



06/04/2021

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

Re: 2715435
C&H/TWIN HONEYDEW OSAGE#25/MO

The truss drawing(s) referenced below have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource (Valley Center).

Pages or sheets covered by this seal: I46282702 thru I46282724

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

Missouri COA: Engineering 001193



Scott Sevier

May 26, 2021

Sevier, Scott, Engineer

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job	Truss	Truss Type	Qty	Ply	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW
2715435	A1	GABLE	2	1	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)

RELEASE FOR CONSTRUCTION
NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/04/2021

0-10-8	6-8-6	13-1-15	19-7-8	24-7-2	28-4-8	34-10-1	41-3-10	48-0-0	49-10-8
0-10-8	6-8-6	6-5-9	6-5-9	4-11-10	3-9-6	6-5-9	6-5-9	6-8-6	0-10-8

Scale = 1:83.2

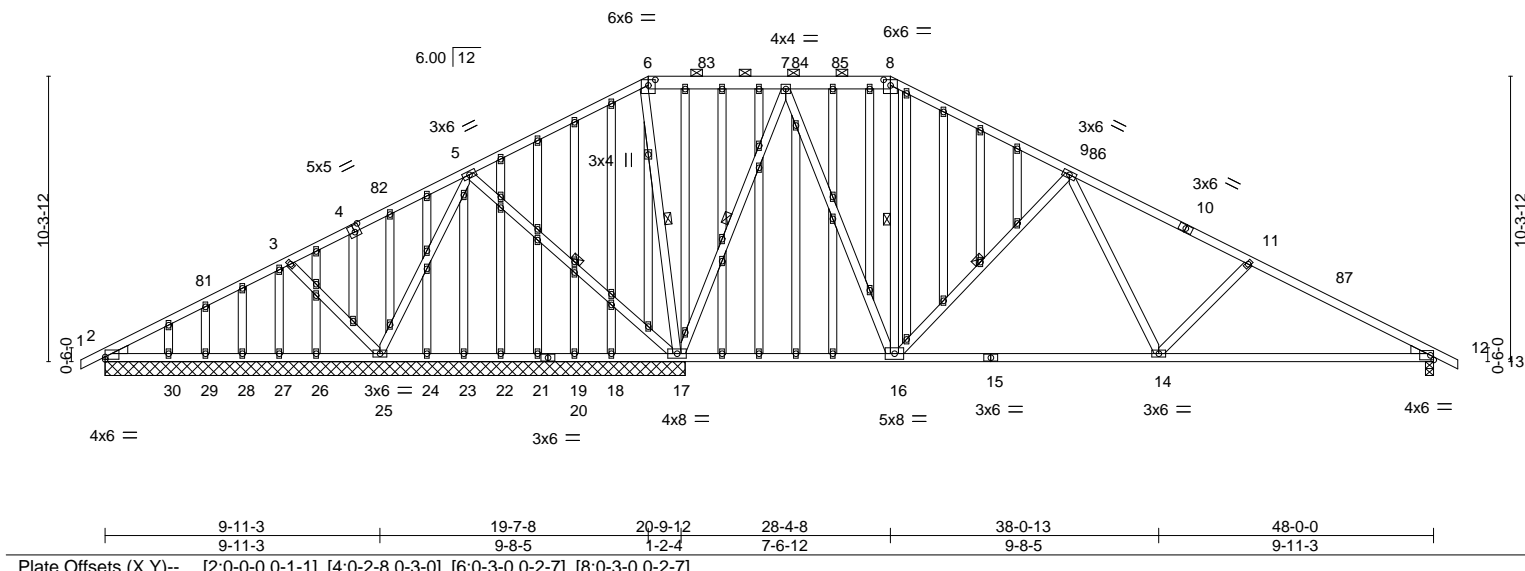


Plate Offsets (X, Y)--	[2:0-0-0,0-1-1], [4:0-2-8,0-3-0], [6:0-3-0,0-2-7], [8:0-3-0,0-2-7]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.16	14-80	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.76	Vert(CT)	-0.35	14-80	>940	180		
BCLL 0.0	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.02	12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS							
									Weight: 389 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 6-8: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (6-0-0 max.): 6-8.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 5-17, 17-17, 8-16, 9-16, 6-17
OTHERS 2x4 SPF No.2	
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. All bearings 20-11-8 except (jt=length) 12=0-3-8.
 (lb) - Max Horz 2=180(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 29, 30 except 25=262(LC 12),
 17=401(LC 13), 12=238(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 19, 21, 22, 23, 24, 26, 27, 28,
 29, 30, 2 except 2=292(LC 25), 25=534(LC 25), 17=2456(LC 1), 12=1053(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-278/113, 3-5=-35/338, 5-6=-0/761, 6-7=0/673, 7-8=-254/244, 8-9=-387/221,
 9-11=-1281/353, 11-12=-1611/388
 BOT CHORD 24-25=-320/246, 23-24=-320/246, 22-23=-320/246, 21-22=-320/246, 19-21=-320/246,
 18-19=-320/246, 17-18=-320/246, 16-17=-168/256, 14-16=-41/805, 12-14=-248/1360
 WEBS 3-25=-435/243, 5-25=-197/367, 5-17=-490/190, 7-17=-1396/311, 7-16=-231/1078,
 9-16=-816/313, 9-14=-100/581, 11-14=-441/237, 6-17=-707/149

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 19-7-8, Exterior(2R) 19-7-8 to 26-4-15, Interior(1) 26-4-15 to 28-4-8, Exterior(2R) 28-4-8 to 35-1-15, Interior(1) 35-1-15 to 48-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x4 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 1-4-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 29, 30, 2 except (jt=lb) 25=262, 17=401, 12=238.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Continued on page 2

<p>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</p>	 16023 Swingley Ridge Rd Chesterfield, MO 63017
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Job	Truss	Truss Type	Qty	Ply	C&H/TWIN HONEYDEW OSAGE#25/MO
2715435	A1	GABLE	2	1	4628292

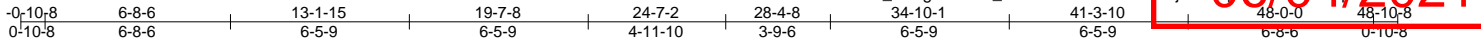
RELEASE FOR CONSTRUCTION
NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/04/2021

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:17 2021 Page 2
 ID:74OHO3VtiArV_eCbgR2h1zD_zO-pFNNLyd6GIR50sv?X2dqfkg7kRj344SpZzCze

- NOTES-**
- 10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Job 2715435	Truss A2	Truss Type Piggyback Base	Qty 8	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MO NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:18 2021 Page 1
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Scale = 1:83.2

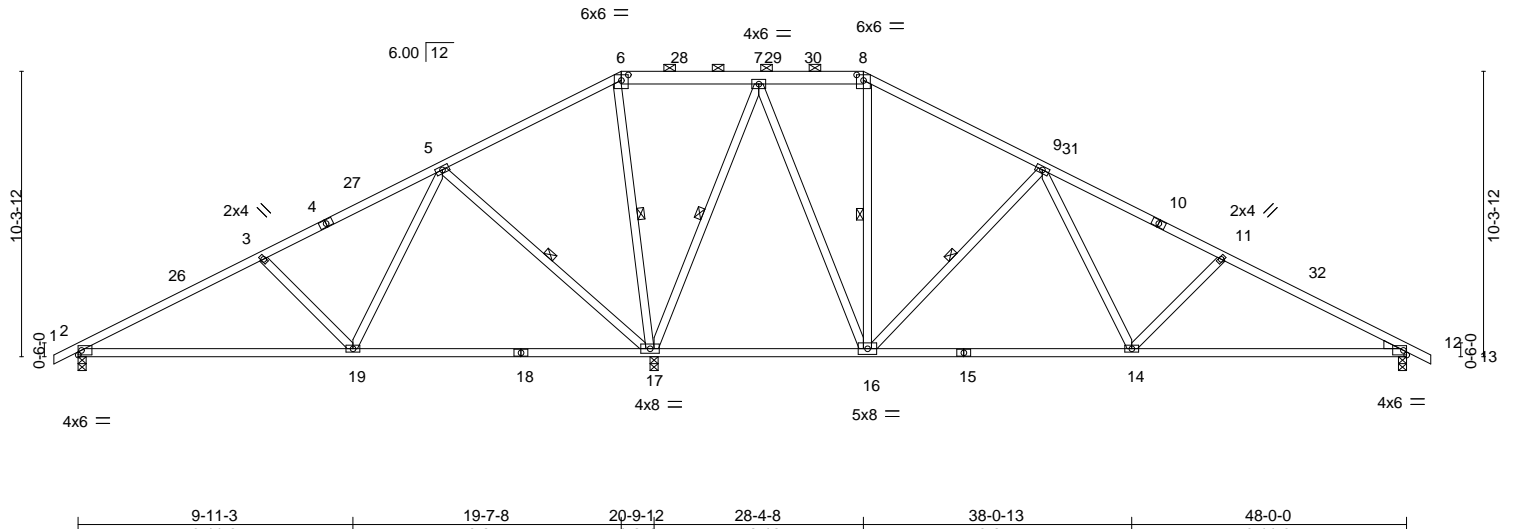


Plate Offsets (X,Y)--	[6:0-3-0,0-2-7], [8:0-3-0,0-2-7]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15		TC 0.50	Vert(LL) -0.15	17-19	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL 1.15		BC 0.41	Vert(CT) -0.30	17-19	>839	180		
BCLL 0.0	Rep Stress Incr YES		WB 0.73	Horz(CT) 0.02	12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 235 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2 *Except*
 6-8: 2x6 SPF No.2
 BOT CHORD 2x4 SP 2400F 2.0E
 WEBS 2x4 SPF No.2
 WEDGE
 Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (6-0-0 max.): 6-8.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 5-17, 7-17, 8-16, 9-16, 6-17

