



RE: 3501826 - IC CONST - YOUNG RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Young Res. Model: Custom

Lot/Block: N/A Subdivision: N/A

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:

City: State:

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

Design Code: FBC2020/TPI2014 Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 58 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	T30381961	CJ01	4/21/23	15	T30381975	T02	4/21/23
2	T30381962	CJ02	4/21/23	16	T30381976	T02G	4/21/23
3	T30381963	CJ04	4/21/23	17	T30381977	T03	4/21/23
4	T30381964	CJ05	4/21/23	18	T30381978	<u>T04</u>	4/21/23
5	T30381965	CJ07	4/21/23	19	T30381979	<u>T</u> 05	4/21/23
<u>6</u>	T30381966	EJ01	4/21/23	20	T30381980	<u>T06</u>	4/21/23
7	T30381967	EJ02	4/21/23	21	T30381981	T07	4/21/23
8	T30381968	HJ09	4/21/23	22	T30381982	<u>T</u> 07G	4/21/23
9	T30381969	PB01	4/21/23	23	T30381983	T08	4/21/23
10	T30381970	PB02	4/21/23	24	T30381984	T09	4/21/23
11	T30381971	PB03	4/21/23	25	T30381985	T10	4/21/23
12	T30381972	PB04	4/21/23	26	T30381986	T11	4/21/23
13	T30381973	T01	4/21/23	27	T30381987	T12	4/21/23
14	T30381974	T01G	4/21/23	28	T30381988	T13	4/21/23



This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature.

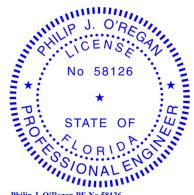
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: ORegan, Philip

My license renewal date for the state of Florida is February 28, 2025.

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



Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



RE: 3501826 - IC CONST - YOUNG RES.

MiTek USA, Inc. 16023 Swingley Ridge Rd Chesterfield, MO 63017

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Lot/Block: N/A Address: TBD, TBD

City: Columbia Cty State: FL

No. 29 30 31 32 33 34 35 36 37 38 39 40 41	Seal# T30381989 T30381990 T30381991 T30381993 T30381994 T30381995 T30381996 T30381997 T30381998 T30381999 T30382000 T30382001	Truss Name T14 T15 T15G T16 T17 T17G T18 T19 T20 T21 T22 T23 T24	Date 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23
42 43 44 45 46 47 49 55 55 55 55 57 58	T30382002 T30382003 T30382004 T30382006 T30382006 T30382007 T30382009 T30382010 T30382011 T30382011 T30382012 T30382013 T30382014 T30382016 T30382016 T30382017 T30382017	T25 T26 T27 T28 T29 V01 V02 V03 V04 V05 V06 V07 V08 V09 V10 V11 V12	4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23 4/21/23

Job Truss Truss Type Qty IC CONST - YOUNG RES T30381961 3501826 CJ01 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:10 2023 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-Ln4bnwiJLZgbghHLHKefna15C5YDTsyKVpu90wzOYGV

1-6-0

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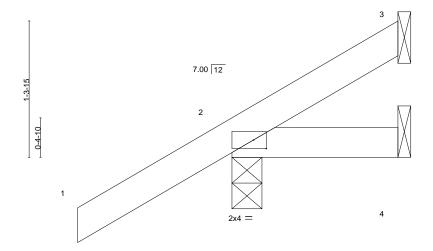


Plate Offsets (X,Y) [2:0-1-8,0-1-0]										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP						
TCLL 20.0	Plate Grip DOL 1.25	TC 0.15	Vert(LL) 0.00 7 >999 240	MT20 244/190						
TCDL 7.0	Lumber DOL 1.25	BC 0.03	Vert(CT) -0.00 7 >999 180							
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 2 n/a n/a							
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP		Weight: 8 lb FT = 20%						

LUMBER-

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

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 1-7-6 oc purlins.

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

REACTIONS.

