



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

73

RE: 2708556 - CORNERSTONE - SPEC HSE

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Cornerston Dev. Project Name: Spec Hse Model: 1730
Lot/Block: TBD Subdivision: Emerald Cove
Address: TBD, TBD
City: Columbia Cty State: FL

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

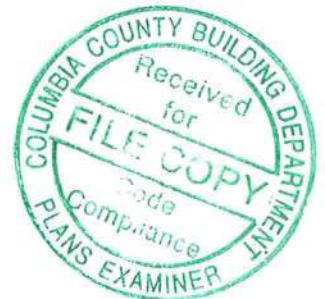
Name: License #:
Address: State:
City:

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: N/A Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 35 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	No.	Seal#	Truss Name	Date
1	T23189386	CJ01	3/12/21	23	T23189408	T14	3/12/21
2	T23189387	CJ03	3/12/21	24	T23189409	T15	3/12/21
3	T23189388	CJ03A	3/12/21	25	T23189410	T16	3/12/21
4	T23189389	CJ05	3/12/21	26	T23189411	T17	3/12/21
5	T23189390	CJ05A	3/12/21	27	T23189412	T18	3/12/21
6	T23189391	EJ01	3/12/21	28	T23189413	T19	3/12/21
7	T23189392	HJ10	3/12/21	29	T23189414	T20	3/12/21
8	T23189393	PB01	3/12/21	30	T23189415	T21	3/12/21
9	T23189394	PB02	3/12/21	31	T23189416	T22	3/12/21
10	T23189395	T01	3/12/21	32	T23189417	T23	3/12/21
11	T23189396	T02	3/12/21	33	T23189418	T24	3/12/21
12	T23189397	T03	3/12/21	34	T23189419	T25	3/12/21
13	T23189398	T04	3/12/21	35	T23189420	T26	3/12/21
14	T23189399	T05	3/12/21				
15	T23189400	T06	3/12/21				
16	T23189401	T07	3/12/21				
17	T23189402	T08	3/12/21				
18	T23189403	T09	3/12/21				
19	T23189404	T10	3/12/21				
20	T23189405	T11	3/12/21				
21	T23189406	T12	3/12/21				
22	T23189407	T13	3/12/21				



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-Jacksonville.

Truss Design Engineer's Name: Finn, Walter

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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 12,2021

Finn, Walter

1 of 1

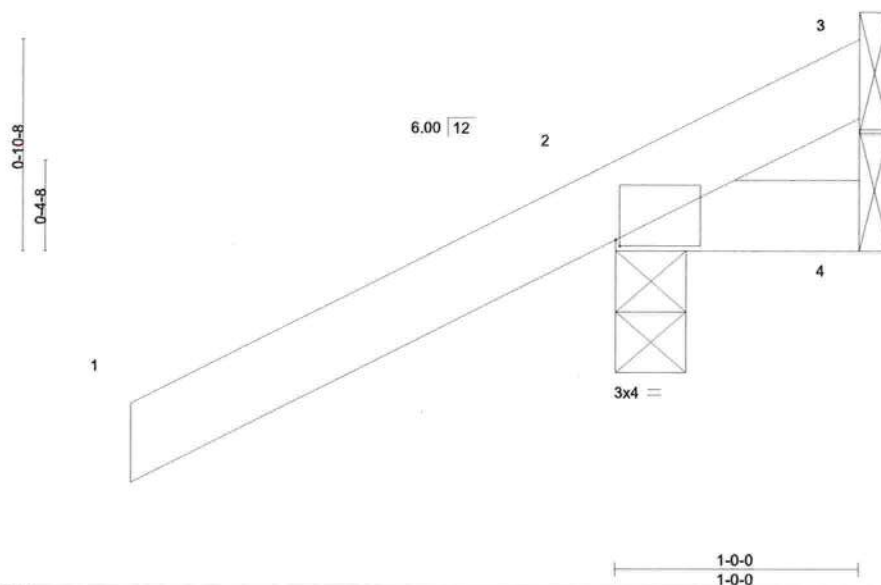


Plate Offsets (X,Y)--		[2:0-0-3,0-0-5]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.25	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MP							Weight: 7 lb	FT = 20%

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=46(LC 12)
Max Uplift 3=-27(LC 1), 2=-102(LC 12), 4=-46(LC 1)
Max Grav 3=16(LC 16), 2=254(LC 1), 4=29(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCp1=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=102.

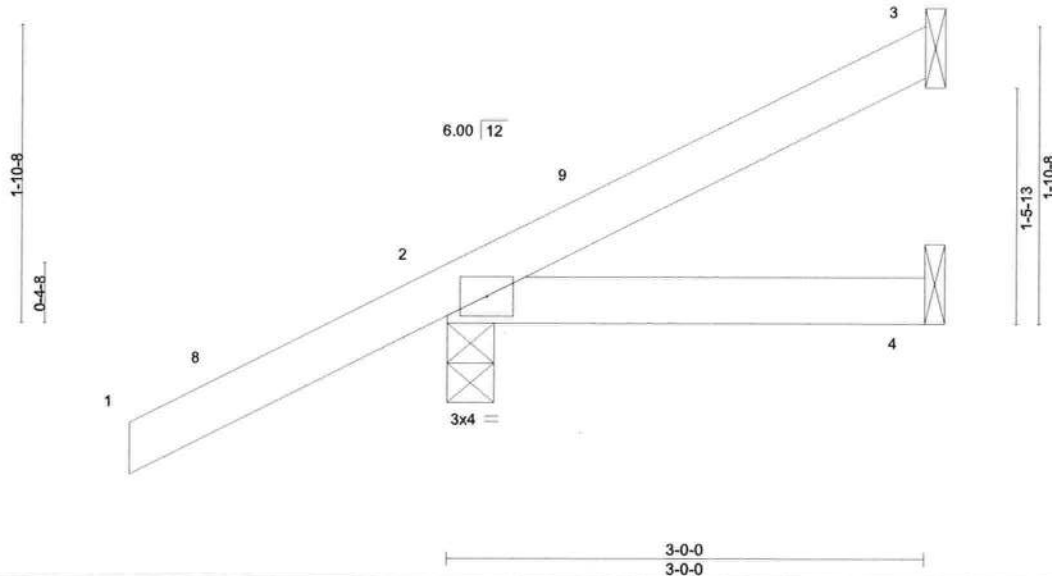


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March 12

ID	Truss	Truss type	Qty	Qty	CORNERSTONE - SPEC RISE	
708556	CJ03	Jack-Open	9	1		T23189387
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,						8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:04 2021 Page 1
Job Reference (optional)						ID:AjzVsb3ebOuTU0dDpDnkV5zcOdh-OL62?xKGi7DiUAVg_oq?cCaD9WYWT6Kz5xFOrRzbfr
-2-0-0			3-0-0			
2-0-0			3-0-0			

Scale = 1:14.6



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 0.25	Vert(LL)	-0.00	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	-0.01	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP							
									Weight: 13 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=80(LC 12)
Max Uplift 3=-31(LC 12), 2=-76(LC 12)
Max Grav 3=52(LC 1), 2=253(LC 1), 4=48(LC 3)

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

NOTES-

- 1) 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



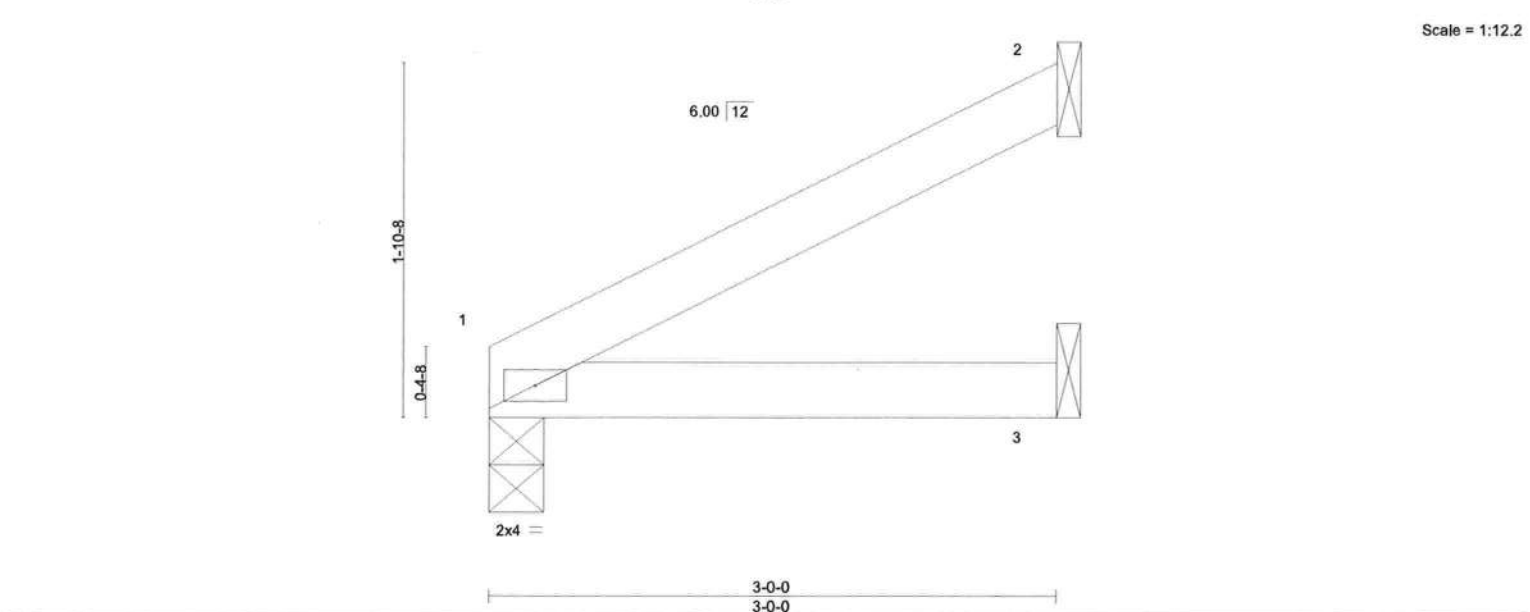
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Date:

March 12

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



6904 Parke East Blvd.
Tampa, FL 33610



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 0.10	Vert(LL) 0.01 3-6 >999 240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.09	Vert(CT) -0.01 3-6 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 1 n/a n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP			
				Weight: 10 lb	FT = 20%

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

REACTIONS. (size) 1=0-3-8, 2=Mechanical, 3=Mechanical
 Max Horz 1=51(LC 12)
 Max Uplift 1=-16(LC 12), 2=-40(LC 12), 3=-3(LC 12)
 Max Grav 1=109(LC 1), 2=69(LC 1), 3=53(LC 3)

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

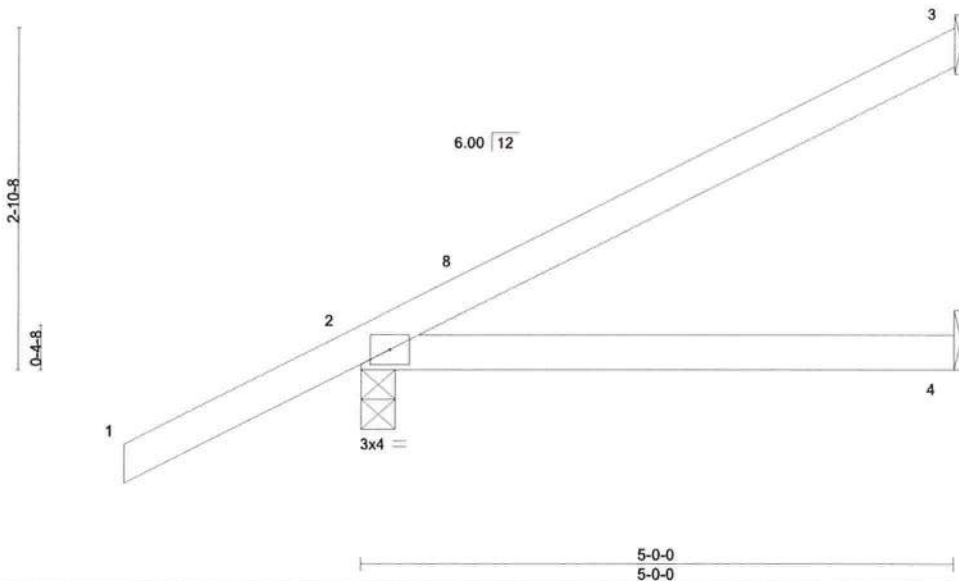
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building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



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ID	Truss	Truss Type	Qty	Flt	CORNERSTONE - SPEC RISE	
708556	CJ05	Jack-Open	9	1		T23189389
Job Reference (optional)						
Builders FirstSource (Jacksonville, FL),		Jacksonville, FL - 32244,		8,430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:09 2021 Page 1		
		-2-0-0 2-0-0		ID: AjzVsb3ebOuTU0dDpDnkV5zcOdh-kJvx3fOPXgr9bxNdmLPAIF3qXDD8MaiFDz9Wezbzm		
				5-0-0 5-0-0		



Scale = 1:19.5

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 0.26	Vert(LL)	0.03	4-7	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.23	Vert(CT)	-0.05	4-7	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 19 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
Max Horz 2=114(LC 12)
Max Uplift 3=-64(LC 12), 2=-80(LC 12)
Max Grav 3=108(LC 1), 2=313(LC 1), 4=87(LC 3)

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

- NOTES-**
- 1) 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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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



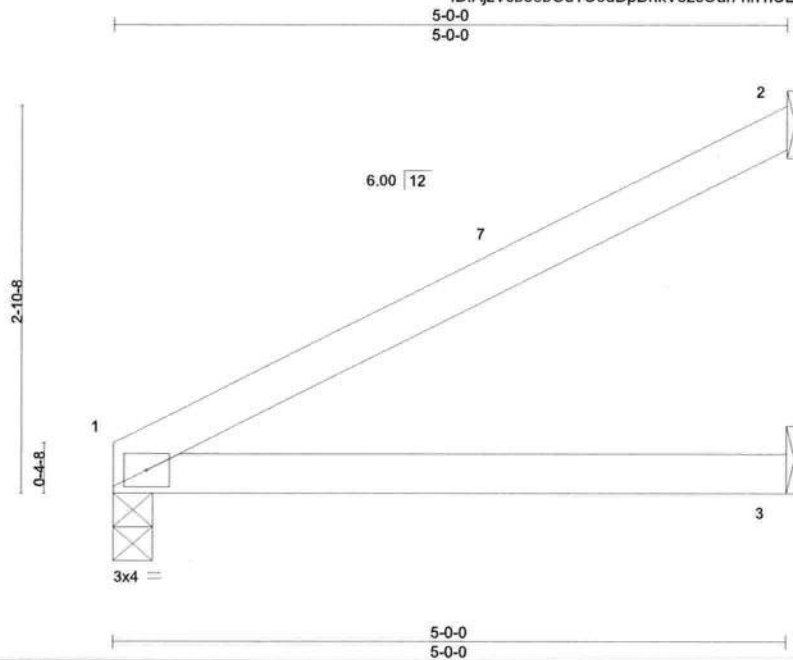
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss type	City	Fly	CORNERSTONE - SPEC USE	T23189390
2708556	CJ05A	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:11 2021 Page 1

ID: AjzVsb3ebOuTU0dDpDnkV5zcOdh-hh1IULPf3H5tqFX0umSeOgNPWKvKcG37IXSGbXzbfzk



Scale = 1:17.2

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 0.31	Vert(LL)	0.04	3-6	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.25	Vert(CT)	-0.06	3-6	>975	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	1	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MP						Weight: 16 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 1=0-3-8, 2=Mechanical, 3=Mechanical
Max Horz 1=85(LC 12)
Max Uplift 1=-27(LC 12), 2=-70(LC 12), 3=-2(LC 12)
Max Grav 1=183(LC 1), 2=118(LC 1), 3=90(LC 3)

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

NOTES-

- 1) 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 3-0-0, Interior(1) 3-0-0 to 4-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3'-6" tall by 2'-0" wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 2, 3.



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MiTek

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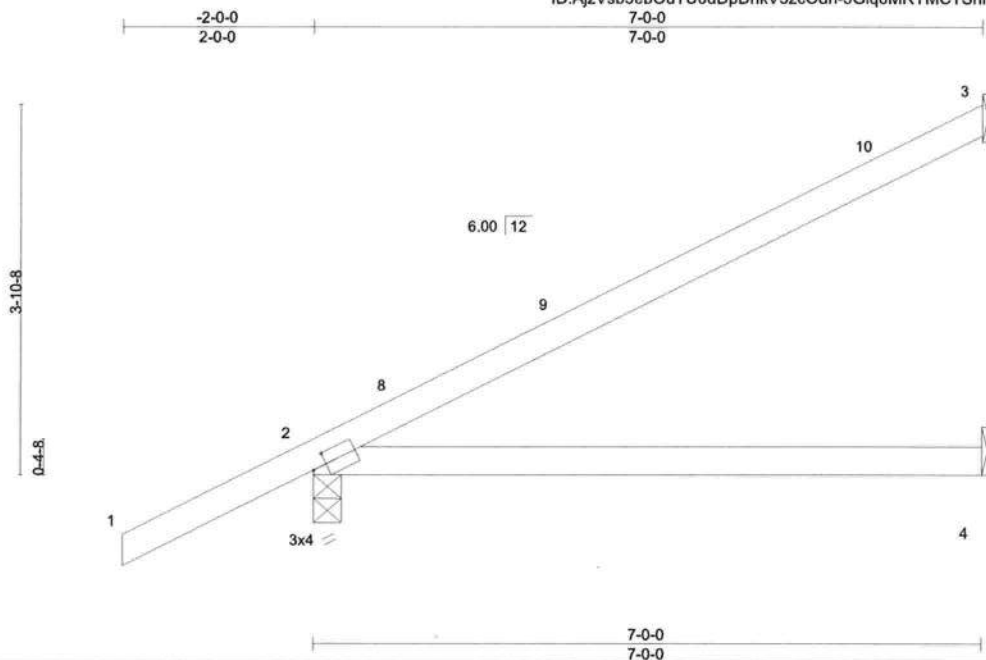


Plate Offsets (X,Y)-- [2:0-1-13,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	L/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.60	Vert(LL)	0.10	4-7	>876	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.51	Vert(CT)	-0.21	4-7	>393	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 26 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical
 Max Horz 2=144(LC 12)
 Max Uplift 3=-84(LC 12), 2=-90(LC 12)
 Max Grav 3=160(LC 1), 2=380(LC 1), 4=125(LC 3)

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

NOTES-

- 1) 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.

