



42931 (73)
Lumber design values are in accordance with ANSI/TPI 1 section 6.3
These truss designs rely on lumber values established by others.

RE: 2891235 - GIEBEIG - JOHNSON RES.

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Giebeig Homes Project Name: Johnson Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD CR 252, N/A
City: Columbai Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.

Name: License #:
Address:
City: State:

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.4
Wind Code: ASCE 7-16 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 13 individual, Truss Design Drawings and 0 Additional Drawings.

With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T24934911	T01	8/6/21
2	T24934912	T01G	8/6/21
3	T24934913	T02	8/6/21
4	T24934914	T02G	8/6/21
5	T24934915	T03	8/6/21
6	T24934916	T03A	8/6/21
7	T24934917	T03G	8/6/21
8	T24934918	T04	8/6/21
9	T24934919	T05	8/6/21
10	T24934920	T06	8/6/21
11	T24934921	T07	8/6/21
12	T24934922	T08	8/6/21
13	T24934923	T08G	8/6/21



The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2023.

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.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

August 6, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-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

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - JOHNSON RES.	T24934912
2891235	T01G	Common Supported Gable	1	1		

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID:yF_ocOwa2BYMa3_bLYXStsysag2-SRZiO7VZAjko4PsJ84FWHaxZSRNxxvdjMFpkfPGyqxf

Job Reference (optional)

-1-6-0 13-0-0 26-0-0 27-6-0
1-6-0 13-0-0 13-0-0 1-6-0

Scale: 1/4"=1'

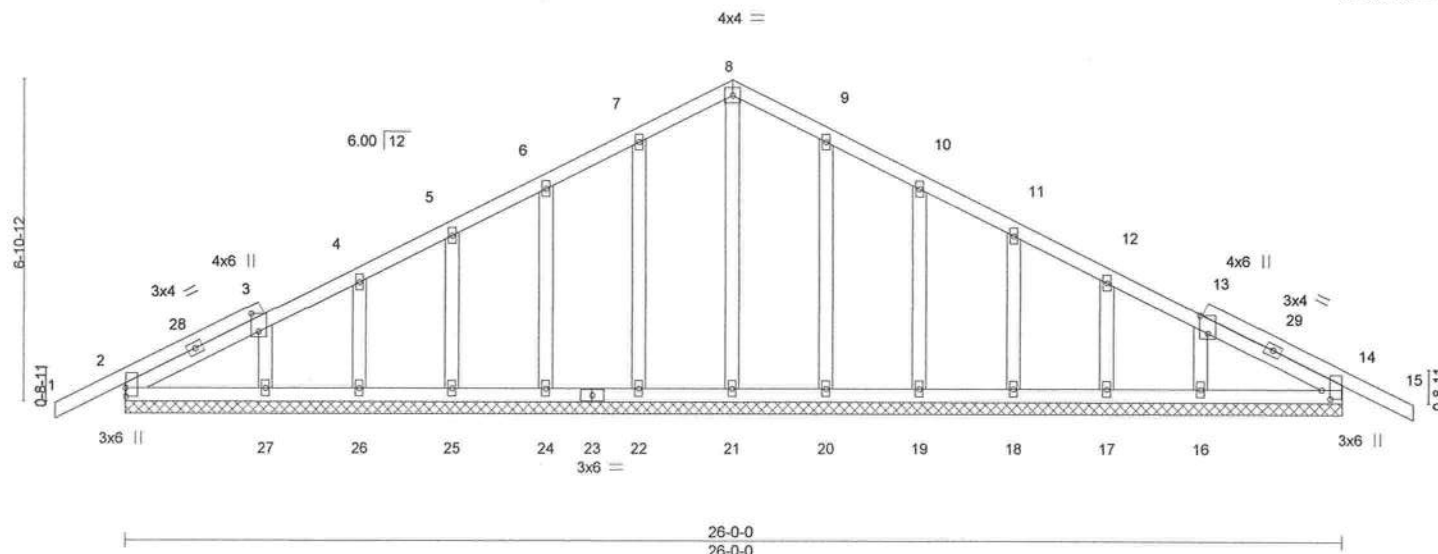


Plate Offsets (X,Y)-- [2:0-2-4,0-0-3], [3:0-4-10,0-2-0], [13:0-4-10,0-2-0], [14:0-2-4,0-2-3]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc)		l/defl L/d		PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.12		Vert(LL) -0.00 15		n/r 120		MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.06		Vert(CT) -0.01 15		n/r 120			
BCLL 0.0 *		Rep Stress Incr YES		WB 0.09		Horz(CT) 0.00 14		n/a n/a			
BCDL 10.0		Code FBC2020/TPI2014		Matrix-S						Weight: 156 lb	FT = 20%

Job 2891235	Truss T02	Truss Type Roof Special	Qty 7	Ply 1	GIEBEIG - JOHNSON RES. Job Reference (optional)	T24934913
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ID: yF_ocOwa2BYMa3_bLYXStsysag2-QqhSopWpil_WJi0iGVH_M?1knFrjNPxfj7DmT8yqld

1-6-0 5-9-8 11-4-14 17-3-8 24-9-15 32-4-0 38-4-0 39-10-0
1-6-0 5-9-8 5-7-6 5-10-11 7-6-7 7-6-1 6-0-0 1-6-0

