

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/09/2020

Job P200390	Truss E01	Truss Type Roof Special Supported Gable	Ply 1	Roof 8.330 s	Job Reference (optional) 142645805
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,		8.330 s		Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:04 2020 Page 1	
0-10-8 0-10-8	16-4-6 16-4-6	30-0-0 13-7-10	30-10-8 0-10-8	ID:TaBrkJGwHitUvykGBpLdBz1ced-vEx7SvYX8jIAfOynrxZMhuJgux?5yL8NP1WSAtyIHED	

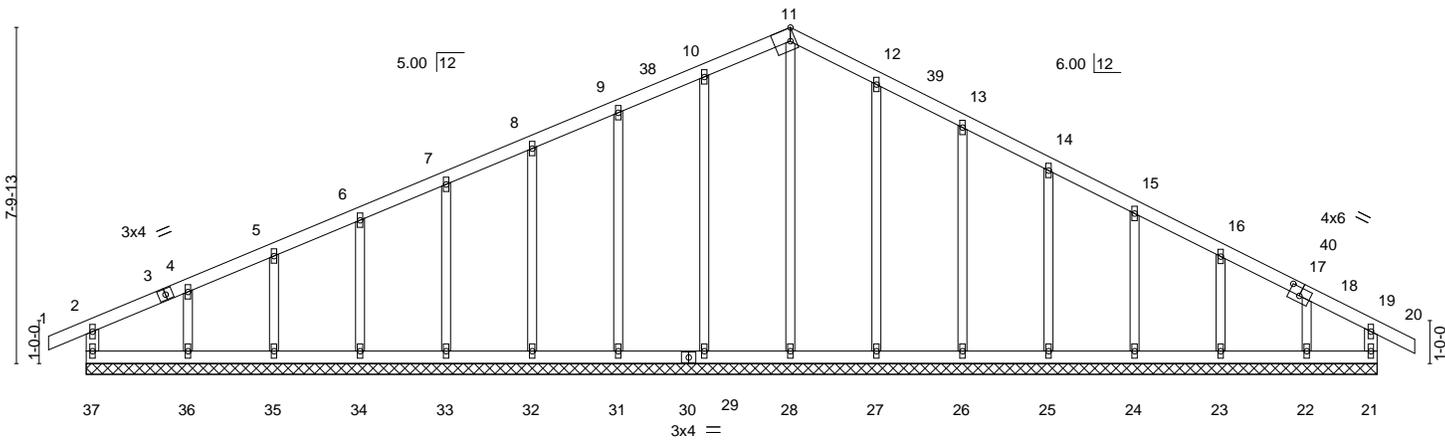


Plate Offsets (X,Y)--	[11:0-1-7,Edge], [17:0-3-0,0-2-4], [17:0-0-0,0-1-12], [18:0-1-6,0-0-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) -0.00 20 n/r 120		
TCDL 25.0	Lumber DOL 1.15	WB 0.25	Vert(TL) -0.01 20 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(TL) -0.00 21 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 122 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 30-0-0.
 (lb) - Max Horz 37=174(LC 15)
 Max Uplift All uplift 100 lb or less at joint(s) 37, 21, 29, 31, 32, 33, 34, 35, 36, 27, 26, 25, 24, 23, 22
 Max Grav All reactions 250 lb or less at joint(s) 37, 21, 28, 31, 32, 33, 34, 35, 26, 25, 24, 22 except 29=257(LC 21), 36=262(LC 28), 27=269(LC 22), 23=254(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 8-9=-99/255, 9-10=-115/301, 10-11=-131/340, 11-12=-137/339, 12-13=-116/289

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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) -0-10-8 to 2-4-6, Exterior(2) 2-4-6 to 16-4-6, Corner(3) 16-4-6 to 19-4-6, Exterior(2) 19-4-6 to 30-10-8 zone; cantilever left and right exposed; end vertical 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
 - 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 7-10; Pr=25.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp C; Partially Exp.; 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 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 37, 21, 29, 31, 32, 33, 34, 35, 36, 27, 26, 25, 24, 23, 22.



September 1, 2020

Job P200390	Truss E03	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645806
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:06 2020 Page 1
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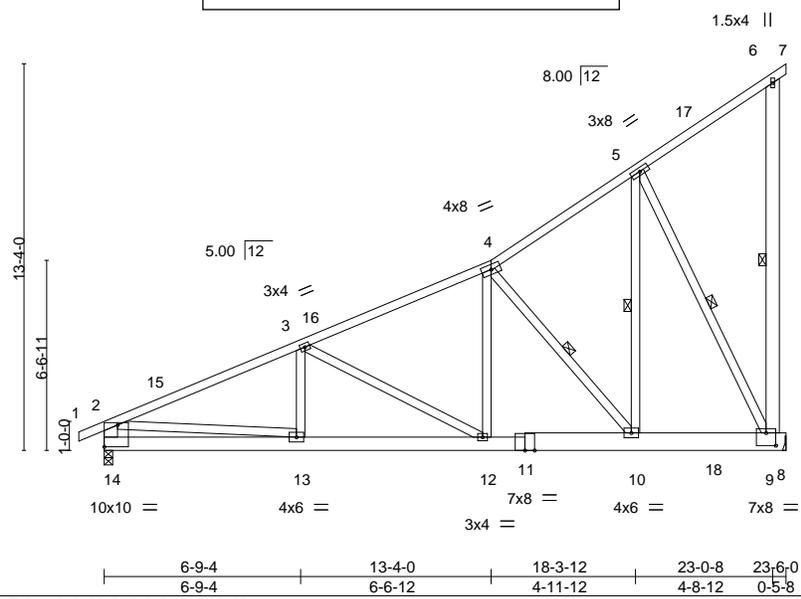


Plate Offsets (X,Y)--	[9:0-4-0,0-5-4], [14:Edge,0-9-0], [14:0-2-12,0-0-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.42	Vert(LL) 0.08 12-13 >999 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.69	Vert(TL) -0.19 12-13 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 163 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x6 SPF No.2 *Except* 8-11: 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-8-9 oc bracing.
WEBS 2x4 SPF No.2 *Except* 2-14,6-9: 2x6 SPF No.2	WEBS 1 Row at midpt 4-10, 5-10, 6-9, 5-9

REACTIONS. (size) 14=0-3-8, 8=Mechanical
 Max Horz 14=478(LC 16)
 Max Uplift 14=-324(LC 16), 8=-545(LC 16)
 Max Grav 14=1506(LC 2), 8=1396(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2293/881, 3-4=-1577/526, 4-5=-872/226, 2-14=-1418/559
 BOT CHORD 13-14=-699/715, 12-13=-1194/2003, 10-12=-757/1317, 9-10=-370/621
 WEBS 3-12=-766/484, 4-12=-434/489, 4-10=-1098/607, 5-10=-756/1088, 2-13=-504/1418,
 5-9=-1381/823

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) 0-10-8 to 2-1-8, Interior(1) 2-1-8 to 23-6-0 zone; cantilever left and right exposed; end vertical 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
 - 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 7-10; Pr=25.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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 15.4 psf on overhangs non-concurrent with other live loads.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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) 14=324, 8=545.



Job P200390	Truss E04	Truss Type Roof Special Supported Gable	Roof 1	Ply	Roof	I42645807
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:07 2020 Page 1
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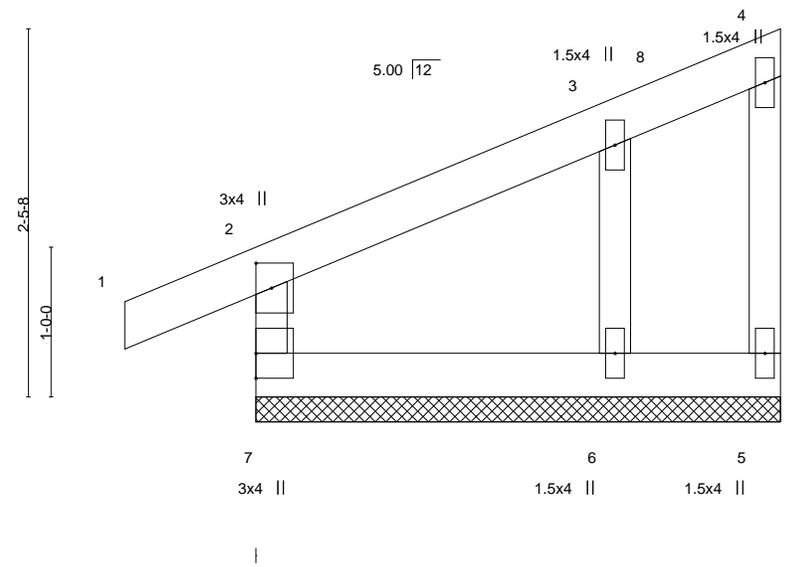


Plate Offsets (X,Y)-- [2:0-2-0,0-1-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.19	Vert(LL)	-0.00	1	n/r	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.08	Vert(TL)	-0.00	1	n/r		
TCDL 25.0	Lumber DOL 1.15	WB 0.00	Horz(TL)	-0.00	6	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2012/TPI2007						Weight: 13 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (size) 7=3-6-0, 6=3-6-0, 5=3-6-0
 Max Horz 7=90(LC 16)
 Max Uplift 7=-22(LC 16), 6=-49(LC 16), 5=-5(LC 16)
 Max Grav 7=241(LC 2), 6=227(LC 2), 5=25(LC 2)

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

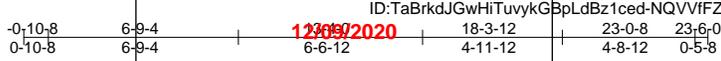
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) -0-10-8 to 2-4-12, Exterior(2) 2-4-12 to 3-4-12 zone; cantilever left and right exposed; end vertical 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
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - 5) Unbalanced snow loads have been considered for this design.
 - 6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 7) Gable requires continuous bottom chord bearing.
 - 8) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 9) Gable studs spaced at 2-0-0 oc.
 - 10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 11) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 6, 5.



September 1, 2020

Job P200390	Truss E02	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof	I42645808
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:05 2020 Page 1



Scale = 1:81.7

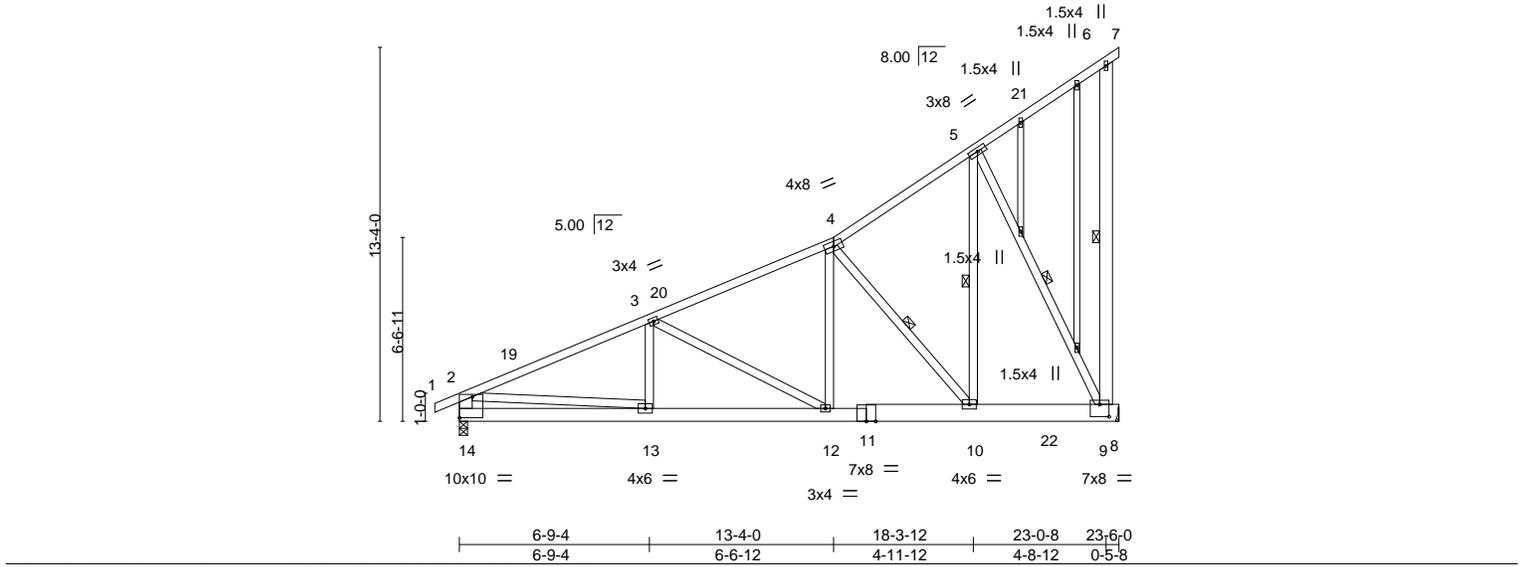


Plate Offsets (X,Y)-- [9:0-4-0,0-5-4], [14:Edge,0-9-0], [14:0-2-12,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.42	Vert(LL) 0.08 12-13 >999 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.69	Vert(TL) -0.19 12-13 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.03 8 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 175 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x6 SPF No.2 *Except* 8-11: 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-8-9 oc bracing.
WEBS 2x4 SPF No.2 *Except* 2-14,6-9: 2x6 SPF No.2	WEBS 1 Row at midpt 4-10, 5-10, 6-9, 5-9
OTHERS 2x3 SPF No.2	

REACTIONS. (size) 14=0-3-8, 8=Mechanical
 Max Horz 14=478(LC 16)
 Max Uplift 14=-324(LC 16), 8=-545(LC 16)
 Max Grav 14=1506(LC 2), 8=1396(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2293/881, 3-4=-1577/526, 4-5=-872/226, 2-14=-1418/559
 BOT CHORD 13-14=-699/715, 12-13=-1194/2003, 10-12=-757/1317, 9-10=-370/621
 WEBS 3-12=-766/484, 4-12=-434/489, 4-10=-1098/607, 5-10=-756/1088, 2-13=-504/1418, 5-9=-1381/823

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 23-6-0 zone; cantilever left and right exposed; end vertical 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
 - 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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 15.4 psf on overhangs non-concurrent with other live loads.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 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) 14=324, 8=545.