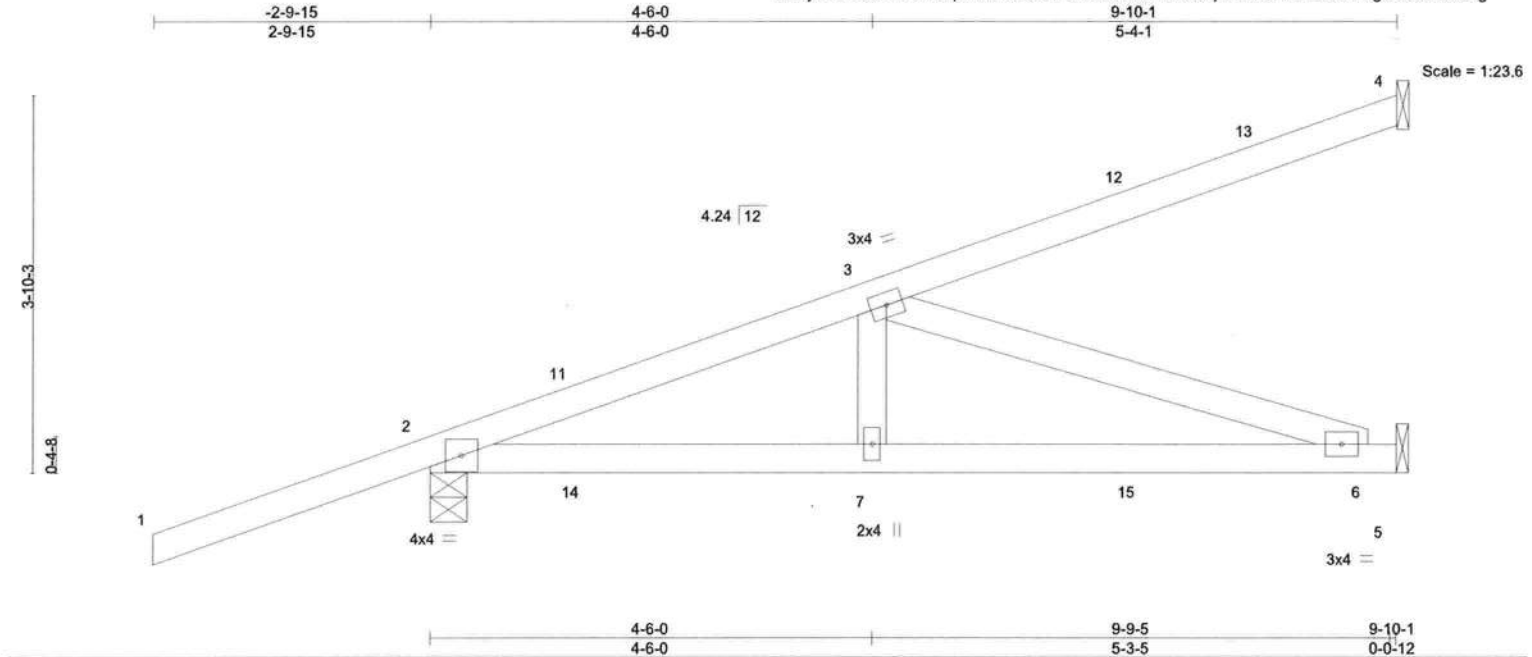


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 Date:

March 12

JOID	TRUSS	TRUSS TYPE	Qty	Qty	CORNERSTONE - SPEC NAME	T23189392
2708556	HJ10	Diagonal Hip Girder	5	1		

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:15 2021 Page 1
 ID: AjzVsb3ebOuTU0dDpDnkV5zcOdh-ZTGDJISA7WbJJsqn7cWaYWY?BxAlY?gbd9QTKlzbfg



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.59	Vert(LL)	-0.05	6-7	>999	240	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.61	Vert(CT)	-0.12	6-7	>967	180		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.35	Horz(CT)	0.01	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS							
	Code FBC2020/TPI2014							Weight: 44 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 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 4=Mechanical, 2=0-4-9, 5=Mechanical
 Max Horz 2=160(LC 4)
 Max Uplift 4=-79(LC 4), 2=-168(LC 4), 5=-43(LC 8)
 Max Grav 4=150(LC 1), 2=463(LC 1), 5=266(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-672/142
 BOT CHORD 2-7=-180/581, 6-7=-180/581
 WEBS 3-6=-611/190

- NOTES-**
- 1) 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; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 5 except (jt=lb) 2=168.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 103 lb up at 1-6-1, 56 lb down and 103 lb up at 1-6-1, 62 lb down and 33 lb up at 4-4-0, 62 lb down and 33 lb up at 4-4-0, and 41 lb down and 75 lb up at 7-1-15, and 41 lb down and 75 lb up at 7-1-15 on top chord, and 21 lb down and 74 lb up at 1-6-1, 21 lb down and 74 lb up at 1-6-1, 24 lb down and 2 lb up at 4-4-0, 24 lb down and 2 lb up at 4-4-0, and 42 lb down at 7-1-15, and 42 lb down at 7-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)
 Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb)
 Vert: 7=5(F=2, B=2) 11=50(F=25, B=25) 12=-64(F=-32, B=-32) 14=70(F=35, B=35) 15=-49(F=-24, B=-24)



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 Date:

March 12

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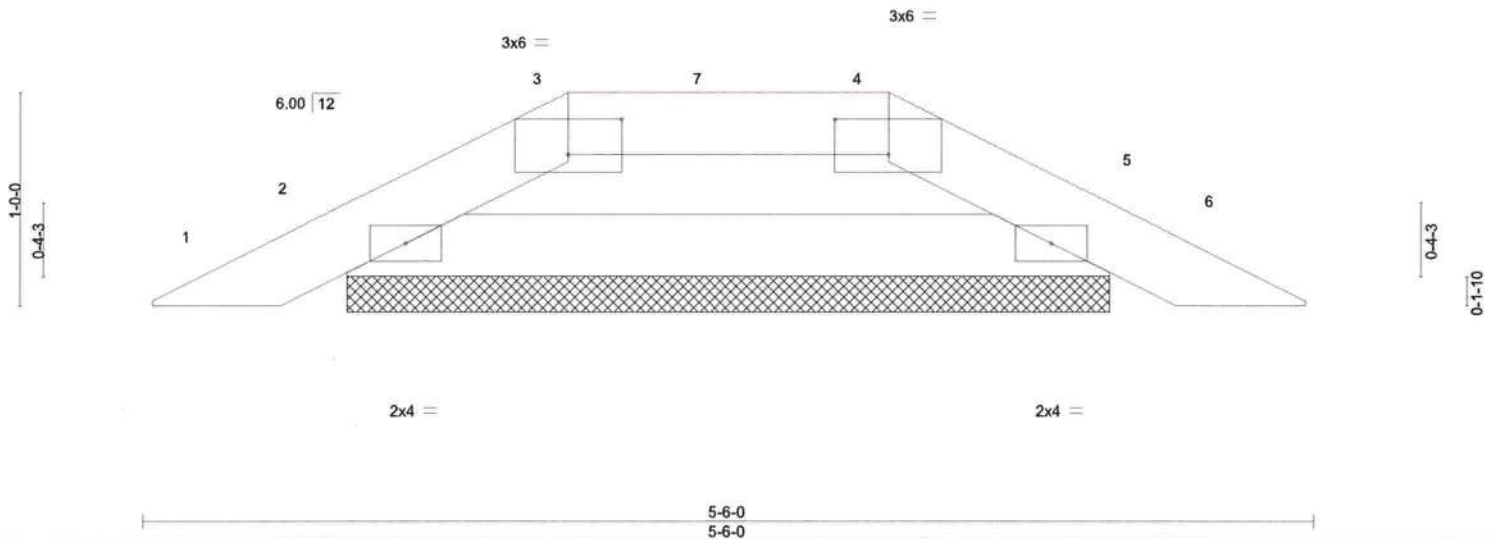
MiTek
 6904 Parke East Blvd.
 Tampa, FL 36610

ID	Truss	Truss Type	Qty	Plt	CORNERSTONE - SPEC USE	
2708556	PB01	Piggyback	2	1		T23189393

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:16 2021 Page 1
ID: AjzVsb3ebOuTU0dDpDnkV5zcOdh-1fqbX2ToupkAw0PzhJ1p5k4JOLeHXIksp91Gkzbfzf

2-0-0	3-6-0	5-6-0
2-0-0	1-6-0	2-0-0

Scale = 1:10.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.04	Vert(LL)	0.00	MT20	244/190		
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00				
BCDL	10.0	Code	FBC2020/TPI2014	Matrix-R							
								Weight: 14 lb		FT = 20%	

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 2=3-6-14, 5=3-6-14
Max Horz 2=13(LC 12)
Max Uplift 2=-42(LC 12), 5=-42(LC 13)
Max Grav 2=165(LC 1), 5=165(LC 1)

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=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) zone; 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) Provide adequate drainage to prevent water ponding.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
 - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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ID	Truss	Truss type	Qty	Plt	CORNERSTONE - SPEC RSE	
2708556	PB02	Piggyback	2	1		T23189394
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,						8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:17 2021 Page 1
						ID: AjzVsb3ebOuTU0dDpDnkV5zcOdH-VrOzkOUQ7s1YA_AE1Y2dxUvzG0_Yt5TvaoBzbzfe
						Job Reference (optional)
						2-9-0 5-6-0 2-9-0

Scale = 1:10.9

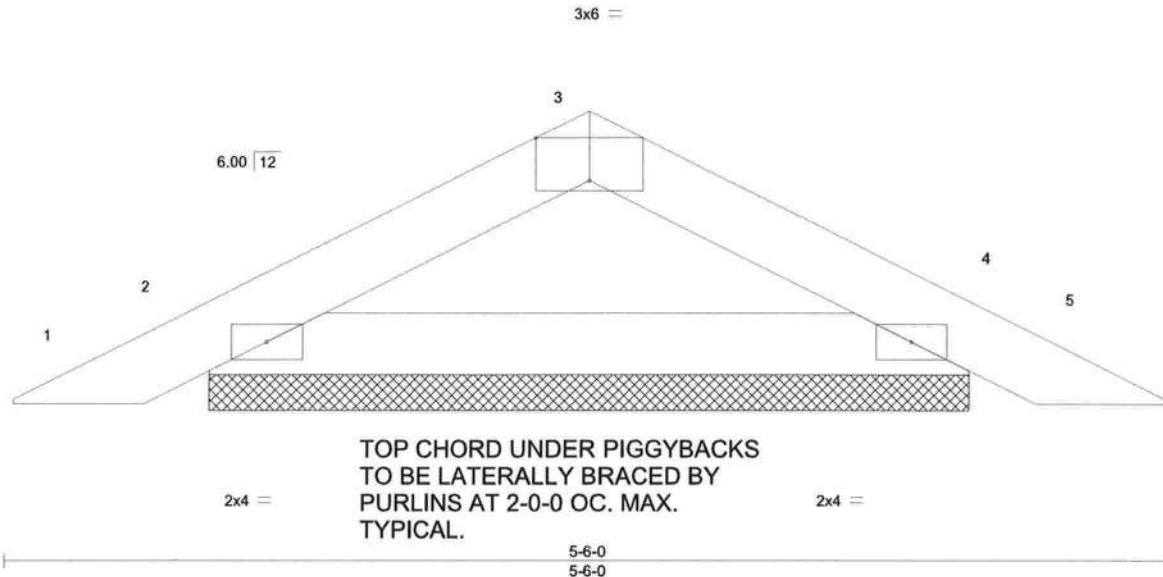


Plate Offsets (X,Y)-- [3:0-3-0,Edge]

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 0.06	Vert(LL) 0.00	4	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.15	Vert(CT) 0.00	4	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P					Weight: 14 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

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

REACTIONS. (size) 2=3-6-14, 4=3-6-14
Max Horz 2=18(LC 12)
Max Uplift 2=-41(LC 12), 4=-41(LC 13)
Max Grav 2=165(LC 1), 4=165(LC 1)

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=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) zone; 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) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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6904 Parke East Blvd.
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JOB	TRUSS	TRUSS TYPE	Qty	Ply	CORNERSTONE - SPEC RISE	T23189395
708556	T01	Hip Girdler	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:19 2021 Page 1

ID: AjzVsb3ebOuTU0dDpDnkV5zcOdh-SEWj94VhAk6lnT8YMSbWiMimPYY2UpIAYnOht3zbfzc

-2-0-0	3-10-15	7-0-0	10-6-0	14-0-0	17-1-1	20-11-8
2-0-0	3-10-15	3-1-1	3-6-0	3-6-0	3-1-1	3-10-7

Scale = 1:38.2

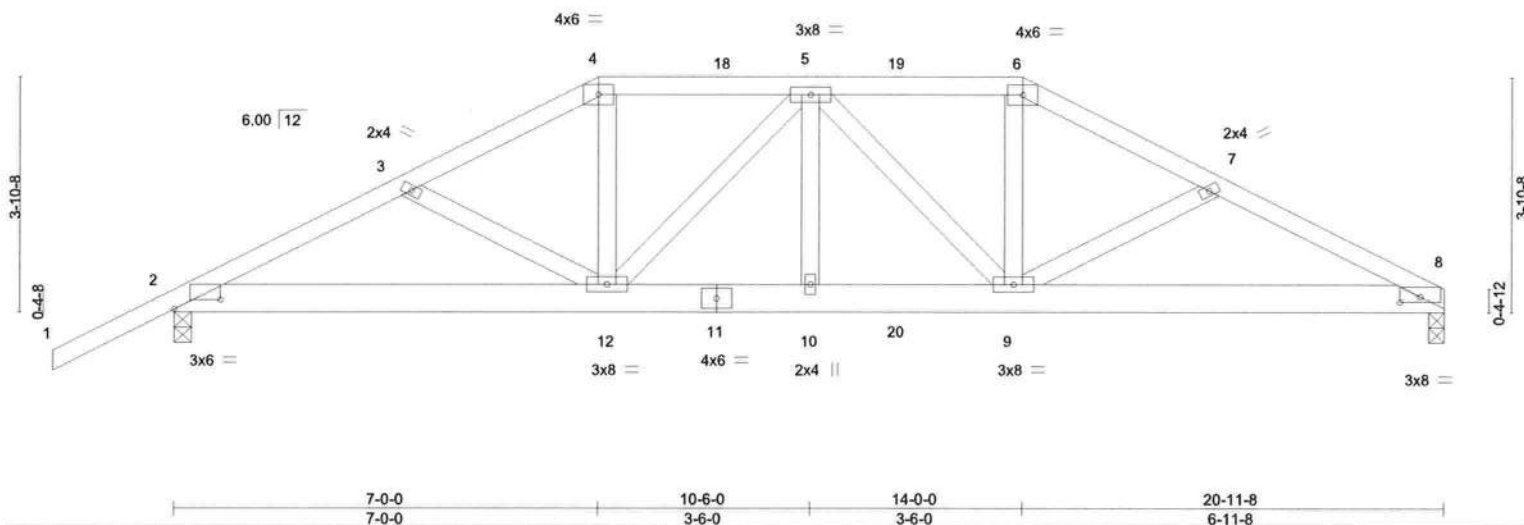


Plate Offsets (X,Y)-- [2:0-9-3,0-1-14], [8:0-4-0,0-1-1]

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 0.32	Vert(LL)	-0.10	10	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.58	Vert(CT)	-0.18	10	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.33	Horz(CT)	0.06	8	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 124 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-1-14 oc bracing.

REACTIONS. (size) 8=0-3-0, 2=0-3-8
Max Horz 2=82(LC 8)
Max Uplift 8=-367(LC 9), 2=-405(LC 8)
Max Grav 8=1461(LC 1), 2=1553(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2850/725, 3-4=-2667/673, 4-5=-2392/630, 5-6=-2444/652, 6-7=-2737/700, 7-8=-2914/757
BOT CHORD 2-12=-655/2517, 10-12=-652/2717, 9-10=-652/2717, 8-9=-634/2584
WEBS 4-12=-148/869, 5-12=-523/198, 5-9=-447/135, 6-9=-113/827

- 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; 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=367, 2=405.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 81 lb up at 10-6-0, and 106 lb down and 88 lb up at 11-11-4, and 227 lb down and 174 lb up at 14-0-0 on top chord, and 294 lb down and 70 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 10-6-0, and 85 lb down at 11-11-4, and 294 lb down and 70 lb up at 13-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 6-8=-54, 2-13=-20

Continued on page 2



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March 12

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - SPEC NOTE	
2708556	T01	Hip Girder	1	1	Job Reference (optional)	T23189395
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,			8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:19 2021 Page 2			
ID:AjzVsb3ebOuTU0dDpDnkV5zcOdh-SEWj94VhAk6lnT8YMSbWiMimPYY2UptAYnOht3zbfzc						

LOAD CASE(S) Standard
 Concentrated Loads (lb)
 Vert: 4=-106(F) 6=-180(F) 11=-61(F) 12=-284(F) 10=-61(F) 5=-106(F) 9=-284(F) 18=-106(F) 19=-106(F) 20=-61(F)

-2-0-0 4-9-8 9-0-0 12-0-0 16-2-8 20-11-8
 2-0-0 4-9-8 4-2-8 3-0-0 4-2-8 4-9-0

Scale = 1:37.4

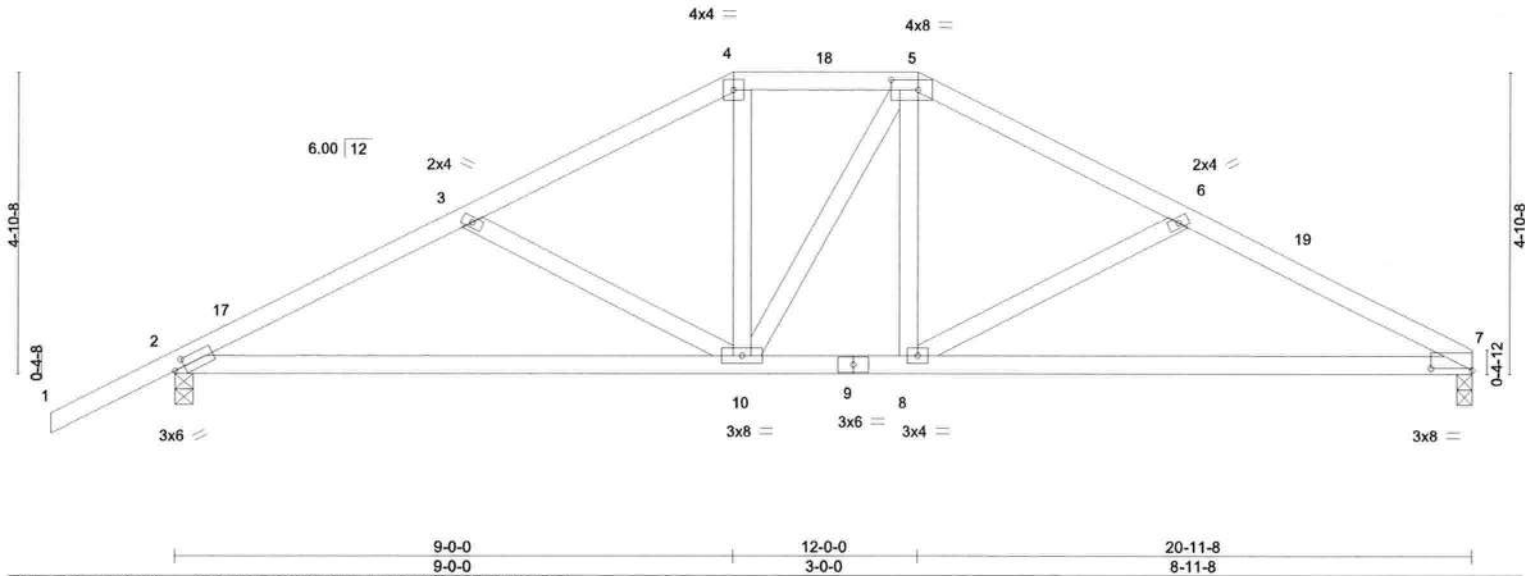


Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [5:0-5-4,0-2-0], [7:0-8-0,0-0-5]

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 0.42	Vert(LL)	-0.15 10-16	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.67	Vert(CT)	-0.31 8-13	>816	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.03 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 104 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 4-9-15 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 7=0-3-0, 2=0-3-8
 Max Horz 2=97(LC 12)
 Max Uplift 7=-162(LC 13), 2=-208(LC 12)
 Max Grav 7=770(LC 1), 2=889(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1307/336, 3-4=-1041/269, 4-5=-885/271, 5-6=-1047/272, 6-7=-1324/335
 BOT CHORD 2-10=-270/1144, 8-10=-130/888, 7-8=-254/1164
 WEBS 3-10=-304/164, 4-10=-42/300, 5-8=-53/301, 6-8=-324/176

- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2E) 9-0-0 to 12-0-0, Exterior(2R) 12-0-0 to 16-4-7, Interior(1) 16-4-7 to 20-11-8 zone; 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=162, 2=208.