Scale = 1:69.2

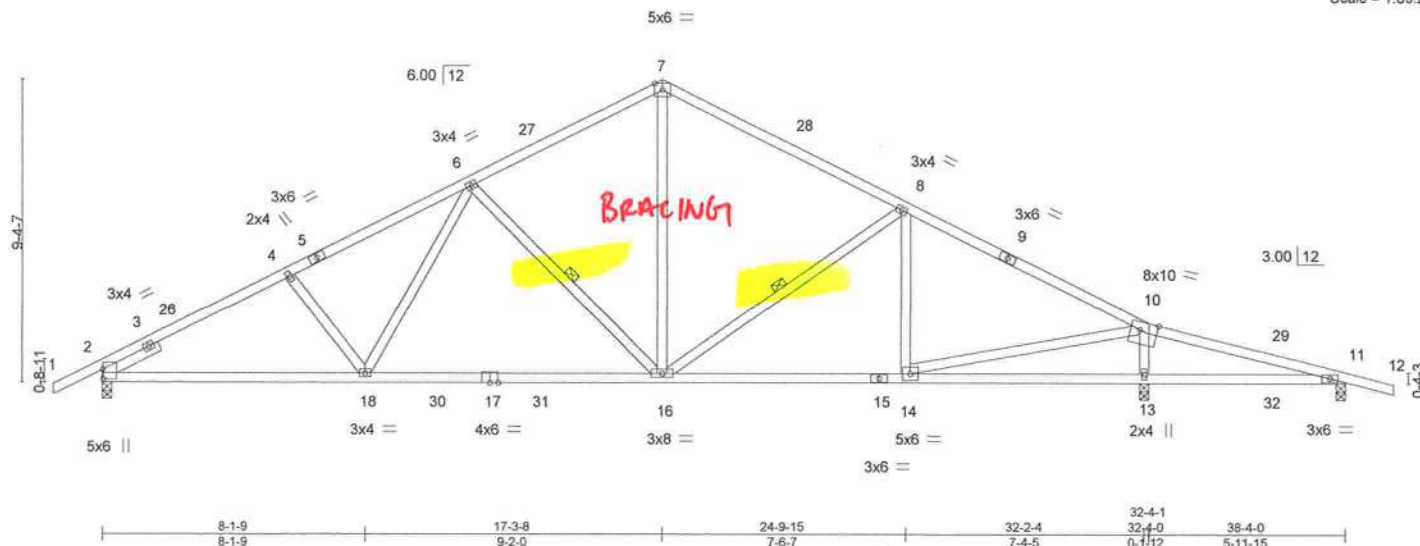


Plate Offsets (X,Y)-- [2:0-3-8,0-0-4], [10:0-6-8,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.71	Vert(LL)	0.09 13-25	>840	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.93	Vert(CT)	-0.52 16-18	>748	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.06 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 202 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 6-16, 8-16

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 11=0-3-8
Max Horz 2=142(LC 16)
Max Uplift 2=283(LC 12), 13=302(LC 13), 11=177(LC 9)
Max Grav 2=1355(LC 2), 13=1613(LC 2), 11=274(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2125/529, 4-6=-2010/527, 6-7=-1361/442, 7-8=-1382/437, 8-10=-1615/423
BOT CHORD 2-18=-426/1853, 16-18=-298/1554, 14-16=-245/1387
WEBS 6-18=-77/483, 6-16=-574/254, 7-16=-213/898, 8-16=-364/213, 10-14=-290/1632, 10-13=-1333/408

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; End., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-0, Interior(1) 2-4-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) 2=283, 13=302, 11=177.



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Date:

August 6, 2021

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

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Tampa, FL 36610

Job 2891235	Truss T03	Truss Type Roof Special	Qty 3	Ply 1	GIEBEIG - JOHNSON RES. T24934915
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055.

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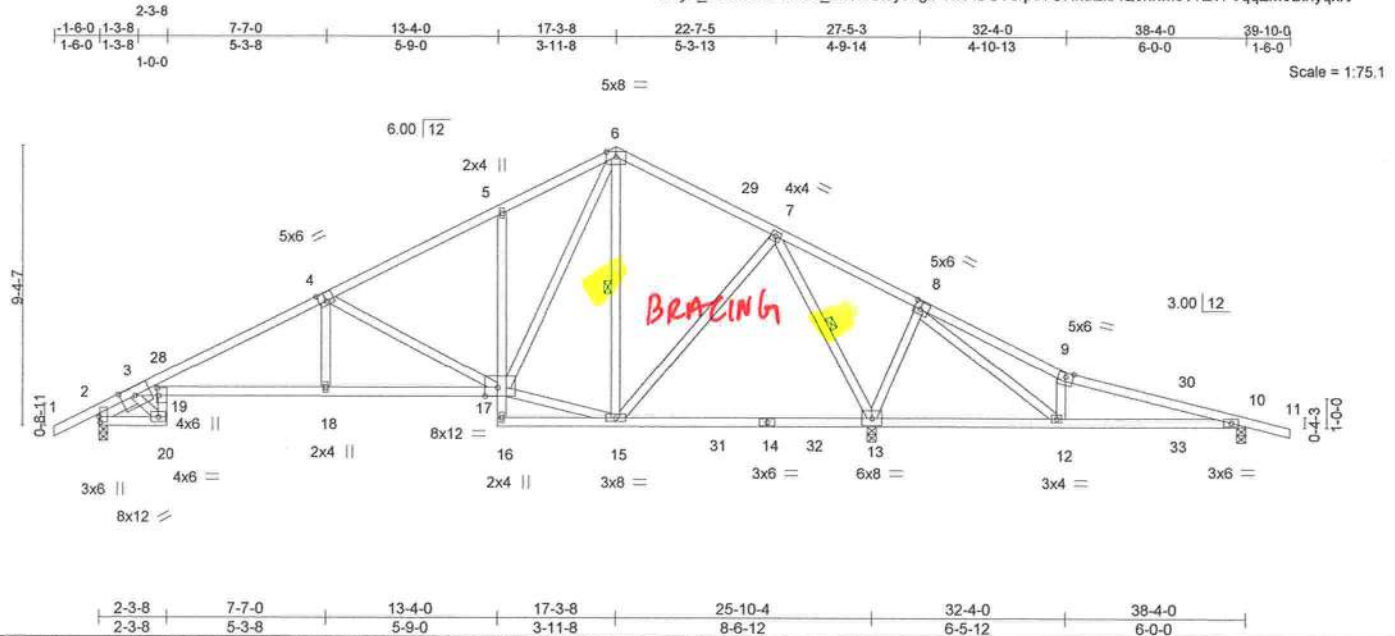