3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=58(LC 12) Max Uplift 3=-14(LC 12), 2=-58(LC 12)

Max Grav 3=22(LC 19), 2=178(LC 1), 4=23(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.
- * 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.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:





Job Truss Truss Type Qty IC CONST - YOUNG RES T30381962 3501826 CJ02 Jack-Open Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:11 2023 Page 1

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-p_ez?Gjy6toSHrsYr29uJoZFBUu4CJCTjTejYNzOYGU

Structural wood sheathing directly applied or 2-3-1 oc purlins.

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

2-3-1 1-6-0

Scale = 1:16.5

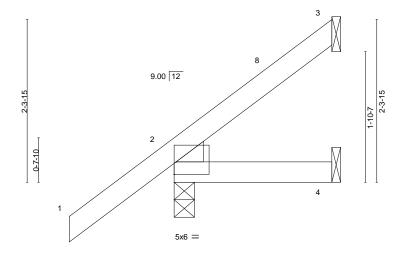


Plate Offsets (X,Y)	Plate Offsets (X,Y) [2:Edge,0-2-2]										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP							
TCLL 20.0	Plate Grip DOL 1.25	TC 0.20	Vert(LL) -0.00 7 >999 240	MT20 244/190							
TCDL 7.0	Lumber DOL 1.25	BC 0.06	Vert(CT) -0.00 7 >999 180								
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a								
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP		Weight: 11 lb FT = 20%							

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=90(LC 12)

Max Uplift 3=-36(LC 12), 2=-39(LC 12), 4=-1(LC 12) Max Grav 3=44(LC 19), 2=190(LC 1), 4=36(LC 3)

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

- 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 2-2-5 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, 4.

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:





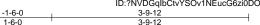
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Lake City, FL - 32055,

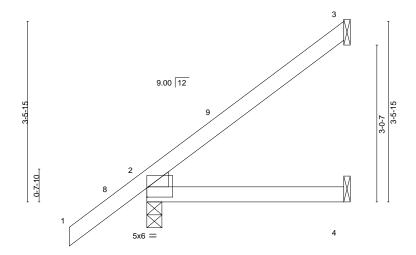
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Structural wood sheathing directly applied or 3-9-12 oc purlins.

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



Scale = 1:22.3



3-9-12

BRACING-

TOP CHORD

BOT CHORD

Plate Offs	Plate Offsets (X,Y) [2:Edge,0-2-6]											
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	0.18	Vert(LL)	0.02	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	3	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 16 lb	FT = 20%

LUMBER-

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

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=130(LC 12)

Max Uplift 3=-68(LC 12), 2=-33(LC 12), 4=-5(LC 12) Max Grav 3=90(LC 19), 2=236(LC 1), 4=67(LC 3)

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

- 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 3-9-0 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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- 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, 4.

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job Truss Truss Type Qty IC CONST - YOUNG RES T30381964 3501826 CJ05 Jack-Open Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:14 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-EZJ5dHlqOoA18lb6WAicxQBniitDPgxvPQsN9izOYGR

4-2-4

Scale = 1:18.7

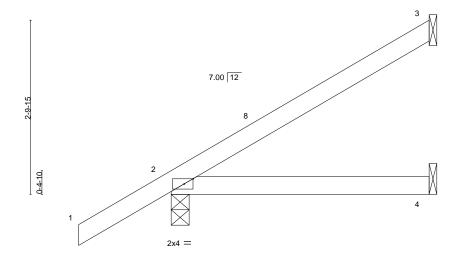


Plate Offsets (X,Y)	[2:0-1-12,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.18	Vert(LL) -0.01 4-7 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.16	Vert(CT) -0.03 4-7 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP		Weight: 16 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.2

(size)

Max Horz 2=109(LC 12) Max Uplift 3=-60(LC 12), 2=-55(LC 12)

Max Grav 3=96(LC 19), 2=248(LC 1), 4=73(LC 3)

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

3=Mechanical, 2=0-3-8, 4=Mechanical

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 4-1-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