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March 12

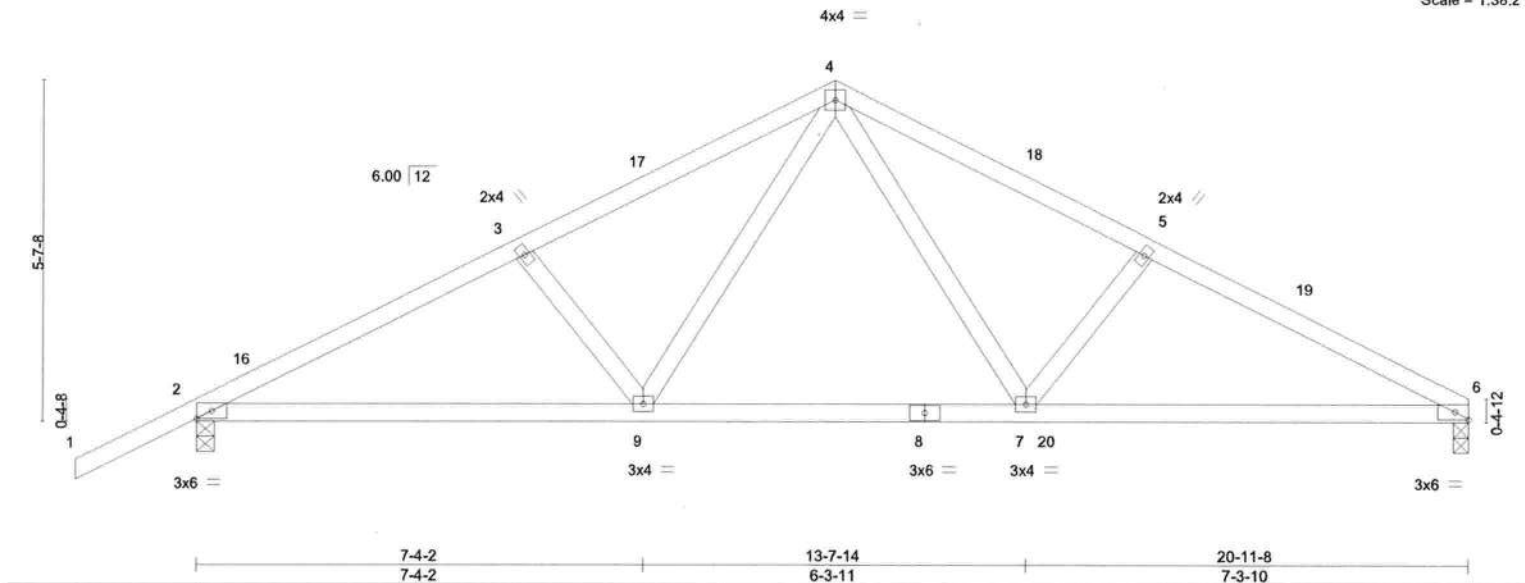
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:20 2021 Page 1

ID: AjzVsb3ebOuTU0dDpDnkV5zcOdH-wQ46MQWJx2EcPdjw96IFaFwlyqRDHCKnR7EPWzbfzb



Scale = 1:38.2



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 0.34	Vert(LL)	-0.15	7-9	>999	240	MT20
TCDL 7.0	Lumber DOL	1.25	BC 0.83	Vert(CT)	-0.28	7-9	>909	180	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.26	Horz(CT)	0.04	6	n/a	n/a	
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						

Weight: 97 lb FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-12 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-2-3 oc bracing.

REACTIONS. (size) 6=0-3-0, 2=0-3-8
 Max Horz 2=108(LC 12)
 Max Uplift 6=-215(LC 13), 2=-259(LC 12)
 Max Grav 6=974(LC 1), 2=1085(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1777/502, 3-4=-1614/494, 4-5=-1640/510, 5-6=-1804/519
 BOT CHORD 2-9=-400/1538, 7-9=-218/1061, 6-7=-408/1566
 WEBS 4-7=-194/690, 5-7=-274/173, 4-9=-173/647, 3-9=-264/166

- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 10-6-0, Exterior(2R) 10-6-0 to 13-6-0, Interior(1) 13-6-0 to 20-11-8 zone; 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) 6=215, 2=259.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 4-6=-54, 9-13=-20, 9-20=-80(F=-60), 10-20=-20



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 Date:

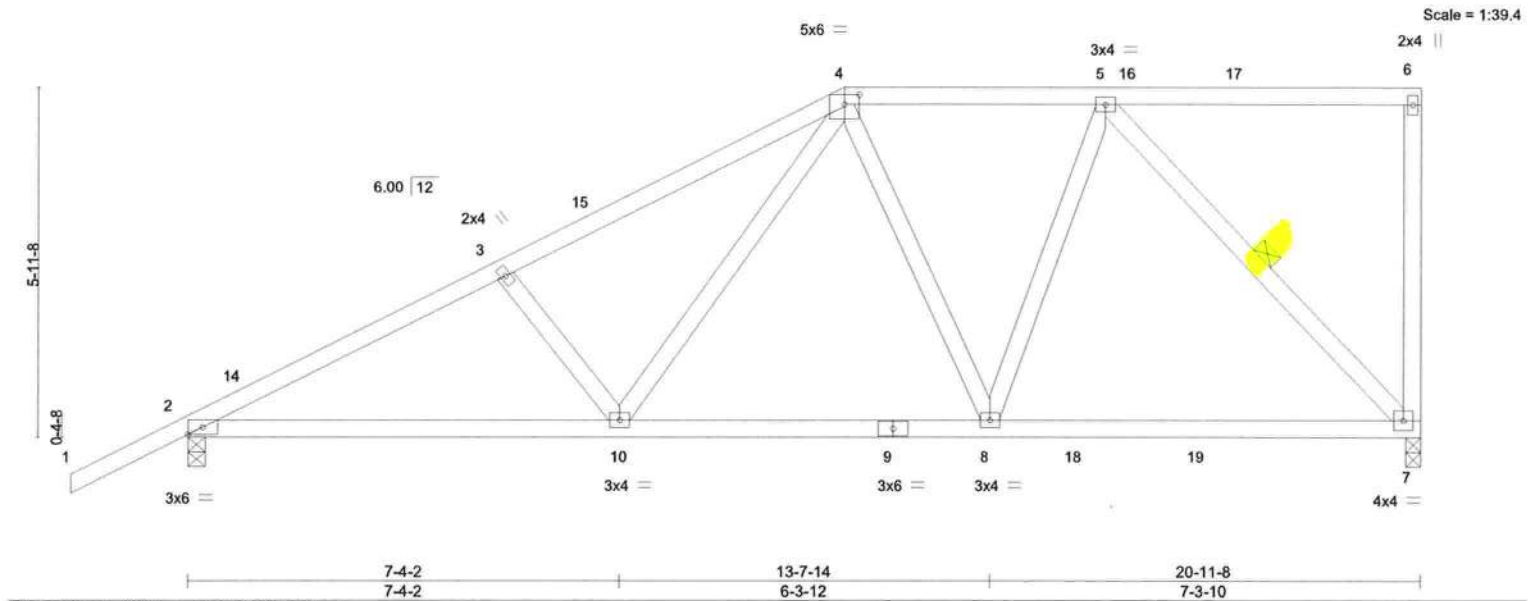
March 12

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



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-2-0-0 5-4-11 11-2-0 15-7-5 20-11-8
2-0-0 5-4-11 5-9-5 4-5-5 5-4-3



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 0.51	Vert(LL)	-0.13 8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.84	Vert(CT)	-0.25 8-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.37	Horz(CT)	0.04 7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 119 lb	FT = 20%

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

REACTIONS. (size) 7=0-3-0, 2=0-3-8
Max Horz 2=222(LC 12)
Max Uplift 7=235(LC 9), 2=269(LC 12)
Max Grav 7=1007(LC 2), 2=1084(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1768/419, 3-4=-1629/408, 4-5=-946/245
BOT CHORD 2-10=-511/1547, 8-10=-294/992, 7-8=-202/751
WEBS 3-10=-286/180, 4-10=-194/743, 5-8=-131/621, 5-7=-1090/301

- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-2-0, Exterior(2R) 11-2-0 to 15-7-5, Interior(1) 15-7-5 to 20-9-12 zone; 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=235, 2=269.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

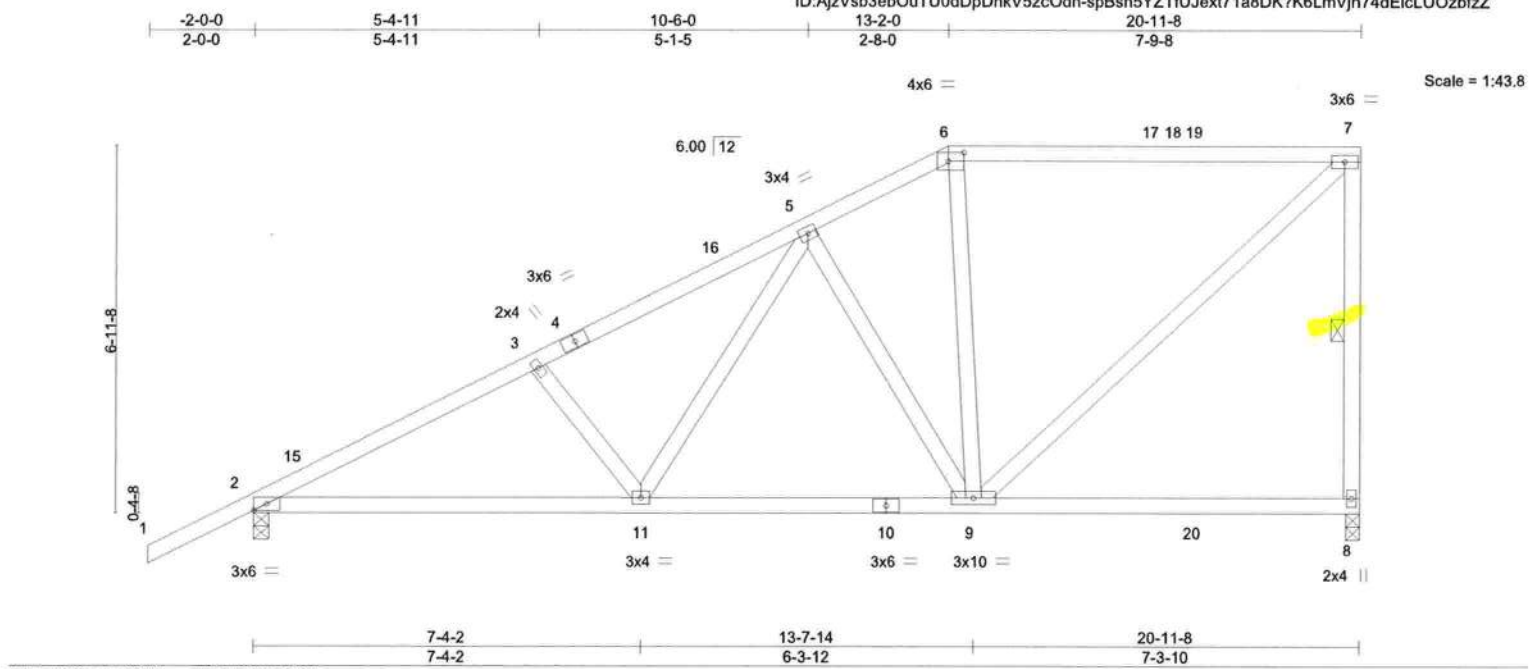
LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 4-6=-54, 10-11=-20, 8-10=-80(F=-60), 7-8=-20



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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.97	Vert(LL)	-0.14 9-11 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(CT)	-0.25 9-11 >994 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.56	Horz(CT)	0.03 8 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
								Weight: 123 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-1-5 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 7-8

REACTIONS. (size) 8=0-3-0, 2=0-3-8
 Max Horz 2=257(LC 12)
 Max Uplift 8=-243(LC 12), 2=-262(LC 12)
 Max Grav 8=1025(LC 2), 2=1080(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1754/397, 3-5=-1619/387, 5-6=-905/239, 6-7=-804/230, 7-8=-909/282
 BOT CHORD 2-11=-524/1532, 9-11=-340/1050
 WEBS 3-11=-255/160, 5-11=-170/695, 5-9=-527/213, 7-9=-310/1070

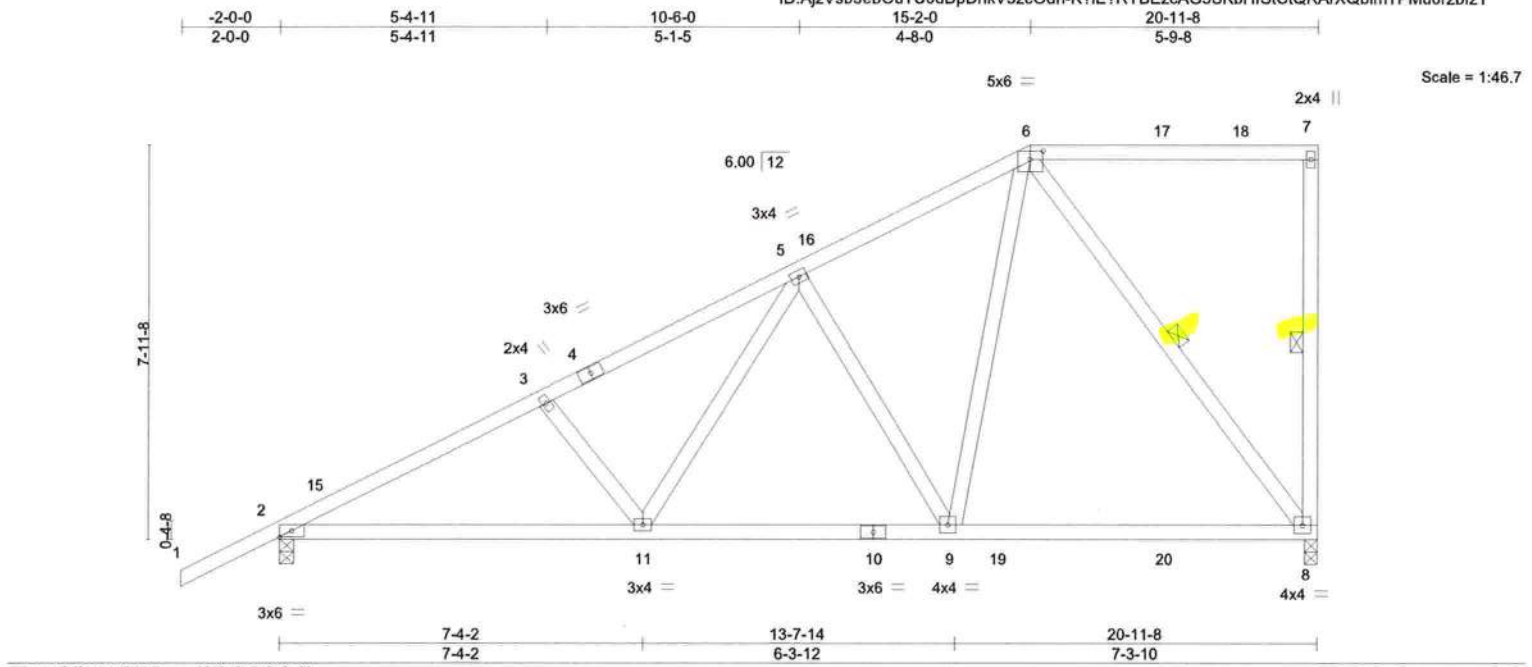
- NOTES-**
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-2-0, Exterior(2R) 13-2-0 to 17-4-15, Interior(1) 17-4-15 to 20-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=243, 2=262.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-6=-54, 6-7=-54, 11-12=-20, 9-11=-80(F=-60), 8-9=-20



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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.45	Vert(LL)	-0.14 8-9 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.87	Vert(CT)	-0.25 9-11 >999 180				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.47	Horz(CT)	0.04 8 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
								Weight: 127 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-3-13 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-0-6 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 7-8, 6-8

REACTIONS. (size) 8=0-3-0, 2=0-3-8
 Max Horz 2=291(LC 12)
 Max Uplift 8=-264(LC 12), 2=-252(LC 12)
 Max Grav 8=1021(LC 2), 2=1087(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1765/373, 3-5=-1632/364, 5-6=-929/226
 BOT CHORD 2-11=-536/1541, 9-11=-360/1072, 8-9=-185/594
 WEBS 5-11=-165/680, 5-9=-588/254, 6-9=-234/1000, 6-8=-982/312

- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-2-0, Exterior(2R) 15-2-0 to 19-4-15, Interior(1) 19-4-15 to 20-9-12 zone; 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=264, 2=252.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-6=-54, 6-7=-54, 11-12=-20, 9-11=-80(F=-60), 8-9=-20



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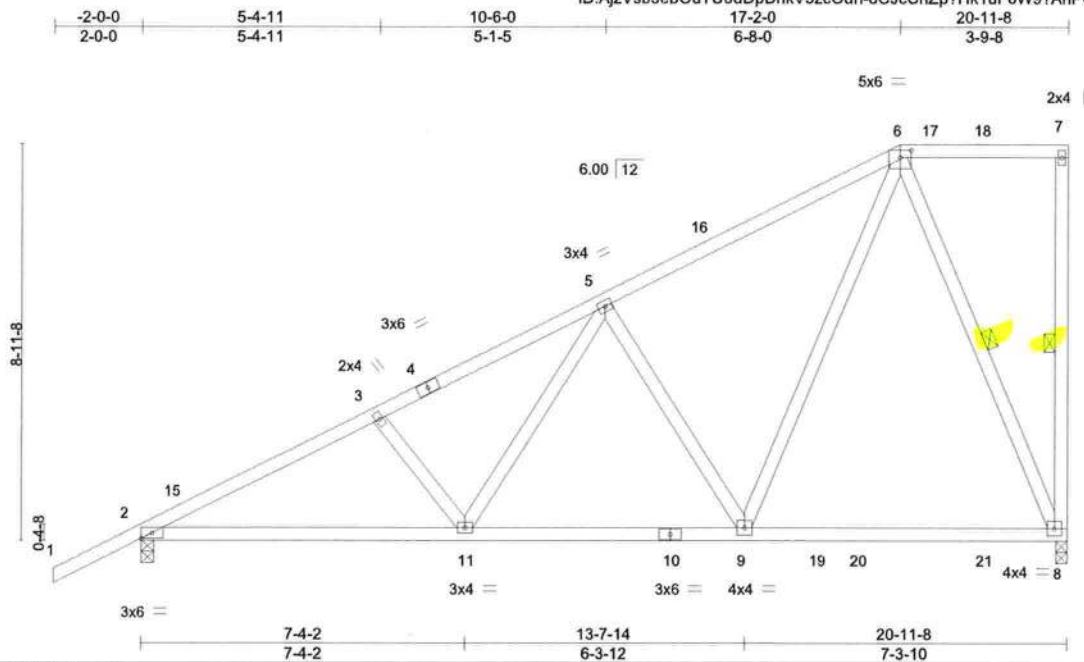