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 12=0-3-8
 Max Horz 2=180(LC 12)
 Max Uplift 2=-143(LC 12), 17=-427(LC 12), 12=-243(LC 13)
 Max Grav 2=724(LC 25), 17=2817(LC 1), 12=1081(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-919/184, 3-5=-586/148, 5-6=-47/856, 6-7=0/762, 7-8=-307/253, 8-9=-447/232,
 9-11=-1342/363, 11-12=-1670/397
 BOT CHORD 2-19=-247/745, 17-19=-242/281, 14-16=-51/859, 12-14=-256/1411
 WEBS 3-19=-460/243, 5-19=-99/625, 5-17=-860/319, 7-17=-1404/312, 7-16=-232/1104,
 8-16=-267/61, 9-16=-820/311, 9-14=-98/586, 11-14=-440/236, 6-17=-753/184

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 19-7-8, Exterior(2R) 19-7-8 to 26-4-15, Interior(1) 26-4-15 to 28-4-8, Exterior(2R) 28-4-8 to 35-1-15, Interior(1) 35-1-15 to 48-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are 3x6 MT20 unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=143, 17=427, 12=243.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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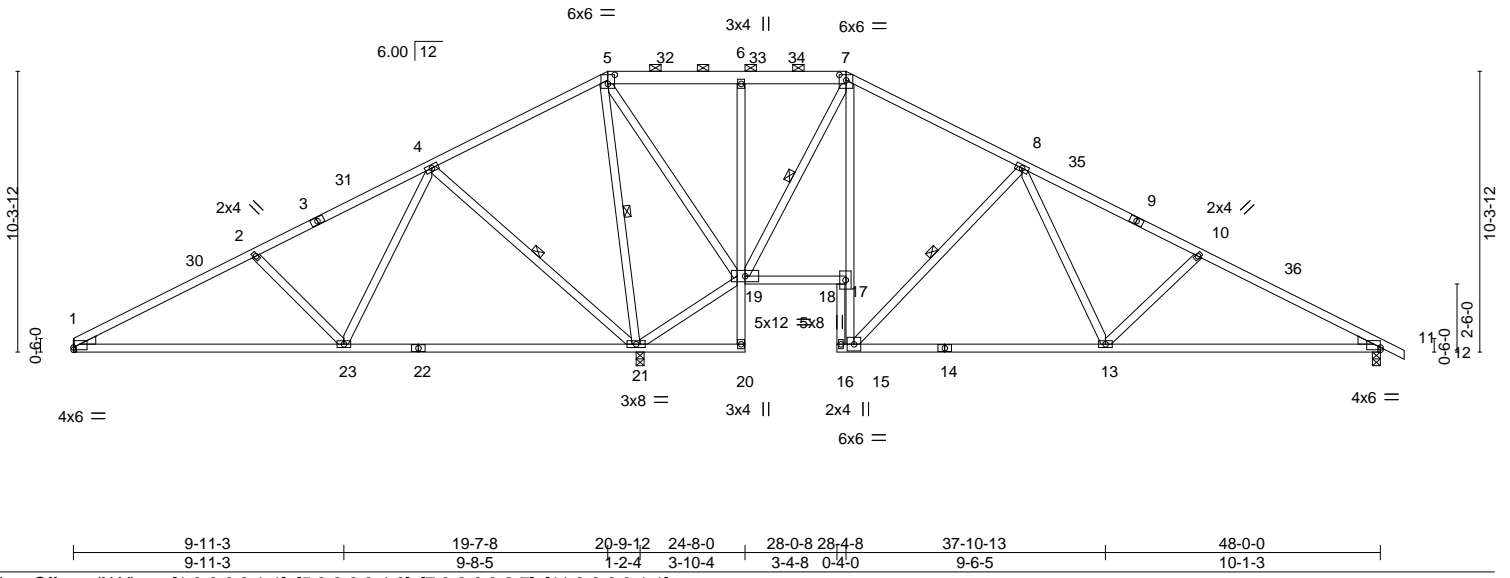
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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</p>	 16023 Swingley Ridge Rd Chesterfield, MO 63017
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Job 2715435	Truss A3	Truss Type Piggyback Base	Qty 2	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW 46382794 DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc. Tue May 27 11:31:20 2021 Page 1
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 6-8-6 13-1-15 19-7-8 24-8-0 28-0-8 28-4-8 34-10-1 41-3-10 48-0-0 48-10-8
 6-8-6 6-5-9 6-5-9 5-0-8 3-4-8 0-4-0 6-5-9 6-5-9 6-8-6 0-10-8

06/04/2021

Scale = 1:84.6



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.18 13-29 >999 240		
BCLL 0.0	Lumber DOL 1.15	WB 0.73	Vert(CT) -0.38 13-29 >873 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.07 11 n/a n/a		
	Code IRC2018/TPI2014			Weight: 236 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2 *Except* 5-7: 2x6 SPF No.2	TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (10-0-0 max.): 5-7.
BOT CHORD 2x4 SPF No.2 *Except* 20-22: 2x4 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SPF No.2	WEBS 1 Row at midpt 4-21, 7-19, 5-21, 8-15
WEDGE Left: 2x4 SP No.3, Right: 2x4 SP No.3	

REACTIONS. (size) 1=Mechanical, 21=0-3-8, 11=0-3-8
 Max Horz 1=-187(LC 13)
 Max Uplift 1=-224(LC 12), 21=-249(LC 12), 11=-320(LC 13)
 Max Grav 1=642(LC 25), 21=2997(LC 1), 11=935(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-863/421, 2-4=-546/530, 4-5=0/1078, 5-6=0/610, 6-7=0/609, 7-8=-180/402,
 8-10=-1017/522, 10-11=-1360/562
 BOT CHORD 1-23=-440/717, 21-23=-618/127, 6-19=-299/141, 13-15=-200/576, 11-13=-402/1139
 WEBS 2-23=-477/238, 4-23=-95/634, 4-21=-862/317, 19-21=-1231/194, 7-19=-1248/164,
 15-17=-61/1088, 7-17=-160/743, 5-21=-1564/144, 5-19=-130/876, 8-15=-827/306,
 8-13=-87/588, 10-13=-454/234, 16-18=-538/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 19-7-8, Exterior(2R) 19-7-8 to 26-4-15, Interior(1) 26-4-15 to 28-4-8, Exterior(2R) 28-4-8 to 35-1-15, Interior(1) 35-1-15 to 48-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - All plates are 3x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 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) 1=224, 21=249, 11=320.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 26, 2021

Job 2715435	Truss A4	Truss Type Piggyback Base	Qty 10	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW 46282795 DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:21 2021 Page 3
 ID:74OHO3VtiArV_eCbgR2h1zD_zO-i0cuBKgF9VosZ/Kd8rc_vgWsl_NsVsi2fy4zCz_a
 6-8-6 13-1-15 19-7-8 24-0-0 28-4-8 34-10-1 41-3-10 48-0-0 48-10-8
 6-8-6 6-5-9 6-5-9 4-4-8 4-4-8 6-5-9 6-5-9 6-8-6 0-10-8

Scale = 1:82.7

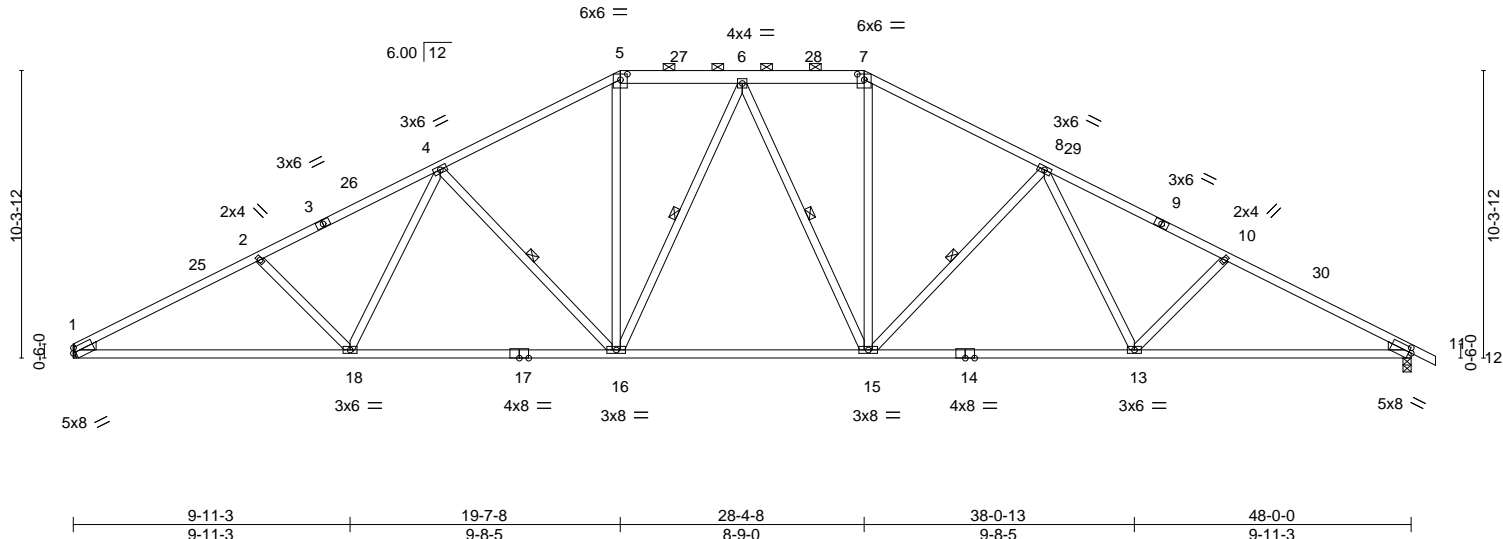


Plate Offsets (X, Y)-- [1:Edge,0-2-2], [5:0-3-0,0-2-7], [7:0-3-0,0-2-7], [11:0-1-1,0-2-2]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.75	Vert(LL)	-0.32	13-15	>999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.82	Vert(CT)	-0.66	13-15	>876		
BCLL 0.0	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.23	11	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS						
								Weight: 217 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2 *Except*
 5-7: 2x6 SPF No.2
 BOT CHORD 2x4 SPF 1650F 1.5E
 WEBS 2x4 SPF No.2
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except
 2-0-0 oc purlins (4-6-9 max.): 5-7.
 BOT CHORD Rigid ceiling directly applied.
 WEBS 1 Row at midpt 4-16, 6-16, 6-15, 8-15