1-6-0

- 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.
- * 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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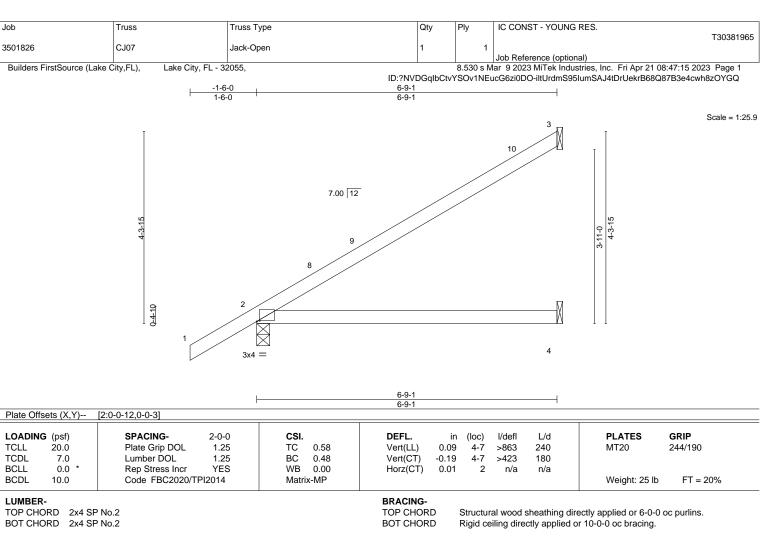
Structural wood sheathing directly applied or 4-2-4 oc purlins.

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

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:







REACTIONS.

3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=156(LC 12)

Max Uplift 3=-93(LC 12), 2=-65(LC 12)

Max Grav 3=165(LC 19), 2=338(LC 1), 4=122(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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-8-5 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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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 21,2023



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

AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





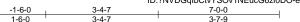
Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-e8?EFJnihjYc?mJhBIGJZ3pFcvrmc0MM6O51l0zOYGO

Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



Scale = 1:34.6

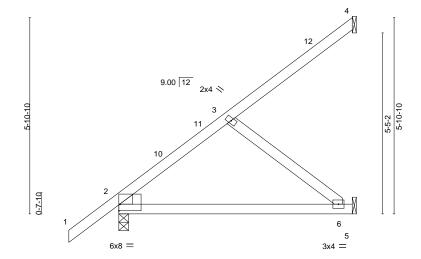


Plate Offsets (X,Y)	Plate Offsets (X,Y) [2:Edge,0-2-6]										
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP							
TCLL 20.0	Plate Grip DOL 1.25	TC 0.33	Vert(LL) -0.07 6-9 >999 240	MT20 244/190							
TCDL 7.0	Lumber DOL 1.25	BC 0.42	Vert(CT) -0.15 6-9 >561 180								
BCLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.01 2 n/a n/a								
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 33 lb FT = 20%							

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

REACTIONS.

Left: 2x4 SP No.3

(size) 4=Mechanical, 2=0-3-8, 5=Mechanical

Max Horz 2=205(LC 12)

Max Uplift 4=-55(LC 12), 2=-35(LC 12), 5=-70(LC 12) Max Grav 4=84(LC 19), 2=346(LC 1), 5=183(LC 19)

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 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.
- 3) 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.
- 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, 2, 5.

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job Truss Truss Type Qty IC CONST - YOUNG RES T30381967 3501826 EJ02 Jack-Closed Girder Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:18 2023 Page 1

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-6KZcTfoLS0gTdwuul0nY5GMRpJElLQuVK2qblTzOYGN

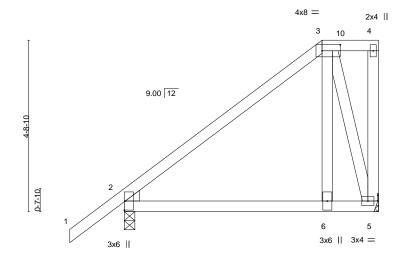
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