Plate Offsets (X,Y)-- [2:0-2-4,0-0-6], [3:0-5-12,0-3-6], [4:0-2-12,0-3-4], [8:0-2-8,0-3-0], [17:0-4-15,0-3-7], [19:0-3-0,0-0-8]											
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP			
TCLL	20.0	Plate Grip DOL	1.25	TC	0.83	Vert(LL)	-0.29 18-19	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.97	Vert(CT)	-0.51 18-19	>604	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.22 13	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 225 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
19-20, 5-16: 2x4 SP No.3, 3-17: 2x4 SP M 31	WEBS 1 Row at midpt 6-15, 7-13
WEBS 2x4 SP No.3	
SLIDER Left 2x4 SP No.3 1-4-4	

REACTIONS.	(size) 2=0-3-8, 13=0-3-8, 10=0-3-8
Max Horz	2=142(LC 16)
Max Uplift	2=-210(LC 12), 13=-345(LC 13), 10=-184(LC 9)
Max Grav	2=913(LC 2), 13=2143(LC 2), 10=285(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	3-22=-460/68, 3-4=-1631/370, 4-5=-821/208, 5-6=-781/294, 6-7=-413/164, 7-8=-515/1167, 8-9=-216/732, 9-10=-230/643
BOT CHORD	2-20=-287/917, 19-20=-337/1146, 3-19=-339/1476, 18-19=-370/1530, 17-18=-371/1538, 13-15=-218/348, 12-13=-876/505, 10-12=-589/240
WEBS	3-20=-1295/396, 4-18=-26/433, 4-17=-894/299, 15-17=0/381, 6-17=-288/831, 6-15=-481/192, 7-15=-237/839, 7-13=-1730/650, 8-13=-387/351, 8-12=-887/634, 9-12=-261/217

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-0, Interior(1) 2-4-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) 2=210, 13=345, 10=184.



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6904 Parke East Blvd. Tampa FL 33610
Date: August 6, 2021

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Job 2891235	Truss T03A	Truss Type Roof Special	Qty 1	Ply 1	GIEBEIG - JOHNSON RES. T24934916
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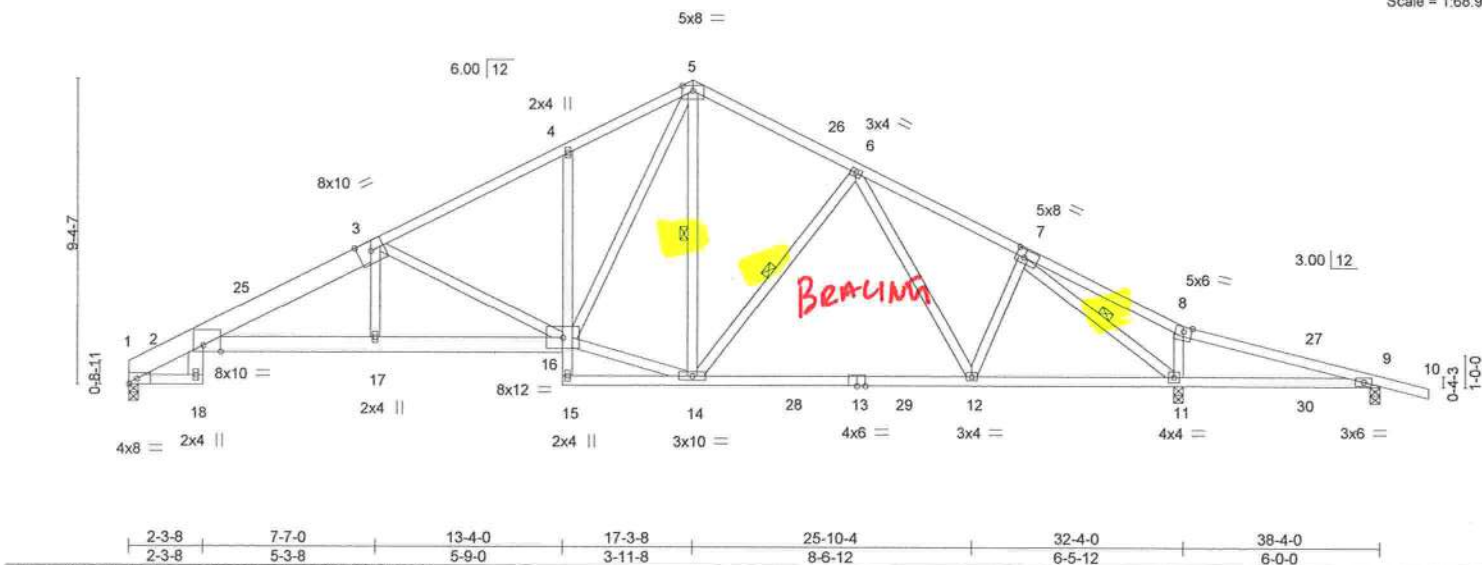
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID: yF_ocOwa2BYMa3_bLYXStsag2-18P_KvgL1VpIz0z0VrXXs64wXBnvQT_7PuSyqxlR