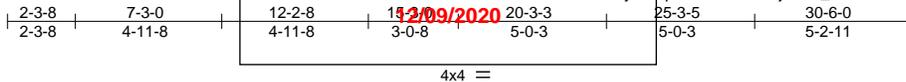


September 1, 2020

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

Job P200390	Truss B01	Truss Type Roof Special Girder	Ply 1	Roof 8.330 s	Job Reference (optional) I42645809
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, ID:TaBrkdJGwHiTuvykgBpLdBz1ced-UOjZF3J_sZE0FJQxgkCgtgU8Kt?HG8yQpwfOS1yiHEX
 Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:44 2020 Page 1



Scale = 1:77.6

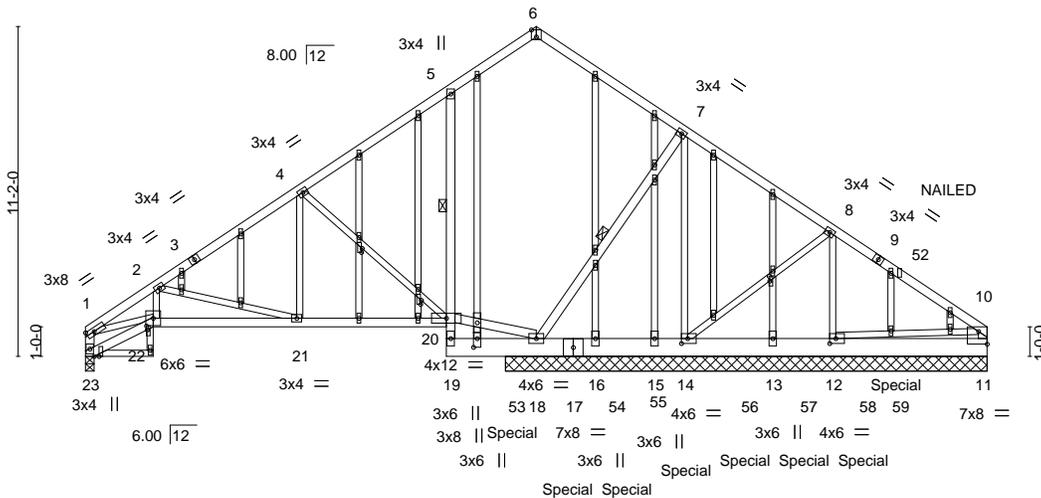


Plate Offsets (X,Y)-- [6:0-2.0,Edge], [11:Edge,0-5-2], [11:0-1-12,0-0-0], [12:0-2-8,0-2-0], [14:0-2-8,0-2-0], [22:0-1-10,0-0-4], [27:0-3-9,0-1-8], [28:0-1-10,0-0-4], [31:0-1-10,0-0-4], [47:0-1-15,0-0-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	118/123
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.76	Vert(LL) 0.13 20-21 >999 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.84	Vert(TL) -0.31 20-21 >583 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Horz(TL) 0.17 11 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 215 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2 *Except*
 23-24,22-24: 2x3 SPF No.2
 17-19: 1 1/2" x 7 1/4" 2.0E Microllam@ LVL, 11-17: 2x8 SP 2400F 2.0E
 WEBS 2x3 SPF No.2 *Except*
 18-20,7-18,1-23,10-11: 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-11 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 5-5-10 oc bracing. Except:
 1 Row at midpt 5-20
 WEBS 1 Row at midpt 7-18

REACTIONS. All bearings 16-3-8 except (jt=length) 23=0-3-8.
 (lb) - Max Horz 23=336(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 11, 13 except 23=-158(LC 10), 18=-1177(LC 10), 14=-182(LC 6), 12=-371(LC 10), 16=-1885(LC 19), 15=-286(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 13 except 23=938(LC 2), 18=3125(LC 2), 14=680(LC 24), 12=1343(LC 2), 11=659(LC 2), 16=769(LC 31), 15=911(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1839/337, 2-4=-1173/148, 4-5=-544/29, 5-6=-418/103, 6-7=-507/92, 7-8=-553/38, 8-10=-566/14, 1-23=-922/172, 10-11=-490/42
 BOT CHORD 21-22=-397/1475, 20-21=-151/880, 19-20=-882/278, 5-20=-353/127, 16-18=0/355, 15-16=0/355, 14-15=0/355, 13-14=0/357, 12-13=0/357, 11-12=-69/320, 22-23=-346/260
 WEBS 4-21=-144/366, 4-20=-746/309, 18-20=-50/266, 7-14=-420/52, 8-12=-529/59, 2-21=-615/255, 1-22=-234/1440

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - All plates are 1.5x4 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, with BCDL = 10.0psf.
 - Bearing at joint(s) 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify compatibility of bearing surface.



September 1, 2020

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 P200390	Truss B01	Truss Type Roof Special Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/09/2020	Ply 1	Roof Job Reference (optional)	I42645809
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:45 2020 Page 2
 ID:TaBrkdJGwHiTuvyKG BpLdBz1ced-yaHxTPJcctMstT?7ERjvPu1J4HLW?bCa1aPx?TyiHEW

- NOTES-**
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 13 except (jt=lb) 23=158, 18=1177, 14=182, 12=371, 16=1885, 15=286.
 - 11) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
 - 12) "NAILED" indicates 3-10d skew 45 to 135 degrees (0.148" x 3") toe-nails per NDS guidelines.
 - 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 317 lb down and 121 lb up at 14-6-12, 279 lb down and 129 lb up at 16-5-4, 279 lb down and 129 lb up at 18-5-4, 279 lb down and 129 lb up at 20-5-4, 279 lb down and 129 lb up at 22-5-4, 279 lb down and 129 lb up at 24-5-4, and 279 lb down and 129 lb up at 26-5-4, and 260 lb down and 150 lb up at 27-6-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 14) 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: 1-6=-81, 6-10=-81, 20-22=-20, 11-19=-20, 22-23=-20
 Concentrated Loads (lb)
 Vert: 17=-261(F) 14=-261(F) 52=-59(F) 53=-282(F) 55=-261(F) 56=-261(F) 57=-261(F) 58=-261(F) 59=-151(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 **ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

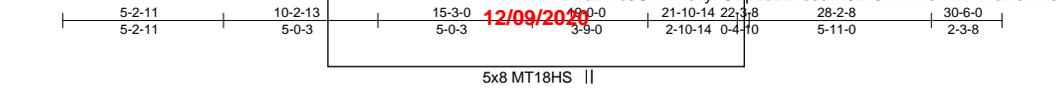


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

Job P200390	Truss B03	Truss Type Roof Special	Ply 1	Roof 1	I42645811
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:48 2020 Page 1
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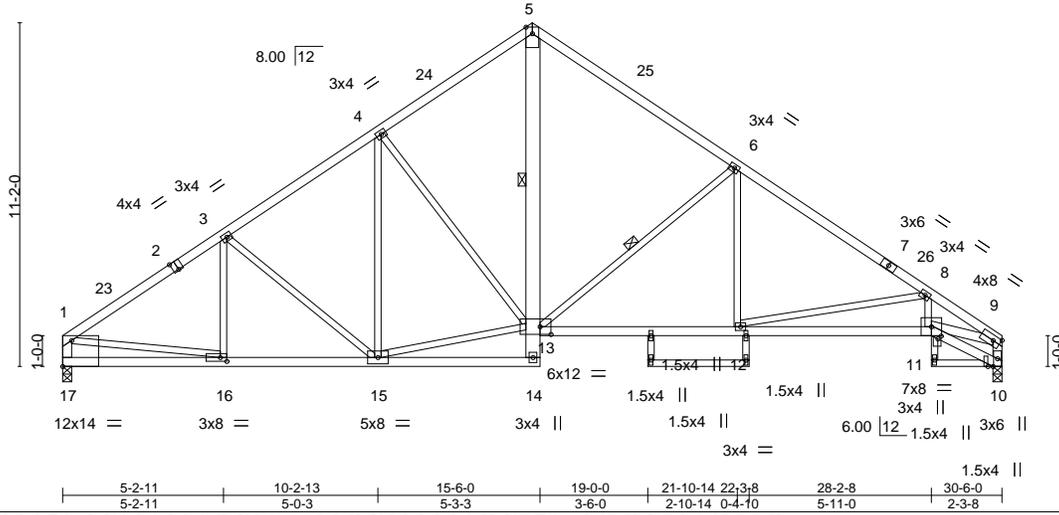


Plate Offsets (X,Y)-- [2:0-2.0,Edge], [11:0-1-2.0-1-4], [13:0-4-4,0-3-0], [16:0-2-8,0-1-8], [17:Edge,0-10-2], [17:0-1-12,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.		PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.81	in (loc) l/defl L/d		MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) 0.17 12-13 >999 240		MT18HS	197/144
TCDL 25.0	Lumber DOL 1.15	WB 0.94	Vert(TL) -0.36 12-13 >996 180			
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.23 10 n/a n/a			
BCDL 10.0	Code IRC2012/TPI2007					
					Weight: 151 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x3 SPF No.2 *Except* 14-17,11-13,10-11: 2x4 SPF No.2, 5-14: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 4-10-4 oc bracing. Except: 1 Row at midpt 5-13
WEBS 2x3 SPF No.2 *Except* 1-17,9-10,9-11: 2x4 SPF No.2	WEBS 1 Row at midpt 6-13

REACTIONS. (size) 17=0-3-8, 10=0-3-8
 Max Horz 17=298(LC 13)
 Max Uplift 17=-530(LC 14), 10=-531(LC 14)
 Max Grav 17=1812(LC 2), 10=1812(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-2410/1120, 3-4=-2130/1057, 4-5=-1821/956, 5-6=-1902/959, 6-8=-2713/1273,
 8-9=-3742/1814, 1-17=-1753/791, 9-10=-1788/869
 BOT CHORD 16-17=-215/380, 15-16=-890/1895, 5-13=-903/1339, 12-13=-846/2135, 11-12=-1387/3055
 WEBS 3-15=-340/229, 13-15=-639/1536, 4-13=-490/331, 1-16=-720/1662, 6-12=-354/439,
 6-13=-933/551, 8-11=-312/404, 9-11=-1444/3040, 8-12=-938/552

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TC DL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-3-0, Exterior(2) 15-3-0 to 18-3-0, Interior(1) 18-3-0 to 30-4-4 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 17=530, 10=531.



September 1, 2020

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

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

Job P200390	Truss B04	Truss Type Roof Special	Ply 1	Roof 142645812
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:49 2020 Page 1

ID:TaBrkdJGwHtUvykGBpLdBz1ced-rLXSInM7g6sL4JuTHorakBwcul5x07AyCN98FyiHES



6x6

Scale = 1:70.4

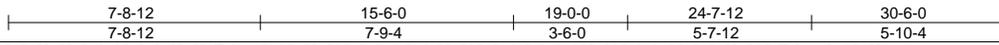
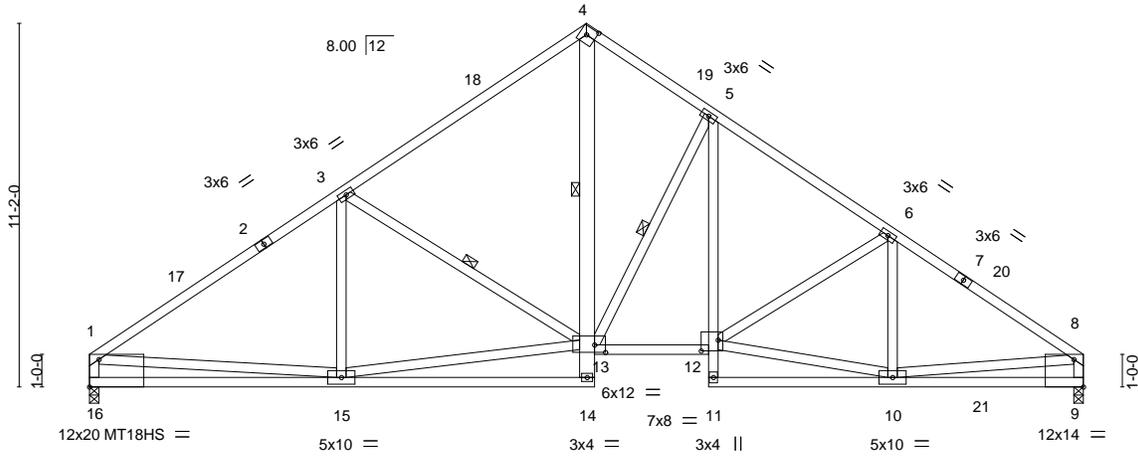


Plate Offsets (X,Y)-- [4:0-3-7,0-3-0], [9:0-1-12,0-0-0], [9:Edge,0-10-2], [12:0-6-4,0-4-0], [13:0-4-0,0-2-12], [16:0-1-12,0-0-0], [16:Edge,0-10-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.53	Vert(LL) 0.17 14-15 >999 240	MT18HS	197/144
TCDL 25.0	Lumber DOL 1.15	WB 0.91	Vert(TL) -0.31 14-15 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.10 9 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 172 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except* 4-7,7-8: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals. BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
BOT CHORD 2x4 SPF No.2 *Except* 4-14: 2x6 SPF No.2	8-1-7 oc bracing: 15-16 6-2-6 oc bracing: 12-13.
WEBS 2x4 SPF No.2	1 Row at midpt 4-13 1 Row at midpt 3-13, 5-13

REACTIONS. (size) 16=0-3-8, 9=0-3-8
Max Horz 16=383(LC 13)
Max Uplift 16=-529(LC 14), 9=-532(LC 14)
Max Grav 16=1812(LC 2), 9=1812(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-2447/1114, 3-4=-1921/948, 4-5=-1800/989, 5-6=-2356/1156, 6-8=-2433/1132,
1-16=-1740/756, 8-9=-1752/788
BOT CHORD 15-16=-482/443, 4-13=-917/1360, 12-13=-881/1828, 5-12=-440/610, 9-10=-165/266
WEBS 3-15=-293/52, 13-15=-918/1742, 3-13=-623/397, 5-13=-894/512, 10-12=-900/1867,
6-10=-504/86, 1-15=-594/1492, 8-10=-711/1653

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 15-3-0, Exterior(2) 15-3-0 to 18-3-0, Interior(1) 18-3-0 to 30-4-4 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=529, 9=532.