REACTIONS. (size) 1=Mechanical, 11=0-3-8
 Max Horz 1=-187(LC 17)
 Max Uplift 1=-366(LC 12), 11=-386(LC 13)
 Max Grav 1=2159(LC 1), 11=2222(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4082/702, 2-4=-3772/669, 4-5=-2954/604, 5-6=-2534/581, 6-7=-2533/583,
 7-8=-2954/606, 8-10=-3767/668, 10-11=-4076/700
 BOT CHORD 1-18=-706/3549, 16-18=-509/3074, 15-16=-265/2602, 13-15=-394/3072, 11-13=-524/3543
 WEBS 2-18=-389/229, 4-18=-91/516, 4-16=-782/308, 5-16=-142/911, 6-16=-416/162,
 6-15=-417/162, 7-15=-142/911, 8-15=-780/308, 8-13=-89/515, 10-13=-385/228

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 19-7-8, Exterior(2R) 19-7-8 to 26-4-15, Interior(1) 26-4-15 to 28-4-8, Exterior(2R) 28-4-8 to 35-1-15, Interior(1) 35-1-15 to 48-10-8 zone; cantilever left and right exposed; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) 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) 1=366, 11=386.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
 - 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 26, 2021

Job 2715435	Truss A5	Truss Type GABLE	Qty 2	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc. Tue May 25 11:34:24 2021 Page 1
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 19-7-8 8-9-0 19-7-8 0-10-8

Scale = 1:84.0

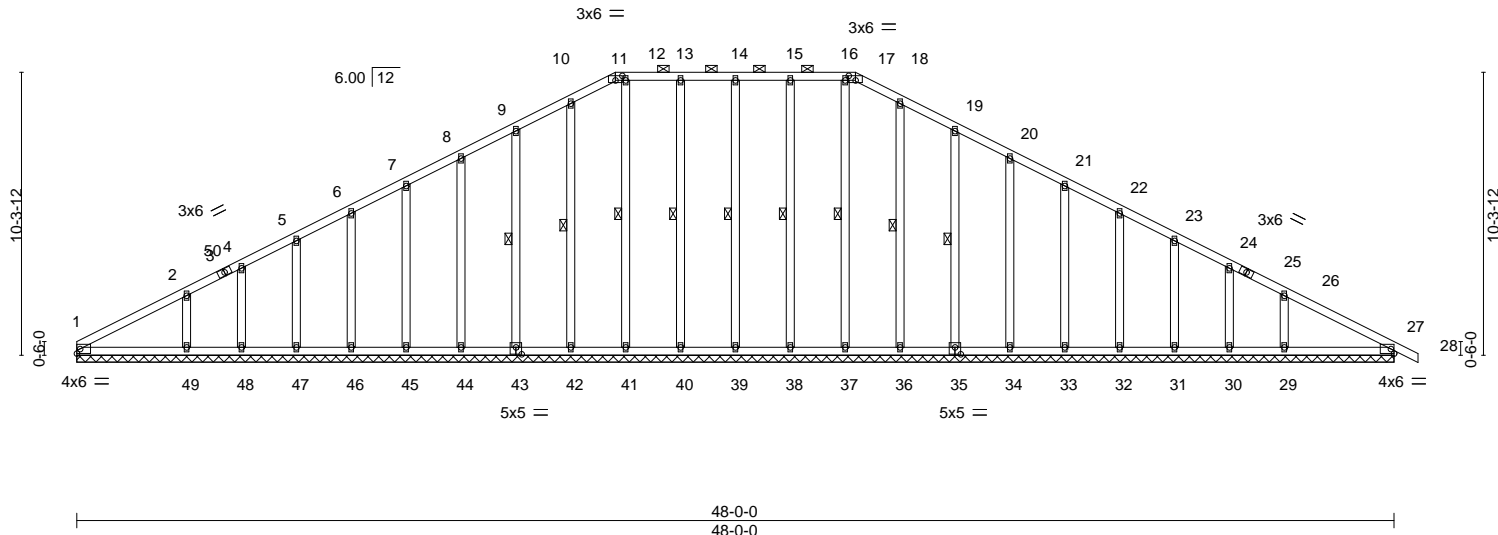


Plate Offsets (X,Y)-- [11:0-3-0,0-2-0], [17:0-3-0,0-2-0], [35:0-2-8,0-3-0], [43:0-2-8,0-3-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	0.01	28	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	0.01	28	n/r		
BCLL 0.0	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	27	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 271 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 2-0-0 oc purlins (6-0-0 max.): 11-17.
BOT CHORD 2x4 SPF No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SPF No.2	WEBS 1 Row at midpt 14-39, 13-40, 12-41, 10-42, 9-43, 15-38, 16-37, 18-36, 19-35

REACTIONS. All bearings 48-0-0.
 (lb) - Max Horz 1=-185(LC 17)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 39, 40, 42, 43, 44, 45, 46, 47, 48, 38, 36, 35, 34, 33, 32, 31, 30 except 49=-138(LC 12), 29=-129(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 38, 37, 36, 35, 34, 33, 32, 31, 30, 27 except 49=368(LC 25), 29=353(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 9-10=-106/295, 10-11=-119/331, 11-12=-110/317, 12-13=-110/317, 13-14=-110/317, 14-15=-110/317, 15-16=-110/317, 16-17=-110/317, 17-18=-119/331, 18-19=-106/295
 WEBS 2-49=-273/269, 26-29=-259/236

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) 0-0-0 to 4-9-10, Exterior(2N) 4-9-10 to 19-7-8, Corner(3R) 19-7-8 to 24-5-2, Exterior(2N) 24-5-2 to 28-4-8, Corner(3R) 28-4-8 to 33-2-2, Exterior(2N) 33-2-2 to 48-10-8 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 39, 40, 42, 43, 44, 45, 46, 47, 48, 38, 36, 35, 34, 33, 32, 31, 30 except (jt=lb) 49=138, 29=129.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



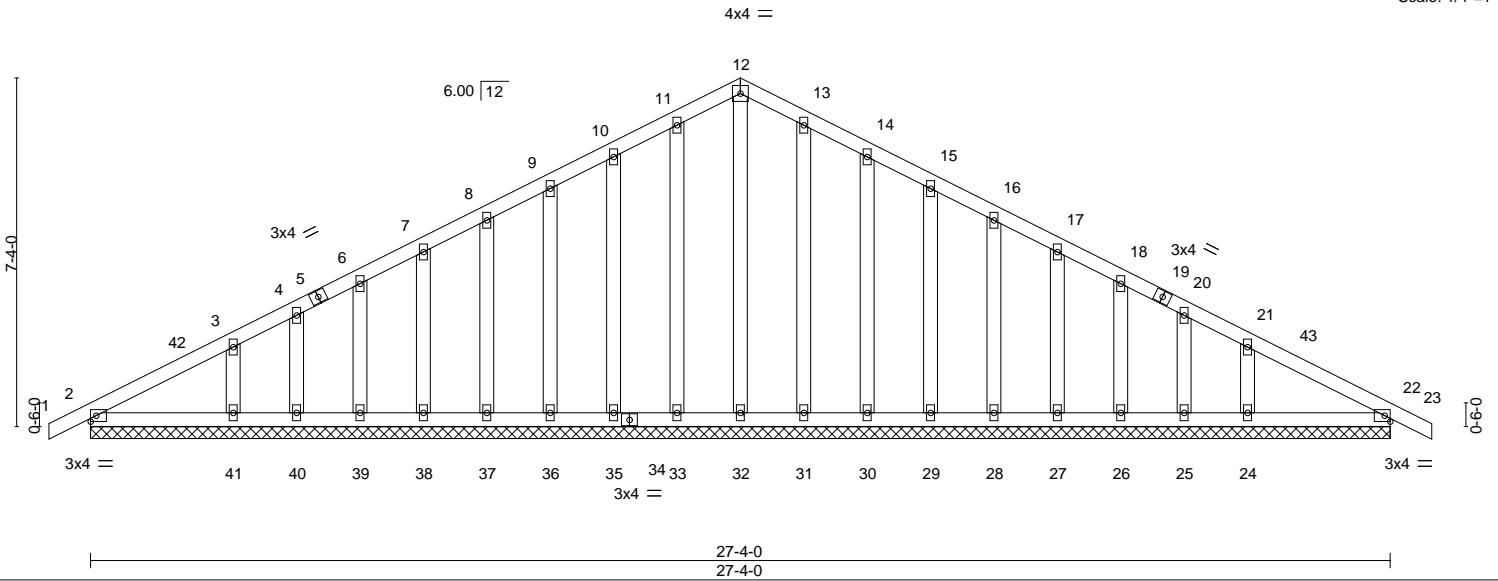
May 26, 2021

Job 2715435	Truss B1	Truss Type Common Supported Gable	Qty 2	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:26 2021 Page 1
 ID:740HO3VtliArV_eCbgR2h1zD_zO-2_QnE1kO_1Q9gG CbxOBpfxXhFuzyc4jDeZczV 16282797
 0-10-8 13-8-0 27-4-0 28-2-8 0-10-8
 0-10-8 13-8-0 13-8-0 0-10-8

05/04/2021

Scale: 1/4"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.09	Vert(LL)	0.00	23	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	23	n/r		
BCLL 0.0	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	22	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 145 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x4 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. All bearings 27-4-0.
 (lb) - Max Horz 2=128(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 35, 36, 37, 38, 39, 40, 41, 31, 30, 29, 28, 27, 26, 25, 24, 22
 Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 35, 36, 37, 38, 39, 40, 31, 30, 29, 28, 27, 26, 25, 22 except 41=256(LC 25), 24=256(LC 26)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 13-8-0, Corner(3R) 13-8-0 to 16-8-0, Exterior(2N) 16-8-0 to 28-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 1-4-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 33, 35, 36, 37, 38, 39, 40, 41, 31, 30, 29, 28, 27, 26, 25, 24, 22.
 - 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