1-6-0	1-3-8	2-3-8	7-7-0	13-4-0	17-3-8	22-3-7	27-5-3	32-4-0	38-4-0	39-10-0
1-6-0	1-3-8	1-0-0	5-3-8	5-9-0	3-11-8	4-11-15	5-1-12	4-10-13	6-0-0	1-6-0

Scale = 1:68.9



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.49	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 1.00	Vert(LL) -0.27 12-14 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.81	Vert(CT) -0.47 12-14 >827 180		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	Horz(CT) 0.23 11 n/a n/a		
				Weight: 242 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD Structural wood sheathing directly applied or 3-11-14 oc purlins.
1-3: 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
BOT CHORD 2x4 SP No.2 *Except*	2-2-0 oc bracing: 2-17
2-18,2-16: 2x6 SP No.2, 4-15: 2x4 SP No.3	6-0-0 oc bracing: 9-11.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-14, 6-14, 7-11

REACTIONS.	(size) 1=0-3-8, 11=0-3-8, 9=0-3-8
Max Horz	1=149(LC 13)
Max Uplift	1=245(LC 12), 11=315(LC 13), 9=165(LC 9)
Max Grav	1=1258(LC 2), 11=1724(LC 2), 9=226(LC 24)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-20=639/212, 2-3=-2686/646, 3-4=-1879/513, 4-5=-1840/597, 5-6=-1315/439, 6-7=-1469/413, 7-8=-106/560, 8-9=-127/483
BOT CHORD	2-17=-539/2486, 16-17=-539/2501, 4-16=-263/180, 12-14=-197/1265, 11-12=-192/1152, 9-11=-427/140
WEBS	3-17=0/311, 3-16=-978/308, 14-16=-84/1126, 5-16=-343/1125, 5-14=-123/273, 6-14=-302/194, 7-12=-4/337, 7-11=-2084/413

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-10-0, Interior(1) 3-10-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) 1=245, 11=315, 9=165.



Philip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: August 6,2021

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MiTek
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - JOHNSON RES.	T24934917
2891235	T03G	GABLE	1	1		

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 5 09:14:02 2021 Page 1

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1-6-0 1-3-8 2-3-8 7-7-0 13-4-0 17-3-8 22-3-7 27-5-3 32-4-0 38-4-0 39-10-0
1-6-0 1-3-8 1-0-0 5-3-8 5-9-0 3-11-8 4-11-15 5-1-12 4-10-13 6-0-0 1-6-0

Scale = 1:74.5

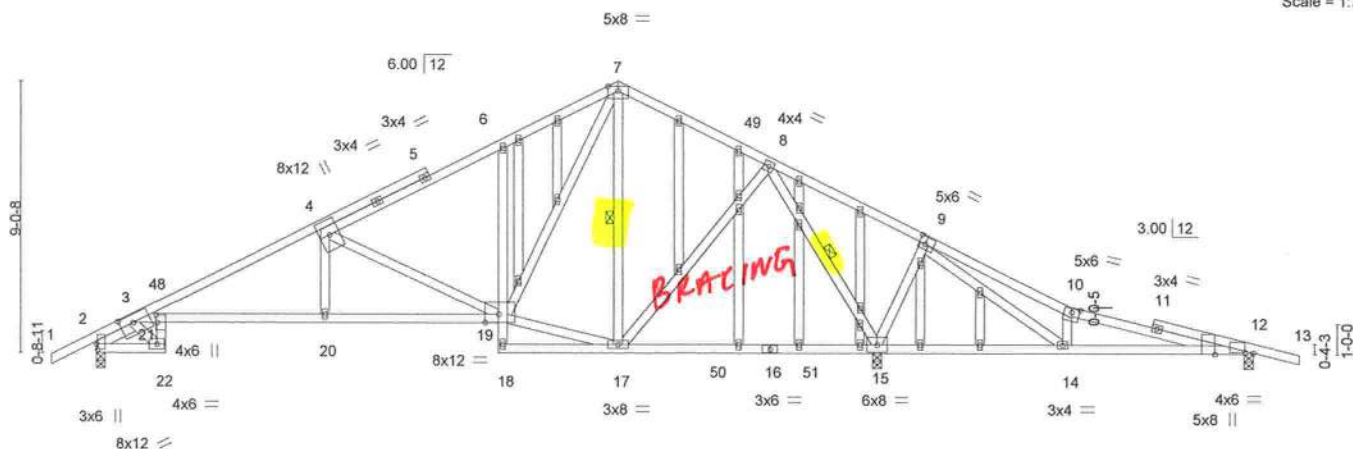


Plate Offsets (X, Y)--	[2:0-2-4,0-0-7], [3:0-5-5,0-3-1], [9:0-2-8,0-3-0], [10:0-3-0,0-1-10], [12:0-3-4,0-0-5], [12:0-0-9,Edge], [19:0-5-6,0-3-4], [21:0-3-0,0-0-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.81	Vert(LL)	-0.29 20-21	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.96	Vert(CT)	-0.51 20-21	>612	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.76	Horz(CT)	0.22 15	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 282 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
21-22,6-18: 2x4 SP No.3, 3-19: 2x4 SP M 31
WEBS 2x4 SP No.3
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-4-4

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-2-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 7-17, 8-15

REACTIONS.