September 1, 2020

Job P200390	Truss B05	Truss Type Common	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645813
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:51 2020 Page 1
 ID:TaBrkdJGwHITuvykGBpLdBz1ced-nkfDJTONCj60bOTHaiqJf9GGCiQzPKsSQWsGC7yihEQ

-1-0-0 1-0-0	7-8-12 7-8-12	15-3-0 7-6-4	12/09/2020	22-9-4 7-6-4	30-6-0 7-8-12	31-6-0 1-0-0
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4x6 =

Scale = 1:72.1

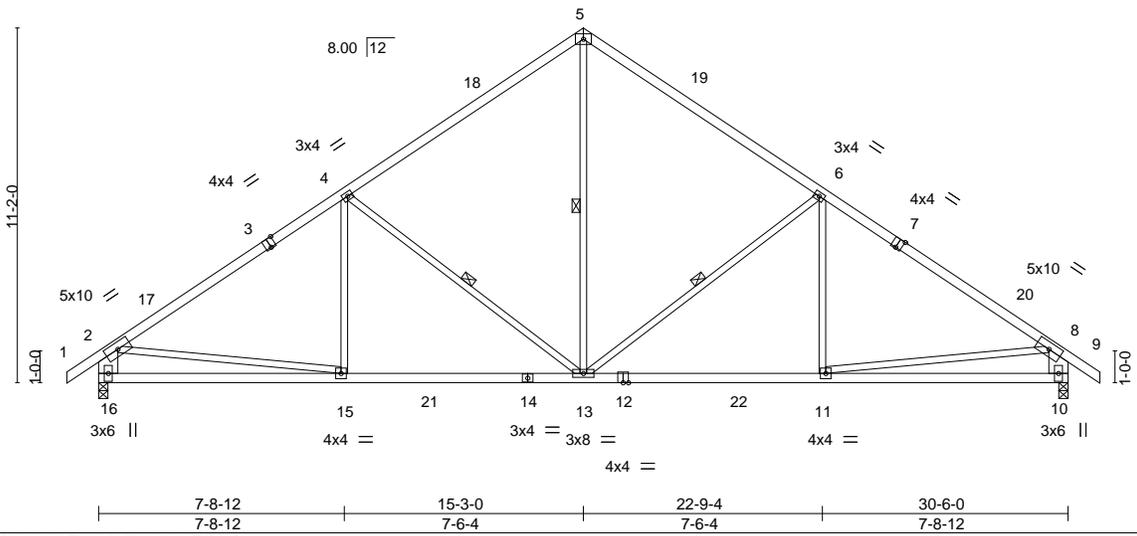


Plate Offsets (X,Y)--	[3:0-2-0,Edge], [7:0-2-0,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.87	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.63	Vert(LL) 0.14 11-13 >999 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.83	Vert(TL) -0.29 13-15 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.07 10 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 128 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF 1650F 1.5E *Except* 1-3,7-9: 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-7-7 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-16,8-10: 2x8 SPF No.2	WEBS 1 Row at midpt 5-13, 6-13, 4-13

REACTIONS. (size) 16=0-3-8, 10=0-3-8
 Max Horz 16=-296(LC 12)
 Max Uplift 16=-578(LC 14), 10=-578(LC 14)
 Max Grav 16=1924(LC 2), 10=1924(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2369/1083, 4-5=-1743/888, 5-6=-1743/888, 6-8=-2369/1083, 2-16=-1851/810, 8-10=-1851/810
 BOT CHORD 15-16=-270/636, 13-15=-758/1803, 11-13=-749/1803, 10-11=-246/554
 WEBS 5-13=-778/996, 6-13=-724/444, 4-13=-724/444, 2-15=-509/1309, 8-11=-510/1309

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) -1-0-0 to 2-0-0, Interior(1) 2-0-0 to 15-3-0, Exterior(2) 15-3-0 to 18-3-0, Interior(1) 18-3-0 to 31-6-0 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=578, 10=578.



September 1, 2020

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

Job P200390	Truss B06	Truss Type Common Girder	Ply 1	Roof 1	I42645814
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:52 2020 Page 1



Scale = 1:68.2

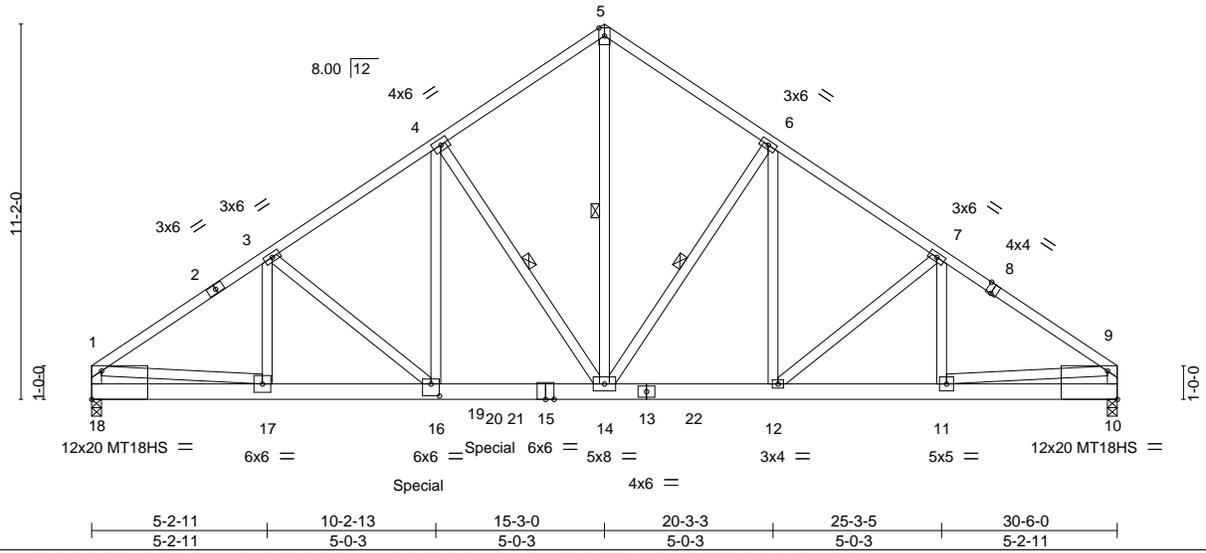


Plate Offsets (X,Y)-- [8:0-2-0,Edge], [10:Edge,0-10-2], [10:0-1-12,0-0-0], [16:0-3-0,0-4-4], [18:Edge,0-10-2], [18:0-1-12,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.		PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.84	in (loc) l/defl L/d		MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) 0.21 14-16 >999 240		MT18HS	197/144
TCDL 25.0	Lumber DOL 1.15	WB 0.94	Vert(TL) -0.35 14-16 >999 180			
BCLL 0.0 *	Rep Stress Incr NO	Matrix-S	Horz(TL) 0.06 10 n/a n/a			
BCDL 10.0	Code IRC2012/TPI2007					Weight: 186 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SPF No.2 *Except* 15-18: 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-2-8 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 5-14, 6-14, 4-14

REACTIONS. (size) 18=0-3-8, 10=0-3-8
 Max Horz 18=-271(LC 8)
 Max Uplift 18=-1218(LC 10), 10=-919(LC 10)
 Max Grav 18=2581(LC 2), 10=2251(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-3557/1718, 3-4=-3429/1836, 4-5=-2455/1304, 5-6=-2455/1304, 6-7=-2859/1324,
 7-9=-3093/1293, 1-18=-2463/1153, 9-10=-2164/876
BOT CHORD 17-18=-300/628, 16-17=-1338/2848, 14-16=-1318/2738, 12-14=-892/2263,
 11-12=-986/2463, 10-11=-147/388
WEBS 5-14=-1321/2091, 6-14=-693/391, 6-12=-267/301, 7-12=-317/242, 7-11=-286/62,
 4-14=-1551/1004, 4-16=-1008/1335, 3-16=-371/356, 3-17=-428/167, 1-17=-1140/2391,
 9-11=-846/2095

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=1218, 10=919.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 572 lb down and 459 lb up at 9-9-15, and 828 lb down and 633 lb up at 11-11-8 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



September 1, 2020

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.
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Job P200390	Truss B06	Truss Type Common Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/09/2020	Ply 1	Roof Job Reference (optional)	I42645814
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:52 2020 Page 2
 ID:TaBrkdJGwHiTuvykGBbLdBz1ced-FwCbxoP?z1EtCY1T8PLYCMpRM6kR8IKceAbpkZyihEP

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-5=-81, 5-9=-81, 10-18=-20

Concentrated Loads (lb)

Vert: 19=-418(B) 20=-627(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 **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job P200390	Truss B08	Truss Type Common	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645815
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:53 2020 Page 1

ID:TaBrkJGwHiTuykGBpLdBz1ced-j7mz88QekKMkqicfi7tnkaMcXV7EtfBlqLNH0yiHEO

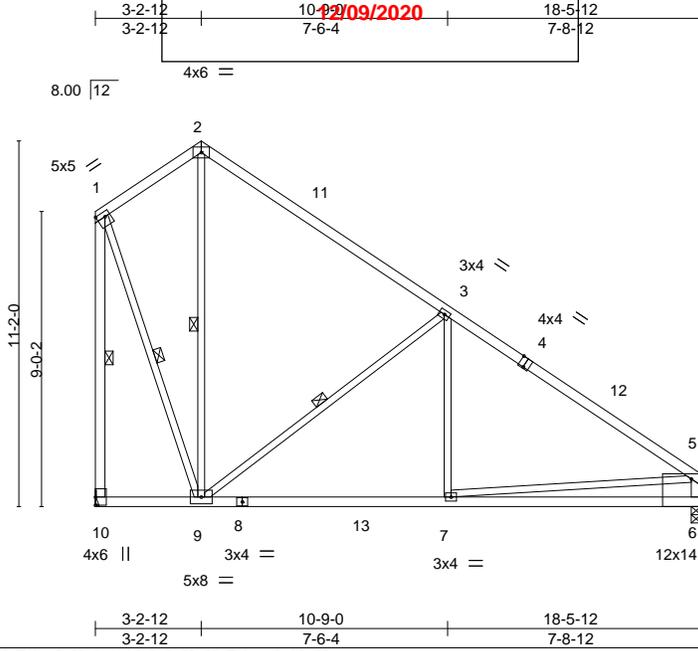


Plate Offsets (X,Y)-- [1:Edge,0-1-12], [4:0-2-0,Edge], [6:0-1-12,0-0-0], [6:Edge,0-10-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.88	Vert(LL) 0.15	6-7	>999	240	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.51	Vert(TL) -0.20	6-7	>999	180		
TCDL 25.0	Lumber DOL 1.15	WB 0.71	Horz(TL) 0.02	6	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S						
BCDL 10.0	Code IRC2012/TPI2007						Weight: 91 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2 *Except*
2-4: 2x4 SPF 1650F 1.5E
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
1-10,5-6: 2x4 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-11 oc bracing.
WEBS 1 Row at midpt 2-9, 3-9, 1-10, 1-9

REACTIONS.

(size) 10=Mechanical, 6=0-3-8
Max Horz 10=-419(LC 12)
Max Uplift 10=-335(LC 14), 6=-304(LC 14)
Max Grav 10=1091(LC 2), 6=1091(LC 2)

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

TOP CHORD 1-2=-497/425, 2-3=-577/388, 3-5=-1324/709, 1-10=-1077/708, 5-6=-1021/493
BOT CHORD 9-10=-418/406, 7-9=-496/950, 6-7=-271/367
WEBS 2-9=-331/73, 3-9=-851/609, 3-7=-357/286, 1-9=-642/838, 5-7=-226/600

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) 0-1-12 to 6-2-12, Interior(1) 6-2-12 to 18-4-0 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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) except (jt=lb) 10=335, 6=304.



September 1, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
Chesterfield, MO 63017

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

Job P200390	Truss B09	Truss Type Roof Special	Ply 1	Roof 8.330 s	I42645816
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:55 2020 Page 1
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-0-10-8 0-10-8	3-11-4 3-11-4	7-8-12 3-9-8	11-6-2 3-9-6	15-2-8 3-8-14	20-8-12 5-5-12	26-2-8 5-5-12	28-4-4 2-1-12	30-6-0-31-4-8 2-1-12-0-10-8
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4x6 ||

Scale = 1:71.5

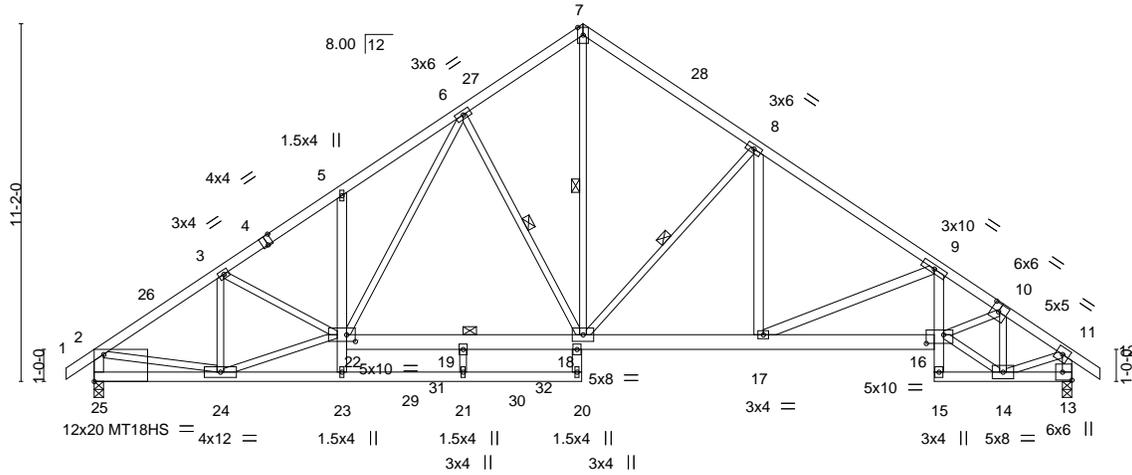


Plate Offsets (X,Y)--	[4:0-2-0,Edge], [10:0-2-12,0-3-0], [13:Edge,0-3-8], [16:0-6-8,0-3-4], [22:0-3-4,0-2-8], [25:0-1-12,0-0-0], [25:Edge,0-10-2]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) -0.39 20 >935 240	MT18HS	197/144
TCDL 25.0	Lumber DOL 1.15	WB 0.89	Vert(TL) -1.11 20 >327 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.17 13 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 170 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-0-9 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2 *Except* 16-22: 2x6 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 7-10-1 oc bracing: 17-18 6-5-0 oc bracing: 16-17. 8-6-0 oc bracing: 18-19
WEBS 2x3 SPF No.2 *Except* 5-23,8-17,9-17,2-25,11-13: 2x4 SPF No.2	WEBS 1 Row at midpt 7-18, 6-18, 8-18
	JOINTS 1 Brace at Jt(s): 19

REACTIONS. (size) 25=0-3-8, 13=0-3-8
 Max Horz 25=343(LC 13)
 Max Uplift 25=546(LC 14), 13=553(LC 14)
 Max Grav 25=1956(LC 2), 13=1947(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2373/1044, 3-5=-2775/1254, 5-6=-2774/1358, 6-7=-1878/946, 7-8=-1946/943,
 8-9=-2593/1179, 9-10=-3227/1486, 10-11=-1988/908, 2-25=-1904/825, 11-13=-1887/853
BOT CHORD 24-25=-255/337, 19-22=-746/1825, 18-19=-746/1825, 17-18=-890/2036,
 16-17=-1291/2755, 9-16=-240/334
WEBS 5-22=-377/144, 8-17=-363/399, 9-17=-780/435, 10-14=-1352/560, 11-14=-669/1547,
 7-18=-919/1572, 6-22=-557/906, 6-18=-766/412, 8-18=-836/503, 2-24=-694/1711,
 3-24=-783/261, 19-21=0/290, 22-24=-883/1893, 3-22=-113/427, 14-16=-749/1580,
 10-16=-518/1250

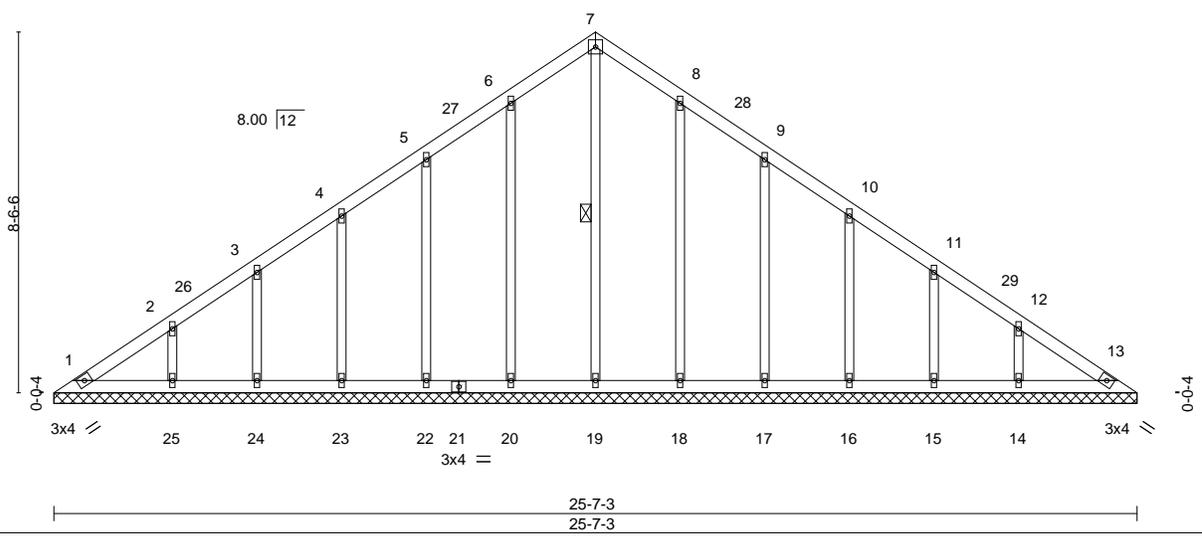
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 15-3-0, Exterior(2) 15-3-0 to 18-3-0, Interior(1) 18-3-0 to 31-4-8 zone; cantilever left and right exposed; end vertical 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
 - 3) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load; Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow; Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 5) All plates are MT20 plates unless otherwise indicated.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 25=546, 13=553.