Plate Offsets (X, Y) -- [6.0-3.0-0.0-2.0]

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 0.49	Vert(LL)	-0.15	8-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.98	Vert(CT)	-0.24	9-11	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.53	Horz(CT)	0.03	8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 131 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-10-7 oc bracing.
 WEBS 1 Row at midpt 7-8, 6-8

REACTIONS. (size) 8=0-3-0, 2=0-3-8
 Max Horz 2=325(LC 12)
 Max Uplift 8=-316(LC 12), 2=-250(LC 12)
 Max Grav 8=1101(LC 2), 2=1117(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1833/363, 3-5=-1704/358, 5-6=-1008/237
 BOT CHORD 2-11=-561/1599, 9-11=-401/1151, 8-9=-135/390
 WEBS 5-11=-149/652, 5-9=-645/290, 6-9=-314/1208, 6-8=-986/351

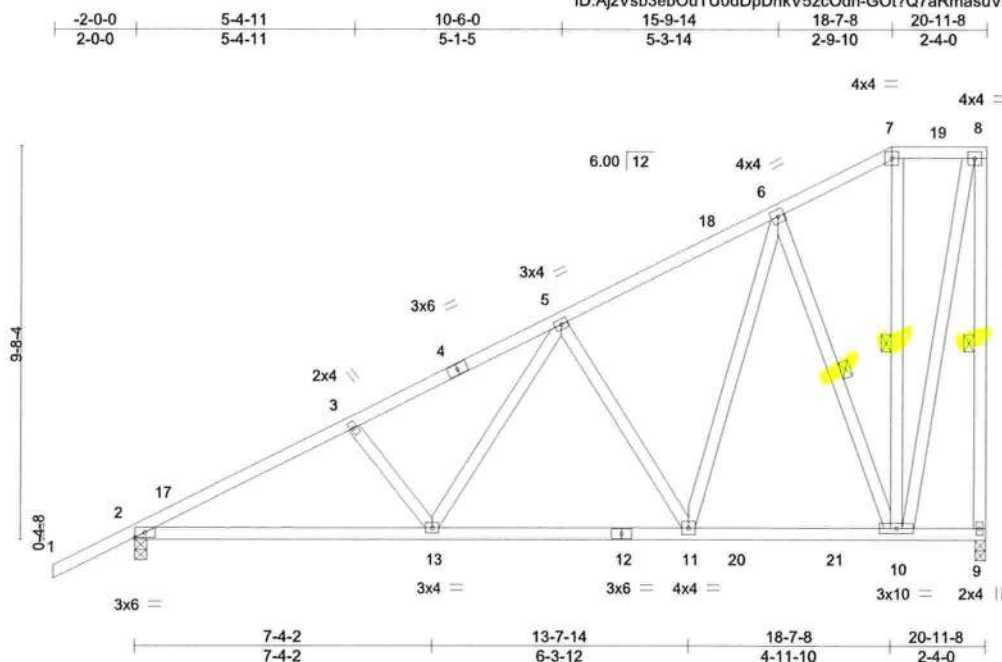
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-2-0, Exterior(2E) 17-2-0 to 20-9-12 zone; 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=316, 2=250.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-6=-54, 6-7=-54, 11-12=-20, 11-20=-80(F=-60), 8-20=-20



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Scale = 1:57.0

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 0.32	Vert(LL)	-0.13 11-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.85	Vert(CT)	-0.26 11-13	>952	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.51	Horz(CT)	0.03 9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 156 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 7-11-2 oc bracing.
 WEBS 1 Row at midpt 8-9, 6-10, 7-10

REACTIONS. (size) 9=0-3-0, 2=0-3-8
 Max Horz 2=351(LC 12)
 Max Uplift 9=314(LC 12), 2=-230(LC 12)
 Max Grav 9=1011(LC 2), 2=1085(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1780/324, 3-5=-1648/316, 5-6=-920/184, 6-7=-266/58, 8-9=-970/303
 BOT CHORD 2-13=-552/1552, 11-13=-380/1075, 10-11=-180/517
 WEBS 5-13=-158/692, 5-11=-604/257, 6-11=-260/980, 6-10=-917/337, 8-10=-293/940

- NOTES-**
- 1) 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 18-7-8, Exterior(2E) 18-7-8 to 20-9-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=314, 2=230.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-7=-54, 7-8=-54, 13-14=-20, 11-13=-80(F=-60), 9-11=-20



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JOB	TRUSS	TRUSS TYPE	Qty	Qty	CORNERSTONE - SPEC PAGE	T23189403
2708556	T09	Hip Girder	1	2	Job Reference (optional)	
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,			8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:33 2021 Page 1			
ID:AjzVsb3ebOuTU0dDpDnkV5zcOdh-1wM05sgT12tTtCFAOroHJH_UCNnm1yEmynQNFzbfzO						
-2-0-0	3-10-15	7-0-0	12-8-3	18-2-9	23-9-0	29-3-7
2-0-0	3-10-15	3-1-1	5-8-3	5-6-7	5-6-7	5-6-7
						5-6-7
						5-8-3
						3-1-1
						3-10-15
						2-0-0

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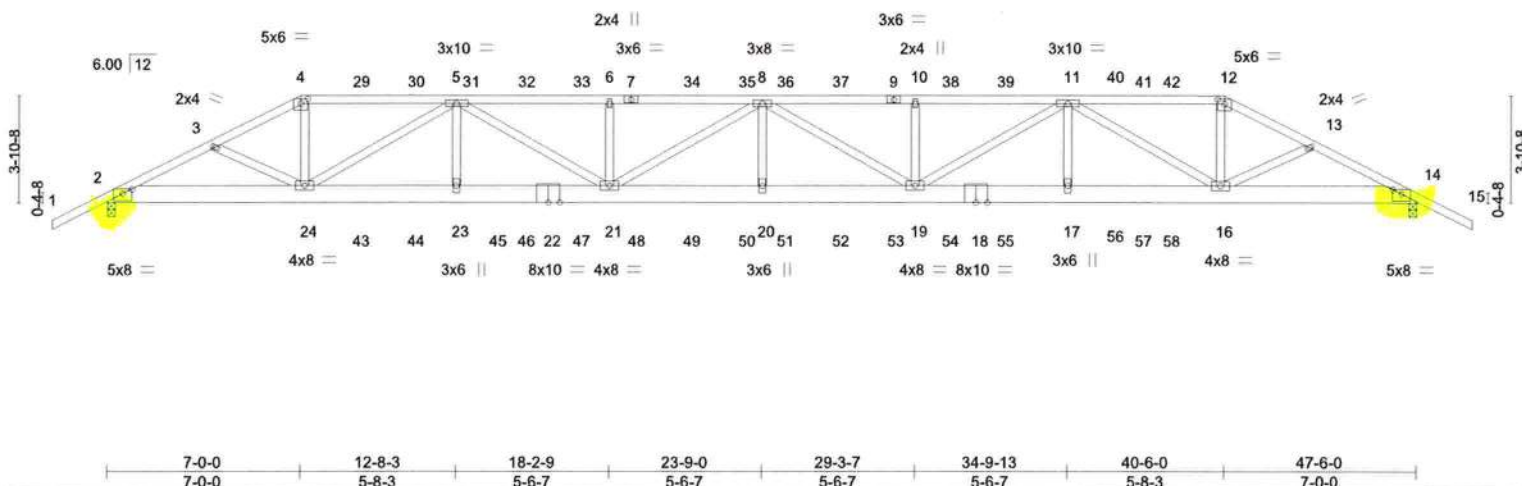


Plate Offsets (X,Y)-- [2:0-4-0,0-1-15], [4:0-3-0,0-2-0], [12:0-3-0,0-2-0], [14:0-4-0,0-1-15]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL 20.0		Plate Grip DOL 1.25		TC 0.98		Vert(LL) -0.59 20 >964 240		MT20	244/190
TCDL 7.0		Lumber DOL 1.25		BC 0.36		Vert(CT) -1.11 20 >510 180			
BCLL 0.0 *		Rep Stress Incr NO		WB 0.80		Horz(CT) 0.13 14 n/a n/a			
BCDL 10.0		Code FBC2020/TPI2014		Matrix-MS				Weight: 643 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.	(size) 2=0-3-8, 14=0-3-8
	Max Horz 2=67(LC 31)
	Max Uplift 2=-916(LC 8), 14=-943(LC 9)
	Max Grav 2=3600(LC 1), 14=3653(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-7256/1816, 3-4=-7155/1785, 4-5=-6499/1649, 5-6=-12109/3119, 6-8=-12109/3119, 8-10=-12143/3137, 10-11=-12143/3137, 11-12=-6600/1708, 12-13=-7268/1862, 13-14=-7368/1874
BOT CHORD	2-24=-1608/6427, 23-24=-2576/10232, 21-23=-2576/10232, 20-21=-3344/13173, 19-20=-3344/13173, 17-19=-2592/10301, 16-17=-2592/10301, 14-16=-1605/6528
WEBS	4-24=-591/2754, 5-24=-4411/1195, 5-23=0/611, 5-21=-591/2241, 6-21=-553/293, 8-21=-1276/391, 8-20=-13/730, 8-19=-1230/362, 10-19=-553/293, 11-19=-560/2190, 11-17=0/612, 11-16=-4369/1167, 12-16=-574/2731

- 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 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=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; 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=916, 14=943.



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Continued on page 2

March 12

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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6904 Parke East Blvd.
Tampa, FL 36610

ID	Truss	Truss Type	Qty	Qty	CORNERSTONE - SPEC. NO.	
2708556	T09	Hip Girder	1	2	Job Reference (optional)	T23189403

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:33 2021 Page 2

ID:AjzVsb3ebOuTU0dDpDnkV5zcOdh-1wM05sgT12ITdCFAOroHJH_UCNnm1yEmynQNFzbfzO

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 88 lb up at 13-0-12, 106 lb down and 88 lb up at 15-0-12, 106 lb down and 88 lb up at 17-0-12, 106 lb down and 88 lb up at 19-0-12, 106 lb down and 88 lb up at 21-0-12, 106 lb down and 86 lb up at 23-0-12, 106 lb down and 86 lb up at 24-5-4, 106 lb down and 88 lb up at 26-5-4, 106 lb down and 88 lb up at 28-5-4, 106 lb down and 88 lb up at 30-5-4, 106 lb down and 88 lb up at 32-5-4, 106 lb down and 88 lb up at 34-5-4, 106 lb down and 88 lb up at 36-5-4, and 106 lb down and 88 lb up at 38-5-4, and 227 lb down and 174 lb up at 40-6-0 on top chord, and 294 lb down and 70 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, 85 lb down at 23-0-12, 85 lb down at 24-5-4, 85 lb down at 26-5-4, 85 lb down at 28-5-4, 85 lb down at 30-5-4, 85 lb down at 32-5-4, 85 lb down at 34-5-4, 85 lb down at 36-5-4, and 85 lb down at 38-5-4, and 294 lb down and 70 lb up at 40-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-12=-54, 12-15=-54, 2-14=-20

Concentrated Loads (lb)

Vert: 4=-106(B) 7=-106(B) 12=-180(B) 24=-284(B) 16=-284(B) 9=-106(B) 29=-106(B) 30=-106(B) 31=-106(B) 32=-106(B) 33=-106(B) 34=-106(B) 35=-106(B) 36=-106(B) 37=-106(B) 38=-106(B) 39=-106(B) 40=-106(B) 41=-106(B) 42=-106(B) 43=-61(B) 44=-61(B) 45=-61(B) 46=-61(B) 47=-61(B) 48=-61(B) 49=-61(B) 50=-61(B) 51=-61(B) 52=-61(B) 53=-61(B) 54=-61(B) 55=-61(B) 56=-61(B) 57=-61(B) 58=-61(B)

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Tampa, FL 36610

2-0-0	4-9-12	9-0-0	14-8-15	21-0-14	26-5-2	32-9-1	38-6-0	42-8-4	47-6-0	49-6-0
2-0-0	4-9-12	4-2-4	5-8-15	6-3-15	5-4-4	6-3-15	5-8-15	4-2-4	4-9-12	2-0-0

Scale = 1:83.9

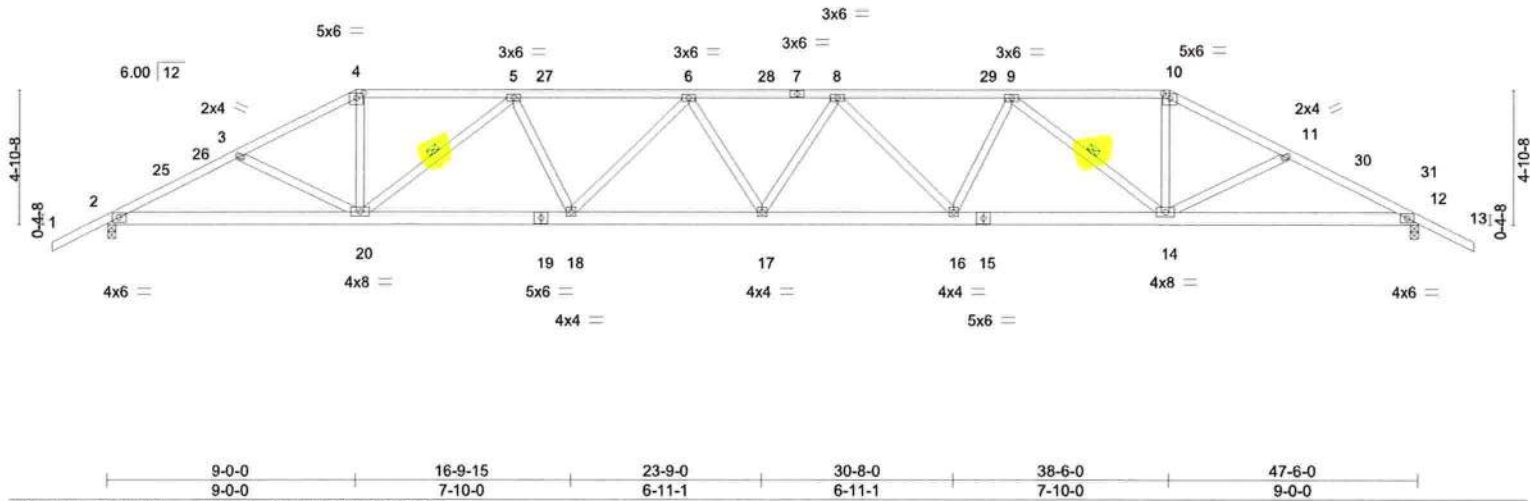


Plate Offsets (X,Y)-- [4:0-3-0,0-2-0], [10:0-3-0,0-2-0]

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 0.61	Vert(LL)	-0.44	17	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.82	17	>697	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.19	12	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						Weight: 285 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-4-4 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 7-3-1 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-20, 9-14

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=82(LC 12)
 Max Uplift 2=-427(LC 12), 12=-427(LC 13)
 Max Grav 2=1866(LC 1), 12=1865(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3497/776, 3-4=-3253/726, 4-5=-2897/672, 5-6=-4211/1011, 6-8=-4611/1101,
 8-9=-4211/1011, 9-10=-2897/672, 10-11=-3253/725, 11-12=-3497/775
 BOT CHORD 2-20=-693/3101, 18-20=-909/3973, 17-18=-1053/4569, 16-17=-1039/4569,
 14-16=-865/3973, 12-14=-622/3101
 WEBS 3-20=-273/164, 4-20=-229/1186, 5-20=-1438/432, 5-18=-108/600, 6-18=-565/191,
 8-16=-565/191, 9-16=-108/600, 9-14=-1438/432, 10-14=-229/1186, 11-14=-273/164

- 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) -2-0-0 to 2-9-0, Interior(1) 2-9-0 to 9-0-0, Exterior(2R) 9-0-0 to 15-8-10, Interior(1) 15-8-10 to 38-6-0, Exterior(2R) 38-6-0 to 45-2-10, Interior(1) 45-2-10 to 49-6-0 zone; 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=427, 12=427.



