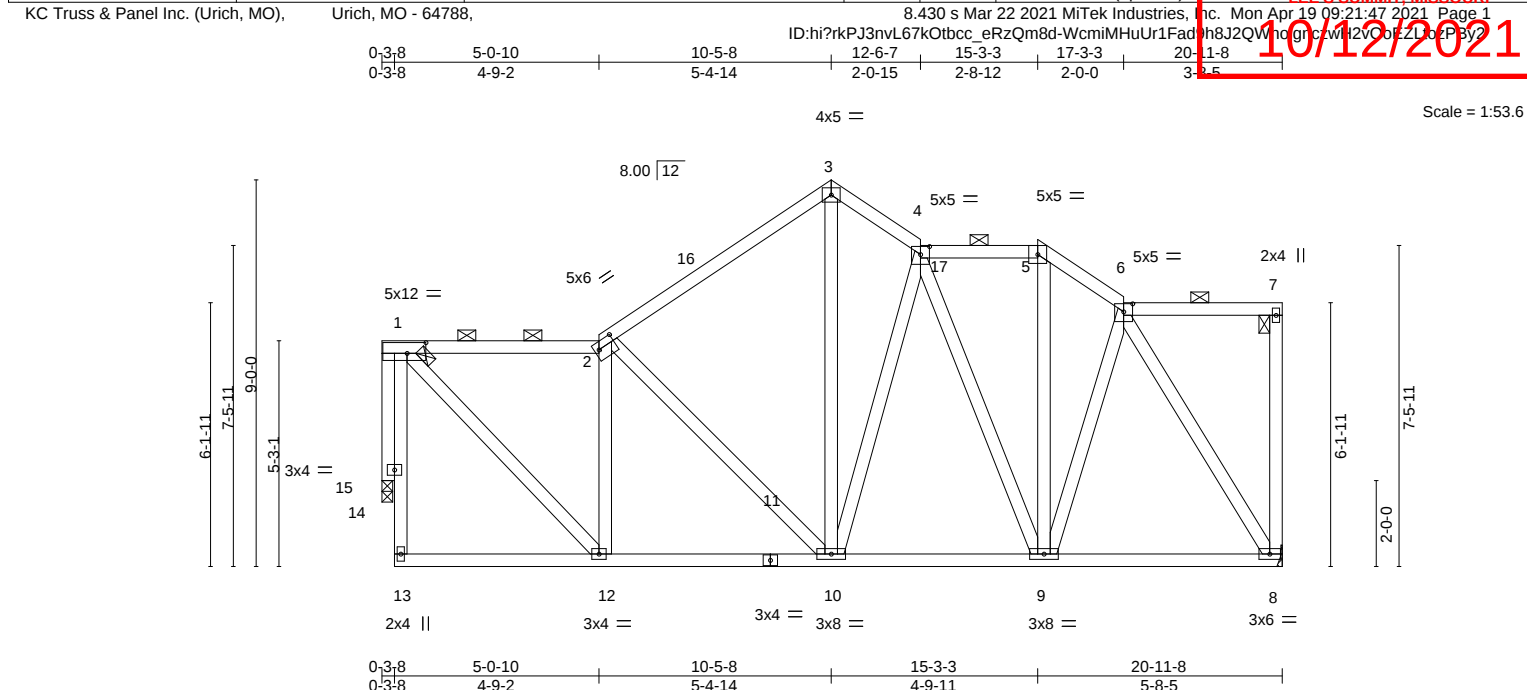
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M14	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.03	8-9	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.06	10-12	>999	180		
TCDL 10.0	Rep Stress Incr YES	WB 0.69	Horz(CT) 0.04	8	n/a	n/a		
BCLL 0.0 *	Code IRC2018/TPI2014	Matrix-S						
BCDL 10.0							Weight: 176 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x4 SP No.2	Structural wood sheathing directly applied or 5-7-14 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2, 4-5, 6-7.
WEBS 2x4 SP No.2	BOT CHORD
OTHERS 2x4 SP No.2	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 8=Mechanical, 15=0-3-0
	Max Horz 15=-72(LC 12)
	Max Uplift 8=-88(LC 14), 15=-76(LC 14)
	Max Grav 8=891(LC 1), 15=865(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-712/62, 2-3=-760/124, 3-4=-671/154, 4-5=-504/105, 5-6=-648/107
BOT CHORD	10-12=-99/694, 9-10=-83/609, 8-9=-63/444
WEBS	1-12=-99/923, 2-12=-569/144, 3-10=-37/459, 4-10=-255/65, 4-9=-285/62, 6-8=-848/123, 1-15=-870/89

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=9ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 10-5-8, Exterior(2E) 10-5-8 to 12-6-7, Interior(1) 12-6-7 to 15-3-3, Exterior(2E) 15-3-3 to 17-3-3, Interior(1) 17-3-3 to 20-9-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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.
 - 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) 8.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
 - 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.



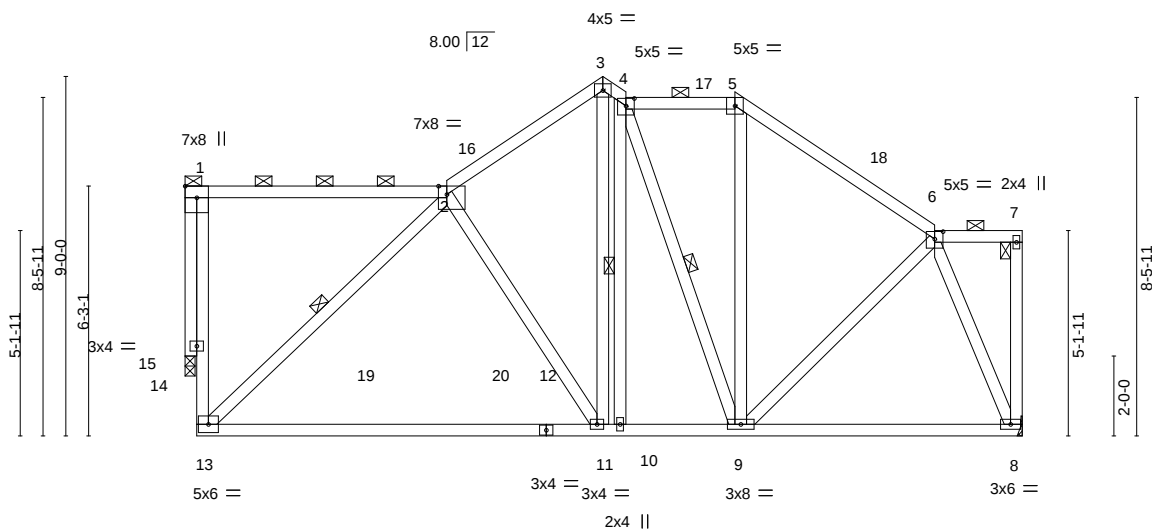
April 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M15	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
Job Reference (optional)						LEE'S SUMMIT, MISSOURI

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:48 2021 Page 1
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10/12/2021



Scale = 1:57.7

Plate Offsets (X,Y)--		[1:Edge,0-3-8], [2:0-2-8,Edge], [4:0-2-8,0-2-4], [6:0-2-8,0-2-4]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0 *	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.59
		BC	0.85
		WB	0.42
		Matrix-S	
		DEFL.	
		Vert(LL)	-0.39 11-13 >636 240
		Vert(CT)	-0.65 11-13 >384 180
		Horz(CT)	0.04 8 n/a n/a
		PLATES	MT20
		GRIP	244/190
		Weight:	175 lb
		FT =	20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	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, 4-5, 6-7.
BOT CHORD	2x4 SP No.2 *Except* 8-12: 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
OTHERS	2x4 SP No.2		2-13, 4-10, 4-9

REACTIONS. (size) 8=Mechanical, 15=0-3-0
Max Horz 15=72(LC 13)
Max Uplift 8=77(LC 14), 15=89(LC 10)
Max Grav 8=955(LC 21), 15=946(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 13-14=-42/771, 1-14=-42/771, 2-3=-839/137, 3-4=-794/97, 4-5=-574/148, 5-6=-751/129
BOT CHORD 11-13=-85/727, 10-11=-33/642, 9-10=-32/648, 8-9=-53/353
WEBS 2-13=-851/137, 3-11=0/815, 4-10=-390/16, 4-9=-258/0, 6-9=0/321, 6-8=-881/150, 1-15=-950/102

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=7ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 10-5-8, Exterior(2E) 10-5-8 to 11-0-7, Interior(1) 11-0-7 to 13-9-3, Exterior(2R) 13-9-3 to 16-9-3, Interior(1) 16-9-3 to 20-9-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - 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) 8.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 15. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

MiTek®
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M16	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
Job Reference (optional)						LEE'S SUMMIT, MISSOURI

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:49 2021 Page 1

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0-3-8 8-0-10 11-4-9 12-3-3 17-10-11 20-3-3 20-11-8
0-3-8 7-9-2 3-3-15 0-10-10 5-7-7 2-4-9 0-8-5

Scale = 1:57.2

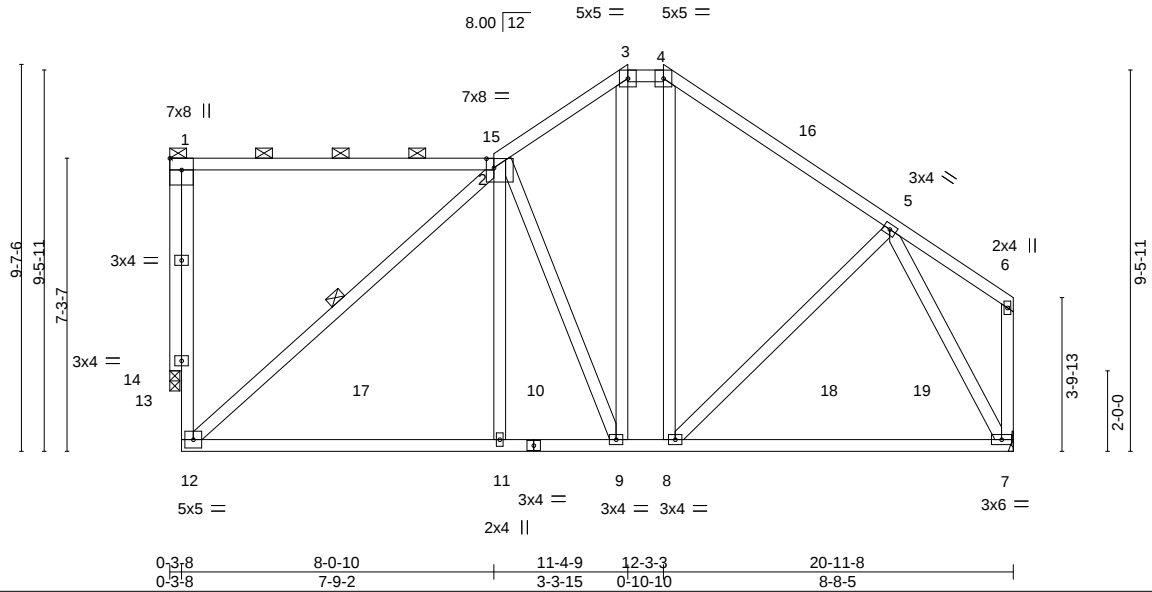


Plate Offsets (X,Y)-- [1:Edge,0-3-8], [2:0-2-4,0-2-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.95	Vert(LL) -0.21	7-8	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.72	Vert(CT) -0.35	7-8	>704	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.59	Horz(CT) 0.07	7	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 171 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-12 oc purlins, except end verticals, and 2-0-0 oc purlins (2-2-0 max.): 1-2, 3-4.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-12

REACTIONS.