September 1, 2020

Job P200390	Truss D01	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645817
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,			8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:58 2020 Page 1 ID:TaBrkdJGwHiTuyvkgBpLdBz1ced-44asBsTmZl?0xTVdUgSyRd3ffWypYdiU1637yDyilHEJ		
12-9-10 12-9-10			25-7-3 12-9-10		
4x4 =					

Scale = 1:54.2



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.04	Vert(LL) n/a - n/a 999		
TCDL 25.0	Lumber DOL 1.15	WB 0.25	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 13 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 102 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	WEBS 1 Row at midpt 7-19

REACTIONS. All bearings 25-7-3.
 (lb) - Max Horz 1=198(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 22, 23, 24, 25, 18, 17, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 1, 13, 19, 22, 23, 24, 17, 16, 15 except 20=254(LC 23), 25=303(LC 23), 18=251(LC 28), 14=303(LC 24)

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

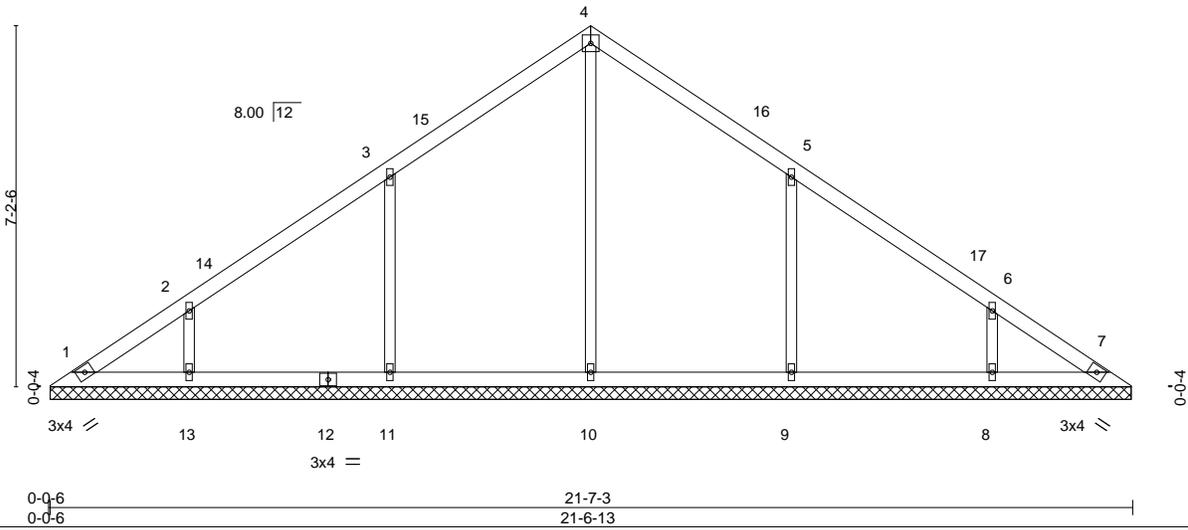
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 12-9-10, Exterior(2) 12-9-10 to 15-9-10, Interior(1) 15-9-10 to 25-1-7 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - All plates are 1.5x4 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) 20, 22, 23, 24, 25, 18, 17, 16, 15, 14.



September 1, 2020

Job P200390	Truss D02	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645818
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,			8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:59 2020 Page 1 ID:TaBrkdJGwHiTuvykGBpLdBz1ced-YG7EPCUOJA7Yd4p2O_B_rnMwG7H3seGlohUgyiHEI		
10-9-10 10-9-10			12/09/2020		
4x4 =			21-7-3 10-9-10		

Scale = 1:45.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.28	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) n/a - n/a 999		
TCDL 25.0	Lumber DOL 1.15	WB 0.32	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 7 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 67 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 21-6-7.
 (lb) - Max Horz 1=166(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 8 except 11=117(LC 14), 9=117(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 10=476(LC 23), 11=583(LC 23), 13=417(LC 2), 9=583(LC 24), 8=417(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 4-10=-272/0, 3-11=-443/181, 2-13=-346/152, 5-9=-443/181, 6-8=-346/152

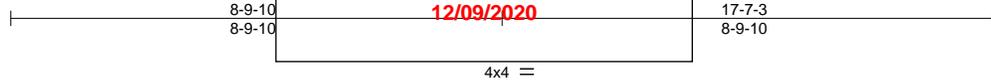
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 10-9-10, Exterior(2) 10-9-10 to 13-9-10, Interior(1) 13-9-10 to 21-1-7 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - All plates are 1.5x4 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 8 except (jt=lb) 11=117, 9=117.



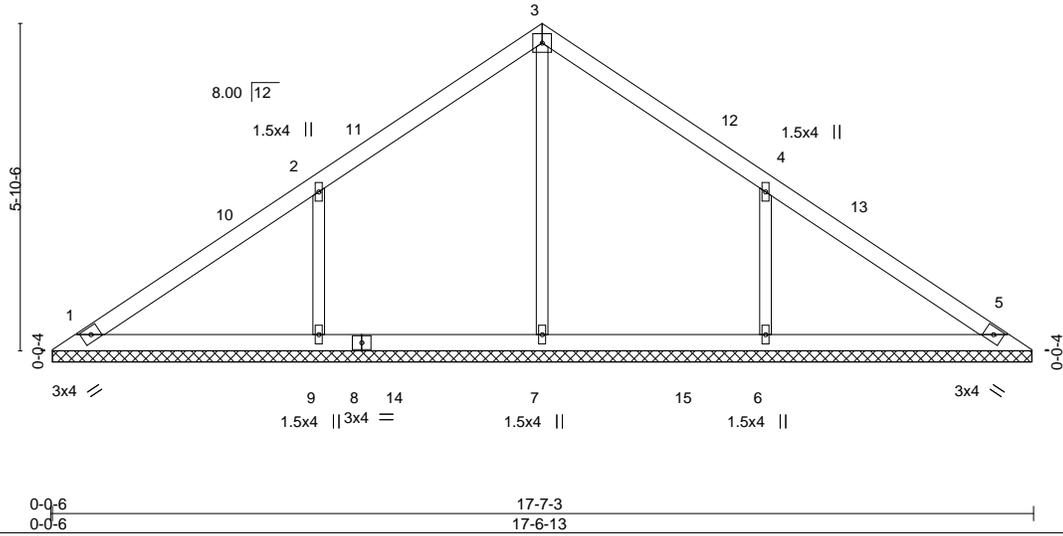
September 1, 2020

Job P200390	Truss D03	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645819
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:00 2020 Page 1
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Scale = 1:41.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.36	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) n/a - n/a 999		
TCDL 25.0	Lumber DOL 1.15	WB 0.19	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 51 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 17-6-7.
 (lb) - Max Horz 1=134(LC 13)
 Max Uplift All uplift 100 lb or less at joint(s) except 9=134(LC 14), 6=134(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=427(LC 23), 9=623(LC 23), 6=623(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-7=-255/0, 2-9=-492/197, 4-6=-492/197

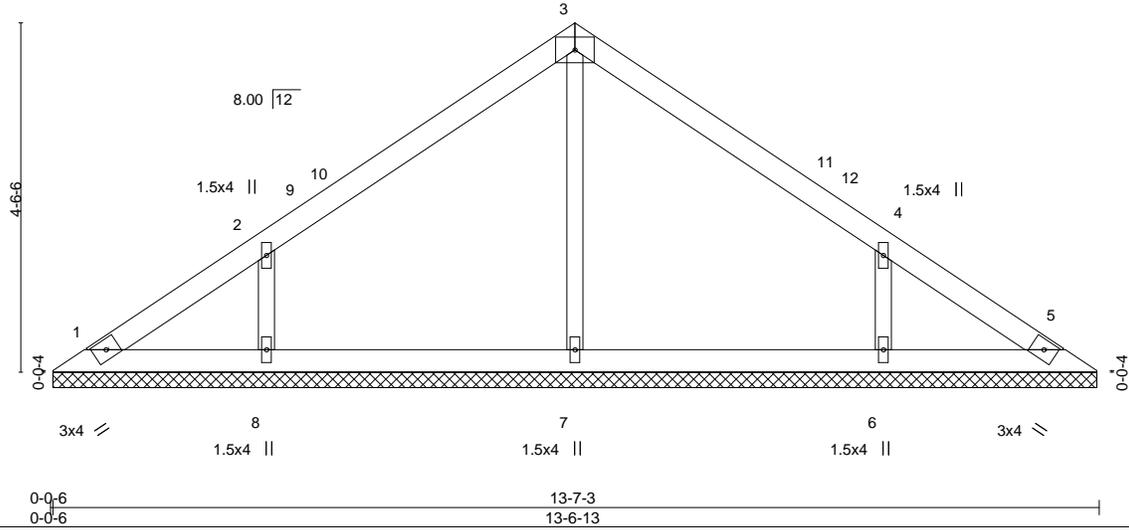
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 8-9-10, Exterior(2) 8-9-10 to 11-9-10, Interior(1) 11-9-10 to 17-1-7 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 9 and 134 lb uplift at joint 6.



September 1, 2020

Job P200390	Truss D04	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645820
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083,			8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:01 2020 Page 1 ID:TaBrkJGwHiTuvykGBpLdBz1ced-UfF?qtWfroNbowDCAo0f3Gh7UkzUI0Jxj3HoZYyihEG		
6-9-10 6-9-10			13-7-3 6-9-10		
4x6 =					

Scale = 1:29.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
TCDL 25.0	Lumber DOL 1.15	WB 0.13	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 38 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 13-6-7.
 (lb) - Max Horz 1=102(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) except 8=104(LC 14), 6=104(LC 14)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=369(LC 2), 8=461(LC 27), 6=461(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-7=-285/14, 2-8=-391/171, 4-6=-391/171

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 6-9-10, Exterior(2) 6-9-10 to 9-9-10, Interior(1) 9-9-10 to 13-1-7 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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 104 lb uplift at joint 8 and 104 lb uplift at joint 6.



September 1, 2020

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

Job P200390	Truss D05	Truss Type Valley	Ply 1	Roof I42645821
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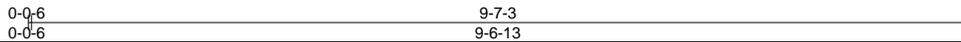
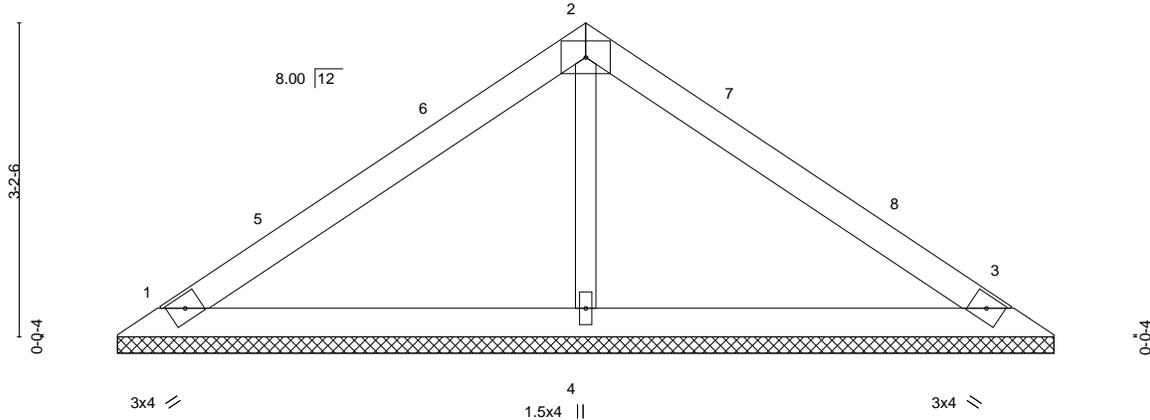
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:02 2020 Page 1

ID:TaBrkdJGwHiTuyykGBbLdBz1ced-yrpN1DXHc5VSP4oOjWxucTEGR8HbUTA4yj1L5_yiHEF



4x6 =

Scale = 1:23.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) n/a - n/a 999		
TCDL 25.0	Lumber DOL 1.15	WB 0.09	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 25 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
OTHERS 2x3 SPF 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=9-6-7, 3=9-6-7, 4=9-6-7
Max Horz 1=-70(LC 12)
Max Uplift 1=-39(LC 14), 3=-39(LC 14), 4=-16(LC 14)
Max Grav 1=271(LC 2), 3=271(LC 2), 4=494(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-4=-350/88

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-9-10, Exterior(2) 4-9-10 to 7-9-10, Interior(1) 7-9-10 to 9-1-7 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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 39 lb uplift at joint 1, 39 lb uplift at joint 3 and 16 lb uplift at joint 4.