1-6-0 5-5-6 1-6-10

Scale: 3/8"=1



7-0-0

BRACING-

TOP CHORD

BOT CHORD

_Plate Of	Plate Offsets (X,Y) [3:0-6-0,0-2-0]											
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.03	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.25	Vert(CT)	-0.05	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	, ,					Weight: 45 lb	FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 5=Mechanical

Max Horz 2=175(LC 8)

Max Uplift 2=-95(LC 8), 5=-262(LC 8) Max Grav 2=417(LC 1), 5=556(LC 1)

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

TOP CHORD 2-3=-305/63

WEBS 3-6=-123/465, 3-5=-620/326

- 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) 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 127 lb down and 136 lb up at 5-5-6 on top chord, and 267 lb down and 128 lb up at 5-5-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) 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: 1-3=-54, 3-4=-54, 5-7=-20

Concentrated Loads (lb)

Vert: 6=-267(B) 3=-117(B)

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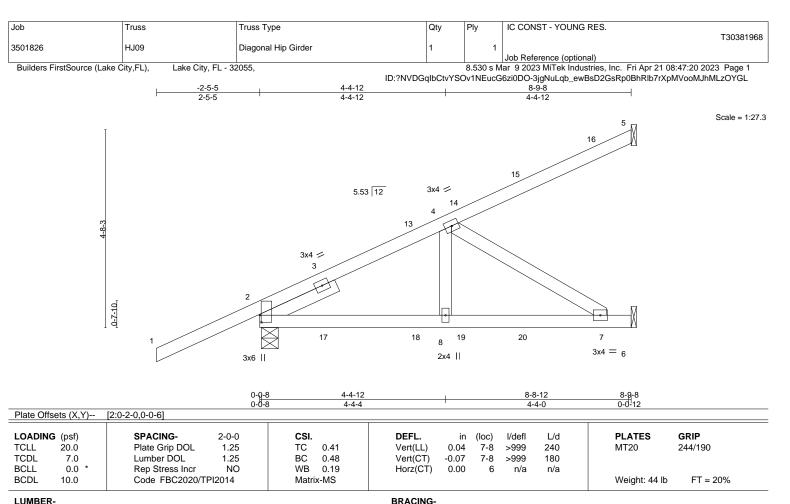
April 21,2023

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





TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS. (size) 5=Mechanical, 2=0-4-12, 6=Mechanical

Max Horz 2=171(LC 8)

Max Uplift 5=-125(LC 8), 2=-139(LC 8), 6=-103(LC 8) Max Grav 5=185(LC 1), 2=494(LC 1), 6=307(LC 32)

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

TOP CHORD 2-4=-459/125

BOT CHORD 2-8=-192/399 7-8=-192/399 **WEBS** 4-8=0/253, 4-7=-469/226

- 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=125, 2=139, 6=103
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 70 lb down and 12 lb up at 1-6-13, 66 lb down and 35 lb up at 3-9-1, 101 lb down and 66 lb up at 4-9-15, and 91 lb down and 75 lb up at 6-3-7, and 125 lb down and 103 lb up at 8-1-0 on top chord, and 9 lb down and 6 lb up at 1-6-13, 19 lb down and 6 lb up at 3-9-1, 36 lb down at 4-9-15, and 37 lb down and 16 lb up at 6-3-7, and 76 lb down and 21 lb up at 8-1-0 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: 1-5=-54, 6-9=-20

Vert: 7=-59(B) 14=-5(B) 15=-13(F) 16=-96(B) 17=6(B) 18=2(F) 19=-14(B) 20=-16(F)