(size) 7=Mechanical, 14=0-3-0
Max Horz 14=-109(LC 14)
Max Uplift 7=-65(LC 14), 14=-112(LC 10)
Max Grav 7=1003(LC 21), 14=963(LC 21)

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

TOP CHORD 12-13=-30/747, 1-13=-30/747, 2-3=-766/181, 3-4=-578/169, 4-5=-775/151
BOT CHORD 11-12=-19/754, 9-11=-17/760, 8-9=0/574, 7-8=-50/446
WEBS 2-12=-902/115, 2-11=0/353, 2-9=-441/68, 3-9=-115/270, 4-8=0/310, 5-7=-883/127, 1-14=-965/113

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=5ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 11-4-9, Exterior(2E) 11-4-9 to 12-3-3, Exterior(2R) 12-3-3 to 15-3-3, Interior(1) 15-3-3 to 20-9-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 14 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) 7.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 14. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M17	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:50 2021 Page 1
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10/12/2021

0-3-8 9-6-10 11-9-14 16-11-15 20-11-8
0-3-8 9-3-2 2-3-4 5-2-1 3-11-9

8.00 | 12 5x6 =

Scale = 1:58.9

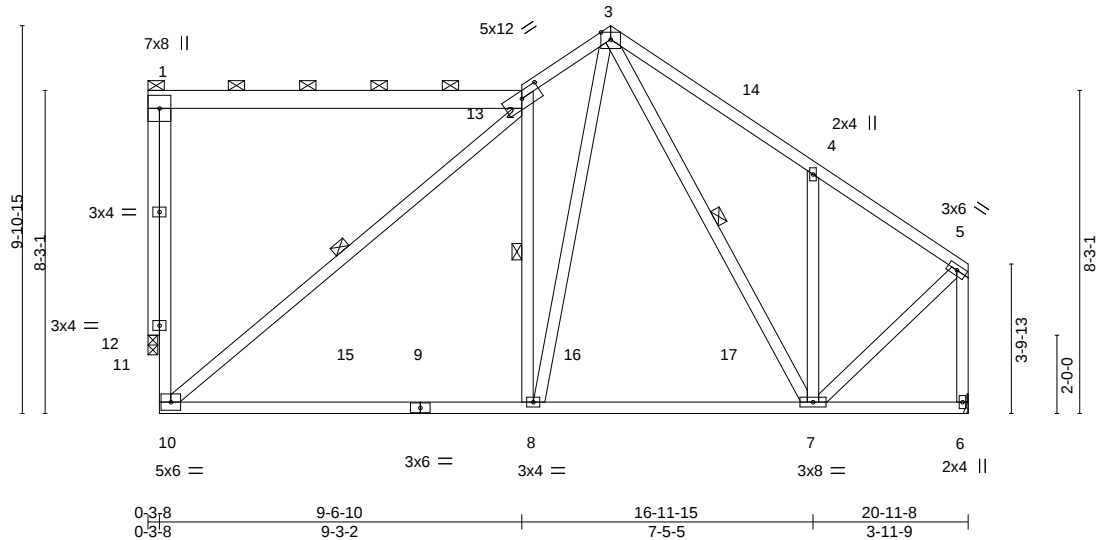


Plate Offsets (X,Y)-- [2:0-6-0,0-2-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.68	Vert(LL) -0.30	8-10	>826	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.99	Vert(CT) -0.51	8-10	>487	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.69	Horz(CT) 0.07	6	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 174 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
1-2: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-10-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-2.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 2-10, 2-8, 3-7

REACTIONS.

(size) 6=Mechanical, 12=0-3-0
Max Horz 12=-137(LC 14)
Max Uplift 6=-58(LC 14), 12=-132(LC 10)
Max Grav 6=1026(LC 21), 12=998(LC 21)

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

TOP CHORD 10-11=-21/740, 1-11=-21/740, 2-3=-951/196, 3-4=-801/219, 4-5=-720/80, 5-6=-980/83
BOT CHORD 8-10=0/732, 7-8=0/571
WEBS 2-10=-880/117, 2-8=-362/177, 3-8=-69/740, 4-7=-354/192, 5-7=-29/753, 1-12=-1000/133

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=3ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2E) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 11-9-14, Exterior(2R) 11-9-14 to 14-9-14, Interior(1) 14-9-14 to 20-9-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 12 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) 6.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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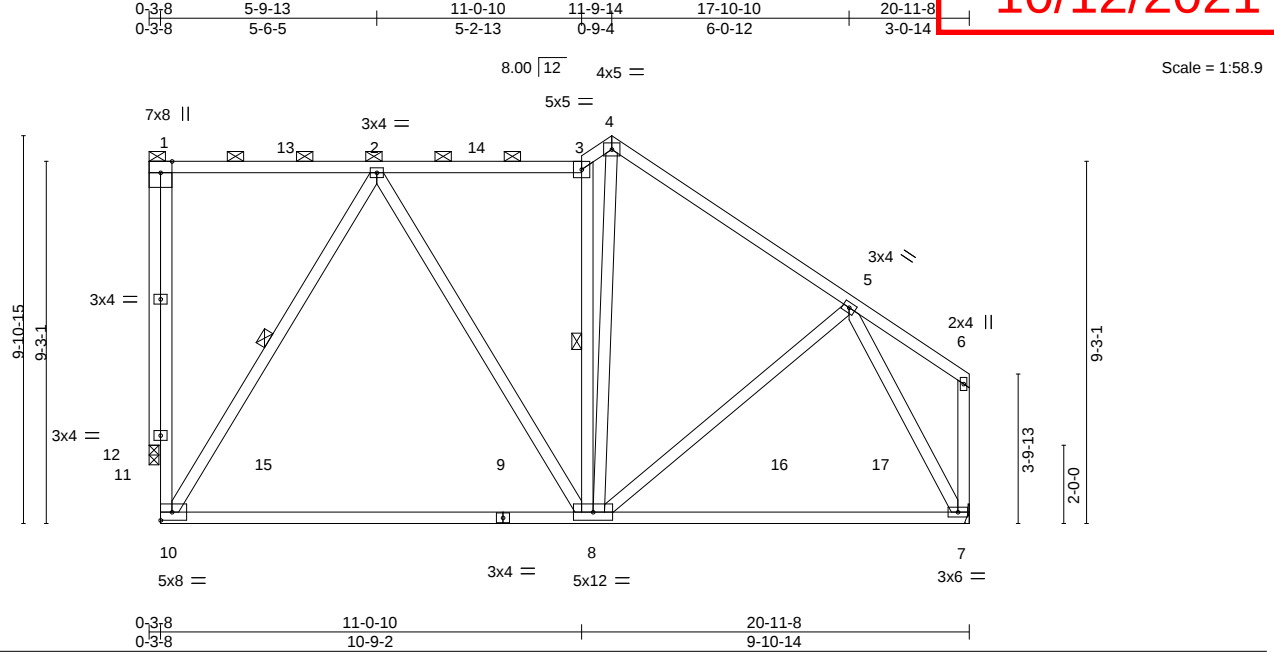
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	M18	Roof Special	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
Job Reference (optional)						LEE'S SUMMIT, MISSOURI

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:21:52 2021 Page 1
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10/12/2021



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.61	in (loc) l/defl L/d	MT20	197/144
Snow (Pl/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) -0.62 8-10 >399 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.99	Vert(CT) -0.94 8-10 >263 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.14 7 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014			Weight: 169 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SPF No.2 *Except*
7-9: 2x4 SP 2400F 2.0E
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 2-10, 3-8

REACTIONS.

(size) 7=Mechanical, 12=0-3-0
Max Horz 12=-172(LC 14)
Max Uplift 7=-47(LC 14), 12=-159(LC 10)
Max Grav 7=1031(LC 21), 12=1005(LC 21)

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

TOP CHORD 10-11=-154/874, 1-11=-154/874, 2-3=-681/211, 3-4=-743/226, 4-5=-835/195
BOT CHORD 8-10=0/476, 7-8=-81/464
WEBS 2-10=-785/256, 2-8=-51/383, 3-8=-466/156, 4-8=-83/571, 5-7=-948/193, 1-12=-1006/247

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-5-4 to 3-5-4, Exterior(2N) 3-5-4 to 11-9-14, Corner(3R) 11-9-14 to 14-9-14, Exterior(2N) 14-9-14 to 20-9-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 12 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) 7.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20, 2021

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

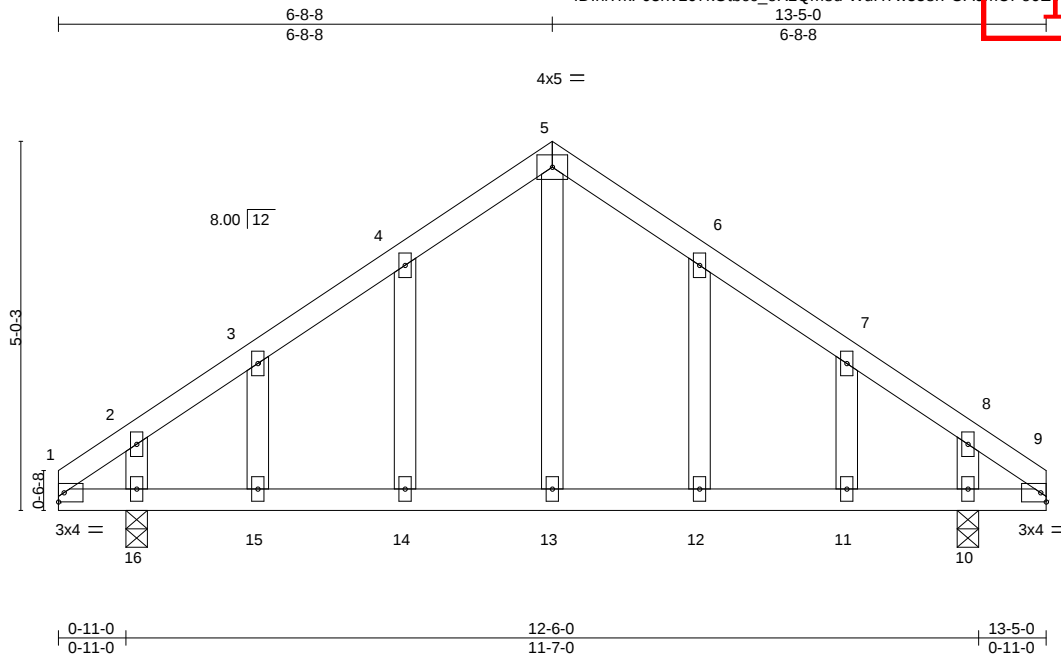
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	P1	Common Supported Gable	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:04 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-WuH7w558rFOASmUPo6EYtOvC1TjmuGurDAhJzP3xr



Scale = 1:31.3

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.04 14-15	L/defl	>999	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.07 14	L/d	>999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.01 10		n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S							
BCDL	10.0									Weight: 68 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 16=0-3-8, 10=0-3-8
Max Horz 16=-104(LC 12)
Max Uplift 16=-54(LC 14), 10=-54(LC 14)
Max Grav 16=578(LC 1), 10=578(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-335/34, 2-3=-453/127, 3-4=-414/179, 4-5=-378/249, 5-6=-378/249, 6-7=-414/179,
7-8=-453/127, 8-9=-335/34
BOT CHORD 1-16=-10/310, 15-16=-10/310, 14-15=-10/310, 13-14=-10/310, 12-13=-10/310,
11-12=-10/310, 10-11=-10/310, 9-10=-10/310
WEBS 2-16=-259/163, 8-10=-259/163

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3E) 0-0-0 to 2-8-8, Exterior(2N) 2-8-8 to 6-8-8, Corner(3R) 6-8-8 to 9-8-8, Exterior(2N) 9-8-8 to 13-5-0 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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 2x4 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 16 and 10. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20, 2021

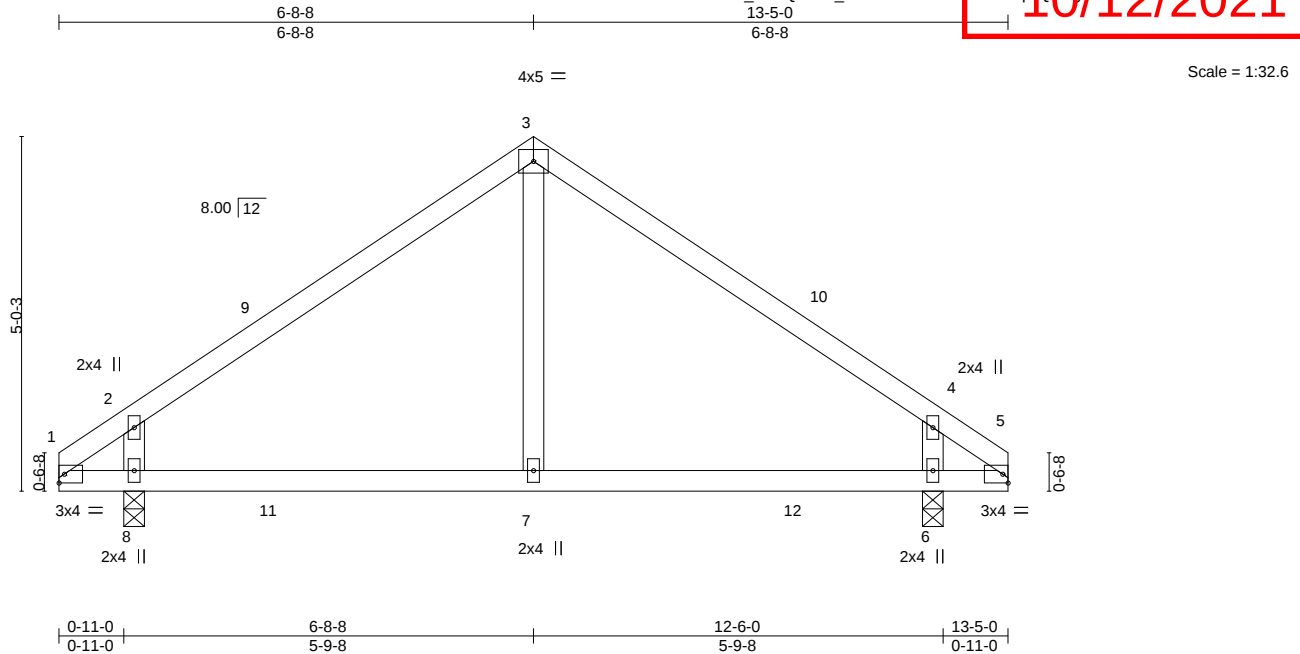
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	P2	Common	2	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,						LEE'S SUMMIT, MISSOURI
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:05 2021 Page 1						145716073
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-4rW7R6mcZW1hw3cMqkQvRys5cVJ6xZWVlPzxm						10/12/2021