(size) 12=0-3-8, 2=0-3-8, 15=0-3-8
Max Horz 2=137(LC 16)
Max Uplift 12=174(LC 9), 2=218(LC 12), 15=359(LC 13)
Max Grav 12=277(LC 24), 2=922(LC 2), 15=2110(LC 2)

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

TOP CHORD 3-45=481/77, 3-4=1755/409, 4-6=892/228, 6-7=862/312, 7-8=453/176,
8-9=628/1190, 9-10=217/763, 10-12=225/668
BOT CHORD 2-22=289/924, 21-22=342/1166, 3-21=379/1612, 20-21=408/1660, 19-20=408/1660,
6-19=252/172, 15-17=143/370, 14-15=895/596, 12-14=613/236
WEBS 3-22=1316/402, 4-20=24/427, 4-19=944/313, 17-19=0/419, 7-17=458/206,
8-17=254/784, 8-15=1765/726, 9-15=369/323, 9-14=884/593, 7-19=295/875

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-0, Interior(1) 2-4-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 zone; porch 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.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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) 12=174, 2=218, 15=359.



Phillip J. O'Regan PE No.58126
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6904 Parke East Blvd. Tampa FL 33610
Date: August 6,2021

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



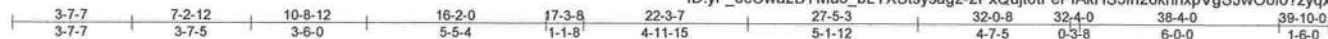
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	GIEBEIG - JOHNSON RES.	T24934919
2891235	T05	Roof Special	1	1		

Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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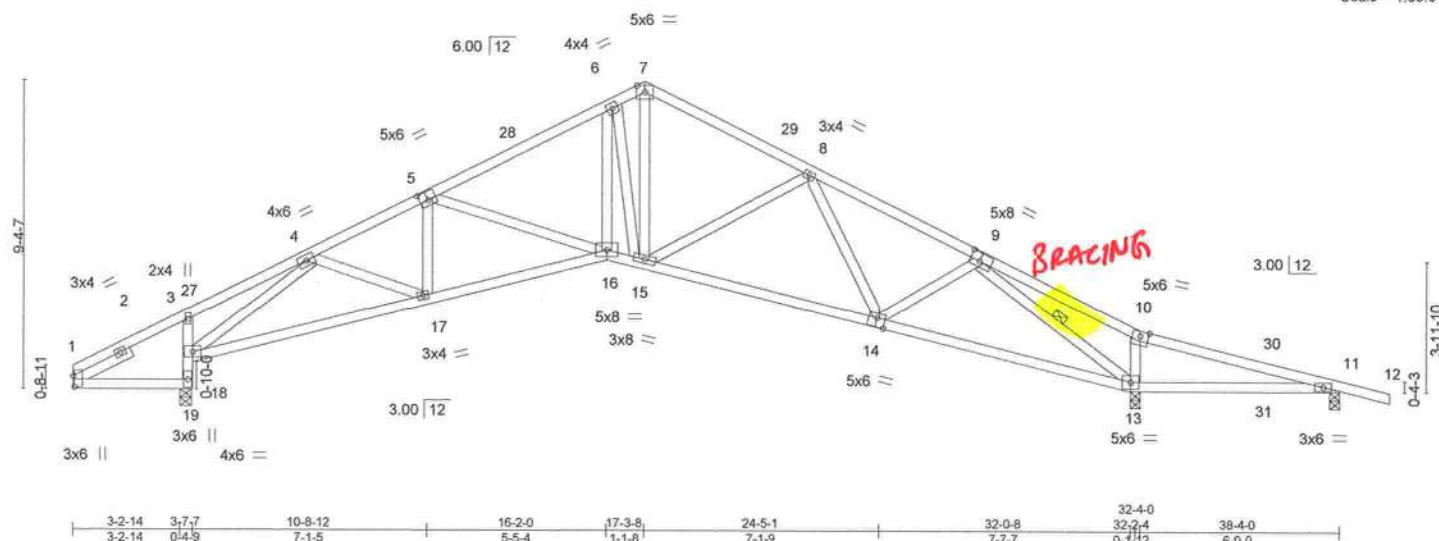


Plate Offsets (X,Y)-- [1:0-4-0,0-0-6], [5:0-3-0,0-3-0], [9:0-3-8,0-3-0], [14:0-3-0,0-3-4]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL)	0.11 13-26	>677	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.61	Vert(CT)	-0.24 16-17	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.19 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 207 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
3-19: 2x4 SP No.3
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-5-8 oc bracing.
WEBS 1 Row at midpt 9-13

REACTIONS. (size) 19=0-4-3, 13=0-3-8, 11=0-3-8
Max Horz 19=152(LC 13)
Max Uplift 19=275(LC 12), 13=297(LC 13), 11=180(LC 9)
Max Grav 19=1290(LC 1), 13=1486(LC 1), 11=187(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=290/237, 4-5=1890/418, 5-6=1742/393, 6-7=1458/419, 7-8=1503/376,
8-9=1614/411, 9-10=98/705, 10-11=116/610
BOT CHORD 18-19=1256/488, 3-18=266/150, 17-18=357/1282, 16-17=351/1729, 15-16=179/1510,
14-15=208/1516, 13-14=214/1127, 11-13=553/130
WEBS 4-17=99/479, 5-16=259/170, 6-16=167/817, 6-15=922/306, 7-15=319/1151,
8-15=275/214, 9-14=9/386, 9-13=2197/429, 4-18=1870/588

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-10-0, Interior(1) 3-10-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 zone; cantilever left exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 19=275, 13=297, 11=180.