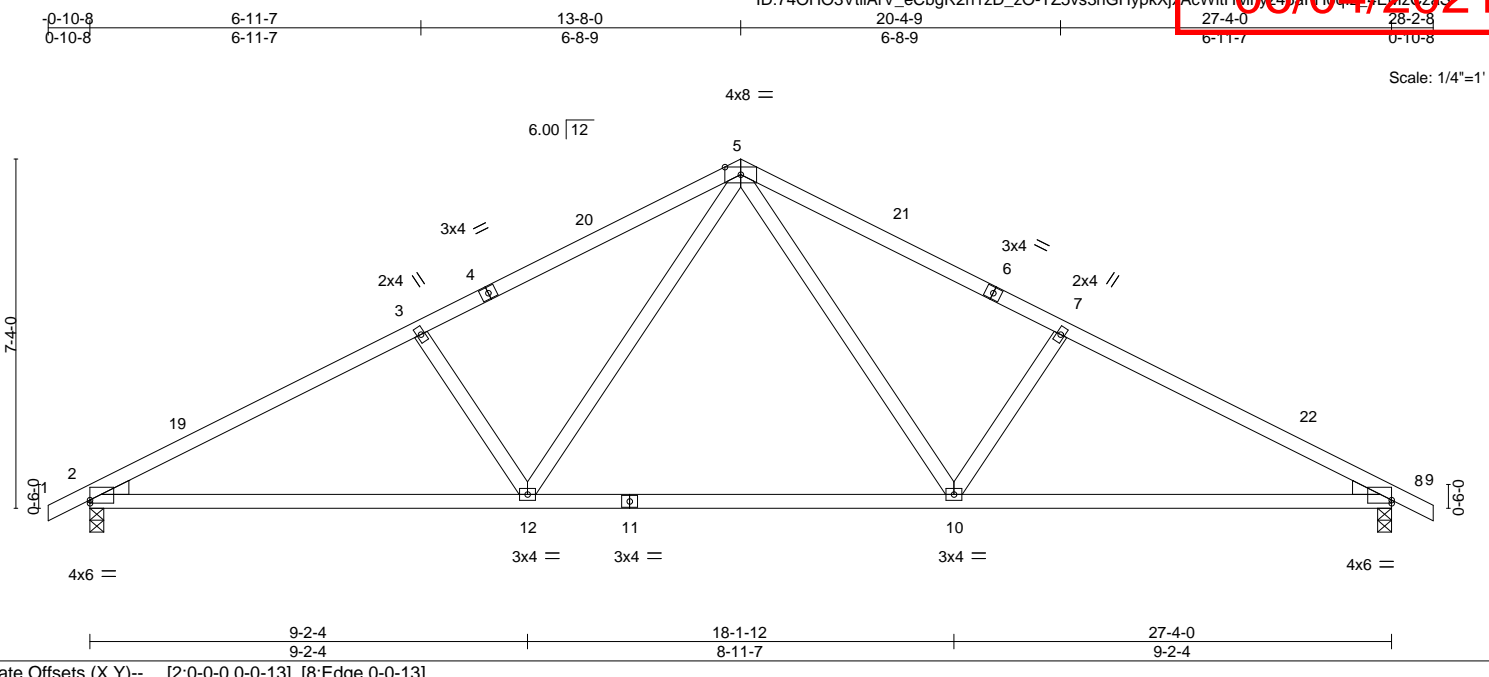


May 26, 2021

Job 2715435	Truss B2	Truss Type Common	Qty 4	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW 16282798 DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:29 2021 Page 1
 ID:74OHO3VtliArV_eCbgr2h1zD_zO-TZ5vs3nGHypkXj;AcWlTHMj245AFH0444EMZCZ3S
 0-10-8 6-11-7 13-8-0 20-4-9 27-4-0 28-2-8
 0-10-8 6-11-7 6-8-9 6-8-9 6-11-7 0-10-8

05/04/2021



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.48	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.69	Vert(LL) -0.13 10-18 >999 240		
BCLL 0.0	Lumber DOL 1.15	WB 0.21	Vert(CT) -0.28 10-18 >999 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.06 8 n/a n/a		
	Code IRC2018/TPI2014			Weight: 98 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=128(LC 13)
 Max Uplift 2=223(LC 12), 8=223(LC 13)
 Max Grav 2=1291(LC 1), 8=1291(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2116/385, 3-5=-1862/401, 5-7=-1862/401, 7-8=-2116/385
 BOT CHORD 2-12=-345/1805, 10-12=-114/1209, 8-10=-254/1805
 WEBS 5-10=-171/688, 7-10=-468/258, 5-12=-171/688, 3-12=-468/257

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-8-0, Exterior(2R) 13-8-0 to 16-8-0, Interior(1) 16-8-0 to 28-2-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=223, 8=223.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

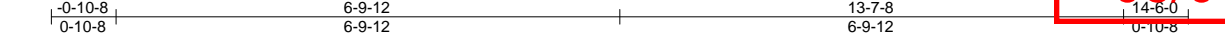


May 26, 2021

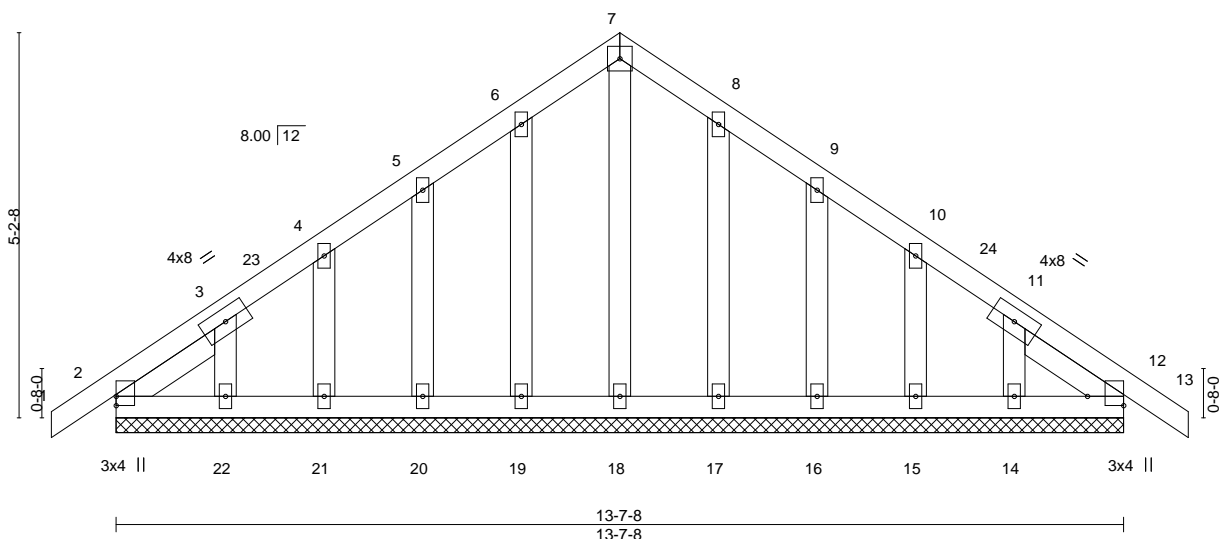
Job 2715435	Truss C1	Truss Type Common Supported Gable	Qty 1	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc Tue May 26 11:31:30 2021 Page 1
 ID:74OHO3VtliArV_eCbgR2h1zD_zO-xlfH3Pnv2Gxb9tWMAEG6alMUGInZLscjenzCzR

06/04/2021



4x4 = Scale = 1:31.2



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.05	Vert(LL) -0.00 12 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) -0.00 13 n/r 120		
BCLL 0.0	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 12 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 68 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 OTHERS 2x4 SPF No.2
 SLIDER Left 2x4 SPF No.2 -t 1-7-6, Right 2x4 SPF No.2 -t 1-7-6

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

REACTIONS. All bearings 13-7-8.
 (lb) - Max Horz 2=-134(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14
 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 18, 19, 20, 21, 22, 17, 16, 15, 14

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 6-9-12, Corner(3R) 6-9-12 to 9-9-12, Exterior(2N) 9-9-12 to 14-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 1-4-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12, 19, 20, 21, 22, 17, 16, 15, 14.
 - 9) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 12.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 26, 2021

Job	Truss	Truss Type	Qty	Ply	C&H/TWIN HONEYDEW OS	AGE#25/M	NOTED FOR PLAN REVIEW
2715435	C2	Monopitch Structural Gable	1	1		146282740	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)		

RELEASE FOR CONSTRUCTION

06/04/2021

8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:31 2021 Page 1
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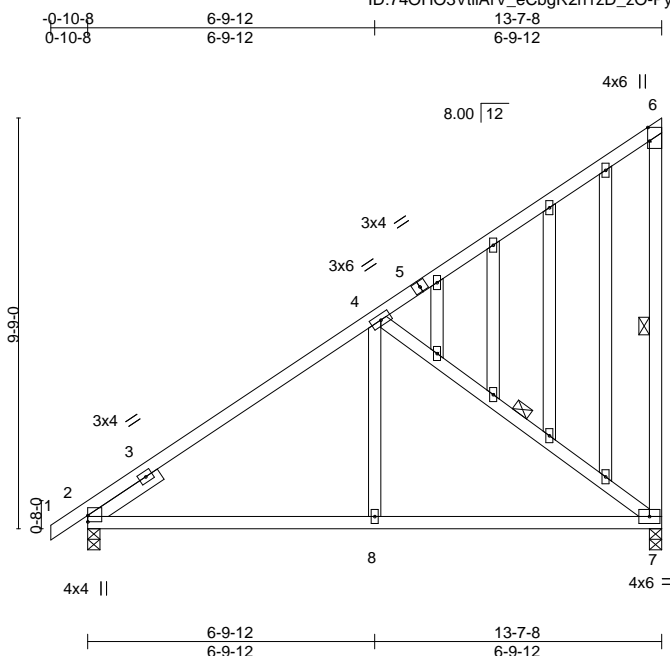


Plate Offsets (X,Y)--	[6:0-3-14,Edge]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 25.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	-0.06	7-8	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.11	7-8	>999
BCLL 0.0	Rep Stress Incr	YES	WB 0.20	Horz(CT)	0.01	2	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-AS				
							PLATES
							MT20
							GRIP
							197/144
							Weight: 84 lb
							FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SPF No.2	TOP CHORD	Structural wood sheathing directly applied, excepting end verticals.
BOT CHORD	2x4 SPF No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SPF No.2	WEBS	1 Row at midpt 6-7, 4-7
OTHERS	2x4 SPF No.2		
SLIDER	Left 2x4 SPF No.2 -t 2-0-0		