LOADING (psf)		SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof)	20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
Snow (Pl/Pg)	23.1/30.0	Plate Grip DOL 1.15	BC 0.33	Vert(LL) 0.05 7-8 >999 240		
TCDL	10.0	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.04 6-7 >999 180		
BCLL	0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 6 n/a n/a		
BCDL	10.0	Code IRC2018/TPI2014			Weight: 53 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 6=0-3-8
Max Horz 8=-104(LC 12)
Max Uplift 8=-204(LC 14), 6=-178(LC 14)
Max Grav 8=578(LC 1), 6=578(LC 1)

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

TOP CHORD 1-2=-273/271, 2-3=-481/520, 3-4=-481/520, 4-5=-273/271
BOT CHORD 1-8=-265/302, 7-8=-265/302, 6-7=-265/302, 5-6=-265/302
WEBS 3-7=-350/202, 2-8=-414/384, 4-6=-414/384

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=6.0psf; 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 6-8-8, Corner(3R) 6-8-8 to 9-8-8, Exterior(2N) 9-8-8 to 13-5-0 zone; cantilever left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 6. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 210136-R	Truss R0	Truss Type Half Hip Girder	Qty 1	Ply 1	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/12/2021
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KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:07 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-wSzGY7818AmI0EId_UFnCVDX75pJB29FL0LPPezP3xh

1-0-12	1-11-4	6-4-12	11-0-0	15-9-0
1-0-12	0-10-8	4-5-8	4-7-4	4-9-0

Scale = 1:26.8

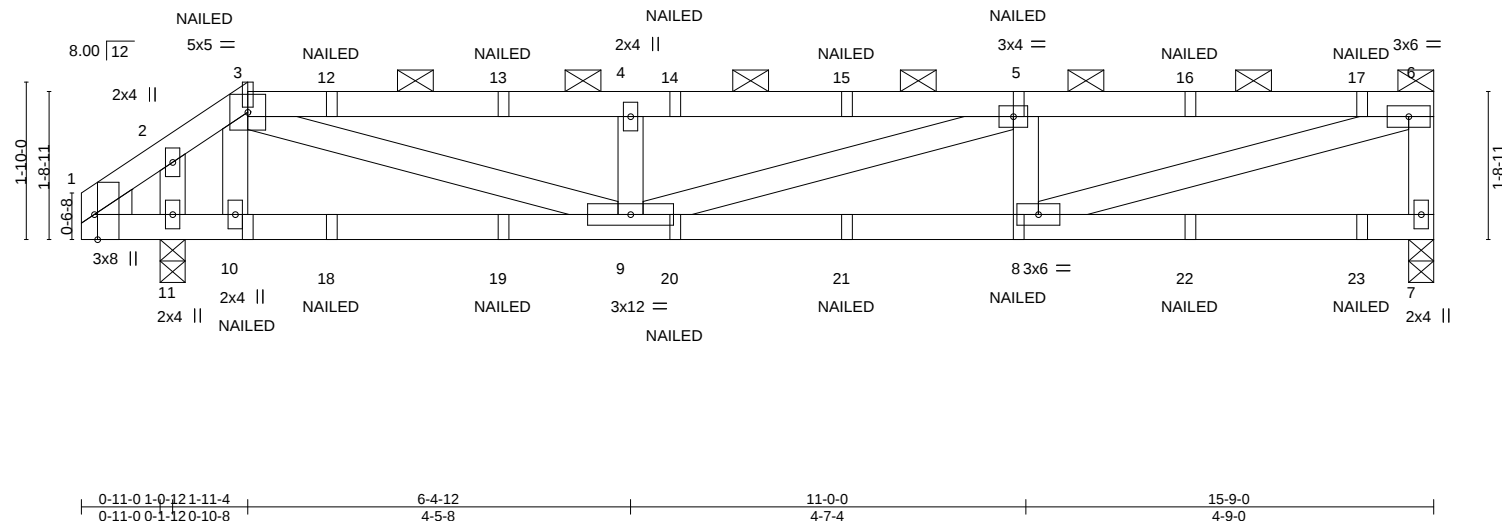


Plate Offsets (X,Y)-- [1:0-3-8,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	Plate Grip DOL	2-0-0	TC	0.36	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.51	Vert(LL)	-0.07 8-9 >999	244/190	
TCDL	10.0	Rep Stress Incr	NO	WB	0.35	Vert(CT)	-0.14 8-9 >999		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S		Horz(CT)	0.01 7 n/a n/a		
BCDL	10.0							Weight: 76 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-4-14 max.): 3-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 7=0-3-8, 11=0-3-8
Max Horz 11=56(LC 47)
Max Uplift 7=-142(LC 7), 11=-151(LC 7)
Max Grav 7=615(LC 1), 11=660(LC 1)

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

TOP CHORD 1-2=-315/105, 2-3=-389/114, 3-4=-1509/358, 4-5=-1508/357, 5-6=-1419/323, 6-7=-564/154
BOT CHORD 1-11=-87/275, 10-11=-95/275, 9-10=-104/300, 8-9=-323/1419
WEBS 3-10=-269/92, 3-9=-272/1272, 4-9=-329/131, 5-8=-340/140, 6-8=-321/1412

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=6.0psf; h=20ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 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
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 7 and 11. This connection is for uplift only and does not consider lateral forces.
- 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 skew 45 to 135 degrees (0.148" x 3") 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=-66, 3-6=-66, 1-7=-20

Continued on page 2



April 20,2021

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

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	R0	Half Hip Girder	1	1	Job Reference (optional)

KC Truss & Panel Inc. (Urlich, MO),
 Urlich, MO - 64788,
 8.430 s Mar 22 2021

MiTek Industries, Inc.
 Mon Apr 19 09:22:07 2021
 Page 2
 ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-wSzGY7818Aml0ED_UFnCVDX75jyB29FL0LPP7ezPBxk

RELEASE FOR CONSTRUCTION
 AS NOTED FOR PLAN REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 145716074

LOAD CASE(S)
 Standard
 Concentrated Loads (lb)
 Vert: 3=29(F) 10=31(F) 8=1(F) 18=1(F) 19=1(F) 20=1(F) 21=1(F) 22=1(F) 23=1(F)

10/12/2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	R1	Half Hip Girder	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:08 2021 Page 1
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10/12/2021

Scale = 1:27.2

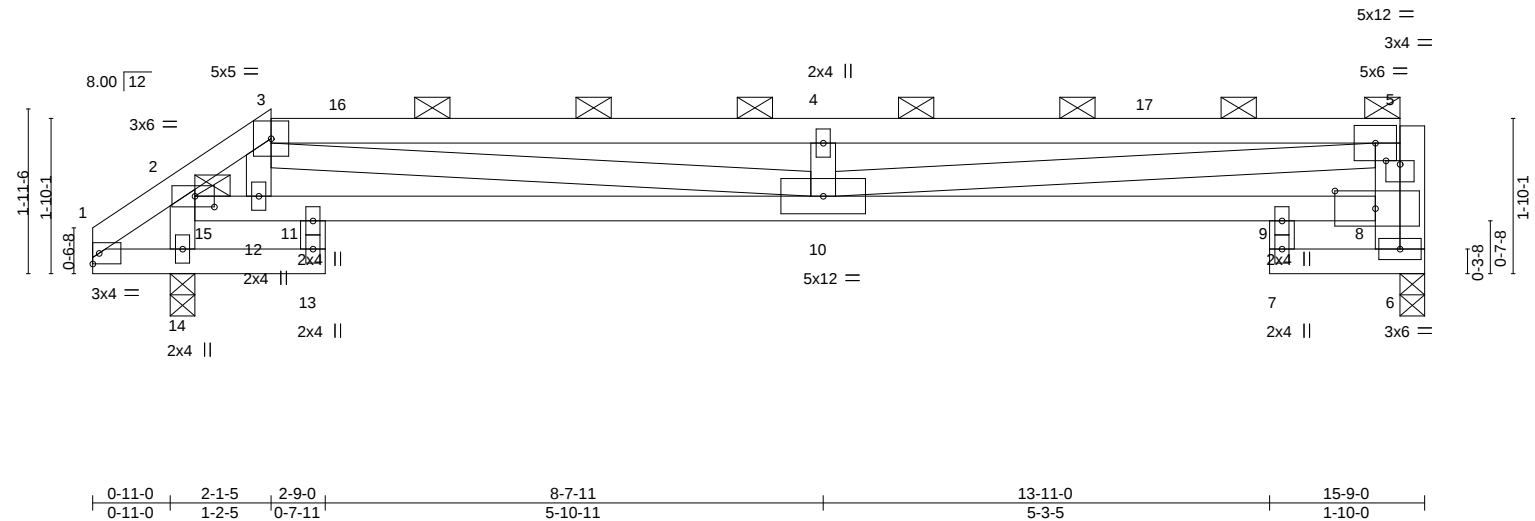


Plate Offsets (X,Y)-- [2:0-2-12,0-1-8], [5:0-2-0,0-0-8], [8:0-5-12,0-2-8]															
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.				PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.92	Vert(LL)	-0.20	10	>885	240	MT20	244/190			
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.51	Vert(CT)	-0.36	10-11	>477	180					
TCDL	10.0	Rep Stress Incr	NO	WB	0.52	Horz(CT)	0.05	6	n/a	n/a					
BCLL	0.0 *	Code	IRC2018/TPI2014	Matrix-S											
BCDL	10.0														
											Weight: 79 lb	FT = 20%			

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

REACTIONS.	(size) 6=0-3-8, 14=0-3-8 Max Horz 14=50(LC 14) Max Uplift 6=129(LC 11), 14=93(LC 11) Max Grav 6=617(LC 1), 14=715(LC 1)
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FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-317/46, 2-3=-1014/161, 3-4=-2530/538, 4-5=-2530/538, 6-8=-532/142, 5-8=-511/161
BOT CHORD	1-14=-32/280, 12-15=-157/855, 11-12=-169/849, 10-11=-169/849, 9-10=-58/420, 8-9=-58/420
WEBS	3-10=-372/1698, 4-10=-452/215, 5-10=-484/2129, 14-15=-389/108, 2-15=-448/71

- 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=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-0-0 to 2-1-5, Exterior(2E) 2-1-5 to 15-5-8 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 14. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

Job 210136-R	Truss R2	Truss Type Half Hip	Qty 1	Ply 1	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 10/12/2021
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KC Truss & Panel Inc. (Urlich, MO), Urlich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:15 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-h?SIEsE2Fdmc_qXyww4jtsSyUvMhMWEdLoAZHExo



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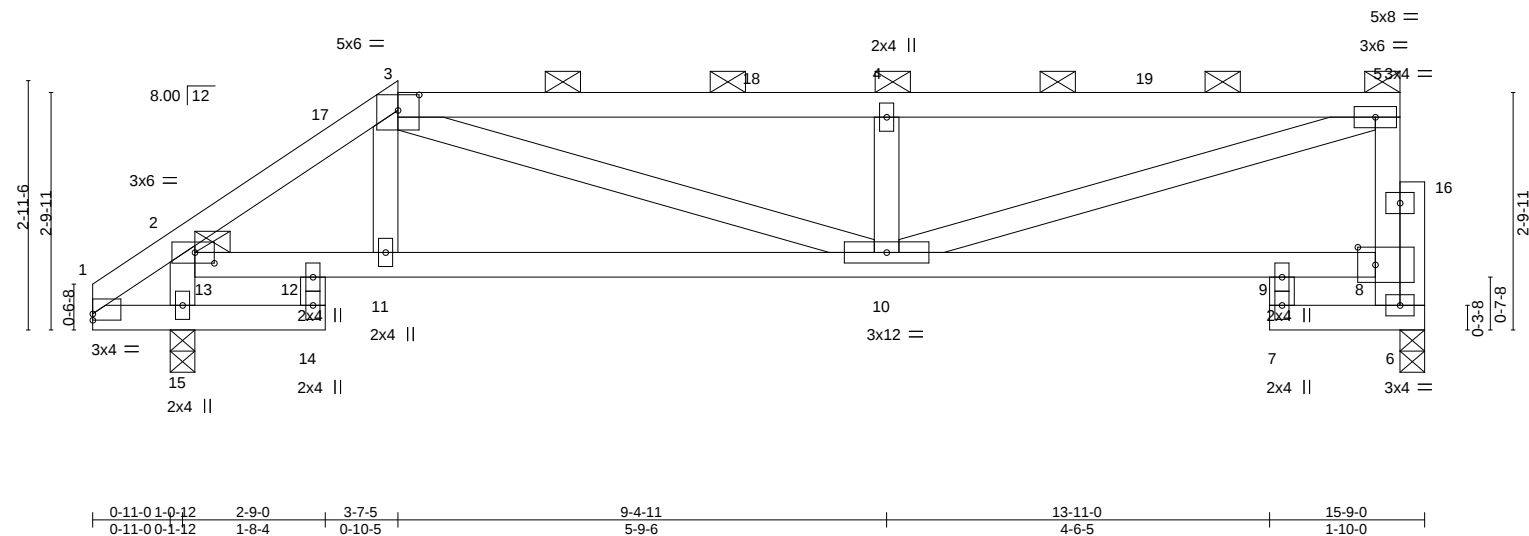