Walter P. Finn PE No. 22839
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

March 12

JOB	TRUSS	Truss type	Qty	Qty	CORNERSTONE - SPEC ROSE	T23189405
2708556	T11	Hip	1	1	Job Reference (optional)	
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,			8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:36 2021 Page 1			
			ID: AjzVsb3ebOuTU0dDpDnkV5zcOdh-SV19ujLazFKK5xpsW0VvybyPlhzTggSw?4zabfzL			
-2-0-0	5-6-11	11-0-0	17-2-10	23-9-0	30-3-6	36-6-0
2-0-0	5-6-11	5-5-5	6-2-10	6-6-6	6-2-10	5-5-5
						5-6-11
						2-0-0

Scale = 1:83.9

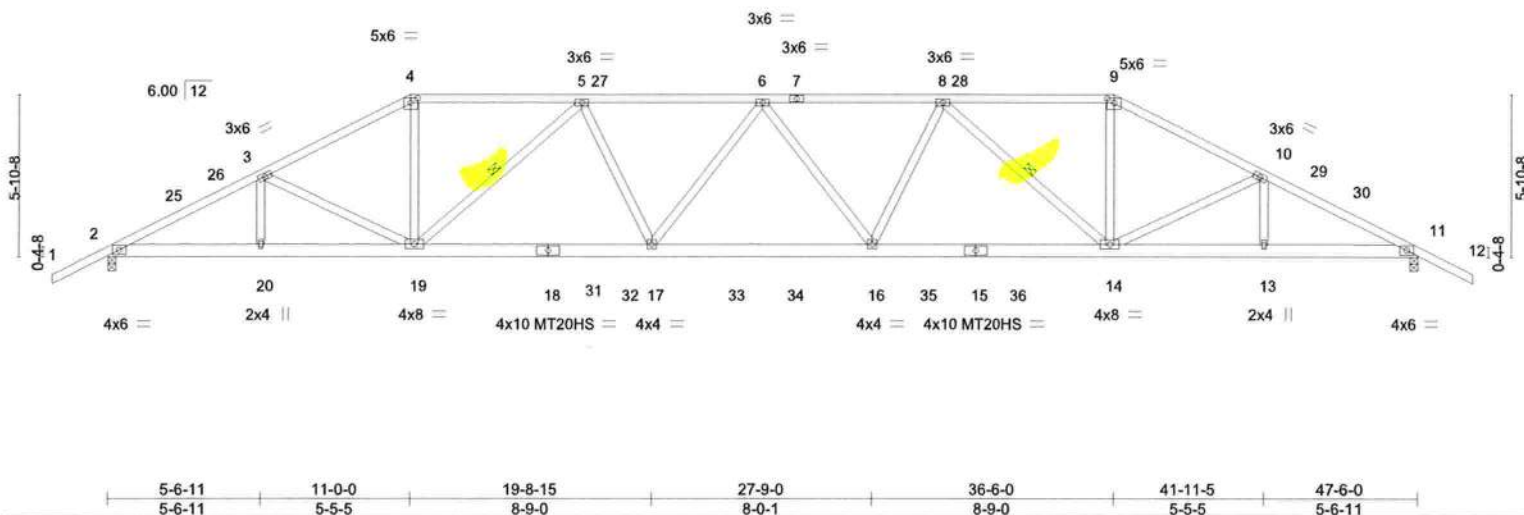


Plate Offsets (X,Y)--		[4:0-3-0,0-2-0], [9:0-3-0,0-2-0]													
LOADING (psf)		SPACING-		2-0-0		CSI.		DEFL.		in (loc) l/defl L/d		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL		1.25		TC	0.58	Vert(LL)	-0.42	16-17	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL		1.25		BC	0.80	Vert(CT)	-0.71	16-17	>798	180	MT20HS	187/143	
BCLL	0.0 *	Rep Stress Incr		YES		WB	0.49	Horz(CT)	0.19	11	n/a	n/a			
BCDL	10.0	Code FBC2020/TPI2014				Matrix-MS									
												Weight: 292 lb		FT = 20%	

LUMBER	BRACING
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 2-6-3 oc purlins.
BOT CHORD 2x6 SP No.2	BOT CHORD Rigid ceiling directly applied or 8-3-12 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-19, 8-14

REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=97(LC 16)
 Max Uplift 2=-425(LC 12), 11=-425(LC 13)
 Max Grav 2=2015(LC 2), 11=2015(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3859/749, 3-4=-3422/668, 4-5=-3042/636, 5-6=-4107/826, 6-8=-4107/826,
 8-9=-3042/635, 9-10=-3422/667, 10-11=-3859/749
 BOT CHORD 2-20=-679/3424, 19-20=-679/3424, 17-19=-742/3890, 16-17=-796/4211, 14-16=-701/3890,
 13-14=-582/3424, 11-13=-582/3424
 WEBS 3-19=-475/189, 4-19=-184/1273, 5-19=-1206/341, 5-17=-90/560, 6-17=-274/164,
 6-16=-274/164, 8-16=-90/560, 8-14=-1206/341, 9-14=-184/1273, 10-14=-475/190

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) -2-0-0 to 2-9-0, Interior(1) 2-9-0 to 11-0-0, Exterior(2R) 11-0-0 to 17-8-10, Interior(1) 17-8-10 to 36-6-0, Exterior(2R) 36-6-0 to 43-2-10, Interior(1) 43-2-10 to 49-6-0 zone; 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 covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=425, 11=425.



Walter P. Finn PE No.22839
 MiTek USA, Inc. FL Cert 6634
 6904 Parke East Blvd. Tampa FL 33610
 Date:

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6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - SPEC HSE	T2318940
2708556	T12	Hip	1	1		

Builders FirstSource, Lake City, FL 32055

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Mar 12 16:45:53 2021 Page 1
ID: AjzVsb3ebOuTU0dDpDnkV5zcOdh-EK6kgFCRtiVbIKFJT9Nu5irveaBd28MiYqSczbd?i

-2-0-0	6-5-12	13-0-0	18-4-13	23-9-0	29-1-3	34-6-0	41-0-4	47-6-0	49-6-0
2-0-0	6-5-12	6-6-4	5-4-13	5-4-3	5-4-3	5-4-13	6-6-4	6-5-12	2-0-0

Scale = 1:84.

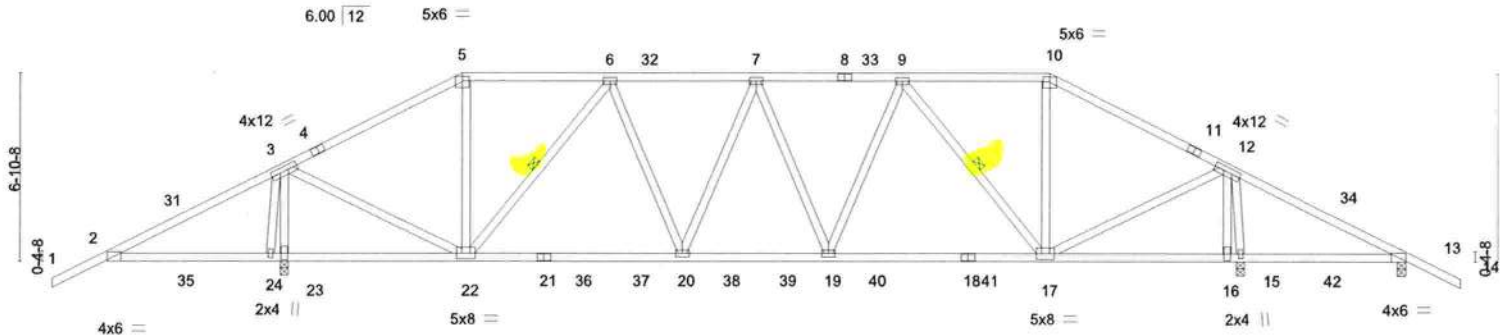


Plate Offsets (X,Y)=-	5-11-12	6-5-12	13-0-0	21-0-15	26-5-1	34-6-0	41-0-4	41-6-4	47-6-0
	5-11-12	0-6-0	6-6-4	8-0-15	5-4-2	8-0-15	6-6-4	0-6-0	5-11-12

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.66	Vert(LL)	-0.19 20-22	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.32 20-22	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63	Horz(CT)	0.05 15	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 275 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 4-5-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-22, 9-17

REACTIONS. (lb/size) 23=1906/0-3-8, 15=1747/0-3-8, 13=78/0-3-8
Max Horz 23=112(LC 16)
Max Uplift 23=461(LC 12), 15=372(LC 13), 13=112(LC 23)
Max Grav 23=2061(LC 2), 15=1972(LC 26), 13=80(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-31=-635/676, 3-31=-629/766, 3-4=-1076/239, 4-5=-1068/261, 5-6=-948/255,
6-32=-1645/393, 7-32=-1645/393, 7-8=-1661/383, 8-33=-1661/383, 9-33=-1661/383,
9-10=-1028/304, 10-11=-1143/296, 11-12=-1217/273, 12-34=-106/626, 13-34=-112/553
BOT CHORD 2-35=-606/658, 24-35=-606/658, 23-24=-604/715, 22-23=-604/693, 21-22=-298/1479,
21-36=-298/1479, 36-37=-298/1479, 20-37=-298/1479, 20-38=-327/1699, 38-39=-327/1699,
19-39=-327/1699, 19-40=-278/1514, 40-41=-278/1514, 18-41=-278/1514,
17-18=-278/1514, 16-17=-292/107, 15-16=-292/107, 15-42=-495/131, 13-42=-495/131
WEBS 3-24=-391/88, 3-23=-1849/1048, 3-22=-563/1654, 5-22=-19/331, 6-22=-859/259,
6-20=-77/456, 9-19=-55/395, 9-17=-797/247, 10-17=-32/322, 12-17=-257/1422,
12-16=-165/341, 12-15=-157/317

- 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) -2-0-0 to 2-9-0, Interior(1) 2-9-0 to 13-0-0, Exterior(2R) 13-0-0 to 19-8-10, Interior(1) 19-8-10 to 34-6-0, Exterior(2R) 34-6-0 to 41-0-4, Interior(1) 41-0-4 to 49-6-0 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.
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 461 lb uplift at joint 23, 372 lb uplift at joint 15 and 112 lb uplift at joint 13.

LOAD CASE(S) Standard



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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - SPEC HSE
2708556	T13	Hip	1	1	

T2318940

Builders FirstSource, Lake City, FL 32055

Job Reference (optional)

8.430 s Nov 30 2020 MITek Industries, Inc. Fri Mar 12 16:46:09 2021 Page 1
ID: AjzVsb3ebOuTU0dDpDnKv5zcOdh-mP4n1JOU6cWKDDZKfglv1GiT2M4Nxt6V1BQg0gzbd?S

-2-0-0	6-5-12	10-8-14	15-0-0	20-7-15	26-10-1	32-6-0	36-9-2	41-0-4	47-6-0	49-6-0
2-0-0	6-5-12	4-3-2	4-3-2	5-8-0	6-2-1	5-8-0	4-3-2	4-3-2	6-5-12	2-0-0

Scale = 1:84

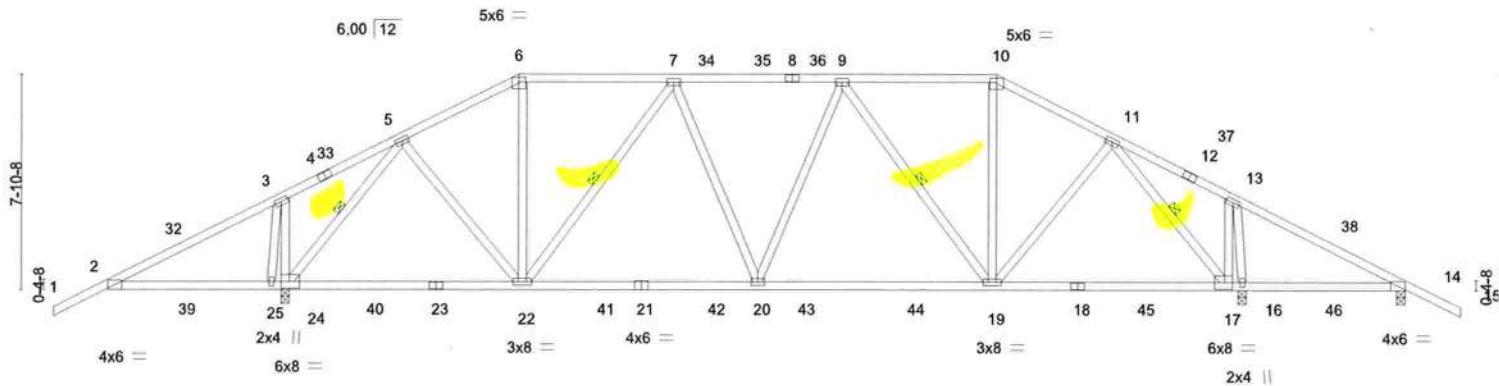


Plate Offsets (X, Y)	5-11-12	6-5-12	15-0-0	23-9-0	32-6-0	41-0-4	41-6-4	47-6-0
	5-11-12	0-6-0	8-6-4	8-9-0	8-9-0	8-6-4	0-6-0	5-11-12

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.51	Vert(LL)	-0.17 20-22	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.90	Vert(CT)	-0.29 20-22	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.06 16	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 283 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Sheathed or 4-6-12 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-24, 7-22, 9-19, 11-17

REACTIONS.

(lb/size) 24=1925/0-3-8, 16=1616/0-3-8, 14=190/0-3-8
Max Horz 24=-127(LC 13)
Max Uplift 24=-460(LC 12), 16=-355(LC 13), 14=-81(LC 13)
Max Grav 24=2118(LC 2), 16=1846(LC 2), 14=198(LC 24)

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

TOP CHORD 2-32=-633/668, 3-32=-626/753, 3-4=-630/647, 4-33=-624/676, 5-33=-615/744,
5-6=-1218/268, 6-7=-1057/260, 7-34=-1536/327, 34-35=-1536/327, 8-35=-1536/327,
8-36=-1536/327, 9-36=-1536/327, 9-10=-1191/326, 10-11=-1366/333, 13-38=-60/340,
14-38=-66/281
BOT CHORD 2-39=-602/657, 25-39=-602/657, 24-25=-605/700, 24-40=-121/656, 23-40=-121/656,
22-23=-121/656, 22-41=-246/1437, 21-41=-246/1437, 21-42=-246/1437, 20-42=-246/1437,
20-43=-233/1484, 43-44=-233/1484, 19-44=-233/1484, 18-19=-61/885, 18-45=-61/885,
17-45=-61/885, 16-46=-251/112, 14-46=-251/112
WEBS 3-25=-485/28, 3-24=-341/616, 5-24=-1936/708, 5-22=-226/697, 6-22=-47/380,
7-22=-647/211, 7-20=-54/301, 9-19=-544/193, 10-19=-41/390, 11-19=-92/521,
11-17=-1446/234, 13-17=-41/1249, 13-16=-1637/245

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) -2-0-0 to 2-9-0, Interior(1) 2-9-0 to 15-0-0, Exterior(2R) 15-0-0 to 21-8-10, Interior(1) 21-8-10 to 32-6-0, Exterior(2R) 32-6-0 to 39-2-10, Interior(1) 39-2-10 to 49-6-0 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.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 460 lb uplift at joint 24, 355 lb uplift at joint 16 and 81 lb uplift at joint 14.

LOAD CASE(S) Standard



Walter P. Finn PE No.22839
MITek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 12

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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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - SPEC HSE	T2318940
2708556	T14	Hip	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Mar 12 16:46:39 2021 Page 1
ID: AjzVsb3ebOuTU0dDpDnkV5zcOdh-uAu7Kzml2ql3qqr5P_lxFb_bCSOuzQuvxxshF4xzbD?

-2-0-0	6-5-12	11-2-10	17-0-0	23-9-0	30-6-0	36-3-6	41-0-4	47-6-0	49-6-0
2-0-0	6-5-12	4-8-14	5-9-6	6-9-0	6-9-0	5-9-6	4-8-14	6-5-12	2-0-0

Scale = 1:84.

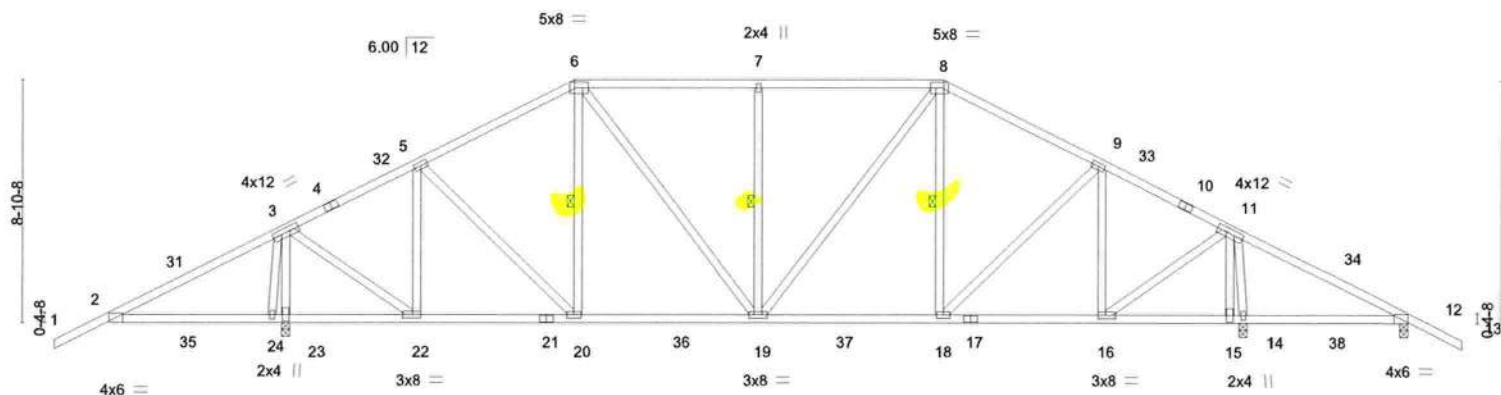


Plate Offsets (X,Y)---	5-11-12	6-5-12	11-2-10	17-0-0	23-9-0	30-6-0	36-3-6	41-0-4	41-6-4	47-6-0
	5-11-12	0-6-0	4-8-14	5-9-6	6-9-0	6-9-0	5-9-6	4-8-14	0-6-0	5-11-12

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 0.53	Vert(LL)	-0.10 18-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.54	Vert(CT)	-0.17 18-19	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT)	0.03 14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 296 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 4-7-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-20, 7-19, 8-18

REACTIONS. (lb/size) 23=1918/0-3-8, 14=1666/0-3-8, 12=147/0-3-8
Max Horz 23=-142(LC 13)
Max Uplift 23=-457(LC 12), 14=-346(LC 13), 12=-86(LC 13)
Max Grav 23=2066(LC 2), 14=1864(LC 2), 12=163(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-31=-640/689, 3-31=-634/779, 3-4=-820/145, 4-32=-764/158, 5-32=-748/161,
5-6=-1231/278, 6-7=-1319/329, 7-8=-1319/329, 8-9=-1312/337, 9-33=-975/283,
10-33=-984/279, 10-11=-1059/267, 11-34=-38/474, 12-34=-49/400
BOT CHORD 2-35=-624/665, 24-35=-624/665, 23-24=-628/720, 22-23=-628/698, 21-22=-109/729,
20-21=-109/729, 20-36=-133/1047, 19-36=-133/1047, 19-37=-95/1121, 18-37=-95/1121,
17-18=-63/901, 16-17=-63/901, 14-38=-364/109, 12-38=-364/109
WEBS 3-24=-381/143, 3-23=-1901/1018, 3-22=-534/1580, 5-22=-757/354, 5-20=-218/502,
6-19=-158/470, 7-19=-417/203, 8-19=-134/388, 9-18=-79/360, 9-16=-545/120,
11-16=-156/1285, 11-15=-261/332, 11-14=-1386/285

- 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) -2-0-0 to 2-9-0, Interior(1) 2-9-0 to 17-0-0, Exterior(2R) 17-0-0 to 23-9-0, Interior(1) 23-9-0 to 30-6-0, Exterior(2R) 30-6-0 to 37-2-10, Interior(1) 37-2-10 to 49-6-0 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.
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 457 lb uplift at joint 23, 346 lb uplift at joint 14 and 86 lb uplift at joint 12.