REACTIONS. (size) 2=0-3-8, 7=0-3-8
 Max Horz 2=378(LC 11)
 Max Uplift 2=-91(LC 12), 7=-204(LC 12)
 Max Grav 2=670(LC 1), 7=654(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-527/168, 4-6=-263/198
 BOT CHORD 2-8=-328/564, 7-8=-328/564
 WEBS 4-8=0/302, 4-7=-642/281

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 13-5-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=204.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

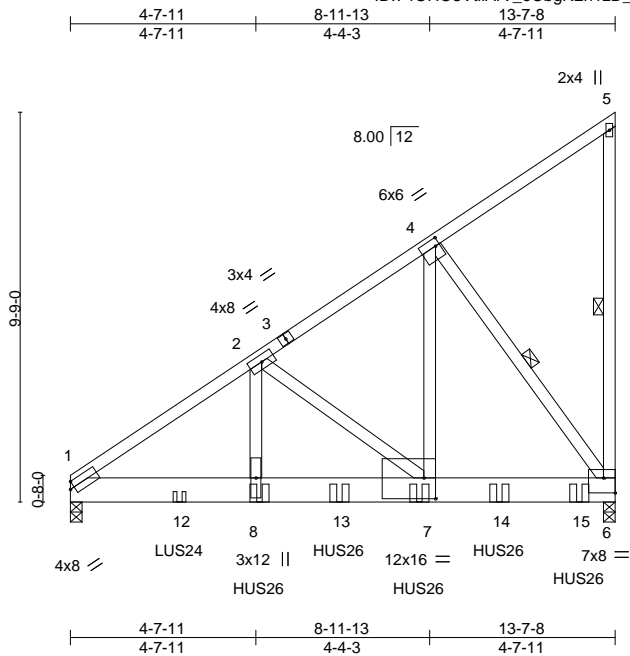


May 26, 2021

Job 2715435	Truss C3	Truss Type MONOPITCH GIRDER	Qty 2	Ply 2	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW 46282741 DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc. Tue May 25 11:31:32 2021 Page 1
 ID:74OHO3VtIiArV_eCbgr2h1zD_zO-t8n2U5p9atBIOsglHflav?P=61D5STZ-wckkzCzP

06/04/2021



Scale = 1:57.6

Plate Offsets (X, Y)-- [4:0-1-4,0-2-4], [6:Edge,0-4-8], [7:0-3-8,0-6-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.37	Vert(LL)	-0.08	7-8	>999	240	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.13	7-8	>999	180		
BCLL 0.0	Rep Stress Incr	NO	WB 0.91	Horz(CT)	0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-MS							
									Weight: 189 lb	FT = 20%

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

REACTIONS. (size) 1=0-3-8, 6=0-3-8
 Max Horz 1=363(LC 7)
 Max Uplift 1=-1058(LC 8), 6=-1470(LC 8)
 Max Grav 1=5531(LC 1), 6=7712(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-7526/1366, 2-4=-4628/826
 BOT CHORD 1-8=-1242/6182, 7-8=-1242/6182, 6-7=-752/3807
 WEBS 2-8=-618/3131, 2-7=-2975/708, 4-7=-1355/7388, 4-6=-6451/1304

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-7-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1058, 6=1470.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Use Simpson Strong-Tie LUS24 (4-10d Girder, 2-10d Truss, Single Ply Girder) or equivalent at 2-8-12 from the left end to connect truss(es) to front face of bottom chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
 - Use Simpson Strong-Tie HUS26 (14-16d Girder, 6-16d Truss) or equivalent spaced at 2-0-0 oc max. starting at 4-8-12 from the left end to 12-8-12 to connect truss(es) to front face of bottom chord.
 - Fill all nail holes where hanger is in contact with lumber.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 707 lb down and 160 lb up at 0-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



May 26, 2021

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>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</p>	<p>16023 Swingley Ridge Rd Chesterfield, MO 63017</p>
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Job 2715435	Truss C3	Truss Type MONOPITCH GIRDER	Qty 2	Ply 2	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:32 2021 Page 2
ID:740HO3VtliArV_eCbgR2h1zD_zO-t8n2U5p9atBIO8glHflav?P=61D5STZ-wCkrlzCzF

06/04/2021

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
- Uniform Loads (plf)
 - Vert: 1-5=-70, 6-9=-20
- Concentrated Loads (lb)
 - Vert: 8=-2139(F) 7=-2139(F) 11=-707 12=-622(F) 13=-2139(F) 14=-2139(F) 15=-2142(F)

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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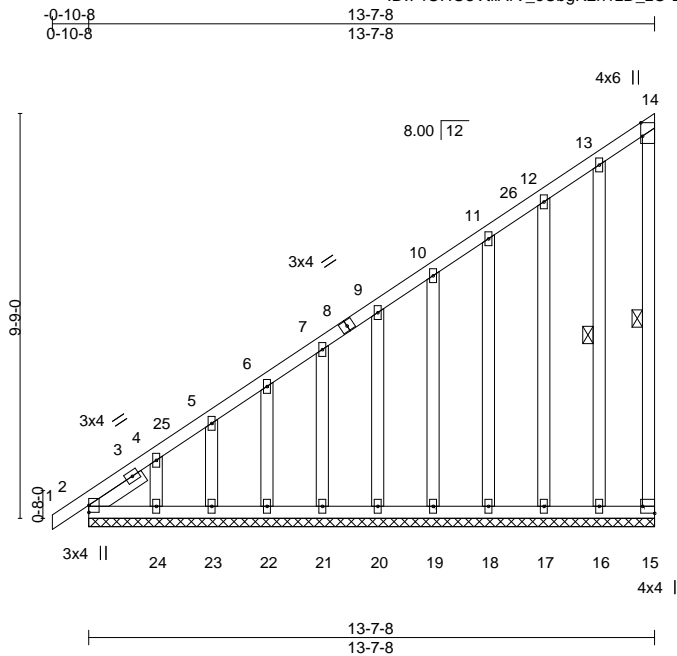


16023 Swingley Ridge Rd
Chesterfield, MO 63017

Job 2715435	Truss C4	Truss Type GABLE	Qty 1	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW 146282742 DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:33:33 2021 Page 1
ID:740HO3VtliArV_eCbgR2h1zD_zO-LKLQiQqnLBJ90LrMppFCtaha0187-F04yINZCz80

06/04/2021



Scale = 1:55.5

Plate Offsets (X,Y)--	[14:0-3-14,Edge], [15:Edge,0-3-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.00 1 n/r 120	MT20	197/144
TCDL 10.0	Lumber DOL 1.15	BC 0.28	Vert(CT) -0.00 1 n/r 120		
BCLL 0.0	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00 15 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 97 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 2x4 SPF No.2	WEBS 1 Row at midpt 14-15, 13-16
OTHERS 2x4 SPF No.2	
SLIDER Left 2x4 SPF No.2 -t 1-6-5	

REACTIONS. All bearings 13-7-8.
 (lb) - Max Horz 2=376(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 2, 16, 17, 18, 19, 20, 21, 22, 23 except 24=126(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 15, 16, 17, 18, 19, 20, 21, 22, 23, 24 except 2=254(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-754/478, 4-5=-604/397, 5-6=-558/376, 6-7=-502/348, 7-9=-447/322, 9-10=-392/295, 10-11=-337/268, 11-12=-283/243

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-1-8, Exterior(2N) 2-1-8 to 13-5-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 2, 16, 17, 18, 19, 20, 21, 22, 23 except (jt=lb) 24=126.
 - 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 26, 2021

Job 2715435	Truss D1	Truss Type MONOPITCH SUPPORTED	Qty 2	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center),

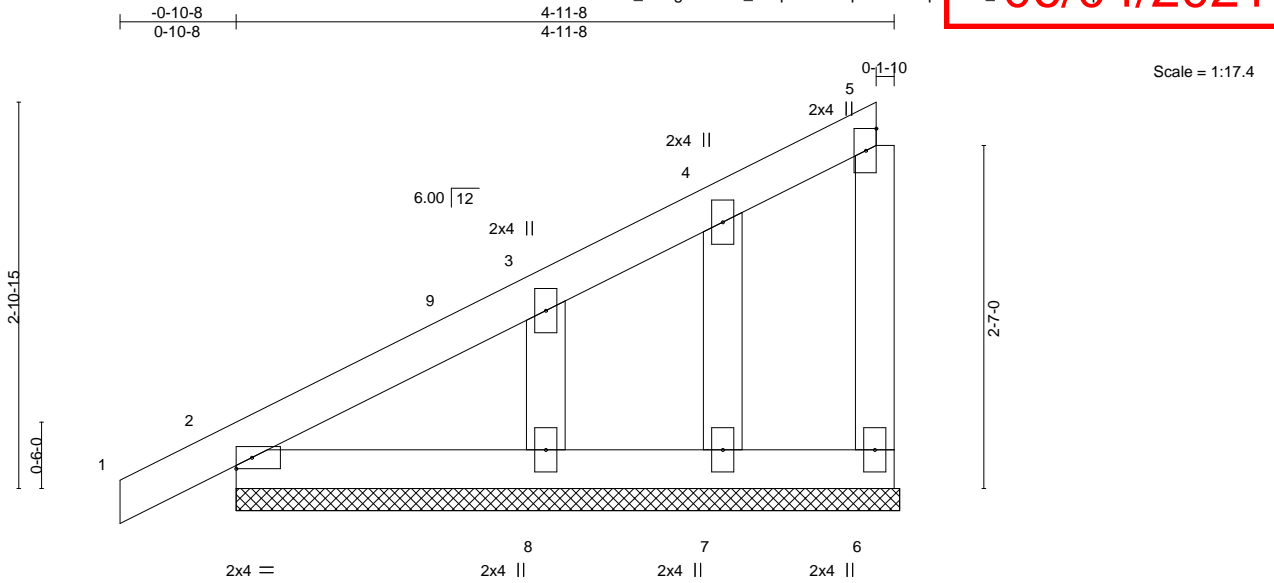
Valley Center, KS - 67147,

8.430 s May 12 2021 MiTek Industries, Inc

Tue May 25 11:34:2021 Page 1

ID:74OHO3VtliArV_eCbgR2h1zD_zO-pWvovmqP5VR0dVp7P4L2_CVU6574Wag;25hWZCza

06/04/2021



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	1	n/r	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	1	n/r		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P						
								Weight: 19 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-0-0.
 (lb) - Max Horz 2=112(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8
 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-266/134
 WEBS 3-8=-143/255