Plate Offsets (X,Y)--		[1:0-0-0,0-0-14], [2:0-2-12,0-1-8], [3:0-3-0,0-2-3], [8:0-2-8,0-2-8]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0 *	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.50
		BC	0.37
		WB	0.34
		Matrix-S	
		DEFL.	
		Vert(LL)	-0.05 10-11 >999 240
		Vert(CT)	-0.11 10-11 >999 180
		Horz(CT)	0.01 6 n/a n/a
		PLATES	MT20
		GRIP	244/190
		Weight:	82 lb
		FT =	20%

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

REACTIONS. (size) 6=0-3-8, 15=0-3-8
Max Horz 15=81(LC 14)
Max Uplift 6=-125(LC 11), 15=-78(LC 11)
Max Grav 6=607(LC 1), 15=715(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-251/24, 2-3=-873/153, 3-4=-1279/274, 4-5=-1277/272, 6-8=-563/141, 5-8=-553/159
BOT CHORD 12-13=-143/686, 11-12=-143/686, 10-11=-147/683
WEBS 3-10=-132/626, 4-10=-450/203, 5-10=-266/1198, 13-15=-450/143, 2-13=-486/133

- 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=6.0psf; 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 3-7-5, Exterior(2R) 3-7-5 to 7-10-4, Interior(1) 7-10-4 to 15-3-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 6 and 15. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716077
210136-R	R3	Half Hip	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:16 2021 Page 1
ID:hi?rkPJ3nVL67kOtbcc_eRzQm8d-9B0gRCFG0xuTocPjVerJmPaFisthF47F4ONczPBxt

10/12/2021

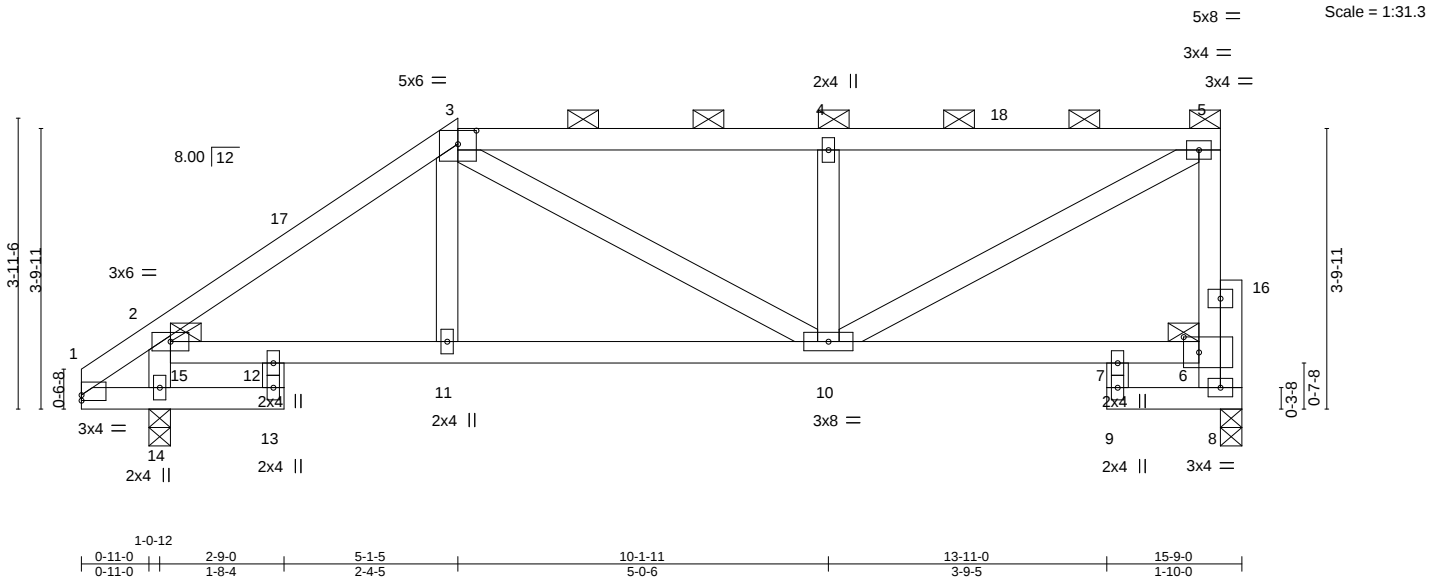


Plate Offsets (X,Y)-- [1:0-0-0,0-0-14], [2:0-0-0,0-0-0], [3:0-3-0,0-2-3], [6:0-2-8,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.39	Vert(LL)	-0.03 10-11	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.28	Vert(CT)	-0.06 10-11	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.31	Horz(CT)	-0.01 8	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 86 lb	FT = 20%

LUMBER-

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

BRACING-

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 Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 8=0-3-8, 14=0-3-8
Max Horz 14=113(LC 14)
Max Uplift 8=-123(LC 11), 14=-53(LC 14)
Max Grav 8=607(LC 1), 14=715(LC 1)

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

TOP CHORD 2-3=-828/126, 3-4=-791/165, 4-5=-789/163, 6-8=-578/137, 5-6=-558/152
BOT CHORD 12-15=-141/622, 11-12=-141/622, 10-11=-143/619
WEBS 4-10=-393/177, 5-10=-176/829, 14-15=-531/220, 2-15=-551/205

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=6.0psf; 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 15-3-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 14. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	R4	Half Hip	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,					Job Reference (optional)	LEE'S SUMMIT, MISSOURI

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:17 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-eOa2eYFlnF0K0m_v3LzYv7x0q18JhU0nyqx02zH3x2
10/12/2021

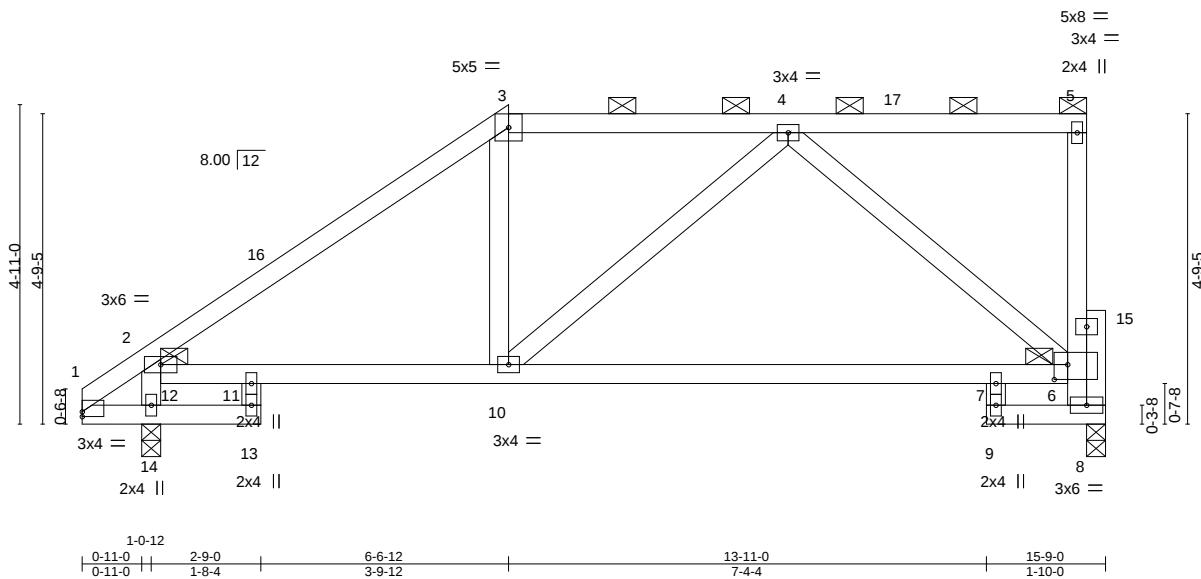


Plate Offsets (X,Y)--		[1:0-0-0,0-0-14], [2:0-0-0,0-0-0], [6:0-2-8,0-2-12]	
LOADING (psf)		SPACING-	
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0 *	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.42
		BC	0.54
		WB	0.36
		Matrix-S	
		DEFL.	
		Vert(LL)	-0.13 7-10 >999 240
		Vert(CT)	-0.27 7-10 >649 180
		Horz(CT)	-0.03 8 n/a n/a
		PLATES	GRIP
		MT20	244/190
		Weight: 85 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	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.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.2		
OTHERS	2x4 SP No.2		

REACTIONS. (size) 8=0-3-8, 14=0-3-8
Max Horz 14=144(LC 14)
Max Uplift 8=-120(LC 11), 14=-45(LC 14)
Max Grav 8=607(LC 1), 14=715(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-802/95, 3-4=-575/132, 6-8=-547/156
BOT CHORD 11-12=-128/577, 10-11=-128/577, 7-10=-128/508, 6-7=-128/508
WEBS 4-6=-595/190, 12-14=-656/303, 2-12=-652/261

- 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=6.0psf; 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 15-3-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8 and 14. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

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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	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	R5	Half Hip	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,			8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:18 2021 Page 1			LEE'S SUMMIT, MISSOURI
			ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-6a8QsuGwY9BrwY9d3UnRLJuQ6Uv2AxywZzUUSvzP3x2			145716079

10/12/2021

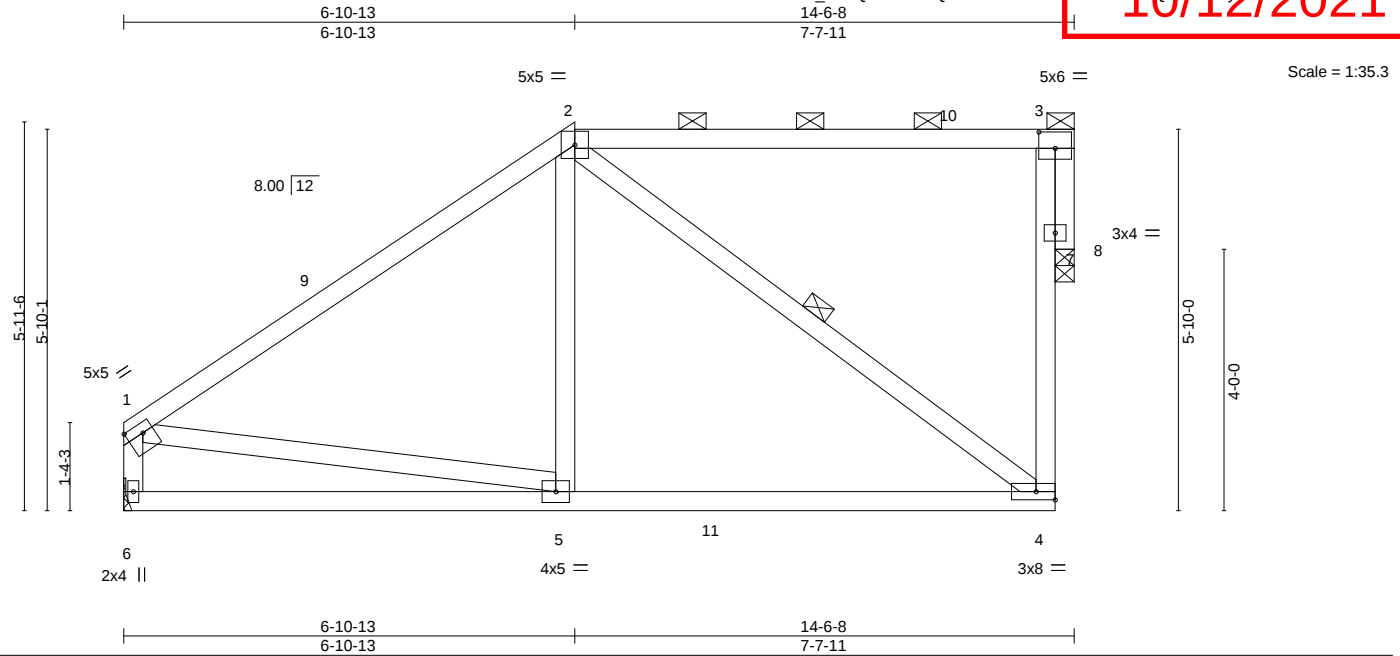


Plate Offsets (X,Y)--		[1:Edge,0-1-12], [3:0-3-0,0-3-0]	
LOADING (psf)		SPACING-	2-0-0
TCLL (roof)	20.0	Plate Grip DOL	1.15
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15
TCDL	10.0	Rep Stress Incr	YES
BCLL	0.0 *	Code	IRC2018/TPI2014
BCDL	10.0		
		CSI.	
		TC	0.81
		BC	0.53
		WB	0.22
		Matrix-S	
		DEFL.	
		Vert(LL)	-0.09 4-5 >999 240
		Vert(CT)	-0.16 4-5 >999 180
		Horz(CT)	0.09 8 n/a n/a
		PLATES	MT20
		GRIP	244/190
		Weight:	87 lb
		FT =	20%