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Date:

August 6,2021

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MiTek
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Tampa, FL 33610

Job 2891235	Truss T06	Truss Type Roof Special	Qty 4	Ply 1	GIEBEIG - JOHNSON RES. Job Reference (optional)	T24934920
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

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ID: yF_ocOwa2BYMa3_bLYXStsysag2-S_cYVWu9A0_9dT8DsUfIMF?8nZlrRM45zSclyqd7

-1-6-0	5-8-10	10-8-14	16-2-0	17-3-8	22-3-7	27-5-3	32-0-8	32-4-0	38-4-0	39-10-0	1-6-0
1-6-0	5-8-10	5-0-4	5-5-2	1-1-8	4-11-15	5-1-12	4-7-5	0-3-8	6-0-0		

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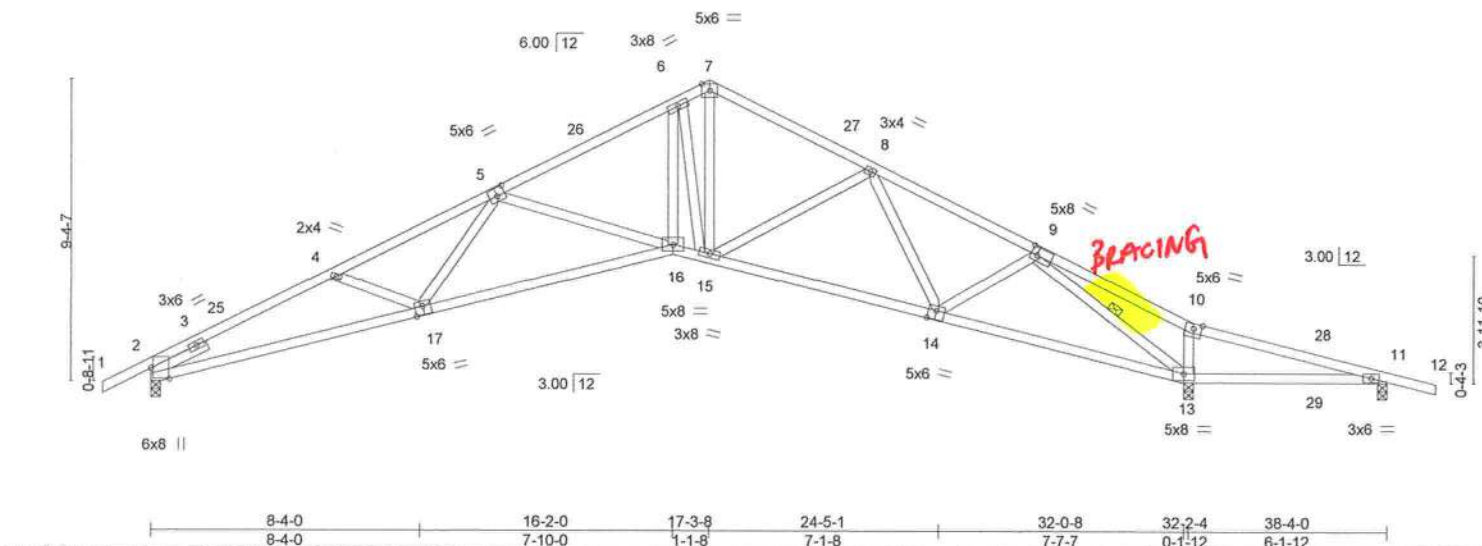


Plate Offsets (X,Y)-- [2:0-3-15,Edge], [5:0-3-0,0-3-0], [9:0-2-4,0-3-0], [14:0-3-0,0-3-4], [17:0-3-0,0-3-4]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.56	Vert(LL)	-0.30 16-17 >999 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.85	Vert(CT)	-0.61 16-17 >628 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.71	Horz(CT)	0.33 13 n/a n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS				Weight: 201 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* 1-5: 2x4 SP M 31	TOP CHORD Structural wood sheathing directly applied or 3-7-4 oc purlins.
BOT CHORD 2x4 SP No.2 *Except* 2-17: 2x4 SP M 31	BOT CHORD Rigid ceiling directly applied or 5-0-3 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 9-13
SLIDER Left 2x4 SP No.3 1-11-8	

REACTIONS. (size) 13=0-3-8, 11=0-3-8, 2=0-3-8
Max Horz 2=142(LC 16)
Max Uplift 13=332(LC 13), 11=174(LC 9), 2=271(LC 12)
Max Grav 13=1803(LC 1), 11=97(LC 24), 2=1203(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-3026/780, 4-5=-2894/723, 5-6=-2177/544, 6-7=-1756/529, 7-8=-1823/493,
8-9=-1719/463, 9-10=-230/1310, 10-11=-243/1195
BOT CHORD 2-17=-702/2691, 16-17=-554/2573, 15-16=-254/1903, 14-15=-280/1687, 13-14=-212/1056,
11-13=-1120/253
WEBS 5-17=-32/342, 5-16=-652/293, 6-16=-260/1325, 6-15=-1327/372, 7-15=-408/1391,
8-14=-338/110, 9-14=-50/564, 9-13=-2828/618

- NOTES-
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCCL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-0, Interior(1) 2-4-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 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) 2 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) 13=332, 11=174, 2=271.