September 1, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

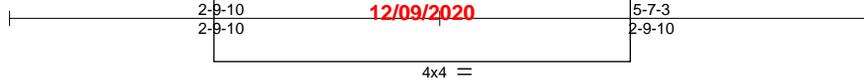


16023 Swingley Ridge Rd
Chesterfield, MO 63017

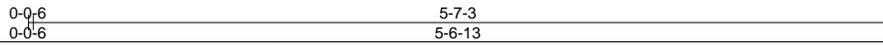
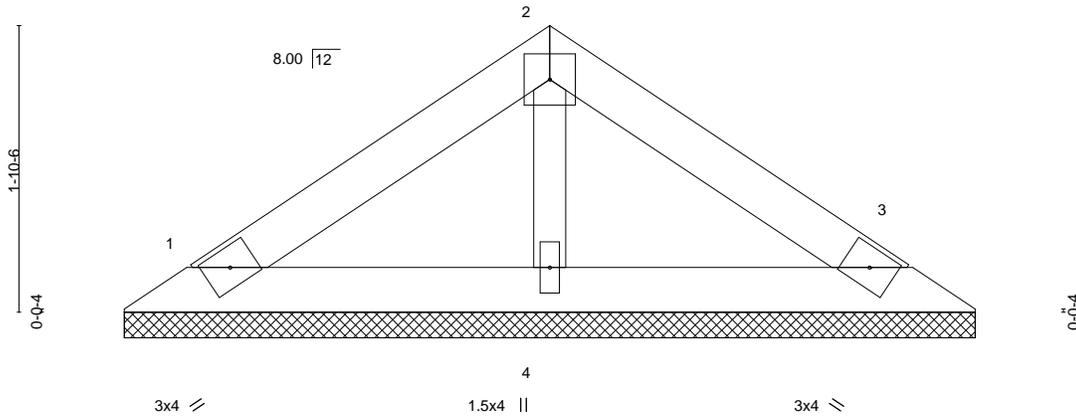
Job P200390	Truss D06	Truss Type Valley	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645822
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:02 2020 Page 1

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Scale = 1:14.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.13	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) n/a - n/a 999		
TCDL 25.0	Lumber DOL 1.15	WB 0.03	Vert(TL) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(TL) 0.00 3 n/a n/a	Weight: 14 lb	FT = 20%
BCDL 10.0	Code IRC2012/TPI2007				

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x3 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-6-7, 3=5-6-7, 4=5-6-7
 Max Horz 1=-37(LC 12)
 Max Uplift 1=-27(LC 14), 3=-27(LC 14)
 Max Grav 1=160(LC 2), 3=160(LC 2), 4=236(LC 2)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) zone; cantilever left and right exposed ; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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 27 lb uplift at joint 1 and 27 lb uplift at joint 3.



September 1, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



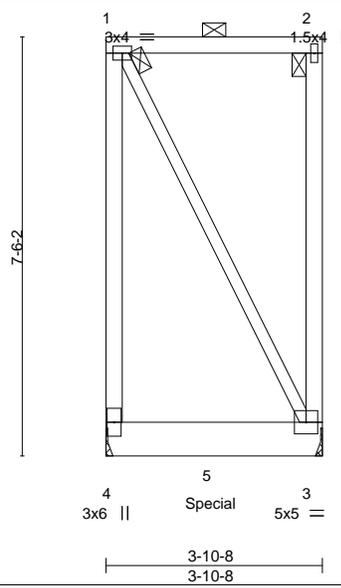
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job P200390	Truss C01	Truss Type Flat Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof I42645823
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:56 2020 Page 1
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~~12/09/2020~~
3-10-8

Scale = 1:41.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.39	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.33	Vert(LL) 0.01 3-4 >999 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.44	Vert(TL) -0.02 3-4 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Horz(TL) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2012/TP12007			Weight: 35 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.
BOT CHORD 2x8 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except*	
1-3: 2x3 SPF No.2	

REACTIONS. (size) 4=Mechanical, 3=Mechanical
 Max Horz 4=-277(LC 6)
 Max Uplift 4=-463(LC 6), 3=-463(LC 7)
 Max Grav 4=607(LC 37), 3=607(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-4=-365/334
 WEBS 1-3=-307/307

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed ; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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) 4=463, 3=463.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 562 lb down and 224 lb up at 1-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-91, 3-4=-20
 Concentrated Loads (lb)
 Vert: 5=-479(F)



September 1, 2020

Job P200390	Truss C02	Truss Type Flat Girder	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof I42645824
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:56 2020 Page 1
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12/09/2020
3-10-8

Scale: 1/4"=1'

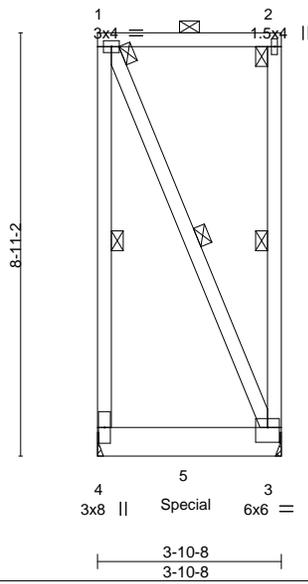


Plate Offsets (X,Y)-- [3:0-3:0,0-3:12]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.59	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 20.4/20.0	Plate Grip DOL 1.15	BC 0.60	Vert(LL) -0.01 3-4 >999 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.16	Vert(TL) -0.04 3-4 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Horz(TL) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 42 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD 2-0-0 oc purlins: 1-2, except end verticals.
BOT CHORD 2x8 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 1-4, 2-3, 1-3

REACTIONS. (size) 4=Mechanical, 3=Mechanical
 Max Horz 4=-333(LC 6)
 Max Uplift 4=-638(LC 6), 3=-638(LC 7)
 Max Grav 4=893(LC 37), 3=894(LC 36)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-4=-486/455
 BOT CHORD 3-4=-296/258
 WEBS 1-3=-428/428

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=20.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - 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) 4=638, 3=638.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1071 lb down and 331 lb up at 1-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-91, 3-4=-20
 Concentrated Loads (lb)
 Vert: 5=-897(B)



September 1, 2020

Job P200390	Truss B07	Truss Type Jack-Closed	Roof 1	142645825
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

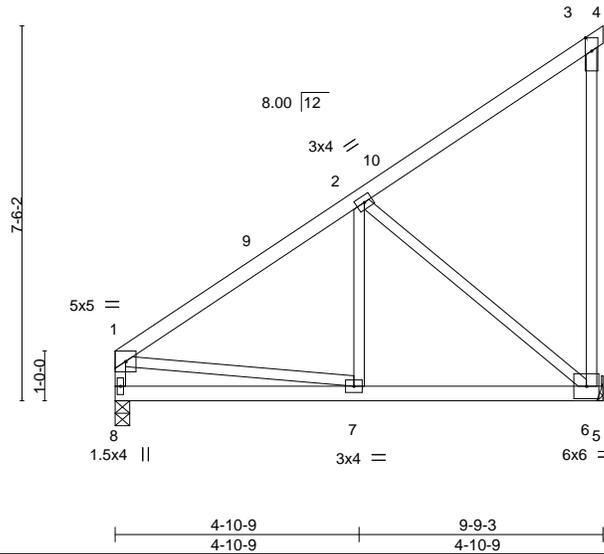
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:53 2020 Page 1

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4-10-9 12/09/2020 9-9-3
4-10-9 4-10-9

3x8 ||

Scale = 1:45.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.22	Vert(LL) 0.05 6-7 >999 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.49	Vert(TL) -0.04 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.01 6 n/a n/a	Weight: 42 lb	FT = 20%
BCDL 10.0	Code IRC2012/TPI2007				

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 7-11-4 oc bracing.
WEBS 2x3 SPF No.2	

REACTIONS. (size) 8=0-3-8, 6=Mechanical
Max Horz 8=298(LC 11)
Max Uplift 8=143(LC 14), 6=228(LC 11)
Max Grav 8=566(LC 2), 6=582(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-521/283, 1-2=-607/361, 3-6=-257/153
BOT CHORD 7-8=-527/551, 6-7=-452/530
WEBS 2-6=-552/466, 2-7=-273/185, 1-7=-128/297

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) 0-1-4 to 3-1-4, Interior(1) 3-1-4 to 9-9-3 zone; cantilever left and right exposed; end vertical 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
 - 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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) except (jt=lb) 8=143, 6=228.



September 1, 2020

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

Job P200390	Truss A01	Truss Type Common Structural Gable	Ply 1	Roof 1	I42645826
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:39 2020 Page 1

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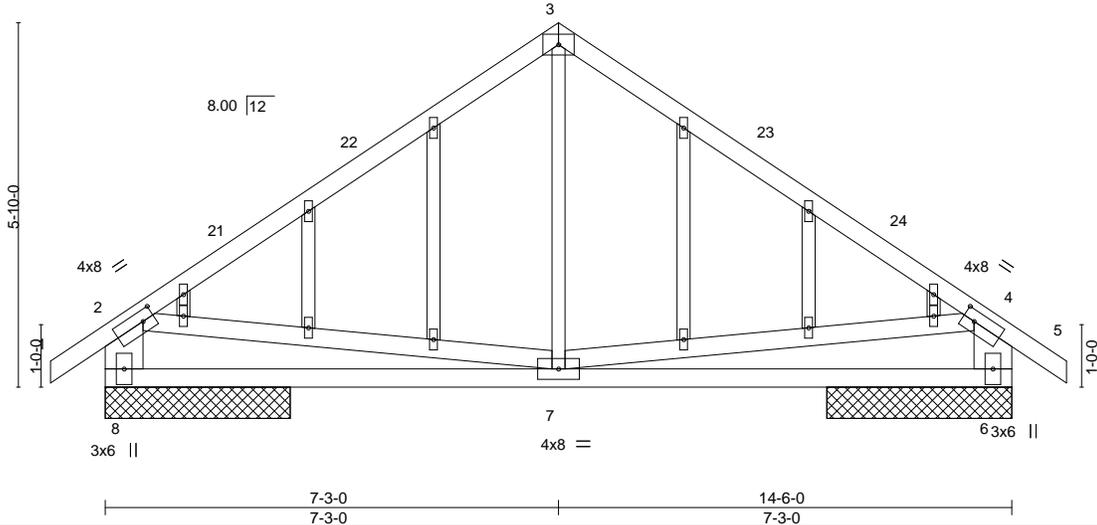


Plate Offsets (X,Y)-- [2:0-2-4,0-2-0], [4:0-2-4,0-2-0]

LOADING (psf)	TCLL (roof) 25.0 Snow (Pf/Pg) 15.4/20.0 TCDL 25.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2012/TPI2007	CSI. TC 0.90 BC 0.40 WB 0.27 Matrix-S	DEFL. Vert(LL) 0.10 7-8 >999 240 Vert(TL) -0.12 6-7 >999 180 Horz(TL) 0.01 6 n/a n/a	PLATES MT20 Weight: 72 lb	GRIP 197/144 FT = 20%
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LUMBER- TOP CHORD 2x4 SPF No.2 BOT CHORD 2x4 SPF No.2 WEBS 2x4 SPF No.2 *Except* 3-7: 2x3 SPF No.2, 2-8,4-6: 2x8 SPF No.2 OTHERS 2x3 SPF No.2	BRACING- TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals. BOT CHORD Rigid ceiling directly applied or 9-9-6 oc bracing.
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REACTIONS. (size) 8=2-11-8, 6=2-11-8
Max Horz 8=-165(LC 12)
Max Uplift 8=-292(LC 14), 6=-292(LC 14)
Max Grav 8=951(LC 2), 6=951(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-897/502, 3-4=-897/502, 2-8=-891/433, 4-6=-891/433
BOT CHORD 7-8=-322/597, 6-7=-289/570
WEBS 3-7=-363/282

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-3-0, Exterior(2) 7-3-0 to 10-3-0, Interior(1) 10-3-0 to 15-4-8 zone; cantilever left and right exposed; end vertical 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
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - 5) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 6) All plates are 1.5x4 MT20 unless otherwise indicated.
 - 7) Gable studs spaced at 2-0-0 oc.
 - 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 292 lb uplift at joint 8 and 292 lb uplift at joint 6.



September 1, 2020

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

Job P200390	Truss A02	Truss Type Common	Ply 1	Roof 142645827
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:40 2020 Page 1

ID:TaBrkdJGwHiTuvyKGBpLdBz1ced-cdU2PiGUoLkami7ARu8kiqJM6Gj3KT4rulhBJGyihEb



12/09/2020

4x6 =

Scale = 1:35.5

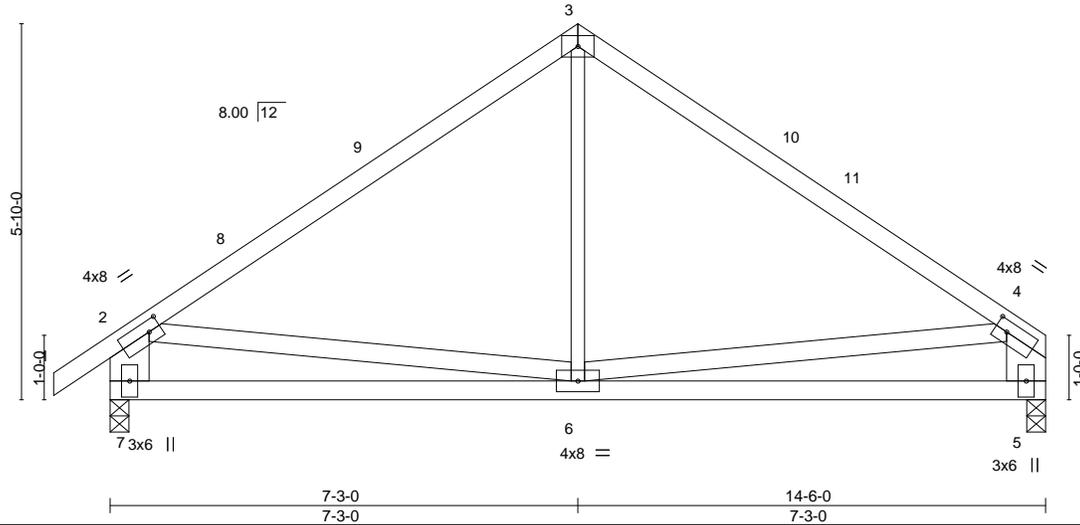


Plate Offsets (X,Y)-- [2:0-2-4,0-2-0], [4:0-2-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.99	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.39	Vert(LL) 0.10 6-7 >999 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.26	Vert(TL) -0.12 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.01 5 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 61 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 3-6: 2x3 SPF No.2, 2-7,4-5: 2x8 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-3-9 oc bracing.

REACTIONS.

(size) 7=0-3-8, 5=0-3-8
 Max Horz 7=161(LC 13)
 Max Uplift 7=-292(LC 14), 5=-243(LC 14)
 Max Grav 7=956(LC 2), 5=829(LC 2)

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

TOP CHORD 2-3=-908/503, 3-4=-892/501, 2-7=-895/433, 4-5=-767/376
 BOT CHORD 6-7=-358/575, 5-6=-247/366
 WEBS 3-6=-350/269, 4-6=-77/272

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCCL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Exterior(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 7-3-0, Exterior(2) 7-3-0 to 10-3-0, Interior(1) 10-3-0 to 14-2-6 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
- This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof loads of 15.4 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 capable of withstanding 292 lb uplift at joint 7 and 243 lb uplift at joint 5.