LOAD CASE(S) Standard



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 12

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - SPEC HSE	T2318940
2708556	T15	Hip	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Mar 12 16:47:13 2021 Page 1
ID: AjzVsb3ebOuTU0dDpDnkV5zcOdh-ujx_SbAd1HaEv2SdP7vwdmPOt9vbxomvl8w3Gzzbd_S

-2-0-0	6-5-12	12-8-14	19-0-0	23-9-0	28-6-0	34-9-2	41-0-4	47-6-0	49-6-0	2-0-0
2-0-0	6-5-12	6-3-2	6-3-2	4-9-0	4-9-0	6-3-2	6-3-2	6-5-12	49-6-0	2-0-0

Scale = 1:84

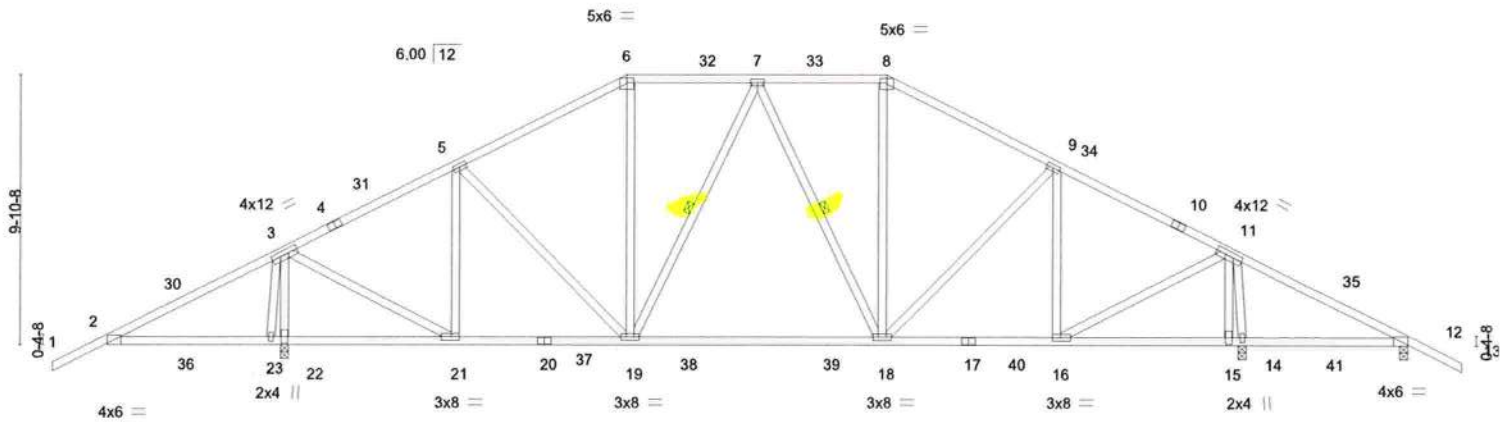


Plate Offsets (X,Y)→	5-11-12	6-5-12	12-8-14	19-0-0	28-6-0	34-9-2	41-0-4	41-6-4	47-6-0
	5-11-12	0-6-0	6-3-2	6-3-2	9-6-0	6-3-2	6-3-2	0-6-0	5-11-12

LOADING (psf)	SPACING-	2-0-0	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.58	Vert(LL)	-0.31 18-19	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.94	Vert(CT)	-0.49 18-19	>858	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.03 14	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 295 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 4-7-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 7-19, 7-18

REACTIONS. (lb/size) 22=1922/0-3-8, 14=1640/0-3-8, 12=170/0-3-8
Max Horz 22=-156(LC 13)
Max Uplift 22=-453(LC 12), 14=-342(LC 13), 12=-86(LC 13)
Max Grav 22=2095(LC 2), 14=1860(LC 2), 12=191(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-30=-639/683, 3-30=-632/773, 3-4=-1057/180, 4-31=-946/199, 5-31=-933/201, 5-6=-1278/284, 6-32=-1086/292, 7-32=-1086/292, 7-33=-1136/335, 8-33=-1136/335, 8-9=-1333/331, 9-34=-1136/301, 10-34=-1149/300, 10-11=-1259/280, 11-35=-37/416, 12-35=-48/342
BOT CHORD 2-36=-616/663, 23-36=-616/663, 22-23=-613/721, 21-22=-613/699, 21-37=-131/915, 20-37=-131/915, 19-20=-131/915, 19-38=-107/1163, 38-39=-107/1163, 18-39=-107/1163, 17-18=-65/1070, 17-40=-65/1070, 16-40=-65/1070, 14-41=-310/103, 12-41=-310/103
WEBS 3-23=-408/36, 3-22=-1818/1059, 3-21=-576/1670, 5-21=-616/314, 5-19=-144/280, 6-19=-64/364, 7-19=-280/140, 8-18=-55/352, 9-16=-404/100, 11-16=-143/1300, 11-15=-140/356, 11-14=-1510/275

- 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) -2-0-0 to 2-9-0, Interior(1) 2-9-0 to 19-0-0, Exterior(2R) 19-0-0 to 25-8-10, Interior(1) 25-8-10 to 28-6-0, Exterior(2R) 28-6-0 to 35-2-10, Interior(1) 35-2-10 to 49-6-0 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.
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in 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 453 lb uplift at joint 22, 342 lb uplift at joint 14 and 86 lb uplift at joint 12.

LOAD CASE(S) Standard



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 12

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Tampa, FL 33610

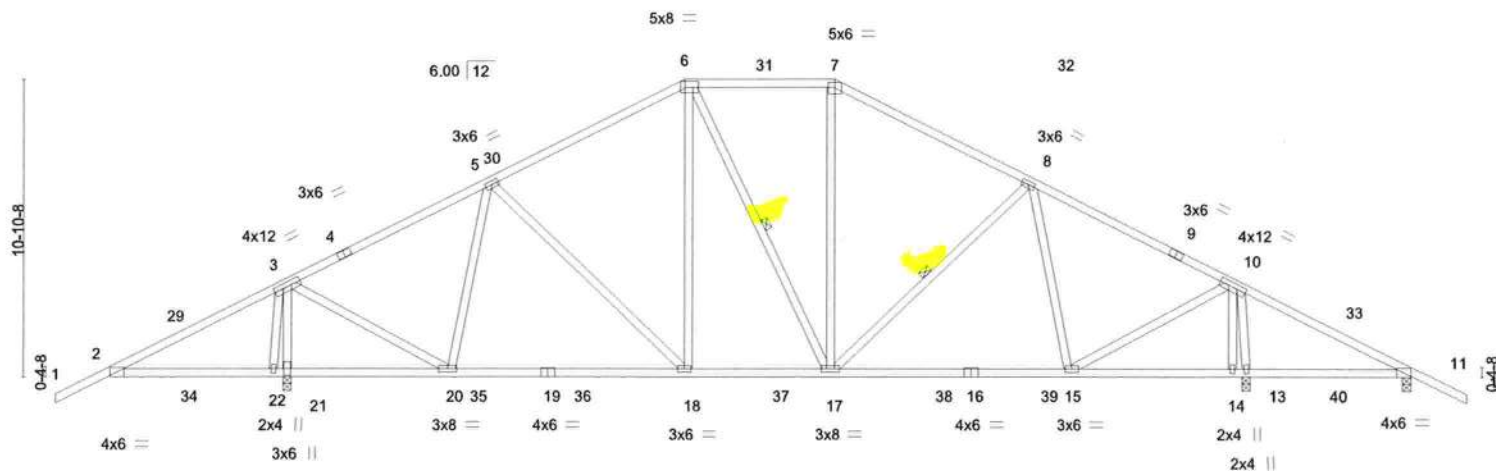
Job	Truss	Truss Type	Qty	Ply	CORNERSTONE - SPEC HSE	T2318941
2708556	T16	Hip	1	1		

Builders FirstSource, Lake City, FL 32055

ID: AjzVsb3ebOuTU0dDpDnkV5zcOdh-FyGI47RQs1M7YQ7shkl4WPJ9O0SI5k79pZFD2hzbdb_6

-2-0-0	6-5-12	13-9-7	21-0-0	26-6-0	33-8-9	41-0-4	47-6-0	49-6-0
2-0-0	6-5-12	7-3-11	7-2-9	5-6-0	7-2-9	7-3-11	6-5-12	2-0-0

Scale = 1:84



5-11-12	6-5-12	12-5-12	21-0-0	26-6-0	35-0-4	41-0-4	41-6-4	47-6-0
5-11-12	0-6-0	6-0-0	8-6-4	5-6-0	8-6-4	6-0-0	0-6-0	5-11-12

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.23 18-20	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.81	Vert(CT)	-0.39 18-20	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.03 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 290 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Sheathed or 4-6-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-17, 8-17

REACTIONS. (lb/size) 21=1920/0-3-8, 13=1650/0-3-8, 11=161/0-3-8
Max Horz 21=171(LC 16)
Max Uplift 21=449(LC 12), 13=344(LC 13), 11=80(LC 13)
Max Grav 21=2097(LC 2), 13=1872(LC 2), 11=189(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-29=-636/678, 3-29=-630/768, 3-4=-1044/167, 4-5=-914/192, 5-30=-1247/266,
6-30=-1237/294, 6-31=-1067/326, 7-31=-1067/326, 7-32=-1260/317, 8-32=-1269/290,
8-9=-1117/283, 9-10=-1247/258, 10-33=-32/433, 11-33=-52/360
BOT CHORD 2-34=-609/659, 22-34=-609/659, 21-22=-614/714, 20-21=-614/692, 20-35=-155/1009,
19-35=-155/1009, 19-36=-155/1009, 18-36=-155/1009, 18-37=-74/1052, 17-37=-74/1052,
17-38=-65/1111, 16-38=-65/1111, 16-39=-65/1111, 15-39=-65/1111, 13-40=-324/109,
11-40=-324/109
WEBS 3-22=-385/182, 3-21=-1989/1027, 3-20=-544/1685, 5-20=-591/329, 6-18=-37/295,
7-17=-45/312, 8-15=-378/106, 10-15=-116/1329, 10-14=-274/329, 10-13=-1392/302

- 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) -2-0-0 to 2-9-0, Interior(1) 2-9-0 to 21-0-0, Exterior(2E) 21-0-0 to 26-6-0, Exterior(2R) 26-6-0 to 33-2-10, Interior(1) 33-2-10 to 49-6-0 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 449 lb uplift at joint 21, 344 lb uplift at joint 13 and 80 lb uplift at joint 11.

LOAD CASE(S) Standard



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

March 12

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

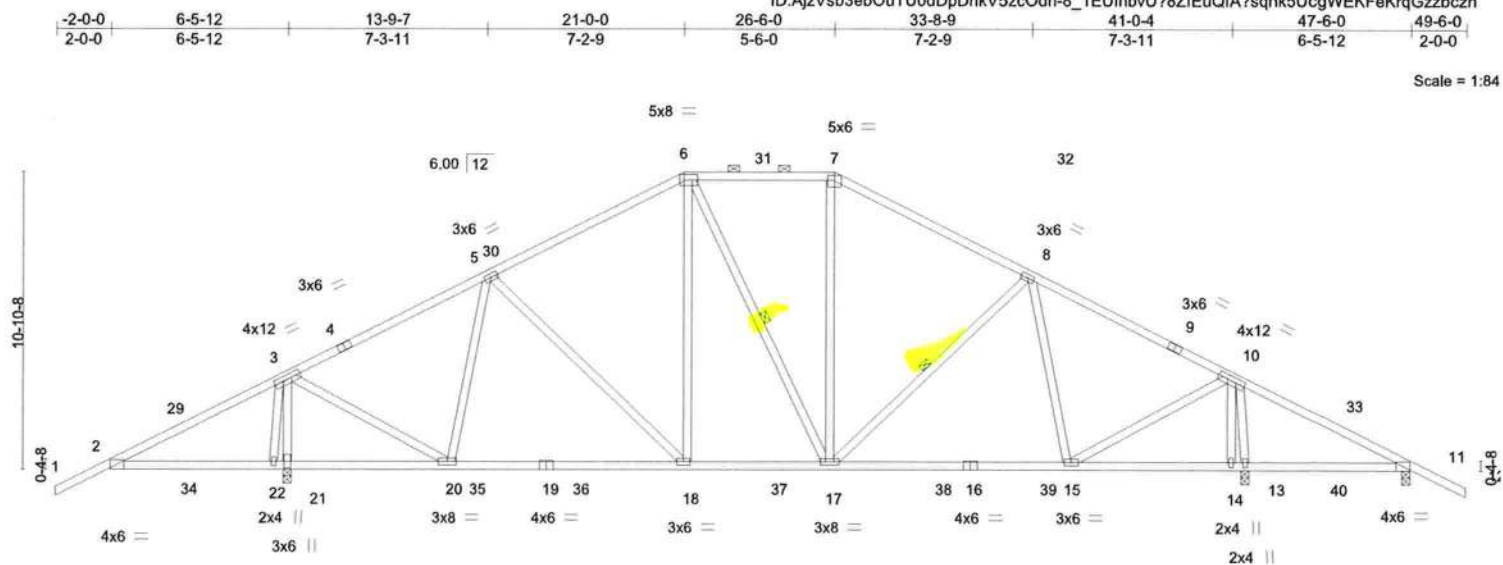
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6904 Parke East Blvd.
Tampa, FL 33610

2708556	T17
Builders FirstSource, Lake City, FL 32055	

8.430 s Nov 30 2020 MiTek Industries, Inc. Fri Mar 12 16:47:56 2021 Page 1
ID:AizVsb3ebOuTU0dDpDnkV5zcOdh-8 1EUlhbvlJ287fEufA2sqhk5lJcnWEKFeKraGzzbczn



Scale = 1:84

	5-11-12	6-5-12	12-5-12	21-0-0	26-6-0	35-0-4	41-0-4	41-6-4	47-6-0
Plate Offsets (X,Y)--	5-11-12	0-6-0	6-0-0	8-6-4	5-6-0	8-6-4	6-0-0	0-6-0	5-11-12

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.64	Vert(LL)	-0.23 18-20	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.81	Vert(CT)	-0.39 18-20	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.03 13	n/a	n/a		
BCDL 10.0	Code FBC2020/TP12014		Matrix-MS					Weight: 290 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Sheathed or 4-6-7 oc purlins, except
BOT CHORD	2x4 SP No.2		2-0-0 oc purlins (5-4-14 max.): 6-7.
WEBS	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
		WEBS	1 Row at midpt 6-17, 8-17

REACTIONS. (lb/size) 21=1920/0-3-8, 13=1650/0-3-8, 11=161/0-3-8
 Max Horz 21=171(LC 16)
 Max Uplift 21=-449(LC 12), 13=-344(LC 13), 11=-80(LC 13)
 Max Grav 21=2097(LC 2), 13=1872(LC 2), 11=189(LC 24)

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

TOP CHORD 2-29=-636/678, 3-29=-630/768, 3-4=-1044/167, 4-5=-914/192, 5-30=-1247/266,
6-30=-1237/294, 6-31=-1067/326, 7-31=-1067/326, 7-32=-1260/317, 8-32=-1269/290,
8-9=-1117/283, 9-10=-1247/258, 10-33=-32/433, 11-33=-52/360

BOT CHORD 2-34=-609/659, 22-34=-609/659, 21-22=-614/714, 20-21=-614/692, 20-35=-155/1009,
19-35=-155/1009, 19-36=-155/1009, 18-36=-155/1009, 18-37=-74/1052, 17-37=-74/1052,
17-38=-65/1111, 16-38=-65/1111, 16-39=-65/1111, 15-39=-65/1111, 13-40=-324/109,
11-40=-324/109

WEBS 3-22=-385/182, 3-21=-1989/1027, 3-20=-544/1685, 5-20=-591/329, 6-18=-37/295,
7-17=-45/312, 8-15=-378/106, 10-15=-116/1329, 10-14=-274/329, 10-13=-1392/302

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; Encl., GCPI=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-9-0, Interior(1) 2-9-0 to 21-0-0, Exterior(2E) 21-0-0 to 26-6-0, Interior(2R) 26-6-0 to 33-2-10, Interior(1) 33-2-10 to 49-6-0 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
- 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) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 449 lb uplift at joint 21, 344 lb uplift at joint 13 and 80 lb uplift at joint 11.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard



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Date:

March 12



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6904 Parke East Blvd.
Tampa, FL 36610

JOB	Truss	Truss type	Qty	Flt	CORNERSTONE - SPEC. NO.	T23189412
708556	T18	Piggyback Base	3	1	Job Reference (optional)	
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,		8,430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:49 2021 Page 1				
-2-0-0 6-5-12 13-9-7 21-0-0 26-6-0 33-8-9 41-0-4 47-6-0 49-6-0		ID: AjzVsb3ebOuTU0dDpDnkV5zcOdH-Z7K3SKtV6yuUO4RJ6l7Ywhyp6elTWKmbSRfHxKzbfz8				
2-0-0 6-5-12 7-3-11 7-2-9 5-6-0 7-2-9 7-3-11 6-5-12 2-0-0						

TOP CHORD UNDER PIGGYBACKS
TO BE Laterally BRACED BY
PURLINS AT 2-0-0 OC. MAX.
TYPICAL.

Scale = 1:85.3

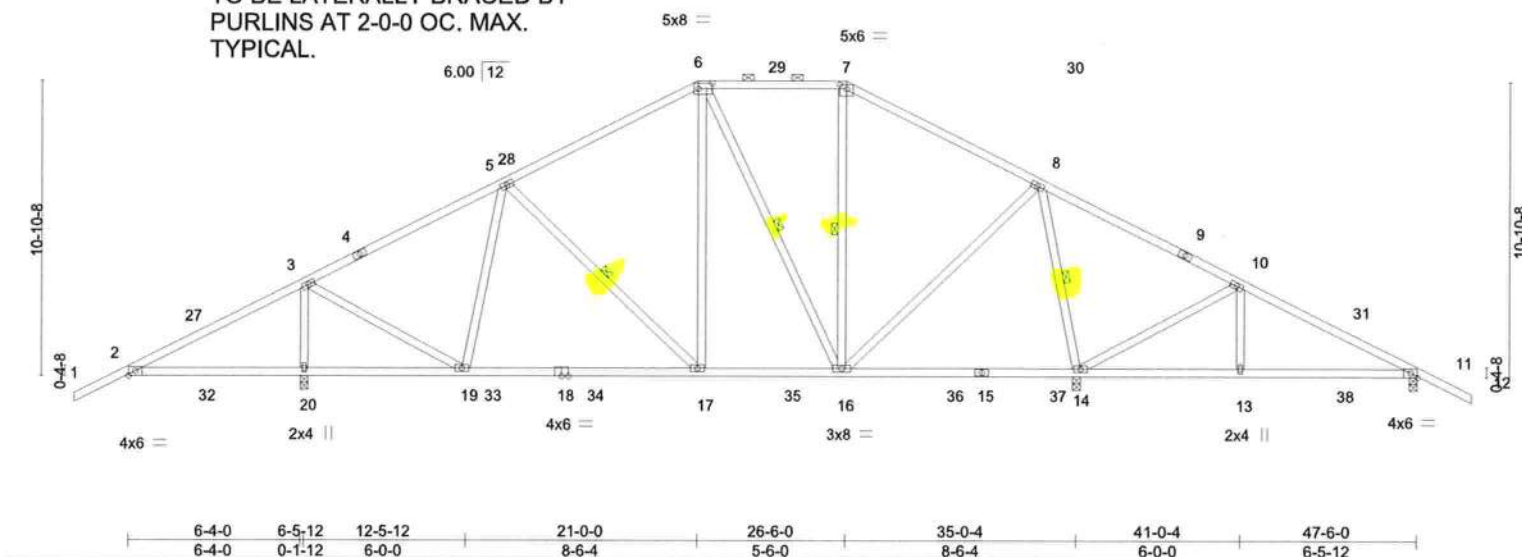


Plate Offsets (X,Y)--		[6:0-6-0,0-2-8], [7:0-3-0,0-2-0]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.62
TCDL 7.0	Lumber DOL	1.25	BC 0.75
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.52
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS
DEFL.	in (loc)	L/defl	L/d
Vert(LL)	-0.22 17-19	>999	240
Vert(CT)	-0.37 17-19	>921	180
Horz(CT)	0.01 11	n/a	n/a
PLATES	GRIP		
MT20	244/190		
Weight: 281 lb		FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x4 SP No.2	Structural wood sheathing directly applied or 5-10-8 oc purlins, except
WEBS 2x4 SP No.3	2-0-0 oc purlins (6-0-0 max.): 6-7.
	BOT CHORD
	Rigid ceiling directly applied or 6-0-0 oc bracing.
	WEBS
	1 Row at midpt
	5-17, 6-16, 7-16, 8-14