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Date:

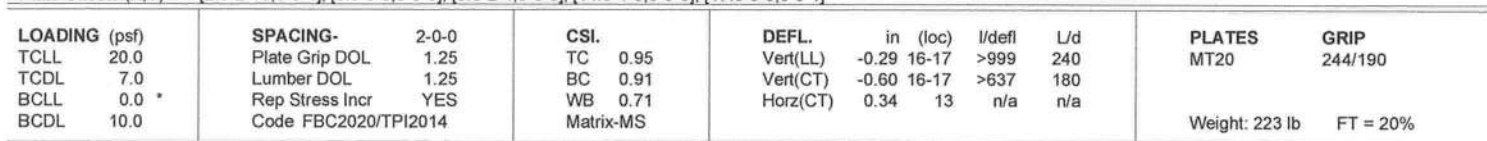
August 6, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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 BCS Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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Builders FirstSource (Lake City, FL) Lake City, FL - 32055, 8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 5 09:14:19 2021 Page 1



BRACING-	
TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing
WEBS	1 Row at midpt 9-13

REACTIONS. (size) 13=0-3-8, 11=0-3-8, 2=0-3-8
 Max Horz 2=142(LC 16)
 Max Uplift 13=332(LC 13), 11=-175(LC 11), 2=-271(LC 12)
 Max Grav 13=1806(LC 1), 11=95(LC 24), 2=1203(LC 1)

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

TOP CHORD 2-4=-3028/786, 4-5=-2913/729, 5-6=-2174/543, 6-7=-1755/529, 7-8=-1822/493,
8-9=-1716/462, 9-10=-233/1319, 10-11=-245/1203

BOT CHORD 2-7=-703/2713, 16-17=-554/2573, 15-16=-253/1900, 14-15=-280/1685, 13-14=-213/1052,
11-13=-1127/2255

WEBS 5-17=-38/355, 5-16=-654/295, 6-16=-257/1318, 6-15=-1325/371, 7-15=-409/1392,
8-14=-340/110, 9-14=-50/565, 9-13=-2833/619

NOTES:-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDF=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Endl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 2-4-0, Interior(1) 2-4-0 to 17-3-8, Exterior(2R) 17-3-8 to 21-1-8, Interior(1) 21-1-8 to 39-10-0 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=332, 11=175, 2=271.



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Date:

August 6, 2021

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

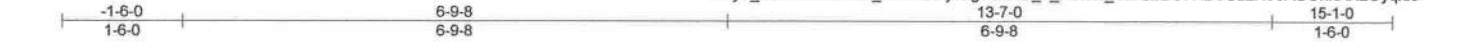


Job 2891235	Truss T08	Truss Type Common	Qty 3	Ply 1	GIEBEIG - JOHNSON RES. T24934922
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 5 09:14:21 2021 Page 1

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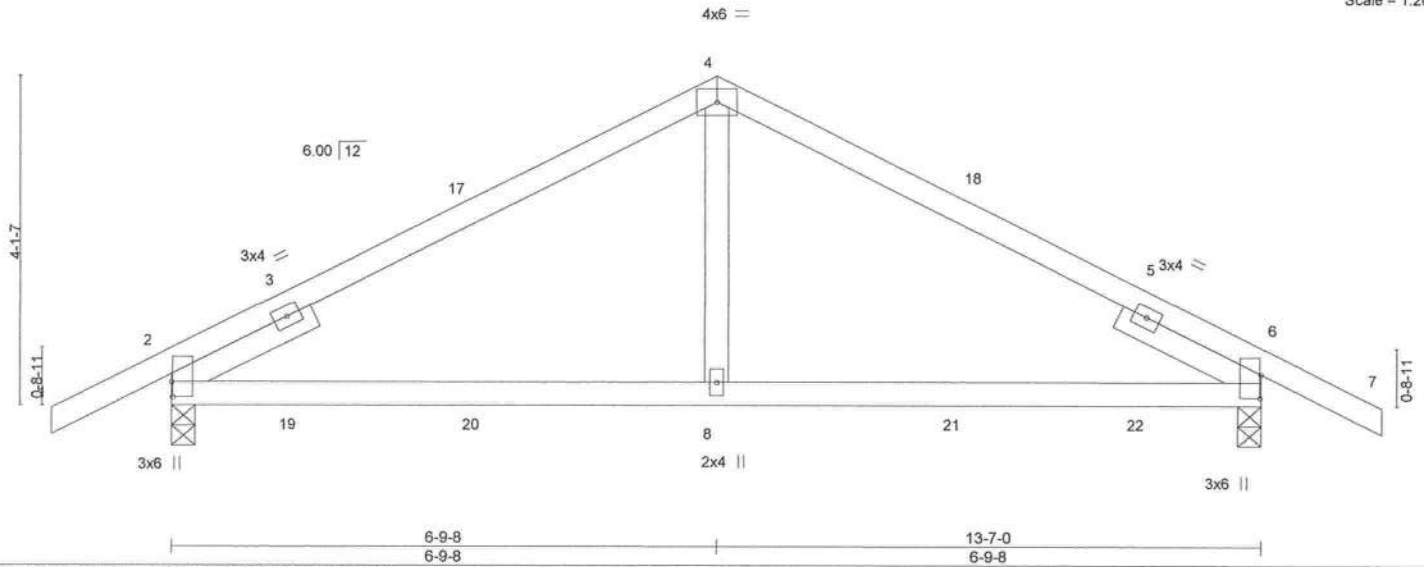


Plate Offsets (X,Y)-- [2:0-2-4,0-0-2], [6:0-3-8,0-0-2]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.43	Vert(LL)	0.09	8-15	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.09	8-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.02	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 59 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
SLIDER Left 2x4 SP No.3 1-11-8, Right 2x4 SP No.3 1-11-8

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-11 oc bracing.

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=62(LC 12)
Max Uplift 2=144(LC 9), 6=144(LC 8)
Max Grav 2=584(LC 1), 6=584(LC 1)

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

TOP CHORD 2-4=-551/705, 4-6=-551/705
BOT CHORD 2-8=-508/492, 6-8=-508/492
WEBS 4-8=-397/283

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-9-8, Exterior(2R) 6-9-8 to 9-9-8, Interior(1) 9-9-8 to 15-1-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) 2=144, 6=144.