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 2-4-0, Exterior(2N) 2-4-0 to 4-9-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7, 8.
 - 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 26, 2021

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

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

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

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



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 Chesterfield, MO 63017

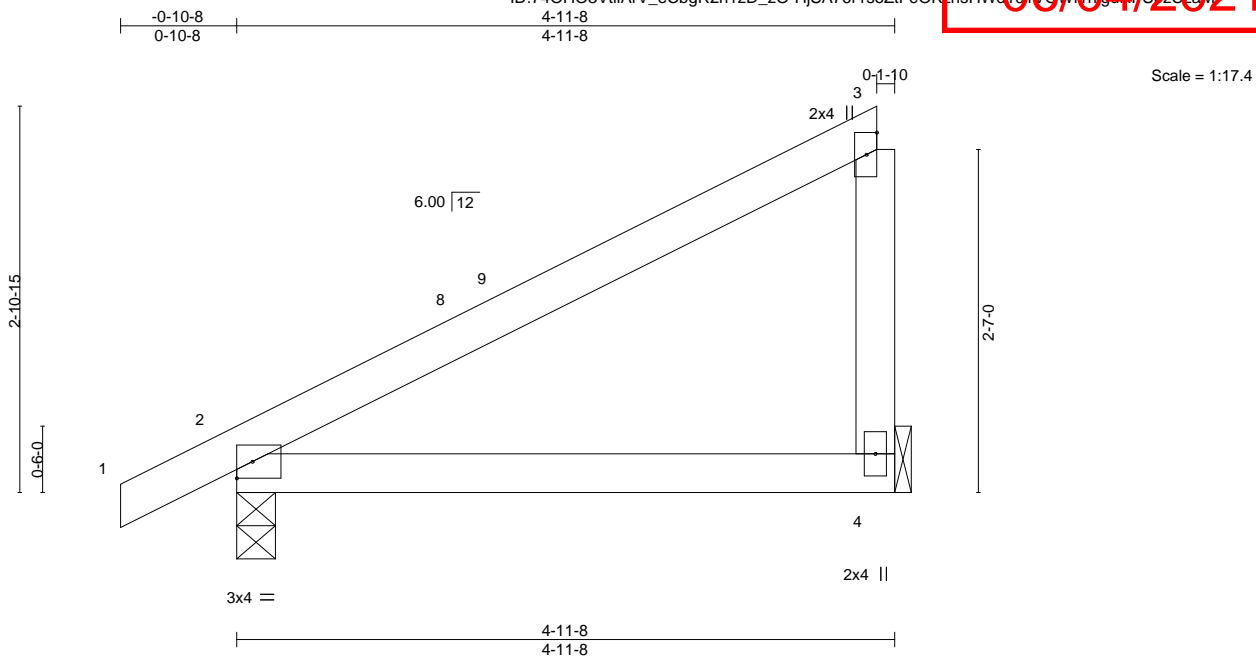
Job 2715435	Truss D2	Truss Type MONOPICH	Qty 10	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s May 12 2021 MiTek Industries, Inc. Tue May 25 11:31:35 2021 Page 1

ID:74OHO3VtliArV_eCbgR2h1zD_zO-HjSA76r1soZtFeOKznsHWc10V6WfIn9-4F5P2CzaM 06/04/2021



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.31	Vert(LL)	0.03	4-7	>999	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(CT)	-0.05	4-7	>999		
BCLL 0.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.01	2	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS					Weight: 16 lb	FT = 20%
	Code IRC2018/TPI2014							

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied, except end verticals.
 BOT CHORD Rigid ceiling directly applied.

REACTIONS. (size) 4=Mechanical, 2=0-3-8
 Max Horz 2=114(LC 11)
 Max Uplift 4=62(LC 12), 2=-57(LC 12)
 Max Grav 4=211(LC 1), 2=283(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-9-12 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



May 26, 2021

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

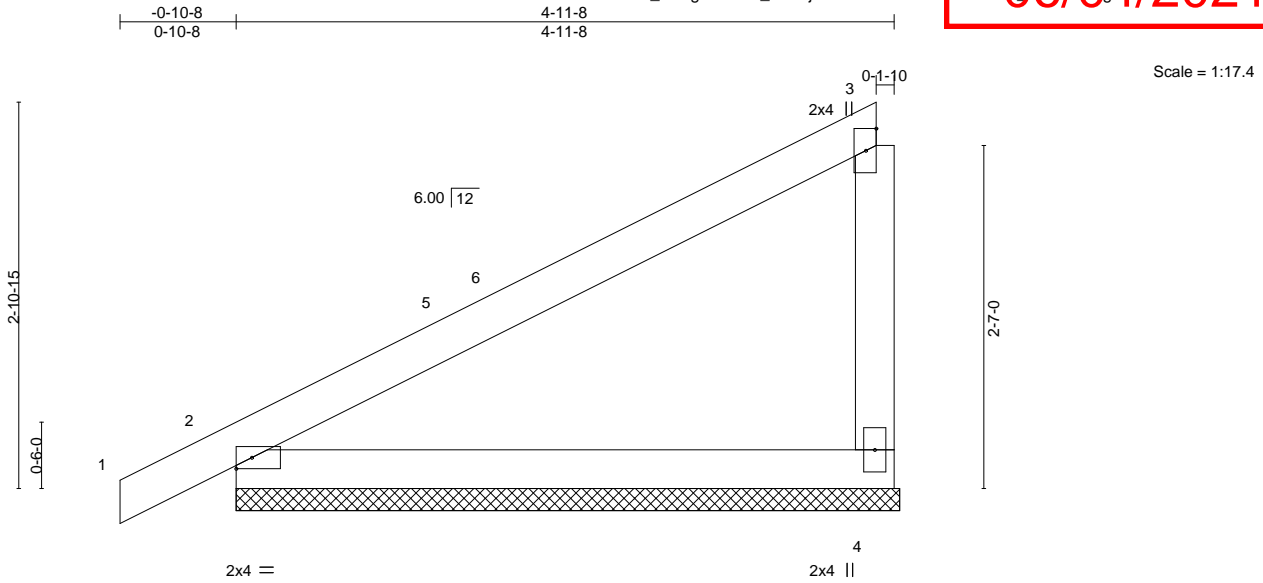


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2715435	Truss D3	Truss Type MONOPITCH	Qty 2	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW 46282735 DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc. Tue May 27 11:31:35 2021 Page 1
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06/04/2021



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.41	Vert(LL)	-0.01	1	n/r	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.24	Vert(CT)	0.01	1	n/r		
BCLL 0.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 16 lb	FT = 20%
	Code IRC2018/TPI2014							

LUMBER-
 TOP CHORD 2x4 SPF No.2
 BOT CHORD 2x4 SPF No.2
 WEBS 2x4 SPF No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-11-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=5-0-0, 2=5-0-0
 Max Horz 2=112(LC 9)
 Max Uplift 4=-61(LC 12), 2=-57(LC 12)
 Max Grav 4=207(LC 1), 2=283(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 2-1-8, Interior(1) 2-1-8 to 4-9-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 26, 2021

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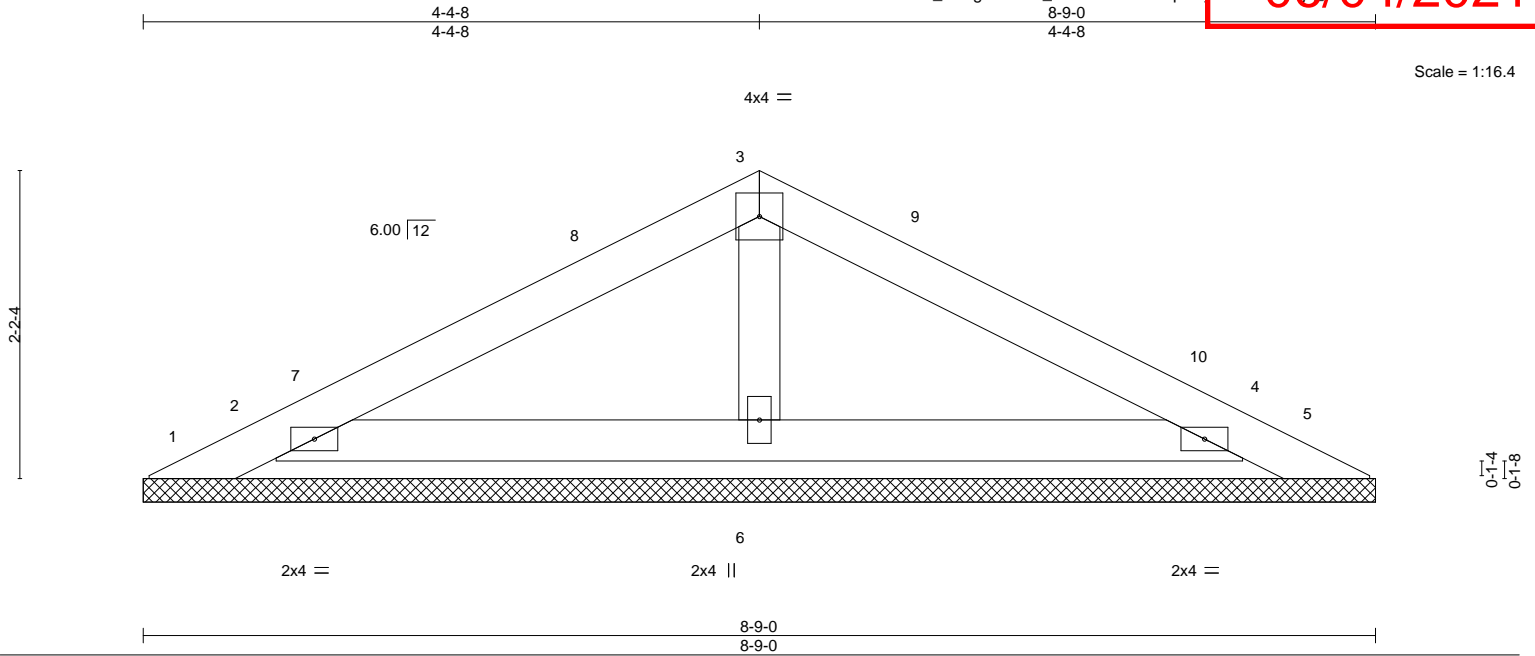
Job 2715435	Truss PB1	Truss Type GABLE	Qty 24	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:37:37 2021 Page 1