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

REACTIONS. (size) 6=Mechanical, 8=0-3-8
Max Horz 6=142(LC 14)
Max Uplift 6=-24(LC 14), 8=-115(LC 11)
Max Grav 6=690(LC 20), 8=657(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-704/61, 4-7=-44/469, 3-7=-44/469, 1-6=-595/88
BOT CHORD 4-5=-116/517
WEBS 2-5=0/319, 2-4=-568/131, 1-5=0/370, 3-8=-674/130

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=6.0psf; 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 14-1-4 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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.
- Refer to girder(s) for truss to truss connections.
- Bearing at joint(s) 8 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) 6.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 8. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

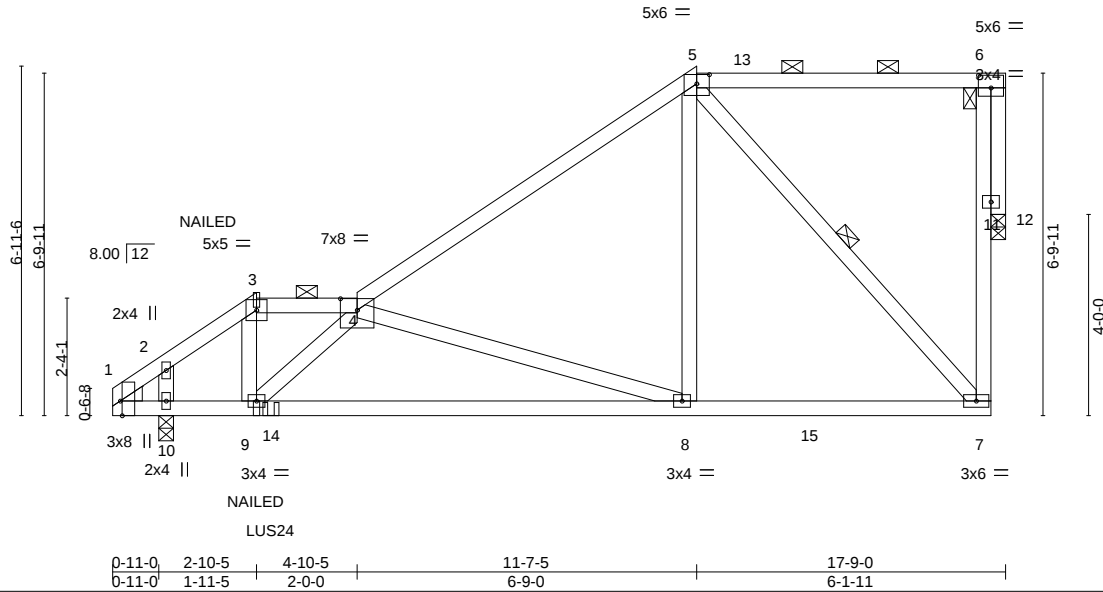
Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	R6	Roof Special Girder	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716080

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:19 2021 Page 1
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LEE'S SUMMIT, MISSOURI
10/12/2021



Scale = 1:45.8

Plate Offsets (X,Y)-- [1:0-3-8,Edge], [4:0-4-0,0-2-12], [5:0-3-0,0-2-3], [6:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.94	Vert(LL) -0.18	8-9	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.96	Vert(CT) -0.36	8-9	>555	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.67	Horz(CT) 0.09	12	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 109 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2
WEDGE
Left: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-7-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS. (size) 10=0-3-8, 12=0-3-8
Max Horz 10=209(LC 10)
Max Uplift 10=93(LC 10), 12=117(LC 7)
Max Grav 10=1127(LC 4), 12=806(LC 39)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-858/20, 2-3=-1130/65, 3-4=-752/64, 4-5=-768/40, 7-11=-67/670, 6-11=-67/670
BOT CHORD 1-10=0/806, 9-10=-209/808, 8-9=-282/1302, 7-8=-85/562
WEBS 3-9=-277/778, 4-9=-779/118, 4-8=-777/207, 5-8=0/566, 5-7=-783/119, 2-10=-505/58, 6-12=-813/118

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=6.0psf; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 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
- 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) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 12. This connection is for uplift only and does not consider lateral forces.
- 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 LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 3-1-12 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.
- "NAILED" indicates 3-10d skew 45 to 135 degrees (0.148" x 3") 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).

Continued on page 2

LOAD CASE(S) Standard



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	R6	Roof Special Girder	1	1	Job Reference (optional)

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:19 2021 Page 2
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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
10/12/2021

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-66, 3-4=-66, 4-5=-66, 5-6=-66, 1-7=-20

Concentrated Loads (lb)

Vert: 3=-28(F) 9=1(F) 14=-322(F)

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	R7	Roof Special	1	1	

KC Truss & Panel Inc. (Urlich, MO), Urlich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:20 2021 Page 1

ID:hi?rkPJ3nVL67kOtbcc_eRzQm8d-2zFAHZIA4APv4EiUcTWGXmZFBvBAW?rFC12bWnLP6xx

Job Reference (optional)

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716081

LEE'S SUMMIT, MISSOURI

10/12/2021

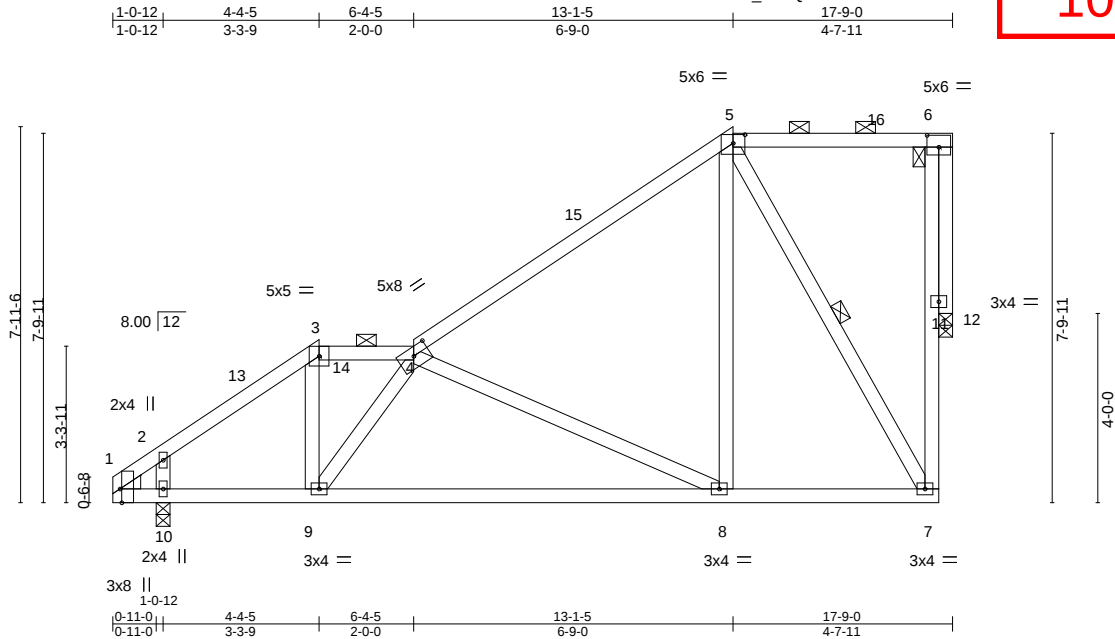


Plate Offsets (X,Y)-- [1:0-3-8,Edge], [4:0-4-0,0-2-2], [5:0-3-0,0-2-3], [6:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.72	Vert(LL) -0.14	8-9	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.65	Vert(CT) -0.32	8-9	>619	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.51	Horz(CT) 0.07	12	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 117 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-5 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-7

REACTIONS.

(size) 10=0-3-8, 12=0-3-8
Max Horz 10=241(LC 14)
Max Uplift 10=-21(LC 14), 12=-119(LC 14)
Max Grav 10=807(LC 1), 12=685(LC 1)

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

TOP CHORD 1-2=-608/0, 2-3=-813/22, 3-4=-564/54, 4-5=-542/19, 7-11=-116/579, 6-11=-116/579
BOT CHORD 1-10=0/584, 9-10=-208/587, 8-9=-239/839, 7-8=-75/340
WEBS 2-10=-401/101, 3-9=0/409, 4-9=-479/56, 5-8=0/457, 5-7=-637/142, 4-8=-541/181, 6-12=-688/140

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=6.0psf; 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 4-4-5, Exterior(2E) 4-4-5 to 6-4-5, Interior(1) 6-4-5 to 13-1-5, Exterior(2R) 13-1-5 to 16-1-5, Interior(1) 16-1-5 to 17-3-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10 and 12. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

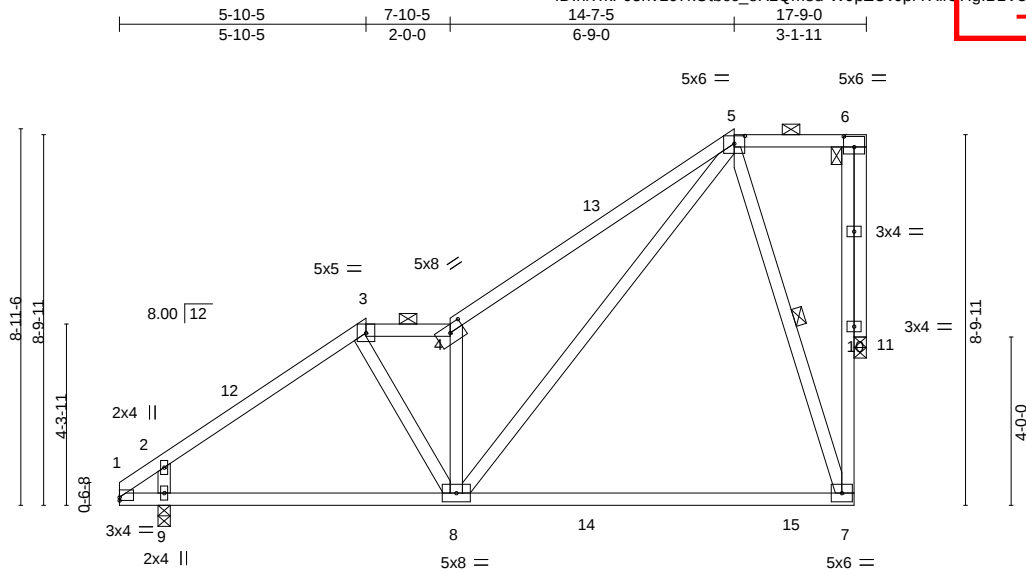
Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	R8	Roof Special	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716082

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:21 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-W9pZUvJprTXiIC HglB1V3z6PLtThF/bOnXo93qzP8xM

LEE'S SUMMIT, MISSOURI
10/12/2021



Scale = 1:54.8

Plate Offsets (X,Y)--	[1:0-0-0,0-0-14], [3:0-0-0,0-0-0], [4:0-4-0,0-2-2], [5:0-3-0,0-2-3], [6:0-3-0,0-3-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.83	Vert(LL) -0.37	7-8	>533	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.75	Vert(CT) -0.61	7-8	>328	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.35	Horz(CT) -0.08	11	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 117 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (5-11-11 max.): 3-4, 5-6.
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 5-7
OTHERS 2x4 SP No.2	

REACTIONS. (size) 9=0-3-8, 11=0-3-8
Max Horz 9=273(LC 14)
Max Uplift 9=-5(LC 14), 11=-135(LC 14)
Max Grav 9=907(LC 20), 11=830(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-631/0, 2-3=-916/16, 3-4=-890/24, 4-5=-1154/134, 7-10=-170/804, 6-10=-170/804
BOT CHORD 1-9=0/646, 8-9=-216/719
WEBS 3-8=0/448, 4-8=-933/168, 5-7=-637/231, 2-9=-528/147, 5-8=-170/1076, 6-11=-831/160

- 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=6.0psf; 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 5-10-5, Exterior(2E) 5-10-5 to 7-10-5, Interior(1) 7-10-5 to 14-7-5, Exterior(2E) 14-7-5 to 17-3-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
 - 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) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9 and 11. This connection is for uplift only and does not consider lateral forces.
 - 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.