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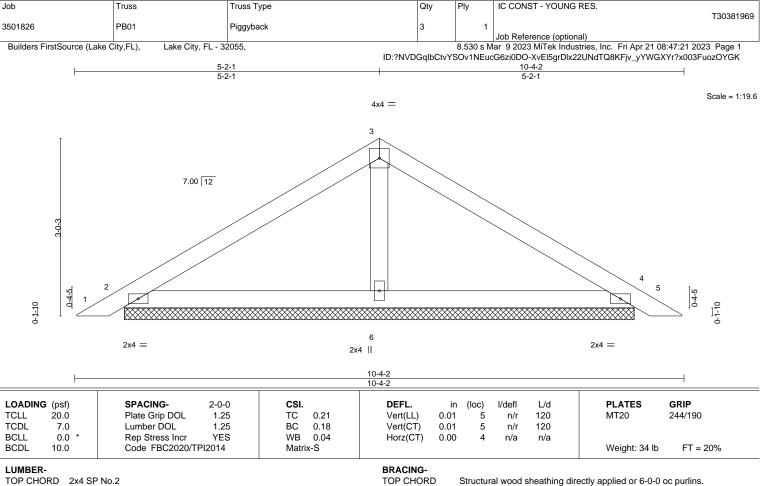
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Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

Chesterfield, MO 63017



BOT CHORD

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

TOP CHORD

2x4 SP No 2 2x4 SP No.2

BOT CHORD OTHERS 2x4 SP No.3

REACTIONS.

2=8-7-13, 4=8-7-13, 6=8-7-13 (size)

Max Horz 2=62(LC 11)

Max Uplift 2=-54(LC 12), 4=-62(LC 13), 6=-46(LC 12) Max Grav 2=181(LC 1), 4=181(LC 1), 6=335(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) 0-3-11 to 3-3-11, Interior(1) 3-3-11 to 5-2-1, Exterior(2R) 5-2-1 to 8-2-1, Interior(1) 8-2-1 to 10-0-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- * 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, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building

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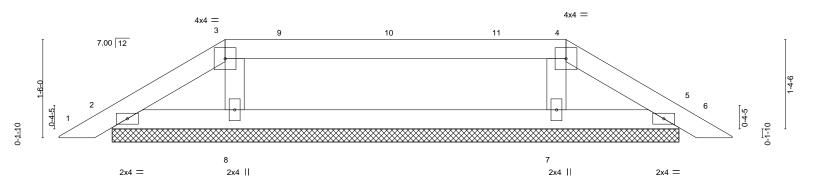
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Job Truss Truss Type Qty IC CONST - YOUNG RES T30381970 3501826 PB02 Piggyback Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:23 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-TIMVWMsTHZJlkhnrYZNjoK3HoKyX0lbEUKYLzgzOYGI 7-9-4 2-6-13

Scale = 1:17.6



10-4-2 10-4-2										
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 0.28	Vert(LL) -	·0.00 ` Ś	n/r	120	MT20	244/190		
TCDL 7.0	Lumber DOL 1.25	BC 0.15	Vert(CT) -	0.00	n/r	120				
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(CT)	0.00 5	n/a	n/a				
BCDL 10.0	Code FBC2020/TPI2014	Matrix-S	, ,				Weight: 32 lb	FT = 20%		

BOT CHORD

LUMBER-BRACING-TOP CHORD

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

2x4 SP No.3

REACTIONS. All bearings 8-7-13.

(lb) -Max Horz 2=-29(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 5, 7, 8

Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 7=286(LC 24), 8=286(LC 23)

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) 0-3-11 to 2-6-13, Exterior(2R) 2-6-13 to 6-9-12, Interior(1) 6-9-12 to 7-9-4, Exterior(2E) 7-9-4 to 10-0-7 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.
- * 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, 7, 8.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building

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Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