September 1, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

Job P200390	Truss A03	Truss Type Roof Special	1	Roof Job Reference (optional)	I42645828
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:08:42 2020 Page 1

ID:TaBrkdJGwHiTuyykGBpLdBz1ced-Y?cpqQHkKy_I00GYYJACoFPq?4O2oIU8LcAHO9yiHEZ

0-10-8 0-10-8	2-3-8 2-3-8	7-3-0 4-11-8	12/09/2020	12-2-8 4-11-8	14-6-0 2-3-8
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4x4 =

Scale = 1:38.0

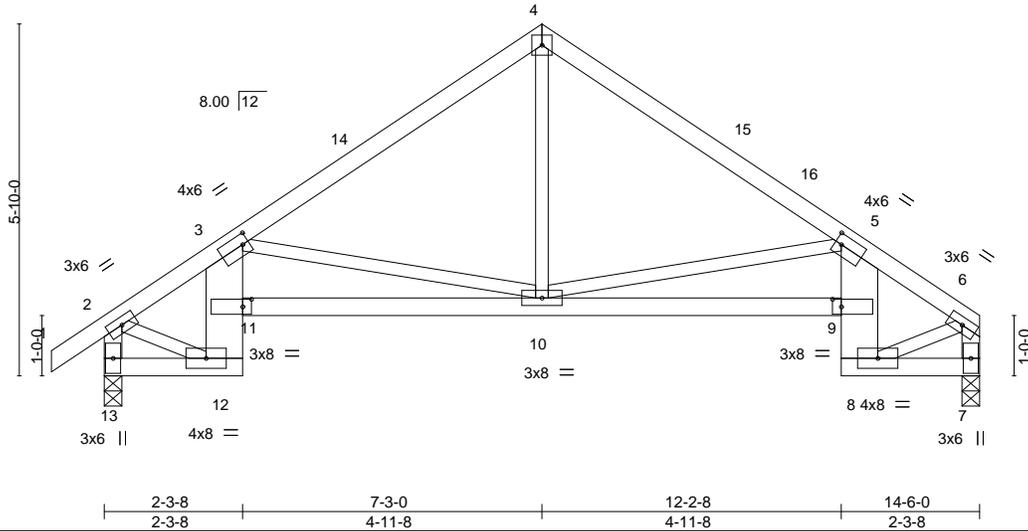


Plate Offsets (X,Y)-- [3:0-1-4,0-2-0], [5:0-1-4,0-2-0], [9:0-1-12,0-1-8], [11:0-1-12,0-1-8]

LOADING (psf)	SPACING-		CSI.	DEFL.		PLATES	GRIP
TCLL (roof) 25.0	2-0-0		TC 0.45	in (loc) l/defl L/d		MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15		BC 0.49	Vert(LL) 0.08 10-11 >999 240			
TCDL 25.0	Lumber DOL 1.15		WB 0.58	Vert(TL) -0.12 9-10 >999 180			
BCLL 0.0 *	Rep Stress Incr YES		Matrix-S	Horz(TL) 0.12 7 n/a n/a			
BCDL 10.0	Code IRC2012/TPI2007					Weight: 62 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2 *Except*
 3-12,5-8: 2x8 SPF No.2
WEBS 2x3 SPF No.2 *Except*
 2-13,6-7: 2x4 SPF No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 5-5-10 oc bracing.

REACTIONS. (size) 13=0-3-8, 7=0-3-8
 Max Horz 13=230(LC 13)
 Max Uplift 13=-289(LC 14), 7=-252(LC 14)
 Max Grav 13=958(LC 2), 7=849(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-865/516, 3-4=-1012/606, 4-5=-1012/617, 5-6=-881/532, 2-13=-939/531, 6-7=-830/491
BOT CHORD 12-13=-271/73, 10-11=-1110/1518, 9-10=-1035/1554
WEBS 2-12=-355/663, 6-8=-400/673, 4-10=-521/474, 3-10=-827/661, 5-10=-864/585

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) -0-10-8 to 1-11-14, Interior(1) 1-11-14 to 7-3-0, Exterior(2) 7-3-0 to 10-3-0, Interior(1) 10-3-0 to 14-4-4 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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 capable of withstanding 289 lb uplift at joint 13 and 252 lb uplift at joint 7.



September 1, 2020

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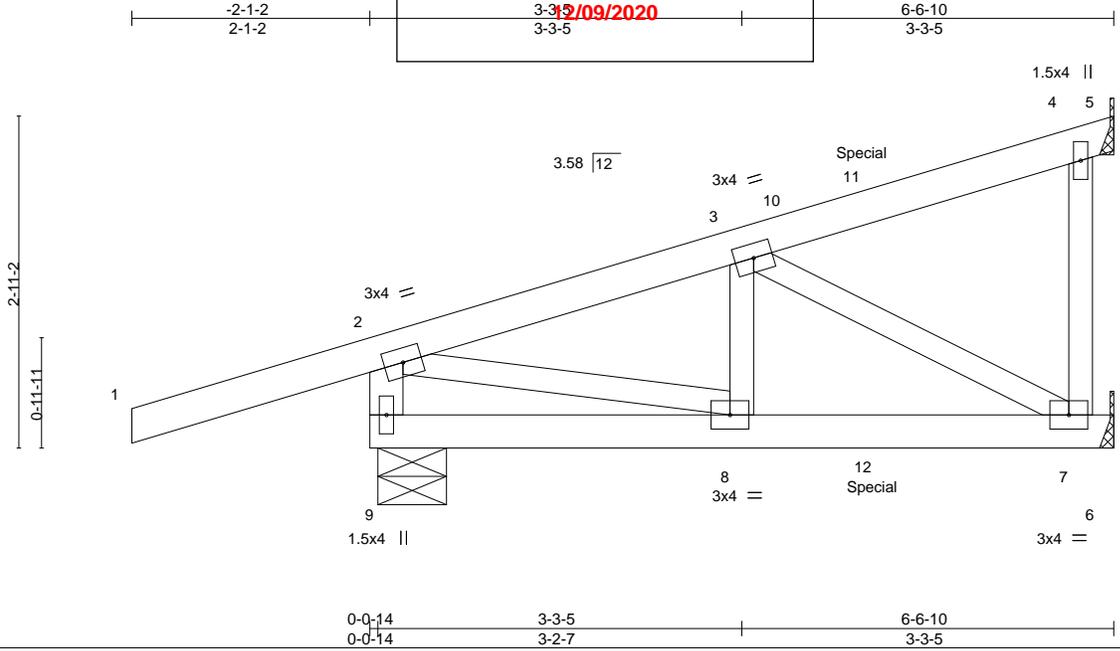


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job P200390	Truss HMB01	Truss Type Diagonal Hip Girder	Roof 1	Job Reference (optional) I42645829
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RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:13 2020 Page 1
 ID:TaBrkdJGwHiTuyykGpLdBz1ced-8z_XL_fA0UuuEm8VtKETYoB6JZ?UZQqUxBQ_syiHE4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.57	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.35	Vert(LL) -0.02 7-8 >999 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.16	Vert(TL) -0.04 7-8 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-P	Horz(TL) -0.00 5 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 26 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-9: 2x4 SPF No.2	

REACTIONS. (size) 9=0-7-4, 5=Mechanical, 6=Mechanical
 Max Horz 9=121(LC 12)
 Max Uplift 9=205(LC 12), 5=42(LC 9), 6=-128(LC 41)
 Max Grav 9=687(LC 2), 5=149(LC 2), 6=282(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-9=-675/193, 2-3=-515/114
 BOT CHORD 7-8=-139/433
 WEBS 2-8=-75/444, 3-7=-494/159

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp C; Enclosed; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) 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) 5 except (jt=lb) 9=205, 6=128.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 51 lb down and 150 lb up at 4-5-8 on top chord, and 149 lb down and 20 lb up at 4-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-81, 2-5=-81, 6-9=-20



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/TP1 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 P200390	Truss HMB01	Truss Type Diagonal Hip Girder	Ply 1	Roof I42645829
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RELEASE FOR
 CONSTRUCTION
 AS NOTED ON PLANS REVIEW
 DEVELOPMENT SERVICES
 LEE'S SUMMIT, MISSOURI
 12/09/2020

Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:13 2020 Page 2
 ID:TaBrkdJGwHiTuyykGpLdBz1ced-8z_XL_fA0UuuEm8VtKETYoB6JZ?UZQqiUxBQ_syiHE4

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 11=70(B) 12=-103(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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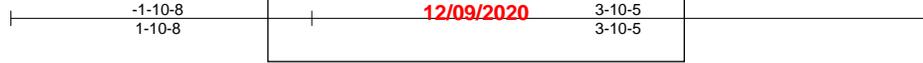


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

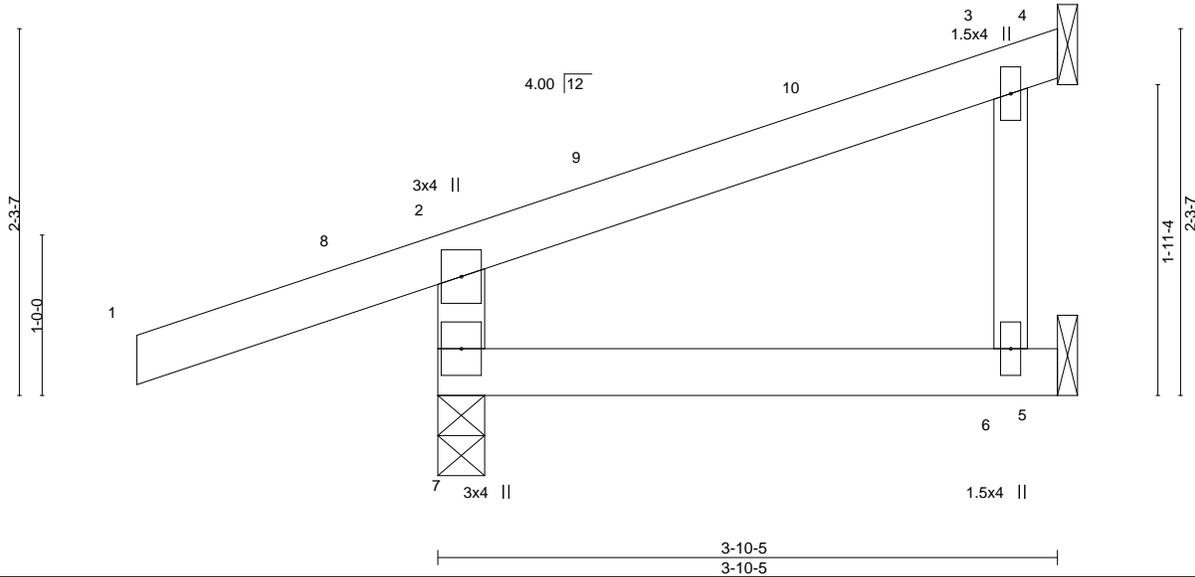
Job P200390	Truss JB01	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645830
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8,330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:14 2020 Page 1

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Scale = 1:14.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) 0.03 6-7 >999 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.03	Vert(TL) -0.02 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-P	Horz(TL) -0.02 4 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 13 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2 *Except*
 3-6: 2x3 SPF No.2

BRACING-

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

REACTIONS.

(size) 7=0-3-8, 4=Mechanical, 5=Mechanical
 Max Horz 7=99(LC 16)
 Max Uplift 7=-147(LC 16), 4=-53(LC 30), 5=-35(LC 16)
 Max Grav 7=477(LC 2), 4=70(LC 7), 5=176(LC 2)

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

TOP CHORD 2-7=-419/219

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 3-9-9 zone; cantilever left and right exposed; end vertical 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
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp C; Partially Exp.; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) 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) 4, 5 except (jt=lb) 7=147.



September 1, 2020

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

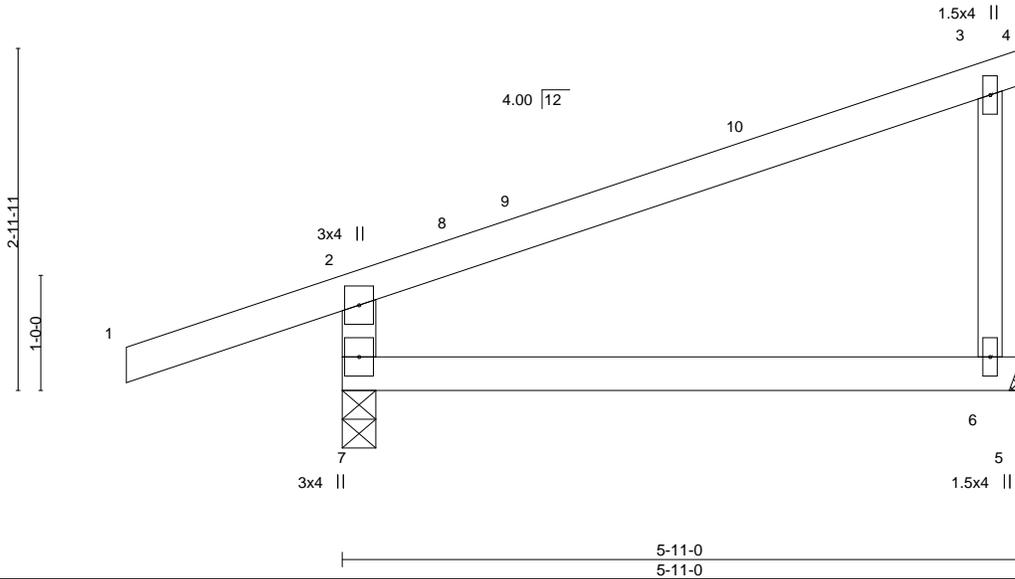
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job P200390	Truss JB02	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645831
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:15 2020 Page 1
 ID:TaBrkdJGwHiTuvykgBpLdBz1ced-4L5HmghRY58cT4lu_IGxdDGRINGP1Mt?xFgX2kyiHE2
 12/09/2020 5-11-0 5-11-0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.38	Vert(LL) 0.16 6-7 >437 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.06	Vert(TL) -0.17 6-7 >406 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 n/a n/a		
BCLD 10.0	Code IRC2012/TPI2007			Weight: 19 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 5-11-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SPF No.2 *Except* 3-6: 2x3 SPF No.2	

REACTIONS. (size) 7=0-3-8, 5=Mechanical
 Max Horz 7=123(LC 16)
 Max Uplift 7=173(LC 16), 5=109(LC 16)
 Max Grav 7=580(LC 2), 5=299(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-7=-517/224

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) -1-10-8 to 1-1-8, Interior(1) 1-1-8 to 5-11-0 zone; cantilever left and right exposed; end vertical 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
 - 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - 3) Unbalanced snow loads have been considered for this design.
 - 4) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) 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) 7=173, 5=109.