April 20,2021

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

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



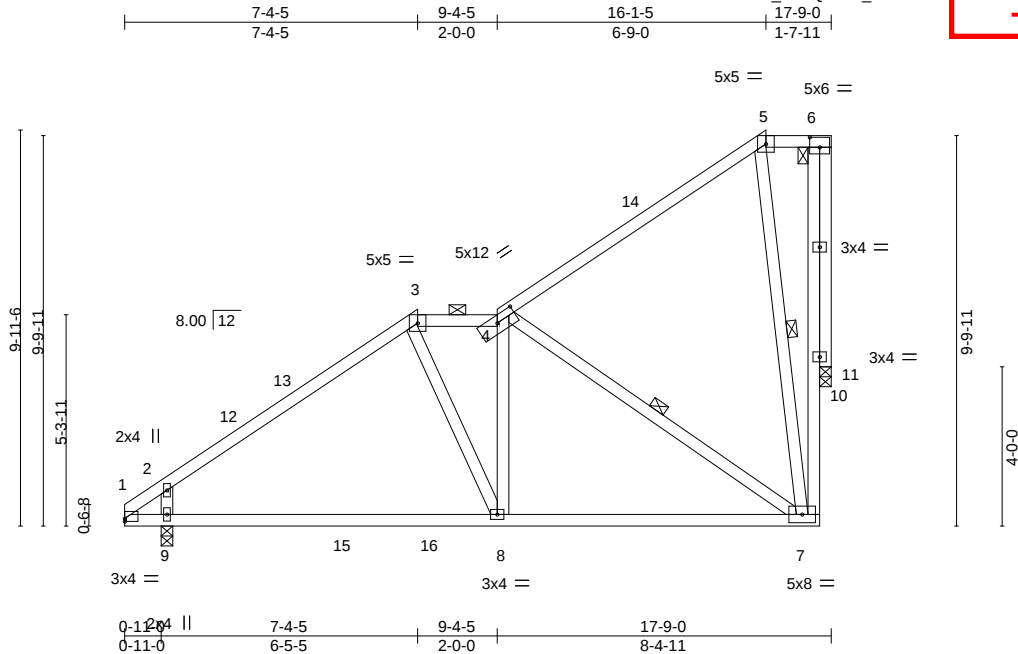
16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716083
210136-R	R9	Roof Special	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:22 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-_LNxiFJRcmckXstsd_rk_Betajp_zb_r5XilGzH8X

10/12/2021



Scale = 1:57.9

Plate Offsets (X,Y)-- [1:0-0-0,0-0-14], [3:0-0-0,0-0-0], [4:0-6-0,0-2-2], [5:0-0-0,0-0-0], [6:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.73	Vert(LL) -0.10	8-9	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.57	Vert(CT) -0.17	7-8	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.31	Horz(CT) -0.07	11	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 122 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-4, 5-6.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-7, 4-7

REACTIONS.

(size) 9=0-3-8, 11=0-3-8
Max Horz 9=305(LC 14)
Max Uplift 11=-155(LC 14)
Max Grav 9=909(LC 20), 11=790(LC 20)

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

TOP CHORD 1-2=-623/0, 2-3=-840/0, 3-4=-715/4, 7-10=-243/829, 6-10=-243/827
BOT CHORD 1-9=0/590, 8-9=-209/661, 7-8=-160/757
WEBS 3-8=0/263, 5-7=-292/200, 2-9=-529/225, 4-7=-806/156, 6-11=-791/186

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=9ft; 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 7-4-5, Exterior(2E) 7-4-5 to 9-4-5, Interior(1) 9-4-5 to 16-1-5, Exterior(2E) 16-1-5 to 17-3-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	R10	Roof Special	1	1	

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716084

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:09 2021 Page 1

ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-tr50zp9Hgn0SGYMNbgpgarcdL8UjPgk440sfmWvZpBx

Job Reference (optional)

LEE'S SUMMIT, MISSOURI

10/12/2021

1-0-12 8-10-5 10-10-5 17-7-5 17-9-0
1-0-12 7-9-9 2-0-0 6-9-0 0-1-11

Scale = 1:61.4

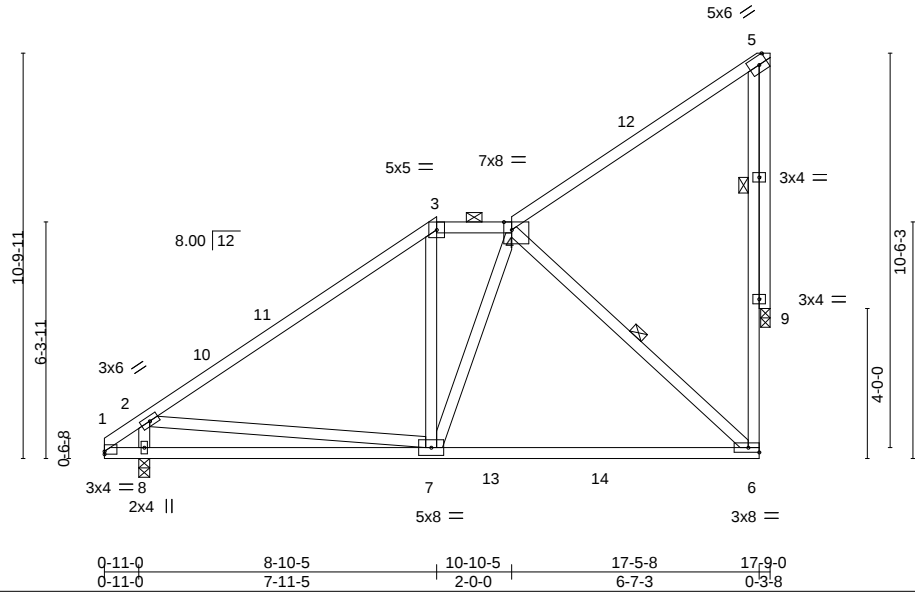


Plate Offsets (X,Y)-- [1:0-0-0,0-0-14], [4:0-2-8,Edge], [5:0-2-11,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.84	Vert(LL) -0.20	6-7	>980	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.58	Vert(CT) -0.33	6-7	>597	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.26	Horz(CT) -0.06	9	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 125 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
1-6: 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins, except
2-0-0 oc purlins (6-0-0 max.): 3-4.
BOT CHORD Rigid ceiling directly applied or 9-1-10 oc bracing. Except:
6-0-0 oc bracing: 5-9
WEBS 1 Row at midpt 4-6

REACTIONS.

(size) 8=0-3-8, 9=0-3-0
Max Horz 8=335(LC 14)
Max Uplift 9=173(LC 14)
Max Grav 8=885(LC 20), 9=843(LC 20)

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

TOP CHORD 1-2=-344/47, 2-3=-827/0, 3-4=-598/21
BOT CHORD 6-9=-66/638, 1-8=-127/439, 7-8=-463/528, 6-7=-122/547
WEBS 2-7=-83/315, 4-7=-100/265, 4-6=-721/161, 2-8=-717/107

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=11ft; 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 8-10-5, Exterior(2E) 8-10-5 to 10-10-5, Interior(1) 10-10-5 to 17-3-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 9. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	R11	Roof Special	1	1	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:10 2021 Page 1

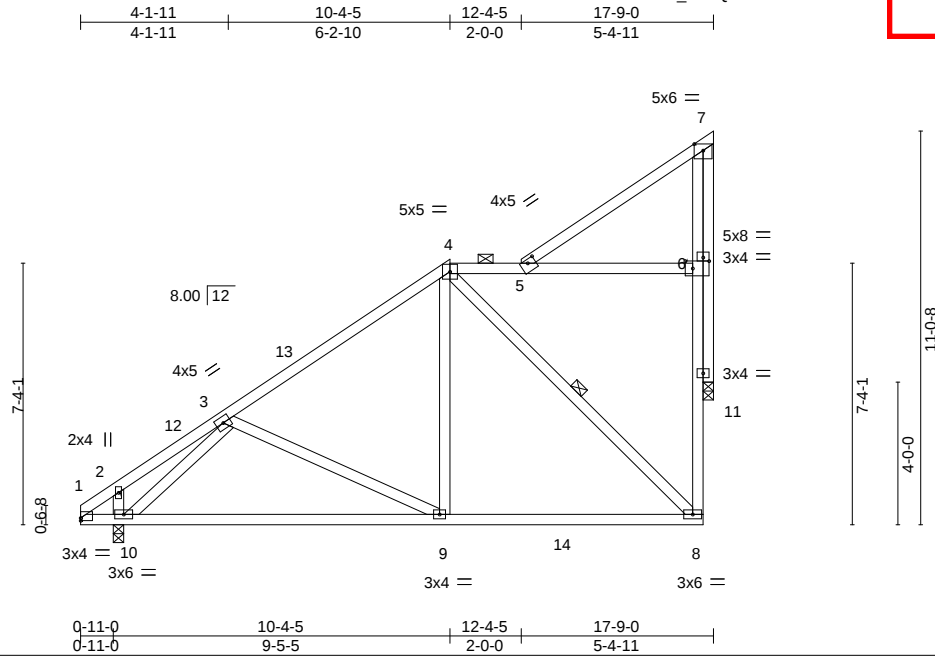
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-L1fPA9AvR58JuxZ9NLv7fsavmV4XUp6j3AyZP3xt

Job Reference (optional)

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716085

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale: 3/16"=1'

Plate Offsets (X,Y)-- [1:0-0-0,0-0-14], [5:0-2-8,0-1-3], [6:0-2-8,0-2-8], [11:0-2-0,0-1-3]												
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.58	Vert(LL)	-0.09	9-10	>999	240	MT20	244/190
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.18	9-10	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.04	11	n/a	n/a		
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-S								
BCDL	10.0										Weight: 131 lb	FT = 20%

LUMBER-

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

BRACING-

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 Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-8

REACTIONS.

(size) 10=0-3-8, 11=0-3-8
Max Horz 10=338(LC 14)
Max Uplift 11=-178(LC 14)
Max Grav 10=899(LC 20), 11=843(LC 20)

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

TOP CHORD 3-4=-675/0, 8-11=-94/612
BOT CHORD 9-10=-291/693, 8-9=-122/520
WEBS 4-9=0/422, 4-8=-703/178, 3-10=-764/84

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=11ft; 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 10-4-5, Exterior(2E) 10-4-5 to 12-4-5, Interior(1) 12-4-5 to 17-5-8 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	R12	Roof Special	1	1	

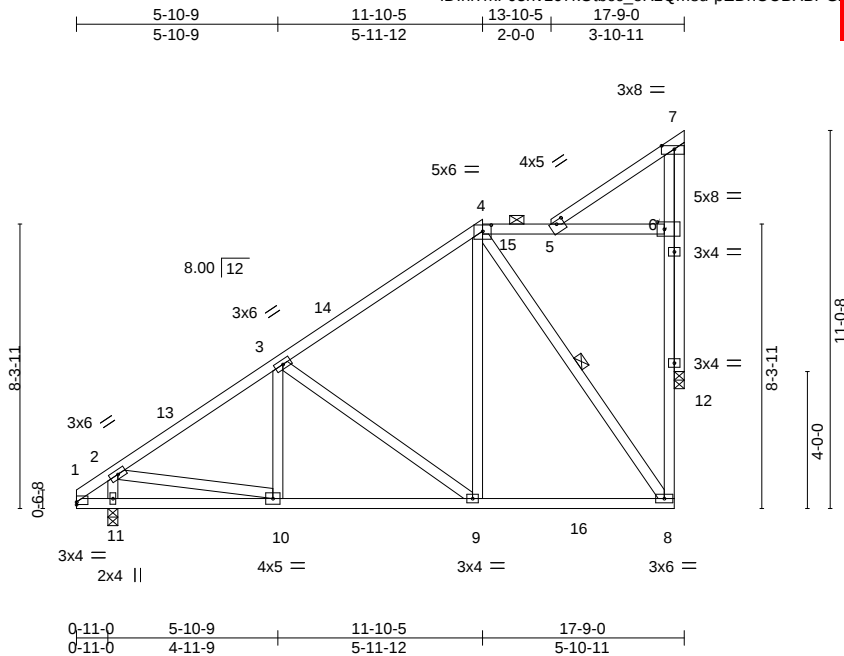
KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:11 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-pEDnOUBXBPGAvrWlj5st5inH95vz0vJcNoFzPBxo

RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716086

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale = 1:67.3

Plate Offsets (X,Y)-- [1:0-0-0,0-0-14], [4:0-3-0,0-2-3], [5:0-2-8,0-1-1], [6:0-2-8,0-2-8], [7:0-4-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.43	Vert(LL) -0.04	8-9	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT) -0.07	8-9	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.36	Horz(CT) 0.03	12	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 137 lb	FT = 20%

LUMBER-

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

BRACING-

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 Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 4-8

REACTIONS.