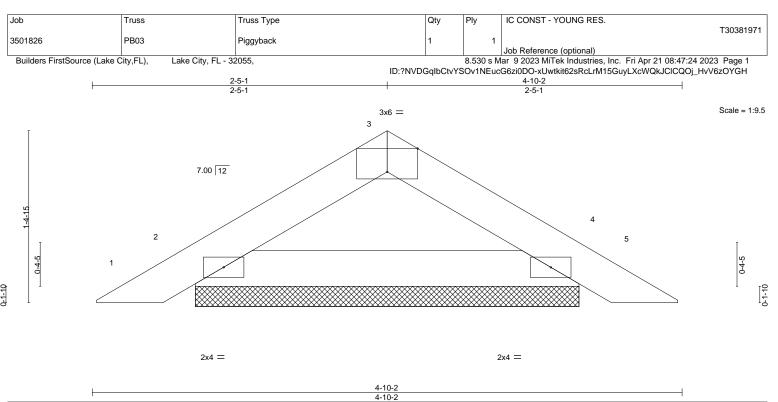


Plate Offsets (X,Y)--[3:0-3-0,Edge] SPACING-DEFL. (loc) GRIP LOADING (psf) 2-0-0 CSI. in I/defI L/d **PLATES** 1.25 244/190 TCLL 20.0 Plate Grip DOL TC 0.04 Vert(LL) 0.00 120 MT20 n/r TCDL 7.0 Lumber DOL 1.25 ВС 0.12 Vert(CT) 0.00 4 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Code FBC2020/TPI2014 FT = 20% **BCDL** 10.0 Matrix-P Weight: 13 lb

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=3-1-13, 4=3-1-13 Max Horz 2=27(LC 11) Max Uplift 2=-36(LC 12), 4=-36(LC 13) Max Grav 2=146(LC 1), 4=146(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.
- * 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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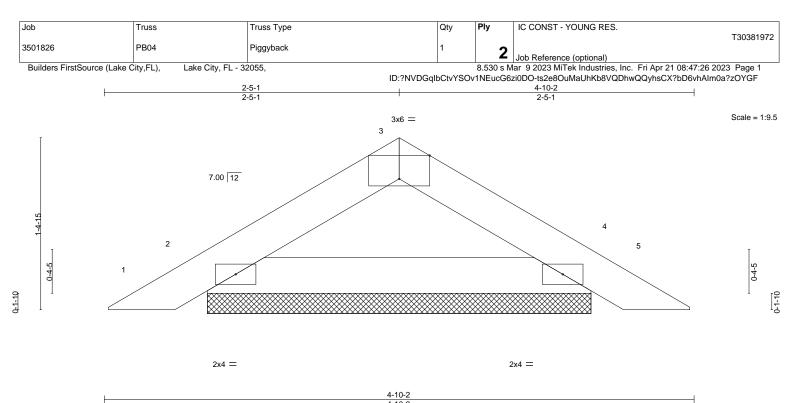


Plate Offsets (X,Y)--[3:0-3-0,Edge] SPACING-LOADING (psf) 2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP 1.25 TCLL 20.0 Plate Grip DOL TC 0.02 Vert(LL) 0.00 120 MT20 244/190 n/r TCDL 7.0 Lumber DOL 1.25 ВС 0.06 Vert(CT) 0.00 4 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Code FBC2020/TPI2014 FT = 20% **BCDL** 10.0 Matrix-P Weight: 26 lb

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 **BRACING-**

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 4-10-2 oc purlins.

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

REACTIONS.

(size) 2=3-1-13, 4=3-1-13 Max Horz 2=27(LC 11) Max Uplift 2=-36(LC 12), 4=-36(LC 13) Max Grav 2=146(LC 1), 4=146(LC 1)

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

NOTES-

1) 2-ply truss to be connected together as follows:

Top chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc. Bottom chords connected with 10d (0.131"x3") nails as follows: 2x4 - 1 row at 0-9-0 oc.

2) 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.