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Date:

August 6, 2021

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6904 Parke East Blvd.
Tampa, FL 33610

Job 2891235	Truss T08G	Truss Type GABLE	Qty 1	Ply 1	GIEBEIG - JOHNSON RES. T24934923
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.430 s Jun 2 2021 MiTek Industries, Inc. Thu Aug 5 09:14:25 2021 Page 1
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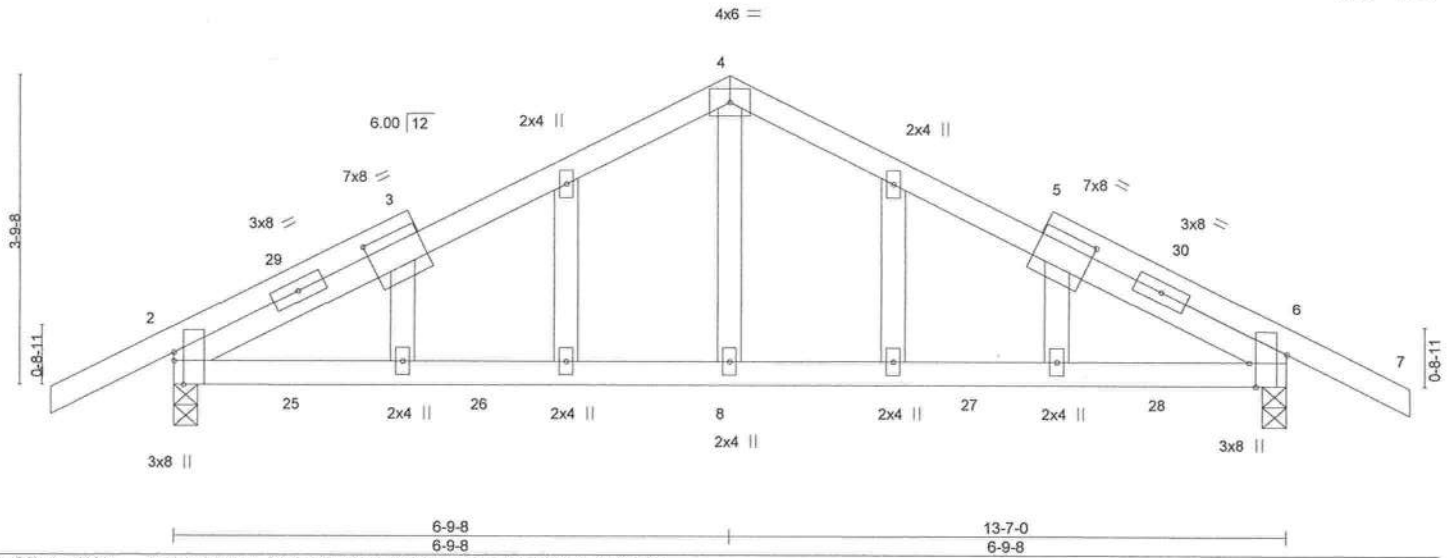


Plate Offsets (X,Y)--		[2:0-3-8,Edge], [6:0-3-8,Edge], [12:2-7-11,0-1-8], [16:2-7-11,0-1-8]									
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.25	TC 0.58	Vert(LL)	0.10	8-19	>999	240	MT20	244/190	
TCDL 7.0	Lumber DOL	1.25	BC 0.41	Vert(CT)	-0.08	8-23	>999	180			
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.02	2	n/a	n/a			
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS								
									Weight: 73 lb	FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 5-7-2 oc bracing.
WEBS	2x4 SP No.3		
OTHERS	2x4 SP No.3		

REACTIONS.		(size) 2=0-3-8, 6=0-3-8
		Max Horz 2=-57(LC 13)
		Max Uplift 2=-144(LC 9), 6=-144(LC 8)
		Max Grav 2=584(LC 1), 6=584(LC 1)

FORCES.		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-633/839, 4-6=-633/838	
BOT CHORD	2-8=-977/706, 6-8=-977/706	
WEBS	4-8=-434/276	

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-9-8, Corner(3R) 6-9-8 to 9-9-8, Exterior(2N) 9-9-8 to 15-1-0 zone; 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.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=144, 6=144.



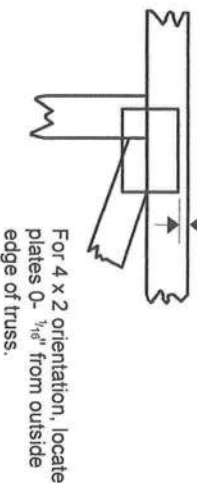
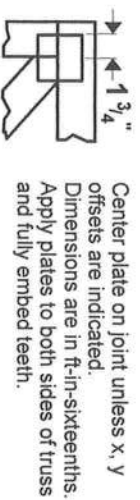
Phillip J. O'Regan PE No.58126
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date: August 6, 2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK 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



Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.

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

PLATE SIZE

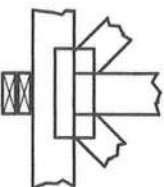
4 X 4

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

LATERAL BRACING LOCATION



BEARING

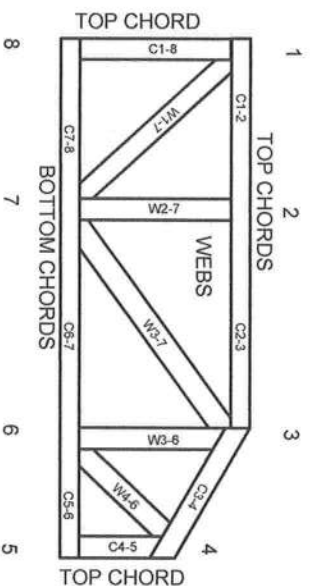


Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MiTek Engineering Reference Sheet: MIL-7473 rev. 5/19/2020

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.