REACTIONS. (size) 20=0-3-8, 14=0-3-8, 11=0-3-8
Max Horz 20=171(LC 12)
Max Uplift 20=414(LC 12), 14=333(LC 13), 11=143(LC 13)
Max Grav 20=1810(LC 2), 14=1846(LC 2), 11=465(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-671/771, 3-5=-738/148, 5-6=-803/228, 6-7=-527/231, 7-8=-669/211,
8-10=-137/362, 10-11=-378/332
BOT CHORD 2-20=-612/688, 19-20=-612/666, 17-19=-119/739, 16-17=-27/724, 13-14=-214/284,
11-13=-214/284
WEBS 3-20=-1588/610, 3-19=-439/1364, 5-19=-457/297, 6-17=-48/359, 6-16=-312/110,
8-16=-75/742, 8-14=-1270/312, 10-14=-567/550, 10-13=-319/236

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., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 2-9-0, Interior(1) 2-9-0 to 21-0-0, Exterior(2E) 21-0-0 to 26-6-0, Exterior(2R) 26-6-0 to 33-2-10, Interior(1) 33-2-10 to 49-6-0 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.
- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 20=414, 14=333, 11=143.
- 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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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

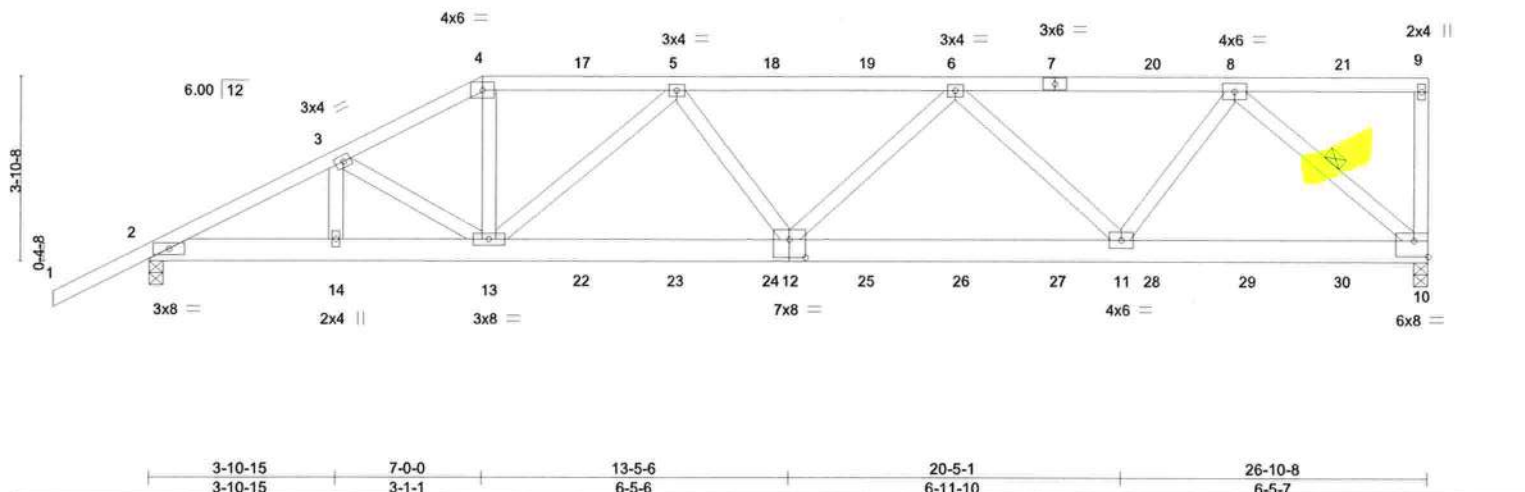
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Job	Truss	Truss type	Qty	Qty	CORNERSTONE - SPEC RISE	T23189413
2708556	T19	Half Hip Girder	1	1	Job Reference (optional)	
Builders FirstSource (Jacksonville, FL),		Jacksonville, FL - 32244,	8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:50 2021 Page 1			
-2-0-0		3-10-15	7-0-0	11-1-1	ID: AjzVsb3ebOuTU0dDpDnkV5zcOdh-1CuRfgt7tG0L?E0WgSenTvUwH24cFm5kg5OqTmzbfz7	
2-0-0		3-10-15	3-1-1	4-1-1	16-11-4	
					5-10-3	
					22-9-7	
					5-10-3	
					26-10-8	
					4-1-1	

Scale = 1:48.6



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.85	Vert(LL)	-0.17	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.33				
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.09				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
								Weight: 164 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-1-12 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 7-2-13 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 8-10

REACTIONS. (size) 10=0-3-8, 2=0-3-8
 Max Horz 2=151(LC 8)
 Max Uplift 10=602(LC 5), 2=500(LC 8)
 Max Grav 10=2183(LC 1), 2=1933(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3672/911, 3-4=-3534/889, 4-5=-3185/826, 5-6=-4008/986, 6-8=-2900/705, 9-10=-258/131
 BOT CHORD 2-14=-890/3249, 13-14=-890/3249, 12-13=-1048/3935, 11-12=-1014/3783, 10-11=-564/2057
 WEBS 4-13=-242/1260, 5-13=-1051/353, 5-12=0/289, 6-12=0/444, 6-11=-1252/447, 8-11=-259/1504, 8-10=-2718/749

- 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; 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=602, 2=500.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 125 lb down and 88 lb up at 7-0-0, 106 lb down and 88 lb up at 9-0-12, 106 lb down and 88 lb up at 11-0-12, 106 lb down and 88 lb up at 13-0-12, 106 lb down and 88 lb up at 15-0-12, 106 lb down and 82 lb up at 17-0-12, 106 lb down and 88 lb up at 19-0-12, 106 lb down and 88 lb up at 21-0-12, 106 lb down and 88 lb up at 23-0-12, and 106 lb down and 88 lb up at 25-0-12, and 136 lb down and 86 lb up at 26-8-12 on top chord, and 294 lb down and 70 lb up at 7-0-0, 85 lb down at 9-0-12, 85 lb down at 11-0-12, 85 lb down at 13-0-12, 85 lb down at 15-0-12, 85 lb down at 17-0-12, 85 lb down at 19-0-12, 85 lb down at 21-0-12, and 85 lb down at 23-0-12, and 85 lb down at 25-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

Continued on page 2



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March 12

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JOB	TRUSS	TRUSS TYPE	Qty	Ply	CORNERSTONE - SPEC. USE	T23189413
2708556	T19	Half Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,

8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:50 2021 Page 2
ID:AjzVsb3ebOuTU0dDpDnkV5zcOdh-1CuRfgt7tIG0L?E0WgSenTvUwH24cFm5kg5OqTmzbfz7

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-9=-54, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-106(F) 7=-106(F) 9=-136(F) 13=-284(F) 5=-106(F) 6=-106(F) 8=-106(F) 17=-106(F) 18=-106(F) 19=-106(F) 20=-106(F) 21=-106(F) 22=-61(F) 23=-61(F) 24=-61(F) 25=-61(F) 26=-61(F) 27=-61(F) 28=-61(F) 29=-61(F) 30=-61(F)

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JOB	TRUSS	TRUSS TYPE	Qty	Ply	CORNERSTONE - SPEC USE	T23189414
708556	T20	Half Hip	1	1	Job Reference (optional)	
Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244,			8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:51 2021 Page 1			
			ID: AjzVsb3ebOuTU0dDpDnkV5zcOdH-WORqt0ulea8CdObiEA90761CfSQC_H2uvl8N7Dzbfz6			
-2-0-0	4-9-8	9-0-0	14-8-10	21-1-14	26-10-8	
2-0-0	4-9-8	4-2-8	5-8-10	6-5-5	5-8-10	

Scale = 1:48.6

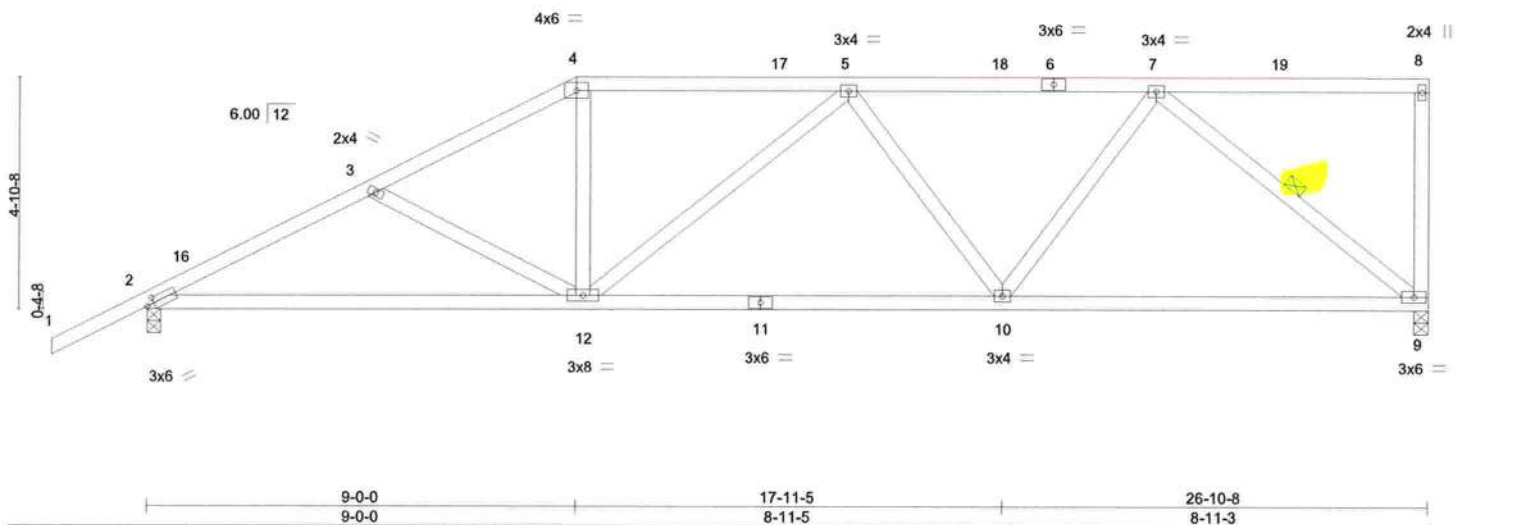


Plate Offsets (X,Y)-- [2:0-1-15,0-1-8]

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 0.42	Vert(LL)	-0.16	9-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.80	Vert(CT)	-0.33	9-10	>971	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.06	9	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 141 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-13 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-5-5 oc bracing.
WEBS 1 Row at midpt 7-9

REACTIONS. (size) 9-0-3-8, 2-0-3-8
Max Horz 2=185(LC 12)
Max Uplift 9=255(LC 9), 2=276(LC 12)
Max Grav 9=985(LC 1), 2=1101(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1780/431, 3-4=-1518/355, 4-5=-1319/348, 5-7=-1275/300
BOT CHORD 2-12=-487/1553, 10-12=-374/1447, 9-10=-266/971
WEBS 3-12=-279/158, 4-12=-43/444, 5-12=-261/135, 5-10=-299/177, 7-10=-107/544, 7-9=-1230/343

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., GCp=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 9-0-0, Exterior(2R) 9-0-0 to 13-2-15, Interior(1) 13-2-15 to 26-8-12 zone; 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=255, 2=276.



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-2-0-0 5-7-15 11-0-0 18-11-4 26-10-8
 2-0-0 5-7-15 5-4-1 7-11-4 7-11-4

Scale: 1/4"=1'

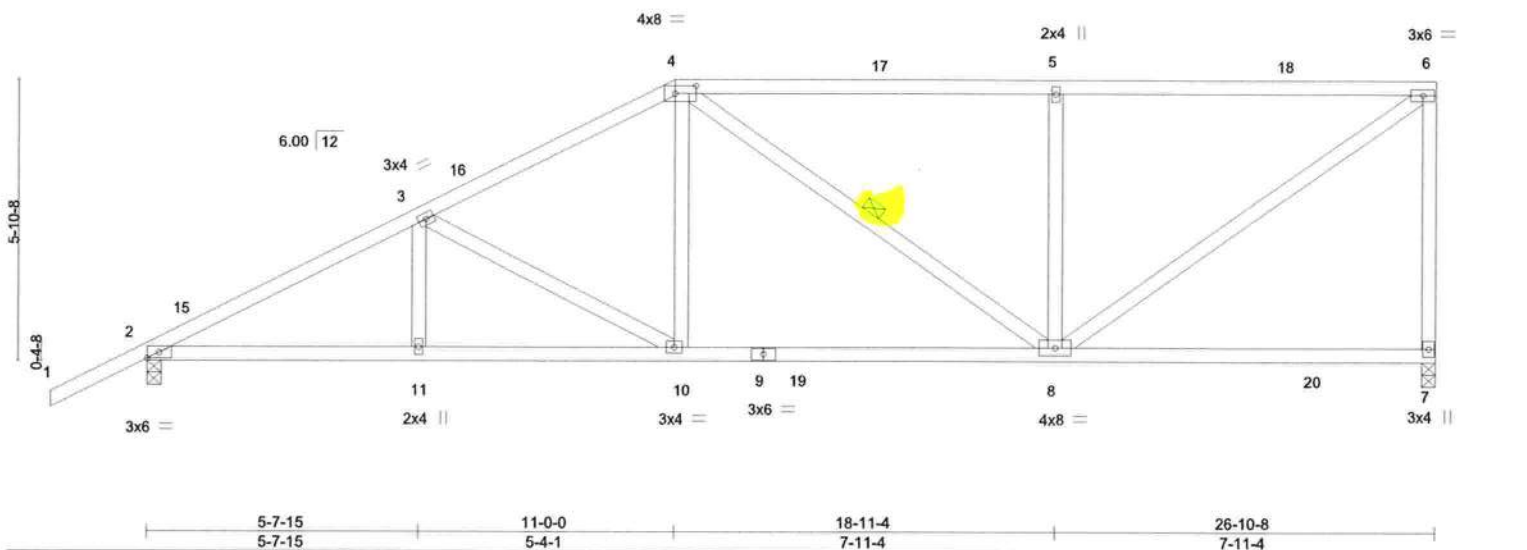


Plate Offsets (X,Y)-- [4:0-5-4,0-2-0]

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 0.77	Vert(LL)	-0.12	8-10	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.72	Vert(CT)	-0.23	7-8	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.05	7	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS							
									Weight: 149 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.2
 BOT CHORD 2x4 SP No.2
 WEBS 2x4 SP No.3

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

REACTIONS. (size) 7=0-3-8, 2=0-3-8
 Max Horz 2=219(LC 12)
 Max Uplift 7=-249(LC 9), 2=-275(LC 12)
 Max Grav 7=1104(LC 2), 2=1168(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1945/403, 3-4=-1498/333, 4-5=-1161/263, 5-6=-1161/263, 6-7=-956/267
 BOT CHORD 2-11=-491/1698, 10-11=-491/1698, 8-10=-335/1304
 WEBS 3-10=-473/177, 4-10=-44/489, 5-8=-496/241, 6-8=-316/1396

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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 11-0-0, Exterior(2R) 11-0-0 to 15-2-15, Interior(1) 15-2-15 to 26-8-12 zone; 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=249, 2=275.



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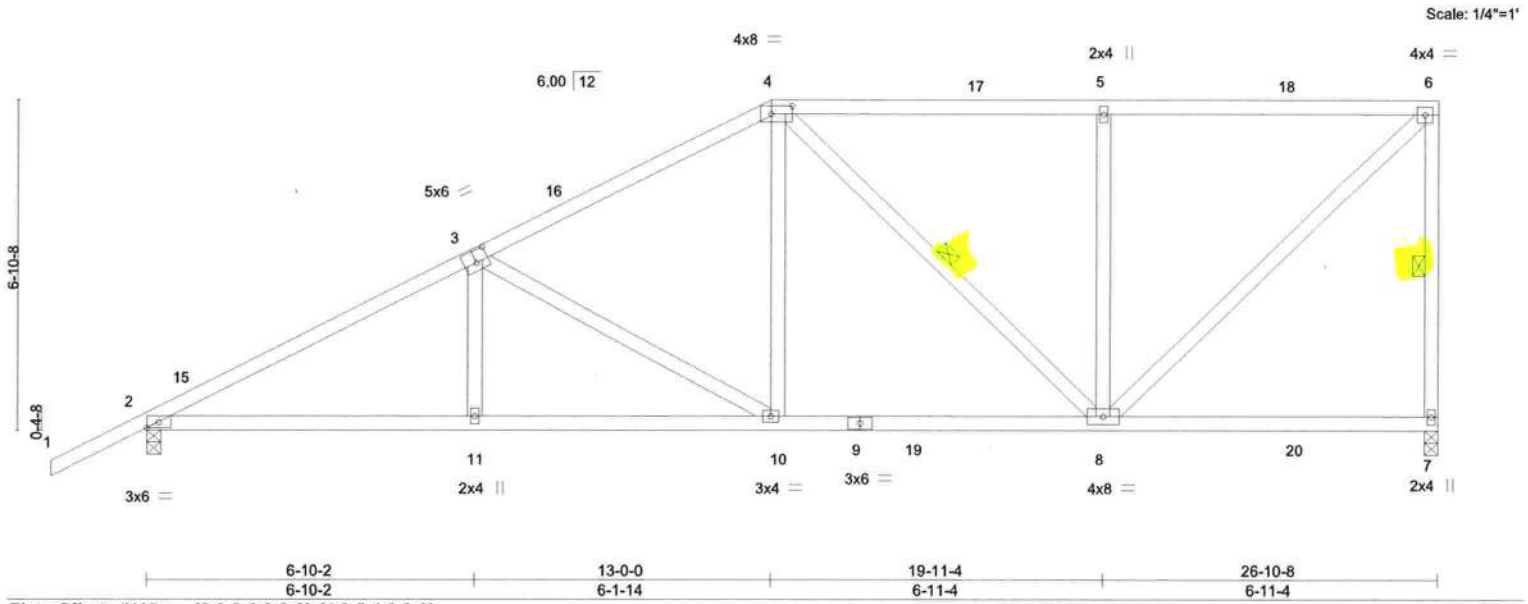
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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	-0.10 8-10 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.61	Vert(CT)	-0.17 11-14 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.05 7 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
								Weight: 156 lb FT = 20%			

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-10-15 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-3-7 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 6-7, 4-8

REACTIONS. (size) 7=0-3-8, 2=0-3-8
 Max Horz 2=254(LC 12)
 Max Uplift 7=-242(LC 9), 2=-271(LC 12)
 Max Grav 7=1116(LC 2), 2=1169(LC 2)