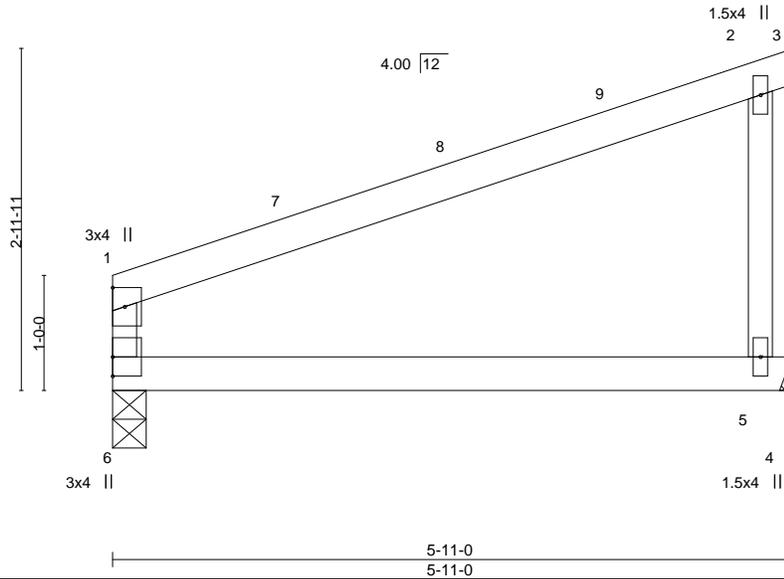
September 1, 2020

Job P200390	Truss JB03	Truss Type Jack-Open	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645832
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:15 2020 Page 1
ID:TaBrkdJGwHiTuyykGBpLdBz1ced-4L5HmghRY58cT4lu_IGxdDGOONf41Mm?xFgX2kyiHE2

12/09/2020
5-11-0

Scale = 1:19.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.79	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.40	Vert(LL) 0.17 5-6 >405 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.06	Vert(TL) -0.19 5-6 >354 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 16 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-11-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-3-8, 4=Mechanical
Max Horz 6=87(LC 16)
Max Uplift 6=-80(LC 16), 4=-122(LC 16)
Max Grav 6=345(LC 2), 4=337(LC 2)

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

TOP CHORD 1-6=-286/112
WEBS 2-5=-281/186

NOTES-

- 1) Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) 0-1-4 to 3-1-4, Interior(1) 3-1-4 to 5-11-0 zone; cantilever left and right exposed; end vertical 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
- 2) TCLL: ASCE 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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) 6 except (jt=lb) 4=122.



September 1, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Chesterfield, MO 63017

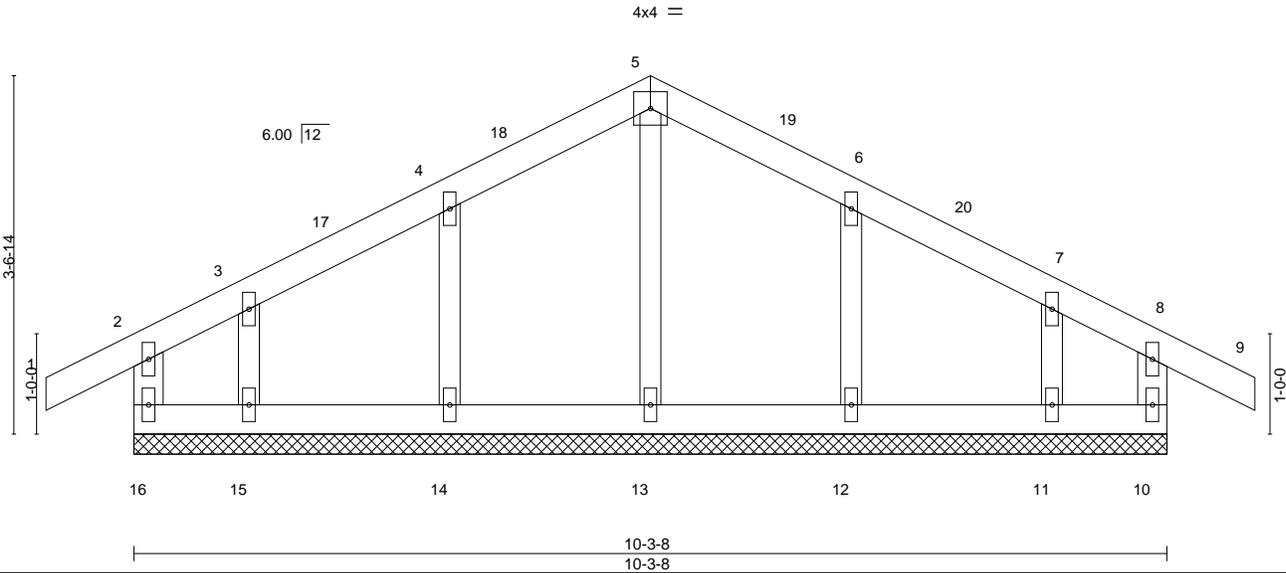
Job P200390	Truss G01	Truss Type Common Supported Gable	<div style="text-align: center; color: red; font-weight: bold;"> RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 12/09/2020 </div>	Ply 1	Roof 1	I42645833
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:08 2020 Page 1

ID:TaBrkdJGwHiTuvykGBpLdBz1ced-n?AeIHb2CxFc7?GY4neIrkUMYMJuC8zKfufJeyiHE9



Scale = 1:22.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.03	Vert(LL) -0.00 9 n/r 120		
TCDL 25.0	Lumber DOL 1.15	WB 0.06	Vert(TL) -0.01 9 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(TL) -0.00 10 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 36 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 10-3-8.
 (lb) - Max Horz 16=-90(LC 14)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 15, 11 except 14=267(LC 32), 12=267(LC 33)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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) -0-10-8 to 2-1-8, Exterior(2) 2-1-8 to 5-1-12, Corner(3) 5-1-12 to 8-1-12, Exterior(2) 8-1-12 to 11-2-0 zone; cantilever left and right exposed; end vertical 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
 - 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 7-10; Pr=25.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp C; Partially Exp.; 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 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.



September 1, 2020

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

Job P200390	Truss G02	Truss Type Common	Ply 1	Roof 8.330 s	142645834
Premier Building Supply (Springhill, KS),		Spring Hills, KS - 66083,	8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:09 2020 Page 1		
-0-10-8 0-10-8		5-1-12 5-1-12	12/09/2020		11-2-0 0-10-8

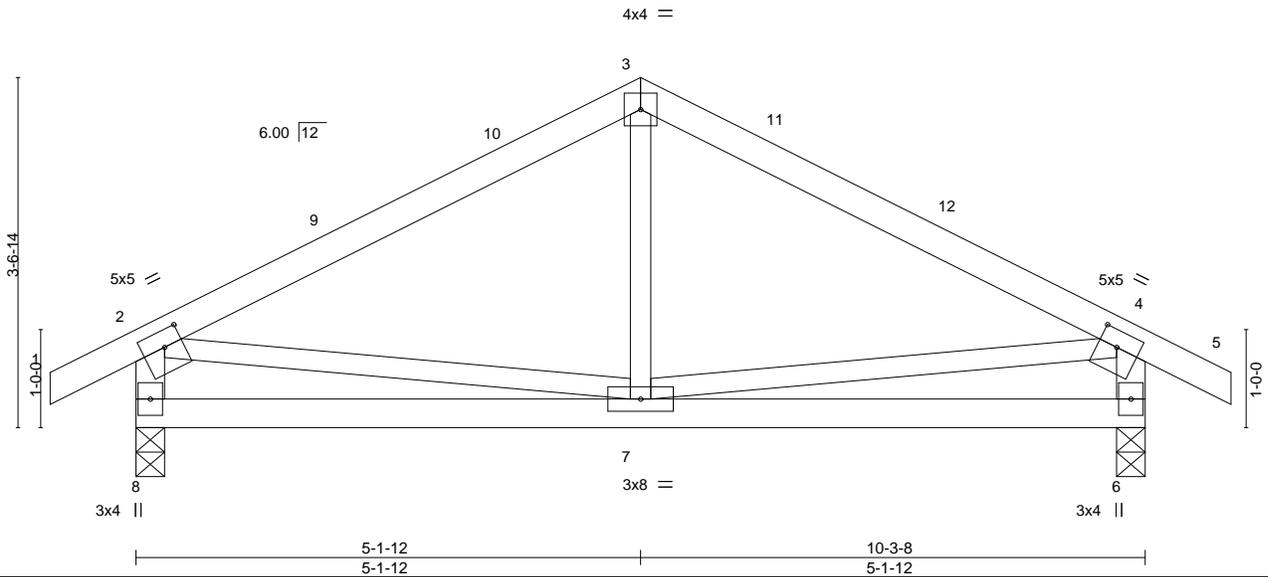


Plate Offsets (X,Y)-- [2:0-2-4,0-2-0], [4:0-2-4,0-2-0]	
LOADING (psf)	SPACING-
TCLL (roof) 25.0	2-0-0
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15
TCDL 25.0	Lumber DOL 1.15
BCLL 0.0 *	Rep Stress Incr YES
BCDL 10.0	Code IRC2012/TPI2007
CSI.	DEFL.
TC 0.40	in (loc) l/defl L/d
BC 0.20	Vert(LL) 0.03 7-8 >999 240
WB 0.10	Vert(TL) -0.04 6-7 >999 180
Matrix-S	Horz(TL) 0.01 6 n/a n/a
PLATES	GRIP
MT20	197/144
Weight: 39 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 2-8,4-6: 2x4 SPF No.2	

REACTIONS. (size) 8=0-3-8, 6=0-3-8
 Max Horz 8=-90(LC 14)
 Max Uplift 8=-217(LC 16), 6=-217(LC 16)
 Max Grav 8=702(LC 2), 6=702(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-670/446, 3-4=-670/447, 2-8=-655/387, 4-6=-655/387
 BOT CHORD 7-8=-202/280, 6-7=-166/263
 WEBS 2-7=-156/259, 4-7=-158/259

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-1-12, Exterior(2) 5-1-12 to 8-1-12, Interior(1) 8-1-12 to 11-2-0 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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 15.4 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 capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=217, 6=217.



September 1, 2020

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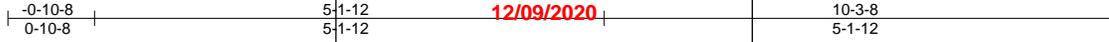
16023 Swingley Ridge Rd
 Chesterfield, MO 63017

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

Job P200390	Truss G03	Truss Type Common	Ply 1	Roof 142645835
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:10 2020 Page 1

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4x4 =

Scale = 1:23.2

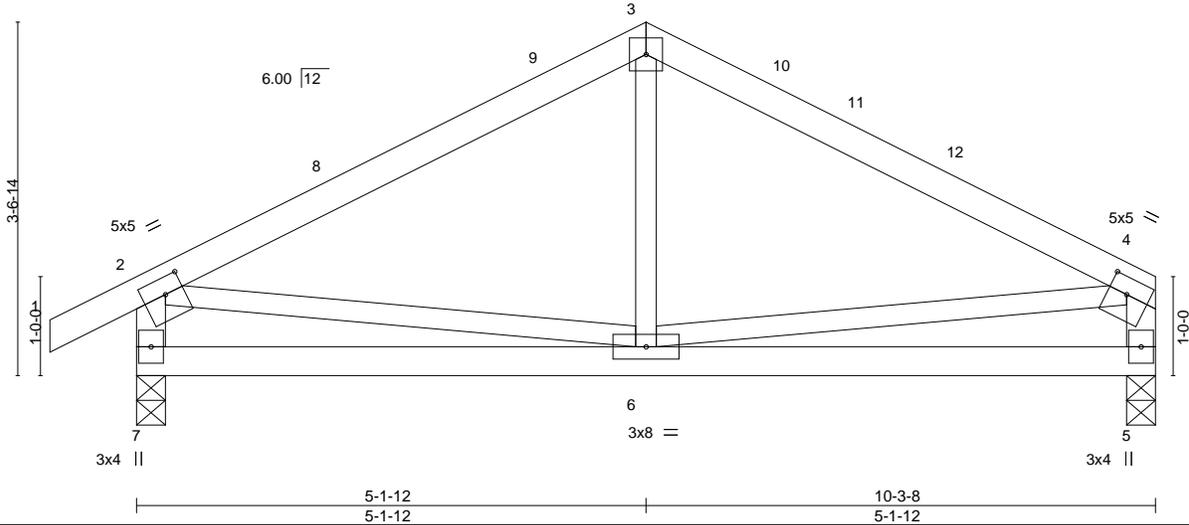


Plate Offsets (X,Y)-- [2:0-2-4,0-2-0], [4:0-2-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.46	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.20	Vert(LL) 0.03 6-7 >999 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.12	Vert(TL) -0.04 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 38 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x3 SPF No.2 *Except*
2-7,4-5: 2x4 SPF 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) 7=0-3-8, 5=0-3-8
Max Horz 7=89(LC 15)
Max Uplift 7=-218(LC 16), 5=-175(LC 16)
Max Grav 7=707(LC 2), 5=595(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-682/448, 3-4=-674/456, 2-7=-660/387, 4-5=-547/331
BOT CHORD 6-7=-226/269
WEBS 2-6=-161/278, 4-6=-190/300

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 5-1-12, Exterior(2) 5-1-12 to 8-1-12, Interior(1) 8-1-12 to 10-1-12 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; 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 15.4 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 capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=218, 5=175.



September 1, 2020

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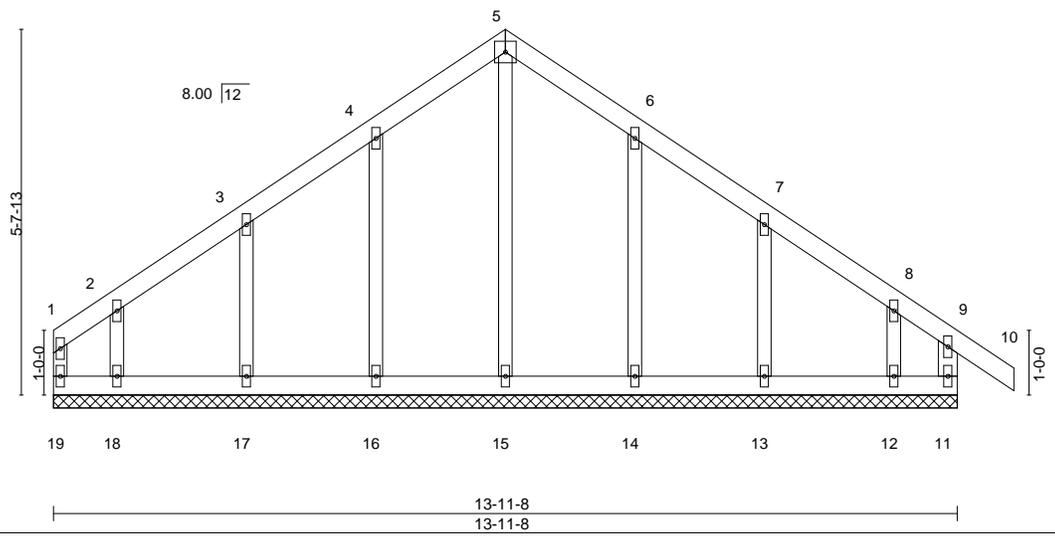
16023 Swingley Ridge Rd
Chesterfield, MO 63017

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
12/09/2020

Job P200390	Truss H01	Truss Type Common Supported Gable	Ply 1	Roof 1	I42645836
Premier Building Supply (Springhill, KS),		Spring Hills, KS - 66083,	8.330 s	Job Reference (optional)	
		6-11-12	13-11-8	ID:TaBrkdJGwHITuvyKGBpLdBz1ced-BasnlewVseA_T_7lvB?TN5t4mOd5YrP0diKvzyiHE6	
		6-11-12	6-11-12	14-10-0 0-10-8	

4x4 =

Scale = 1:35.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.10	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.05	Vert(LL) -0.00 10 n/r 120		
TCDL 25.0	Lumber DOL 1.15	WB 0.12	Vert(TL) -0.01 10 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(TL) 0.00 11 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 54 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 9-11: 2x4 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 13-11-8.
 (lb) - Max Horz 19=-152(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 11, 16, 17, 18, 14, 13, 12
 Max Grav All reactions 250 lb or less at joint(s) 19, 11, 15, 17, 18, 12 except 16=253(LC 24), 14=253(LC 25), 13=250(LC 2)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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) 0-1-4 to 2-11-12, Exterior(2) 2-11-12 to 6-11-12, Corner(3) 6-11-12 to 9-11-12, Exterior(2) 9-11-12 to 14-10-0 zone; cantilever left and right exposed; end vertical 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
 - 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 11, 16, 17, 18, 14, 13, 12.