(size) 11=0-3-8, 12=0-3-8
Max Horz 11=338(LC 14)
Max Uplift 12=-178(LC 14)
Max Grav 11=883(LC 20), 12=854(LC 20)

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

TOP CHORD 2-3=-883/0, 3-4=-551/0, 8-12=-121/673
BOT CHORD 10-11=-325/214, 9-10=-220/754, 8-9=-98/409
WEBS 3-9=-412/152, 4-9=-11/496, 4-8=-699/179, 2-11=-719/31, 2-10=0/574

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=9ft; 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 11-10-5, Exterior(2E) 11-10-5 to 13-10-5, Interior(1) 13-10-5 to 17-5-8 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 12. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	R13	Roof Special	1	1	
Job Reference (optional)					

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:12 2021 Page 1

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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716087

LEE'S SUMMIT, MISSOURI

10/12/2021

1-0-12 5-10-8 13-4-5 15-4-5 17-9-0
1-0-12 4-9-12 7-5-13 2-0-0 2-4-11

Scale = 1:67.3

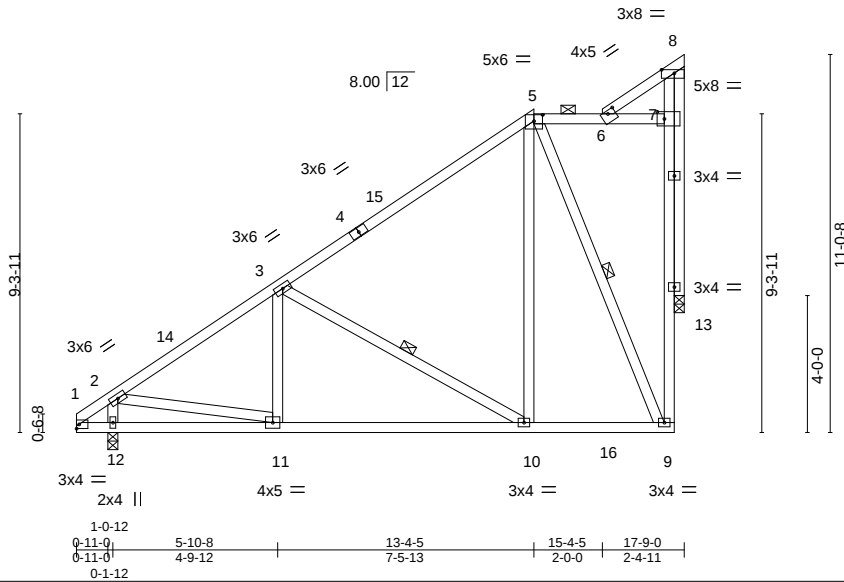


Plate Offsets (X,Y)-- [5:0-3-0,0-2-3], [6:0-2-8,0-1-1], [7:0-2-8,0-2-8], [8:0-4-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.70	Vert(LL)	-0.06 10-11	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.34	Vert(CT)	-0.12 10-11	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.33	Horz(CT)	0.01 13	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 138 lb	FT = 20%

LUMBER-

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

BRACING-

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.): 5-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 3-10, 5-9

REACTIONS.

(size) 12=0-3-8, 13=0-3-8
Max Horz 12=338(LC 14)
Max Uplift 13=-178(LC 14)
Max Grav 12=880(LC 20), 13=848(LC 20)

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

TOP CHORD 2-3=-907/0, 3-5=-463/0, 9-13=-161/745
BOT CHORD 11-12=-312/178, 10-11=-224/786, 9-10=-74/309
WEBS 2-12=-742/12, 2-11=0/668, 3-10=-538/178, 5-10=-8/522, 5-9=-758/191

NOTES-

- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; 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 13-4-5, Exterior(2E) 13-4-5 to 15-4-5, Interior(1) 15-4-5 to 17-5-8 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 13. This connection is for uplift only and does not consider lateral forces.
- 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.



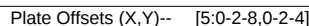
April 20,2021

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
1-7: 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-11-7 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.	
BOT CHORD	Rigid ceiling directly applied or 9-11-3 oc bracing.	
WEBS	1 Row at midtop	3-7, 5-7

REACTIONS.

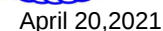
(size) 9=0-3-8, 10=0-3-0
 Max Horz 9=321(LC 14)
 Max Uplift 10=-168(LC 14)
 Max Grav 9=897(LC 20), 10=821(LC 20)

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

TOP CHORD 1-2=-328/9, 2-3=-850/0, 7-10=-173/748
BOT CHORD 1-9=-72/387, 8-9=-394/473, 7-8=-155/665
WEBS 3-8=0/395, 3-7=-747/164, 2-9=-687/115, 2-8=-35/293

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=6.0psf; 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 14-10-5, Exterior(2E) 14-10-5 to 17-3-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
- 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.



WARNING: Velly design parameters are READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MM-1475 (Rev. 3/25/2020) 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



Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	R15	Half Hip	1	1	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

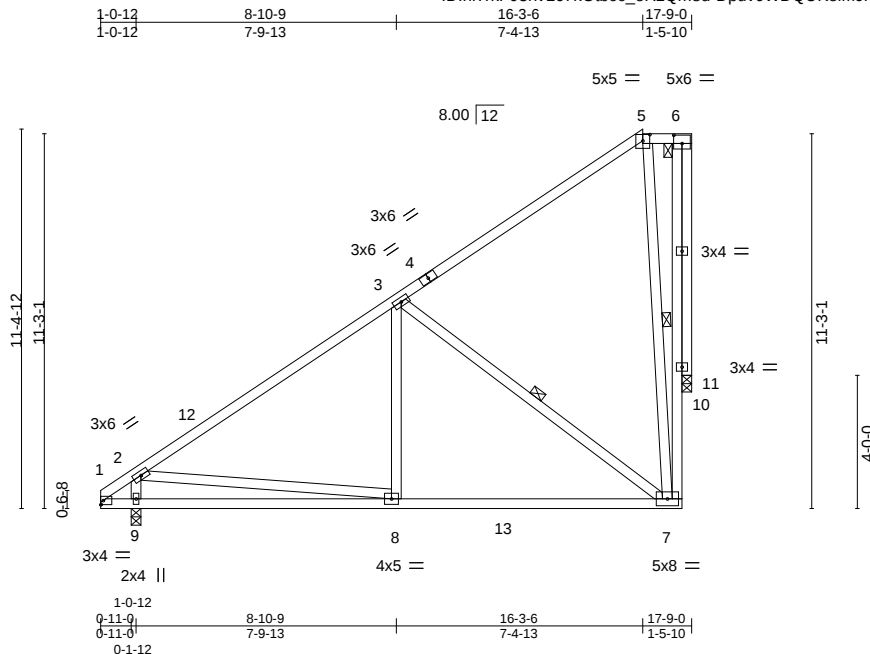
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:14 2021 Page 1

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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716089

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale = 1:69.2

Plate Offsets (X,Y)-- [5:0-2-8,0-2-4], [6:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.81	Vert(LL) -0.15	7-8	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.53	Vert(CT) -0.26	7-8	>759	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.71	Horz(CT) -0.11	11	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 135 lb	FT = 20%

LUMBER-

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

BRACING-

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.): 5-6.
BOT CHORD Rigid ceiling directly applied or 9-5-12 oc bracing.
WEBS 1 Row at midpt 3-7, 5-7

REACTIONS.

(size) 9=0-3-8, 11=0-3-8
Max Horz 9=352(LC 14)
Max Uplift 11=-184(LC 14)
Max Grav 9=908(LC 20), 11=821(LC 20)

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

TOP CHORD 1-2=-313/2, 2-3=-872/0, 7-10=-235/824, 6-10=-235/822
BOT CHORD 1-9=-62/361, 8-9=-433/455, 7-8=-177/697
WEBS 2-9=-689/119, 2-8=-19/335, 3-8=0/391, 3-7=-786/196, 5-7=-257/161, 6-11=-822/192

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=6.0psf; 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 17-3-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 11. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

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16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods
210136-R	R16	Half Hip	1	1	

KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,

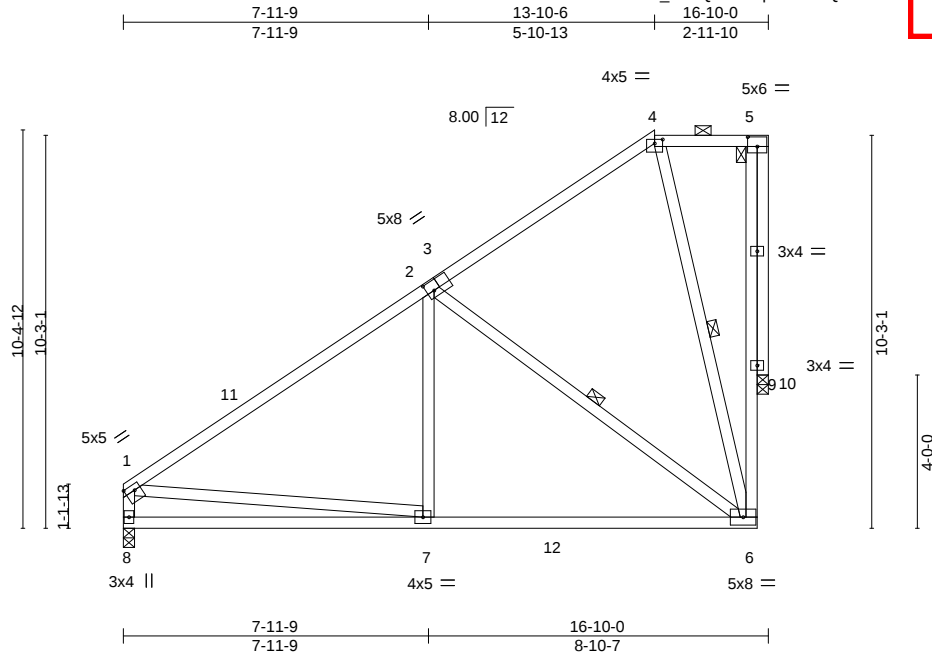
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:14 2021 Page 1

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RELEASE FOR CONSTRUCTION
AS NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
145716090

LEE'S SUMMIT, MISSOURI

10/12/2021



Scale = 1:60.1

Plate Offsets (X,Y)-- [1:Edge,0-1-12], [3:0-2-4,0-3-0], [4:0-2-8,0-1-4], [5:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.80	Vert(LL) -0.15	6-7	>999	240	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.55	Vert(CT) -0.27	6-7	>740	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.37	Horz(CT) 0.06	10	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2018/TPI2014						Weight: 128 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-2-2 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 9-11-3 oc bracing.
WEBS 1 Row at midpt 4-6, 2-6

REACTIONS.

(size) 8=0-3-8, 10=0-3-8
Max Horz 8=290(LC 14)
Max Uplift 10=-160(LC 14)
Max Grav 8=805(LC 20), 10=819(LC 20)

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

TOP CHORD 1-2=-875/0, 6-9=-167/768, 5-9=-167/768, 1-8=-693/31
BOT CHORD 7-8=-389/348, 6-7=-178/696
WEBS 2-7=0/400, 2-6=-762/185, 1-7=0/407, 5-10=-820/180

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=6.0psf; 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 16-4-12 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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
- 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) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- One H2.5A Simpson Strong-Tie connectors recommended to connect truss to bearing walls due to UPLIFT at jt(s) 10. This connection is for uplift only and does not consider lateral forces.
- 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.