ID:740HO3VtliArV_eCbgR2h1zD_zO-E5axXotlOQpbUYi4Cult271J1fV3BcWwZCzK

06/04/2021



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.17	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a	Weight: 21 lb	FT = 20%
	Code IRC2018/TPI2014				

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 2x4 SPF No.2	

REACTIONS. All bearings 8-9-0.
 (lb) - Max Horz 1=36(LC 16)
 Max Uplift All uplift 100 lb or less at joint(s) 6 except 1=122(LC 1), 5=122(LC 1), 2=156(LC 12), 4=148(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=355(LC 1), 4=355(LC 1), 6=261(LC 1)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TC DL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-3 to 3-4-3, Interior(1) 3-4-3 to 4-4-8, Exterior(2R) 4-4-8 to 7-4-8, Interior(1) 7-4-8 to 8-4-13 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1-4-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 1=122, 5=122, 2=156, 4=148.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

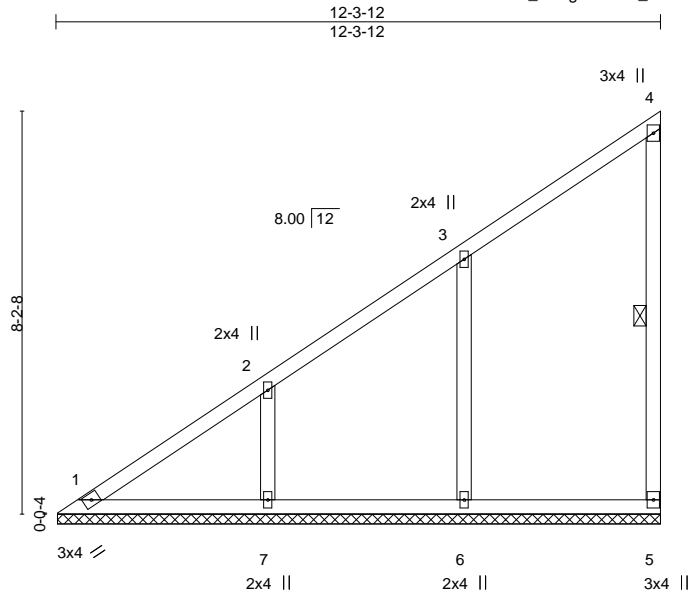


May 26, 2021

Job 2715435	Truss V1	Truss Type Valley	Qty 2	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW 46282737 DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:37 2021 Page 1

ID:740HO3VtliArV_eCbgR2h1zD_zO-E5axXotlOQpbUy4Culb27UJz5Ark3B4WzCzK 06/04/2021



Scale = 1:46.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.15	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 47 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 2x4 SPF No.2
OTHERS 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.
WEBS 1 Row at midpt 4-5

REACTIONS. All bearings 12-3-6.
(lb) - Max Horz 1=310(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=163(LC 12), 7=167(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=392(LC 19), 7=406(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-449/352, 2-3=-316/265
WEBS 3-6=-319/228, 2-7=-308/211

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 12-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 6=163, 7=167.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 26, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job 2715435	Truss V2	Truss Type Valley	Qty 2	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW 46282748 DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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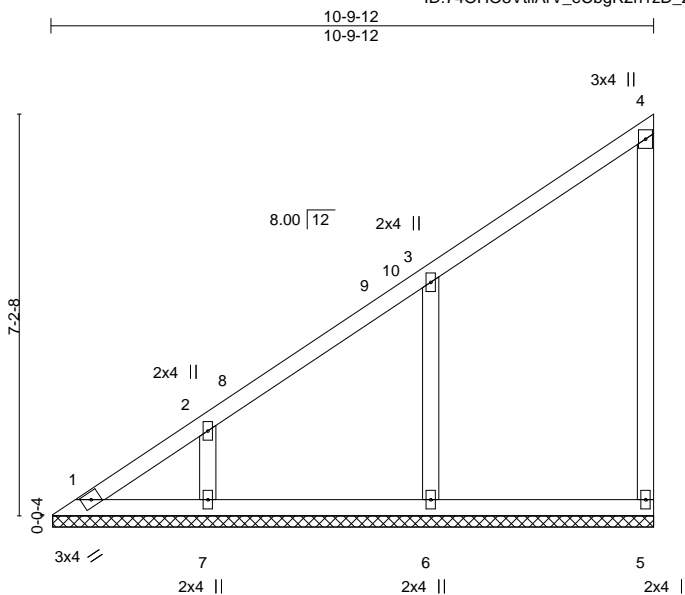
Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s May 12 2021 MiTek Industries, Inc Tue May 27 11:31:38 2021 Page 1

ID:74OHO3VtIiArV_eCbgR2h1zD_zO-il8Jl8uw9jxS657vevP_80XhI\A\SN\41532ZCz\

05/04/2021



Scale = 1:41.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 40 lb	FT = 20%

LUMBER-

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

All bearings 10-9-6.
 (lb) - Max Horz 1=270(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-115(LC 12), 7=-139(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=411(LC 19), 7=323(LC 19)

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

TOP CHORD 1-2=-406/275, 2-3=-319/229
 WEBS 3-6=-330/238

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 10-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 6=115, 7=139.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 26, 2021

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

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

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

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

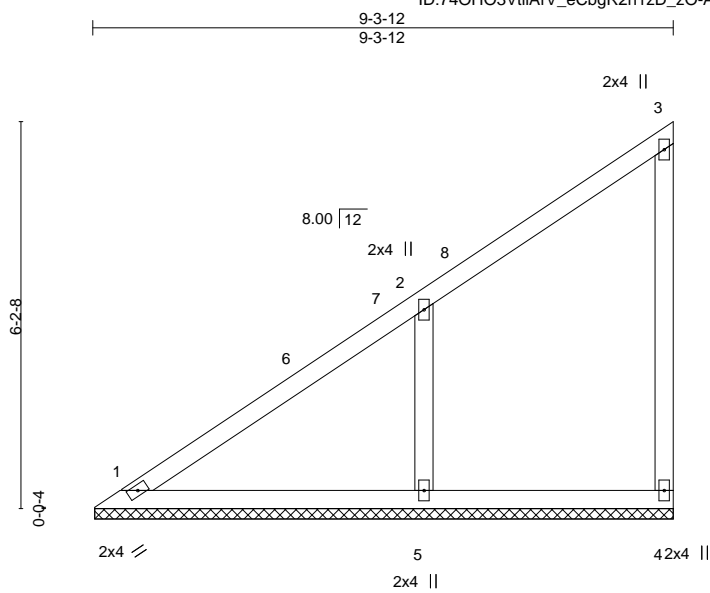


16023 Swingley Ridge Rd
 Chesterfield, MO 63017

Job 2715435	Truss V3	Truss Type Valley	Qty 2	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc. Tue May 25 11:31:39 2021 Page 1
 ID:740HO3VtliArV_eCbgR2h1zD_zO-AUihyUuYw13JKGi5CdwDh_Clr7sfbc64WpchnzCjal

RELEASE FOR CONSTRUCTION
 06/04/2021



Scale = 1:37.0

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.30	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.16	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.15	WB 0.08	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 4 n/a n/a		
	Code IRC2018/TPI2014			Weight: 32 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 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS. (size) 1=9-3-6, 4=9-3-6, 5=9-3-6
 Max Horz 1=231(LC 9)
 Max Uplift 1=5(LC 8), 4=50(LC 9), 5=182(LC 12)
 Max Grav 1=200(LC 20), 4=139(LC 19), 5=505(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-337/241
 WEBS 2-5=-389/280

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 9-2-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=182.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



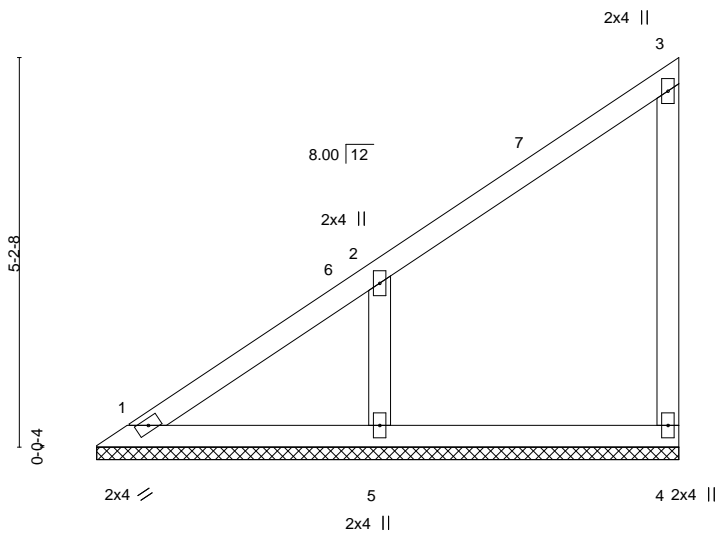
May 26, 2021

Job	Truss	Truss Type	Qty	Ply	C&H/TWIN HONEYDEW OS	AGE#25/MO	NOTED FOR PLAN REVIEW
2715435	V4	Valley	2	1		16282730	DEVELOPMENT SERVICES
Builders FirstSource (Valley Center), Valley Center, KS - 67147,					Job Reference (optional)		

RELEASE FOR CONSTRUCTION

06/04/2021

8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:40 2021 Page 1
 ID:74OHO3VtliArV_eCbgR2h1zD_zO-egG3AqvAhLBALQHfIKSSDkIjWpKIF44M7D2CzaH



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.22	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.15	WB 0.05	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 4 n/a n/a	Weight: 26 lb	FT = 20%
	Code IRC2018/TPI2014				