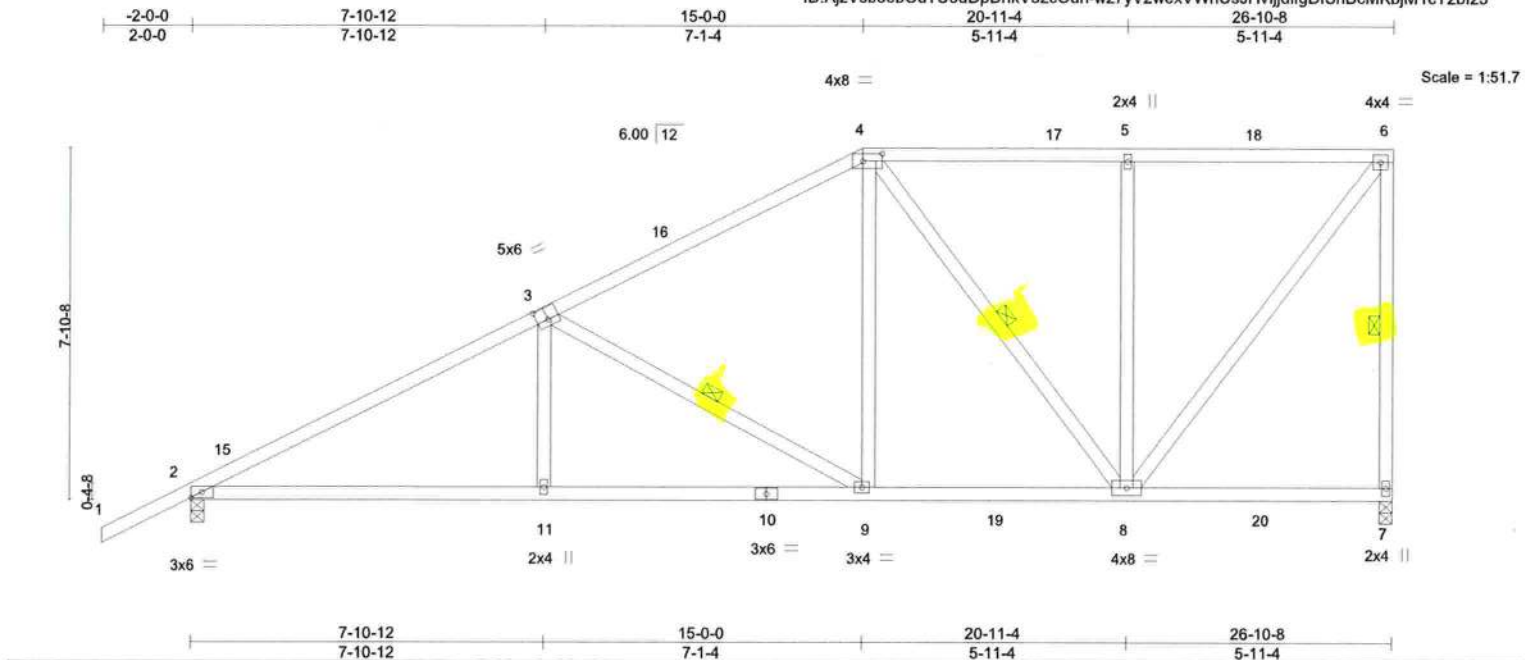
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1899/386, 3-4=-1332/297, 4-5=-900/203, 5-6=-900/203, 6-7=-982/258
 BOT CHORD 2-11=-500/1650, 10-11=-499/1653, 8-10=-305/1141
 WEBS 3-11=0/270, 3-10=-604/223, 4-10=-68/545, 4-8=-349/141, 5-8=-435/211, 6-8=-283/1232

- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 13-0-0, Exterior(2R) 13-0-0 to 17-2-15, Interior(1) 17-2-15 to 26-8-12 zone; 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=242, 2=271.



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LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.59	Vert(LL)	-0.13 11-14 >999 240	MT20		244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(CT)	-0.25 11-14 >999 180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.05 7 n/a n/a				
BCDL	10.0	Code FBC2020/TPI2014		Matrix-MS							
								Weight: 163 lb		FT = 20%	

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 3-7-11 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 8-1-12 oc bracing.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 6-7, 3-9, 4-8

REACTIONS.	
(size)	7=0-3-8, 2=0-3-8
Max Horz	2=288(LC 12)
Max Uplift	7=-233(LC 9), 2=-265(LC 12)
Max Grav	7=1119(LC 2), 2=1165(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	
TOP CHORD	2-3=-1842/363, 3-4=-1161/255, 4-5=-693/167, 5-6=-693/167, 6-7=-1001/247
BOT CHORD	2-11=-503/1593, 9-11=-503/1592, 8-9=-272/977
WEBS	3-11=0/326, 3-9=-720/266, 4-9=-88/598, 4-8=-462/171, 5-8=-372/181, 6-8=-274/1126

- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 15-0-0, Exterior(2R) 15-0-0 to 19-2-15, Interior(1) 19-2-15 to 26-8-12 zone; 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=233, 2=265.



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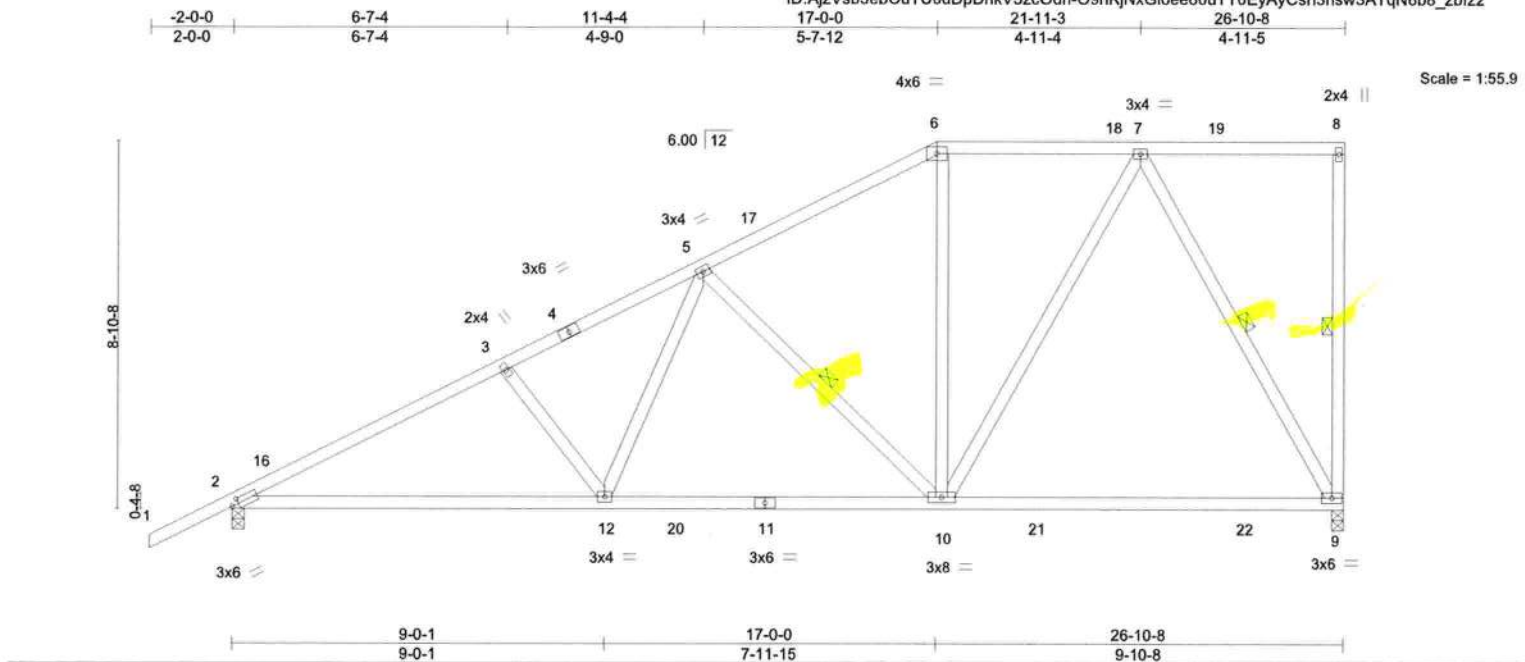


Plate Offsets (X,Y)--		[2:0-1-15,0-1-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.
TCLL 20.0	Plate Grip DOL	1.25	TC 0.55
TCDL 7.0	Lumber DOL	1.25	BC 0.81
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50
BCDL 10.0	Code	FBC2020/TPI2014	Matrix-MS
			DEFL.
			in (loc) l/defl L/d
			Vert(LL) -0.34 9-10 >949 240
			Vert(CT) -0.53 9-10 >601 180
			Horz(CT) 0.04 9 n/a n/a
			PLATES
			MT20
			GRIP
			244/190
			Weight: 166 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 7-11-2 oc bracing.
9-11: 2x4 SP M 31	WEBS 1 Row at midpt 8-9, 5-10, 7-9
WEBS 2x4 SP No.3	

REACTIONS. (size) 9=0-3-8, 2=0-3-8
 Max Horz 2=323(LC 12)
 Max Uplift 9=248(LC 12), 2=258(LC 12)
 Max Grav 9=1129(LC 2), 2=1179(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1853/360, 3-5=-1700/348, 5-6=-999/215, 6-7=-843/227
 BOT CHORD 2-12=-545/1625, 10-12=-405/1266, 9-10=-141/495
 WEBS 3-12=-285/169, 5-12=-100/551, 5-10=-602/250, 7-10=-177/113, 7-9=-986/292

- 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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 17-0-0, Exterior(2R) 17-0-0 to 21-2-15, Interior(1) 21-2-15 to 26-8-12 zone; 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.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=248, 2=258.



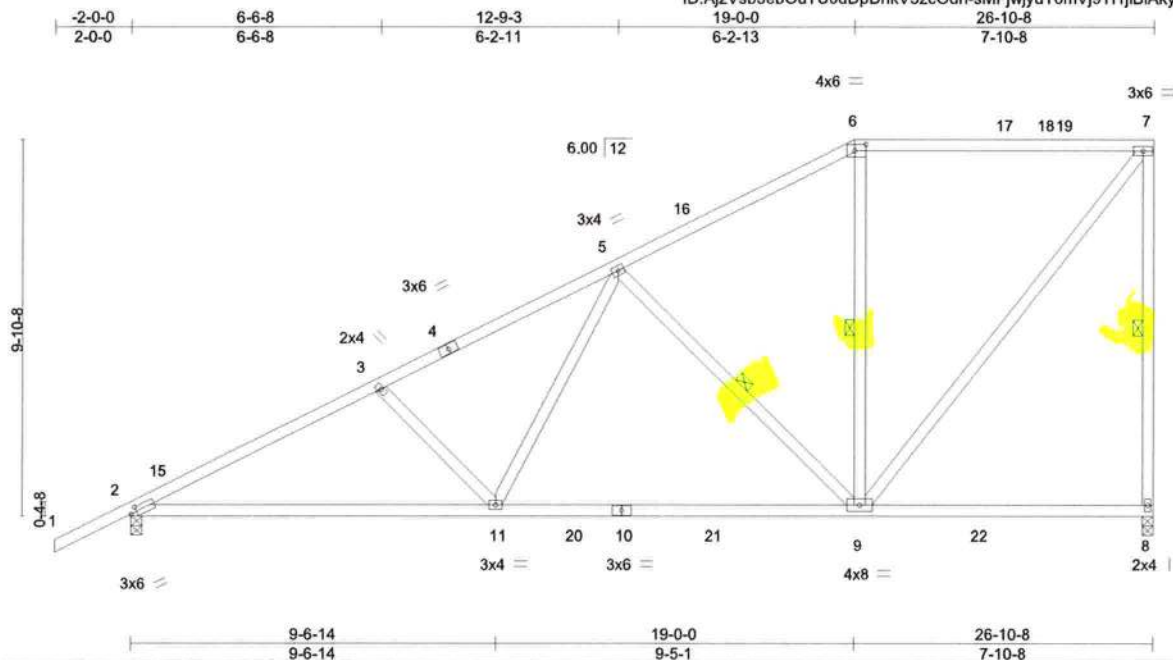
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JOB	TRUSS	Truss Type	Qty	Fly	CORNERSTONE - SPEC RISE	T23189419
2708556	T25	Half Hip	1	1	Job Reference (optional)	

Builders FirstSource (Jacksonville, FL), Jacksonville, FL - 32244, 8.430 s Mar 4 2021 MiTek Industries, Inc. Fri Mar 12 12:23:56 2021 Page 1

ID: AjzVsb3ebOuTU0dDpDnkV5zcOdh-sMFjwjuT6mVj9Tf1jIBiAkyIT4LIQqd31r8hQzbfz1



Scale = 1:60.7

Plate Offsets (X,Y)-- [2:0-1-15,0-1-8], [6:0-3-8,0-2-0]

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 0.85	Vert(LL)	-0.24 9-11	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.99	Vert(CT)	-0.39 9-11	>817	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.04 8	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS						
								Weight: 162 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 7-8, 5-9, 6-9

REACTIONS. (size) 8=0-3-8, 2=0-3-8
Max Horz 2=357(LC 12)
Max Uplift 8=-271(LC 12), 2=-248(LC 12)
Max Grav 8=1142(LC 2), 2=1180(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1869/347, 3-5=-1678/312, 5-6=-813/169, 6-7=-671/189, 7-8=-994/288
BOT CHORD 2-11=-570/1642, 9-11=-388/1149
WEBS 3-11=-335/200, 5-11=-100/662, 5-9=-686/280, 7-9=-301/1059

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) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 19-0-0, Exterior(2R) 19-0-0 to 23-2-15, Interior(1) 23-2-15 to 26-8-12 zone; 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.
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=271, 2=248.



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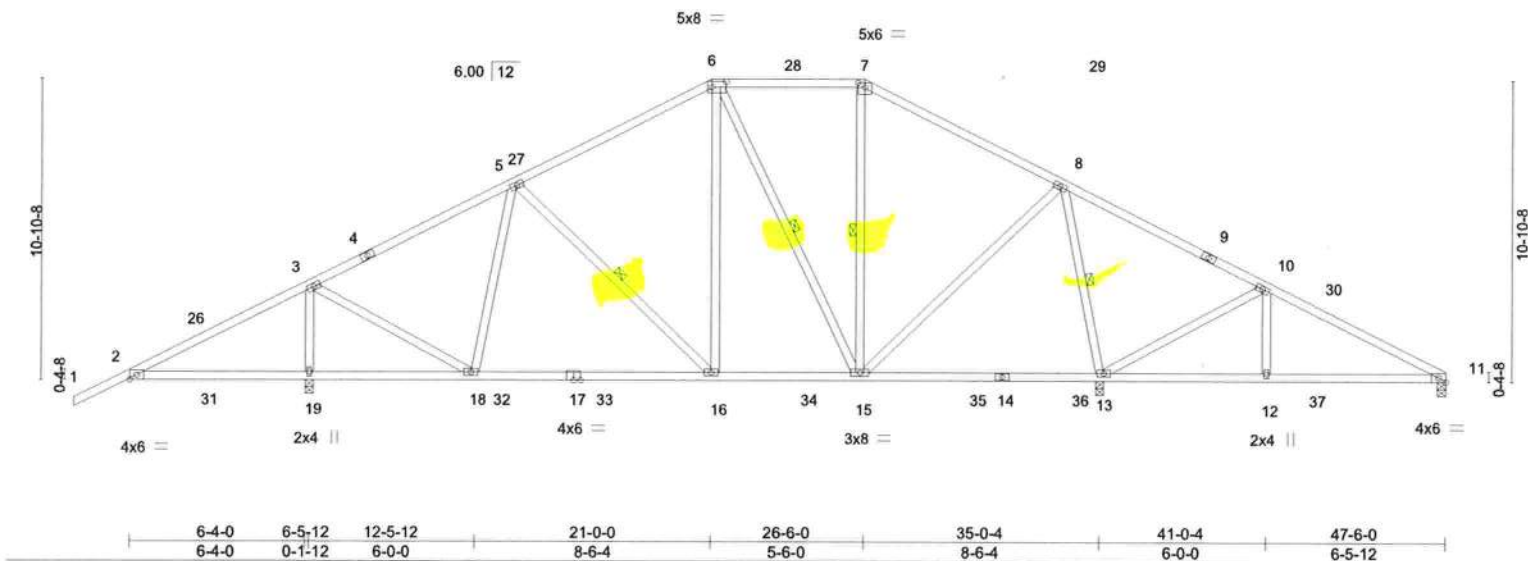
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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Tampa, FL 33610

Scale = 1:83.6



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 0.62	Vert(LL)	-0.22 16-18	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.74	Vert(CT)	-0.37 16-18	>932	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.53	Horz(CT)	0.01 11	n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014		Matrix-MS					Weight: 278 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 5-10-8 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-16, 6-15, 7-15, 8-13

REACTIONS. (size) 19=0-3-8, 13=0-3-8, 11=0-3-8
 Max Horz 19=186(LC 16)
 Max Uplift 19=413(LC 12), 13=345(LC 13), 11=111(LC 8)
 Max Grav 19=1809(LC 2), 13=1848(LC 2), 11=359(LC 26)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-671/771, 3-5=-737/146, 5-6=-803/226, 6-7=-527/226, 7-8=-669/206,
 8-10=-147/357, 10-11=-390/350
 BOT CHORD 2-19=-612/688, 18-19=-612/644, 16-18=-132/727, 15-16=-40/704, 12-13=-260/312,
 11-12=-260/312
 WEBS 3-19=-1586/608, 3-18=-437/1362, 5-18=-457/296, 6-16=-48/357, 6-15=-311/112,
 8-15=-90/740, 8-13=-1265/325, 10-13=-591/597, 10-12=-338/240

- 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) -2-0-0 to 2-9-0, Interior(1) 2-9-0 to 21-0-0, Exterior(2E) 21-0-0 to 26-6-0, Exterior(2R) 26-6-0 to 33-2-10, Interior(1) 33-2-10 to 47-6-0 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.
 - 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.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 19=413, 13=345, 11=111.

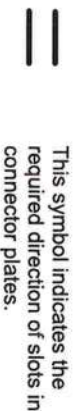
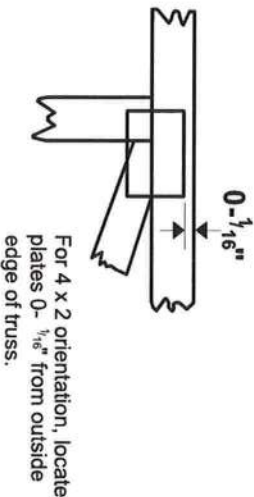
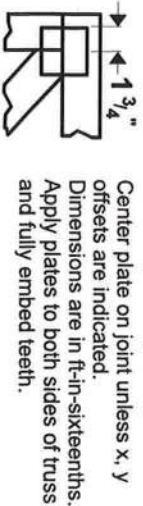


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Symbols

PLATE LOCATION AND ORIENTATION



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

PLATE SIZE

4 X 4

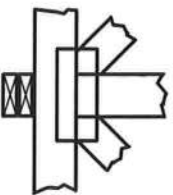
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

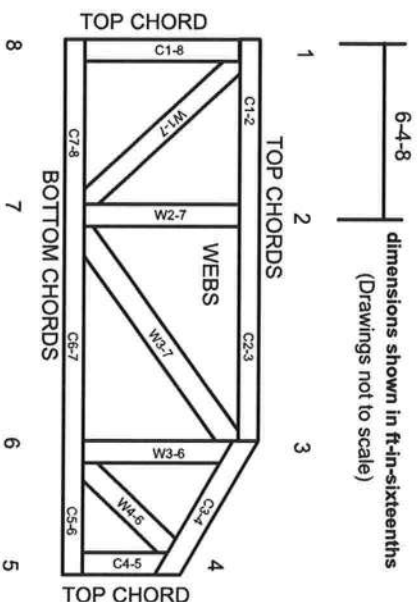


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: 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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: 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.