April 20,2021

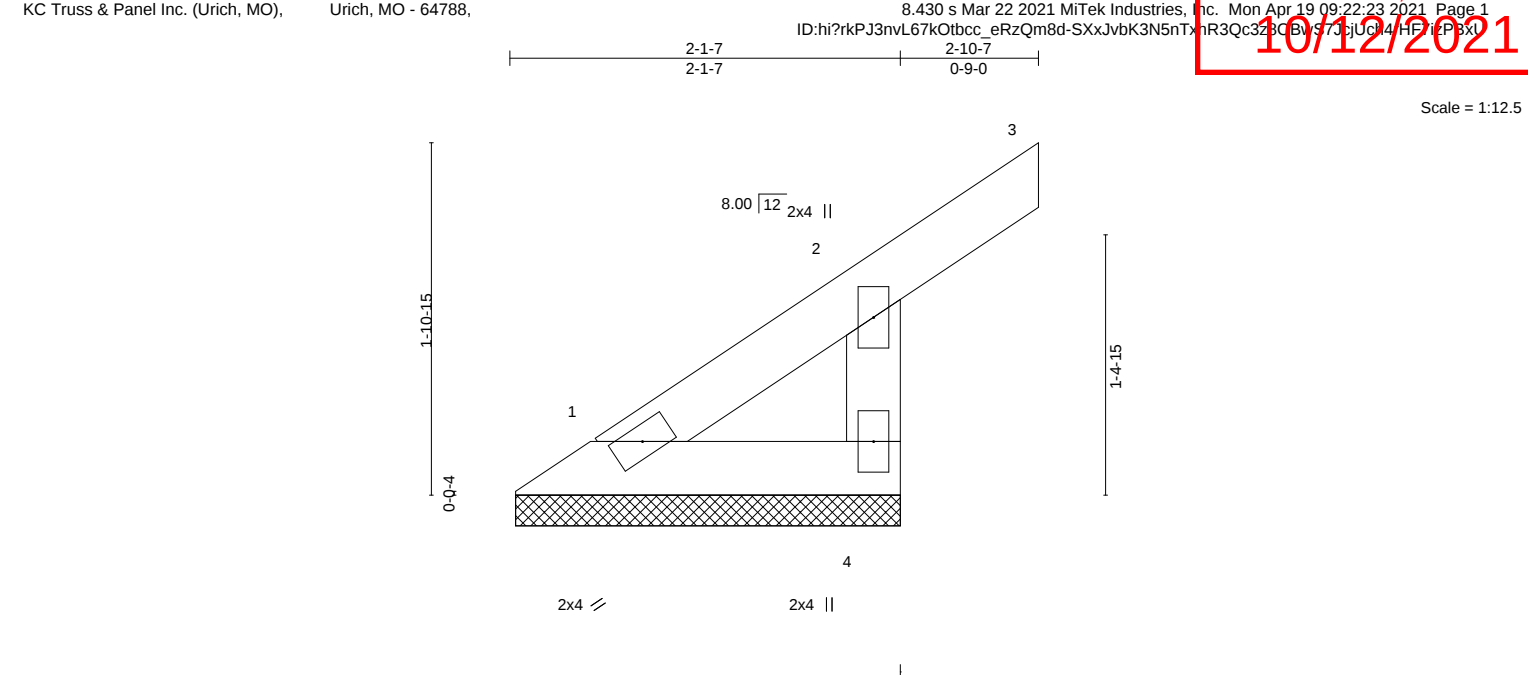
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	V1	Valley	1	1		AS NOTED FOR PLAN REVIEW
KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,					Job Reference (optional)	DEVELOPMENT SERVICES
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:23 2021 Page 1					LEE'S SUMMIT, MISSOURI	145716091
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-SXxJvbK3N5nTxhR3Qc3z8CBwS73jUcH4HP7r2P3xt						10/12/2021



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.08	Vert(LL) 0.00	2	n/r	120	MT20	244/190
Snow (Pf/Pg) 23.1/30.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT) -0.00	2	n/r	120		
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: 9 lb	FT = 20%

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

REACTIONS. (size) 1=2-1-1, 4=2-1-1
Max Horz 1=61(LC 14)
Max Uplift 4=84(LC 14)
Max Grav 1=47(LC 21), 4=141(LC 1)

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=6.0psf; h=25ft; B=45ft; L=24ft; eave=1ft; 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=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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 23.1 psf on overhangs non-concurrent with other live loads.
- 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) N/A
- 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.



April 20,2021

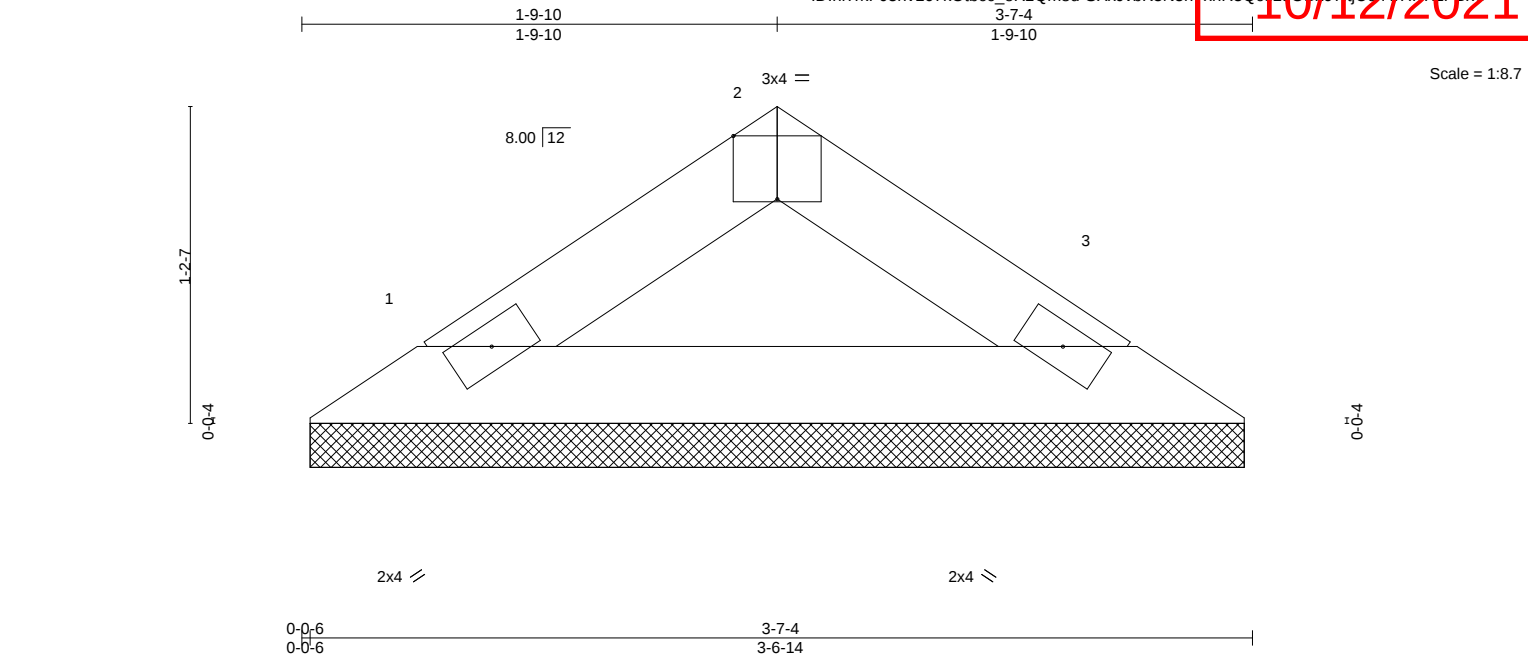
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION
210136-R	V2	Valley	1	1		AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES
KC Truss & Panel Inc. (Urich, MO), Urich, MO - 64788,						LEE'S SUMMIT, MISSOURI
8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:23 2021 Page 1						145716092
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-SXxJvbK3N5n7xhR3QCz8O8s97tjUc14HP7zP3xt						10/12/2021



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	n/a	MT20		197/144	
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC	0.07	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-P							
BCDL	10.0										
								Weight: 9 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-7-4 oc purlins.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	
(size)	1=3-6-8, 3=3-6-8
Max Horz	1=20(LC 13)
Max Uplift	1=-8(LC 14), 3=-8(LC 14)
Max Grav	1=114(LC 1), 3=114(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=16ft; 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
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
 - 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.



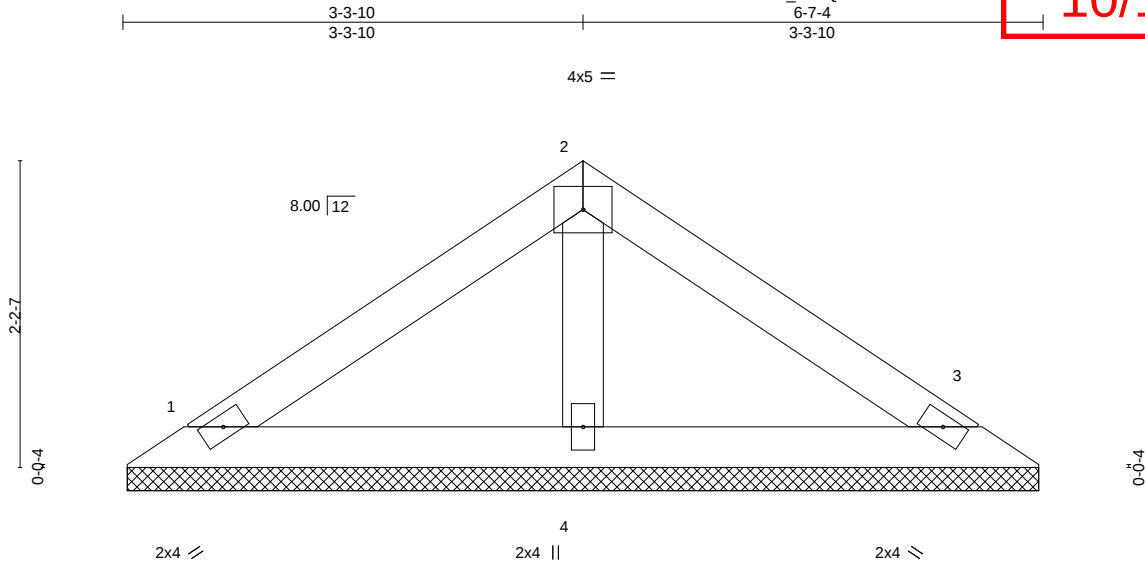
April 20,2021

Job	Truss	Truss Type	Qty	Ply	Lot 12 Whispering Woods	RELEASE FOR CONSTRUCTION AS NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 145716093
210136-R	V3	Valley	1	1	Job Reference (optional)	

KC Truss & Panel Inc. (Urish, MO), Urish, MO - 64788,

8.430 s Mar 22 2021 MiTek Industries, Inc. Mon Apr 19 09:22:24 2021 Page 1
ID:hi?rkPJ3nvL67kOtbcc_eRzQm8d-wkVh6xLh8OvK2r0FzJbCtck4?We7SxZ0vOpp8zP3x1

10/12/2021



Scale = 1:16.5

0-0-6 0-0-6		6-7-4 6-6-14			
LOADING (psf)		SPACING-	2-0-0	CSI.	DEFL.
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC 0.16	in (loc) l/defl L/d
Snow (Pf/Pg)	23.1/30.0	Lumber DOL	1.15	BC 0.07	Vert(LL) n/a - n/a 999
TCDL	10.0	Rep Stress Incr	YES	WB 0.02	Vert(CT) n/a - n/a 999
BCLL	0.0 *	Code IRC2018/TPI2014		Matrix-P	Horz(CT) 0.00 3 n/a n/a
BCDL	10.0				
				Weight: 20 lb FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=6-6-8, 3=6-6-8, 4=6-6-8
Max Horz 1=-42(LC 12)
Max Uplift 1=-23(LC 14), 3=-23(LC 14)
Max Grav 1=131(LC 1), 3=131(LC 1), 4=224(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=14ft; 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=30.0 psf; Pf=23.1 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.
- 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.



April 20, 2021

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ID:hi?rkPJ3nyL67kOtbcc eRzOm8d-Pw33KHMJui1BB?bSX16REpGHW JBC6 X9nMCPzP3xS

3-11-11
1-11-13

 $2 \times 4 =$

3-11-11
3-11-2

Weight: 9 lb FT = 20%

WARNING: Velly design parameters are READ NOTES ON THIS AND INCLUDED WITH REFERENCE PAGE MM-1475 (Rev. 3/25/2020) 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

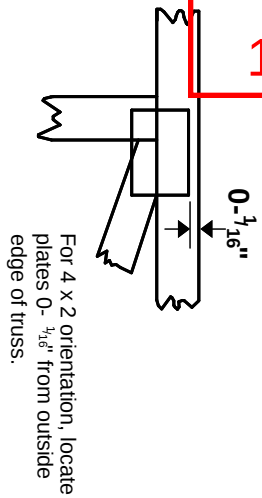


10/12/2021

Symbols

PLATE LOCATION AND ORIENTATION

Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



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

* Plate location details available in **MiTek 20120** software or upon request.

PLATE SIZE

4 X 4

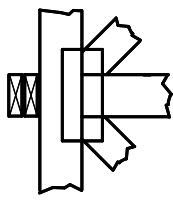
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



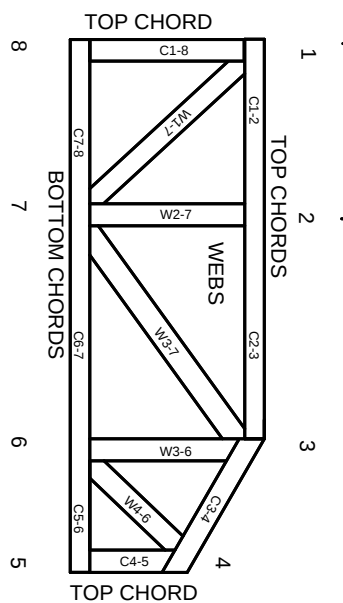
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TP1.1: 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/TP1 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.