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 2x4 SPF No.2	
OTHERS 2x4 SPF No.2	

REACTIONS. (size) 1=7-9-6, 4=7-9-6, 5=7-9-6
 Max Horz 1=191(LC 9)
 Max Uplift 1=-15(LC 8), 4=-46(LC 9), 5=-164(LC 12)
 Max Grav 1=138(LC 20), 4=152(LC 19), 5=421(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-316/219
 WEBS 2-5=-331/260

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 7-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=164.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



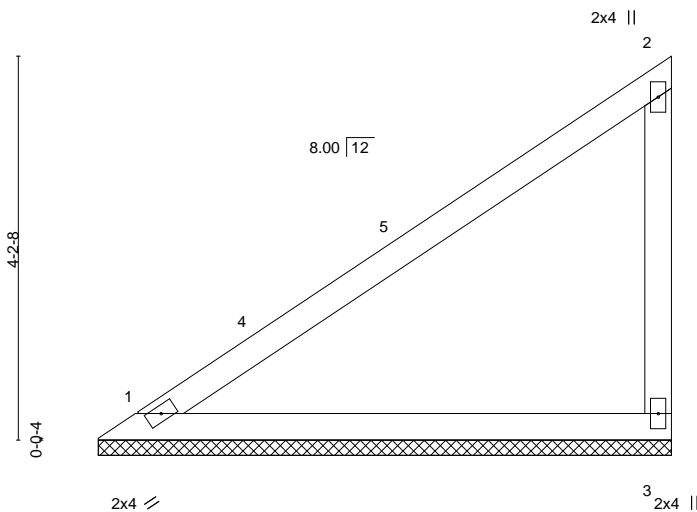
May 26, 2021

Job 2715435	Truss V5	Truss Type Valley	Qty 2	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MO	NOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147,

8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:40 2021 Page 1

ID:74OH03VtliArV_eCbgR2h1zD_zO-egG3AqvAhLBALQHHLKSSDhkWVWJkDFpA4W7DzCza-
6-3-12
6-3-12
06/04/2021



Scale = 1:25.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 19 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SPF No.2
BOT CHORD 2x4 SPF No.2
WEBS 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) 1=6-3-6, 3=6-3-6
Max Horz 1=151(LC 11)
Max Uplift 1=26(LC 12), 3=-90(LC 12)
Max Grav 1=256(LC 1), 3=275(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 6-2-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



May 26, 2021

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

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

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

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



16023 Swingley Ridge Rd
Chesterfield, MO 63017

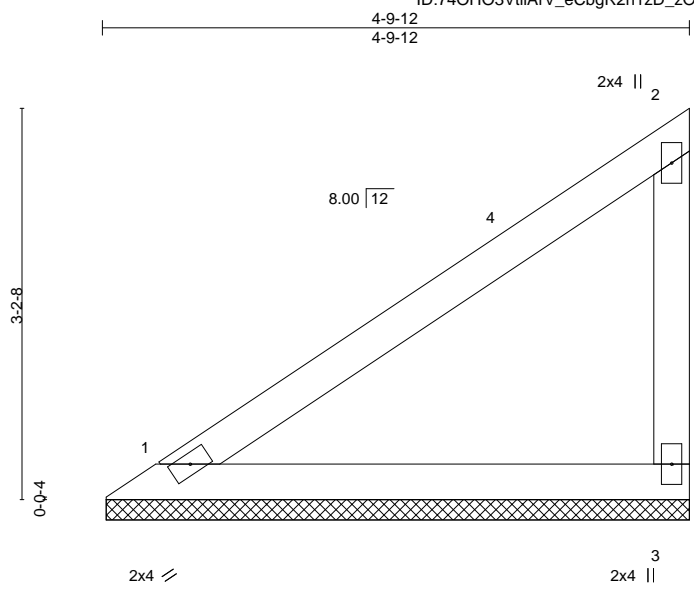
Job 2715435	Truss V6	Truss Type Valley	Qty 2	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW 4638272 DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center),

Valley Center, KS - 67147,

8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:41 2021 Page 1
ID:740HO3VtliArV_eCbgR2h1zD_zO-6tqSNAwoSeJ1z5tJ2zhnu17AvKT3C4agujfzCz3G

06/04/2021



Scale = 1:18.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 25.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	197/144
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(LL) n/a - n/a 999		
BCLL 0.0	Lumber DOL 1.15	WB 0.00	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2018/TPI2014			Weight: 14 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 4-9-12 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	

REACTIONS. (size) 1=4-9-6, 3=4-9-6
 Max Horz 1=111(LC 9)
 Max Uplift 1=-23(LC 12), 3=-62(LC 12)
 Max Grav 1=188(LC 1), 3=202(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-5-12 to 3-5-12, Interior(1) 3-5-12 to 4-8-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

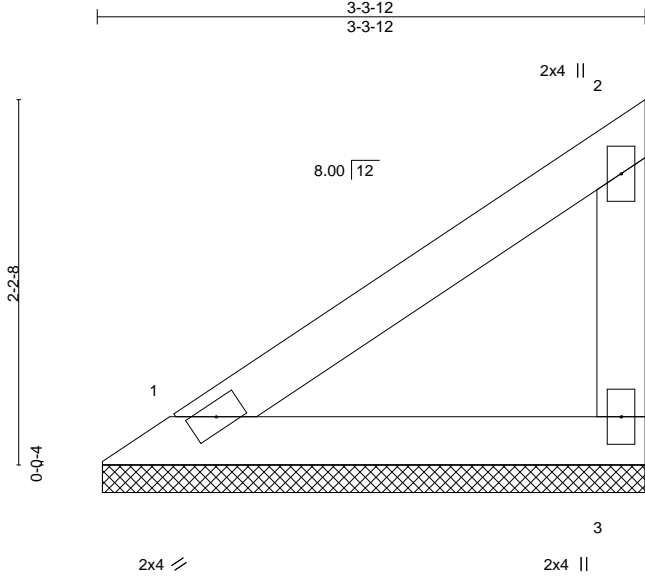


May 26, 2021

Job 2715435	Truss V7	Truss Type Valley	Qty 2	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MONOTED FOR PLAN REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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RELEASE FOR CONSTRUCTION
NOTED FOR PLAN REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
06/04/2021

Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:42 2021 Page 1
ID:74OHO3VtliArV_eCbgR2h1zD_zO-a3NqbVxQDyRubjQgUwI6q6711CpCvK4L6CzCz3F



Scale = 1:13.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 25.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 9 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 3-3-12 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	

REACTIONS. (size) 1=3-3-6, 3=3-3-6
 Max Horz 1=71(LC 9)
 Max Uplift 1=-15(LC 12), 3=-40(LC 12)
 Max Grav 1=121(LC 1), 3=130(LC 19)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

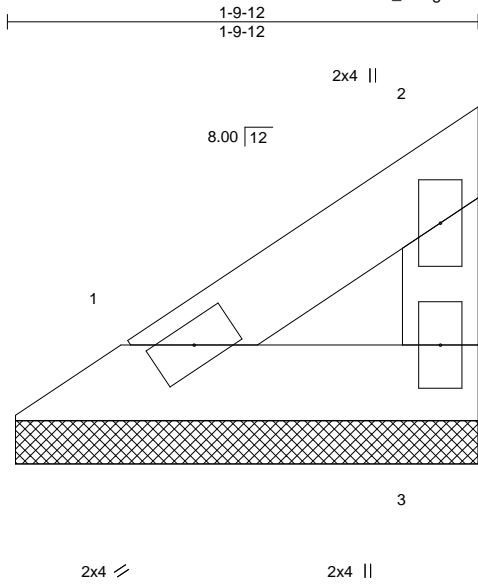


May 26, 2021

Job 2715435	Truss V8	Truss Type Valley	Qty 2	Ply 1	C&H/TWIN HONEYDEW OSAGE#25/MO NOTED FOR PLAN REVIEW 46382724 DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI
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Builders FirstSource (Valley Center), Valley Center, KS - 67147, 8.430 s May 12 2021 MiTek Industries, Inc Tue May 25 11:31:42 2021 Page 1

ID:74OHO3VtliArV_eCbgR2h1zD_zO-a3NqbVxQDyRubjCgtUwI6ghKlloC Wk4n6GCzCzF 06/04/2021



Scale = 1:8.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 25.0	Plate Grip DOL	1.15	TC 0.02	Vert(LL)	n/a	-	n/a	999	MT20	197/144
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	IRC2018/TPI2014	Matrix-P						Weight: 5 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SPF No.2	TOP CHORD Structural wood sheathing directly applied or 1-9-12 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	

REACTIONS. (size) 1=1-9-6, 3=1-9-6
 Max Horz 1=31(LC 9)
 Max Uplift 1=7(LC 12), 3=18(LC 12)
 Max Grav 1=53(LC 1), 3=57(LC 19)

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

- NOTES-**
- 1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=6.0psf; BCDL=4.2psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Gable requires continuous bottom chord bearing.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
 - 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



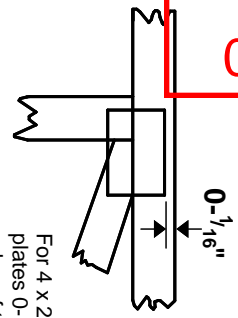
May 26, 2021

06/04/2021

Symbols

PLATE LOCATION AND ORIENTATION

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



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

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

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

PLATE SIZE

4 X 4

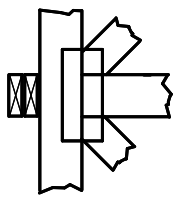
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



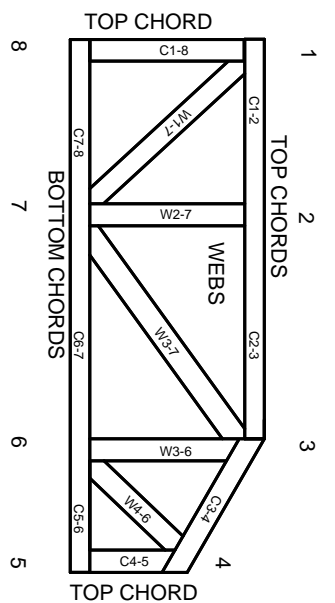
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/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.
- BCSI:

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 T or 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.