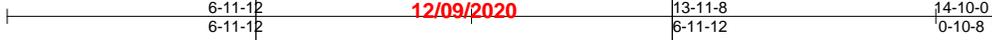
September 1, 2020

**RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI**

Job P200390	Truss H02	Truss Type Common	Ply 1	Roof 1	I42645837
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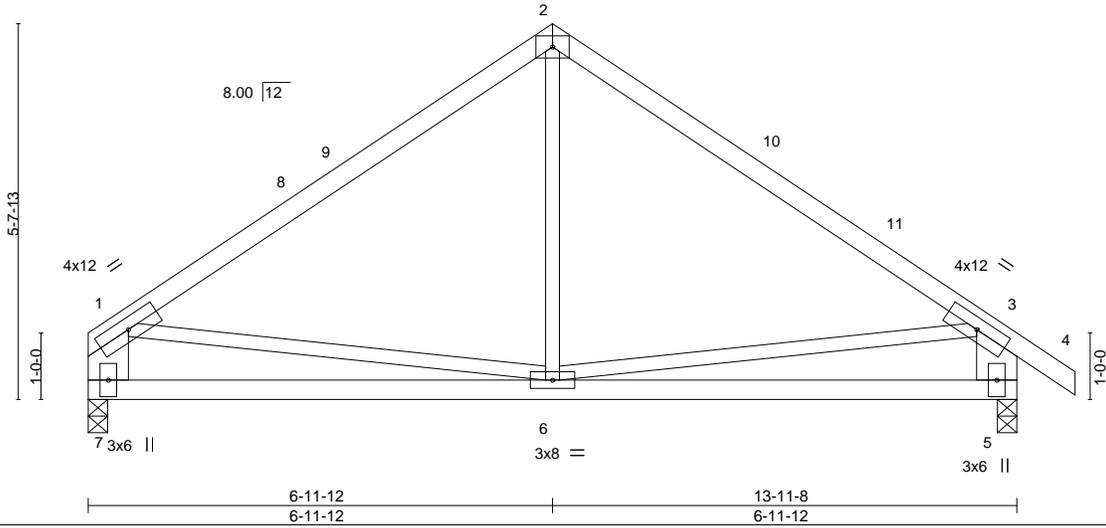
Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:12 2020 Page 1

ID:TaBrkdJGwHiTuvykgBpLdBz1ced-gnQ97eeYGAm1cdZJJci?aesWaf3qzQYFHSStSPyIH5



4x6 =

Scale = 1:34.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.89	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.36	Vert(LL) 0.08 5-6 >999 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.23	Vert(TL) -0.11 5-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.01 5 n/a n/a		
BCDL 10.0	Code IRC2012/TP12007			Weight: 55 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-7,3-5: 2x8 SPF No.2	

REACTIONS. (size) 7=0-3-8, 5=0-3-8
 Max Horz 7=-156(LC 12)
 Max Uplift 7=-234(LC 14), 5=-283(LC 14)
 Max Grav 7=796(LC 2), 5=924(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-852/482, 2-3=-867/484, 1-7=-737/364, 3-5=-865/422
 BOT CHORD 6-7=-211/402, 5-6=-260/512
 WEBS 2-6=-336/255, 1-6=-77/262

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) 0-3-10 to 3-3-10, Interior(1) 3-3-10 to 6-11-12, Exterior(2) 6-11-12 to 9-11-12, Interior(1) 9-11-12 to 14-10-0 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 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 capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=234, 5=283.

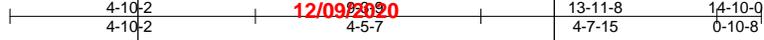


September 1, 2020

Job P200390	Truss K01	Truss Type GABLE	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645838
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:16 2020 Page 1

ID: TaBrkdJGwHITuykGBpLdBz1ced-YYfgz0h3JPGT5Et4YSnAAQpecnyamif8AvQ4bAyiHE1



4x4 =

Scale = 1:45.3

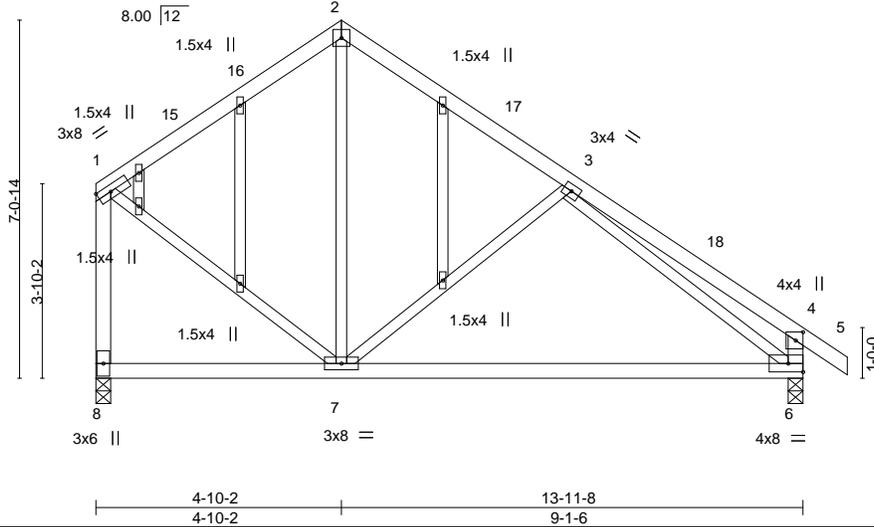


Plate Offsets (X,Y)-- [4:0-2-0,0-1-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.58	Vert(LL) 0.33 6-7 >498 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.47	Vert(TL) -0.41 6-7 >401 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.01 6 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 67 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x3 SPF No.2 *Except*
 1-8,4-6: 2x4 SPF No.2
 OTHERS 2x3 SPF 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 9-3-4 oc bracing.

REACTIONS. (size) 8=0-3-8, 6=0-3-8
 Max Horz 8=-239(LC 12)
 Max Uplift 8=-243(LC 14), 6=-278(LC 14)
 Max Grav 8=816(LC 2), 6=926(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-614/425, 2-3=-622/441, 3-4=-401/413, 1-8=-791/488, 4-6=-473/338
 BOT CHORD 6-7=-281/670
 WEBS 2-7=-340/203, 3-7=-374/178, 1-7=-352/481, 3-6=-569/46

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-10-2, Exterior(2) 4-10-2 to 7-10-2, Interior(1) 7-10-2 to 14-10-0 zone; cantilever left and right exposed; end vertical 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
 - 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (it=lb) 8=243, 6=278.



September 1, 2020

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

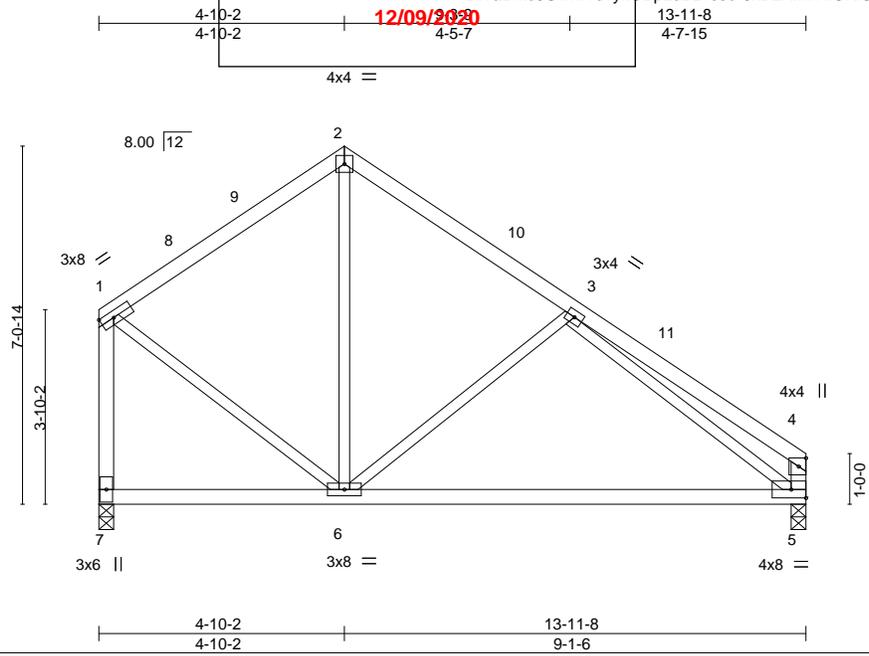
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 P200390	Truss K02	Truss Type Common	RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI	Ply 1	Roof 142645839
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:17 2020 Page 1
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Scale = 1:45.3

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.44	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.58	Vert(LL) 0.33 5-6 >498 240		
TCDL 25.0	Lumber DOL 1.15	WB 0.50	Vert(TL) -0.41 5-6 >401 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.01 5 n/a n/a		
BCDL 10.0	Code IRC2012/TPI2007			Weight: 59 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 8-7-7 oc bracing.
WEBS 2x3 SPF No.2 *Except* 1-7,4-5: 2x4 SPF No.2	

REACTIONS. (size) 7=0-3-8, 5=0-3-8
 Max Horz 7=-227(LC 12)
 Max Uplift 7=-243(LC 14), 5=-236(LC 14)
 Max Grav 7=820(LC 2), 5=820(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-617/427, 2-3=-627/445, 3-4=-371/384, 1-7=-795/488, 4-5=-341/265
 BOT CHORD 5-6=-331/684
 WEBS 2-6=-345/207, 3-6=-386/180, 1-6=-352/484, 3-5=-609/82

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; 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(2) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 4-10-2, Exterior(2) 4-10-2 to 7-10-2, Interior(1) 7-10-2 to 13-9-12 zone; cantilever left and right exposed; end vertical 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 7-10; Pr=25.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow: Lumber DOL=1.15 Plate DOL=1.15); Category II; Exp C; Partially Exp.; Ct=1.10
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=243, 5=236.

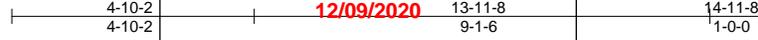


September 1, 2020

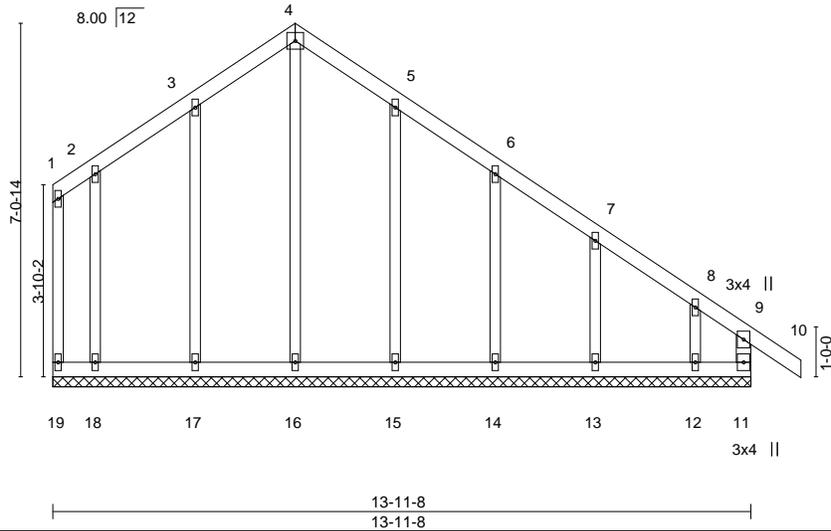
Job P200390	Truss K03	Truss Type Common Supported Gable	<p style="text-align: center;">RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI</p>	Ply 1	Roof 142645840
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Premier Building Supply (Springhill, KS), Spring Hills, KS - 66083, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Aug 31 16:09:18 2020 Page 1

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Scale = 1:45.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 25.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	197/144
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.13	Vert(LL) -0.00 10 n/r 120		
TCDL 25.0	Lumber DOL 1.15	WB 0.23	Vert(TL) -0.01 10 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-R	Horz(TL) 0.00 11 n/a n/a	Weight: 63 lb	FT = 20%
BCDL 10.0	Code IRC2012/TPI2007				

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
WEBS 2x3 SPF No.2 *Except* 9-11: 2x4 SPF No.2	
OTHERS 2x3 SPF No.2	

REACTIONS. All bearings 13-11-8.
 (lb) - Max Horz 19=-240(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 11, 17, 18, 15, 14, 13 except 12=-164(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 19, 16, 18, 14, 12 except 11=364(LC 24), 17=264(LC 28), 15=257(LC 25), 13=255(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 8-9=-254/221, 9-11=-290/76

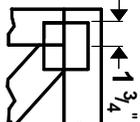
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=120mph (3-second gust) V(IRC2012)=95mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp C; Enclosed; MWFRS (directional) and C-C Corner(3) 0-1-4 to 2-10-2, Exterior(2) 2-10-2 to 4-10-2, Corner(3) 4-10-2 to 7-10-2, Exterior(2) 7-10-2 to 14-11-8 zone; cantilever left and right exposed; end vertical 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
 - 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 7-10; Pr=25.0 psf (roof live load); Lumber DOL=1.15 Plate DOL=1.15; Pg=20.0 psf (ground snow); Pf=15.4 psf (flat roof snow); Lumber DOL=1.15 Plate DOL=1.15; Category II; Exp C; Partially Exp.; Ct=1.10
 - This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are 1.5x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 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" tall by 2'-0" wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 11, 17, 18, 15, 14, 13 except (jt=lb) 12=164.



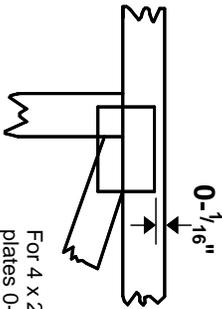
September 1, 2020

Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



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

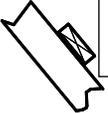
Plate location details available in **MITek 20/20 software** or upon request.

PLATE SIZE



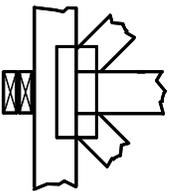
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



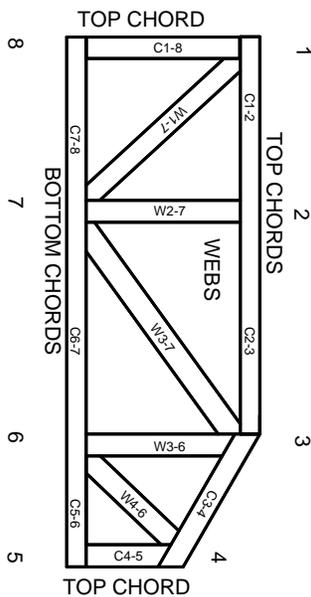
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.



MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020