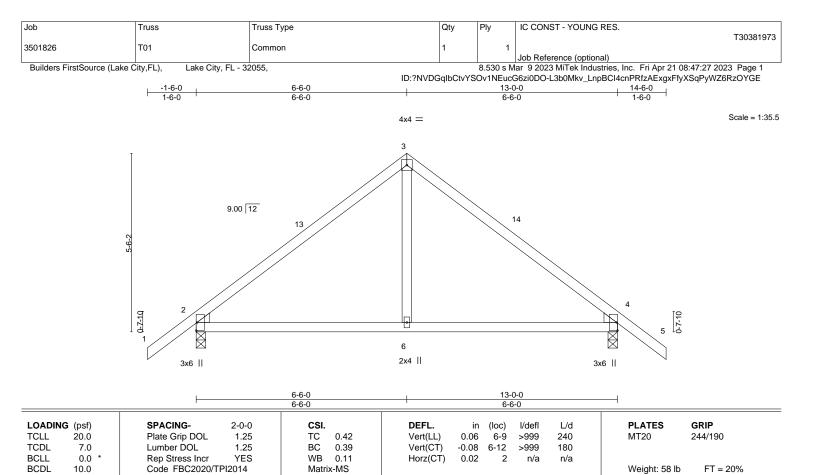
3) Unbalanced roof live loads have been considered for this design.

- 4) 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Gable requires continuous bottom chord bearing.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=132(LC 11)

Max Uplift 2=-124(LC 12), 4=-124(LC 13) Max Grav 2=562(LC 1), 4=562(LC 1)

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

2-3=-518/160, 3-4=-518/160 TOP CHORD BOT CHORD 2-6=-22/348, 4-6=-22/348

WEBS 3-6=-7/286

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-6-0, Exterior(2R) 6-6-0 to 9-6-0, Interior(1) 9-6-0 to 14-6-0 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) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=124, 4=124.

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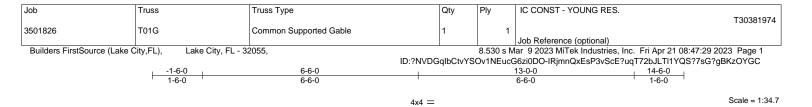
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Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



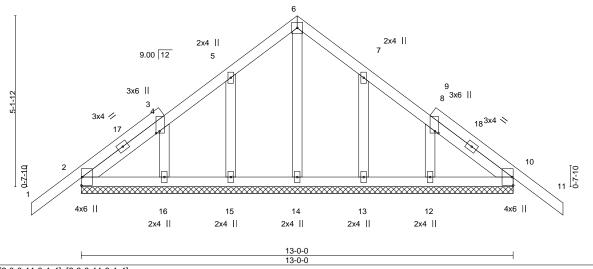


Plate Offs	Plate Offsets (X,Y) [3:0-0-11,0-1-4], [9:0-0-11,0-1-4]											
LOADING	G (psf)	SPACING- 2-	0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	.25	TC	0.14	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL 1	.25	BC	0.04	Vert(CT)	-0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr Y	ES	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI201	14	Matri	x-S						Weight: 79 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 **OTHERS** 2x4 SP No.3 **BRACING-**

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

REACTIONS. All bearings 13-0-0.

(lb) -Max Horz 2=124(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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 Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-6-0, Corner(3R) 6-6-0 to 9-6-0, Exterior(2N) 9-6-0 to 14-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOI = 1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 7) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13,
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10.

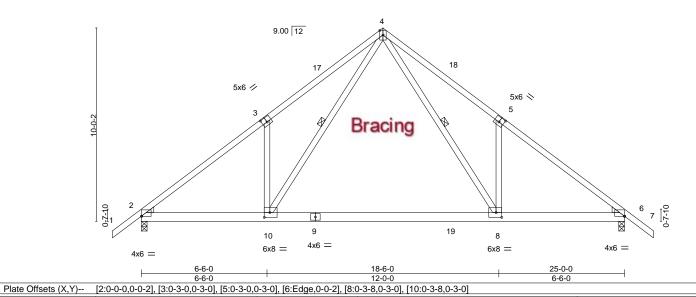
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Job Truss Truss Type Qty IC CONST - YOUNG RES T30381975 3501826 T₀₂ Common Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:31 2023 Page 1 Builders FirstSource (Lake City,FL) Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-EqrXC5yVO0JdhwOO0FWb70OZSYc_uFlQKaUnFDzOYGA 26-6-0 -1-6-0 1-6-0 18-6-0 6-6-0 6-0-0 6-0-0 6-6-0 1-6-0 Scale = 1:59.6 4x6 |



LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr NO	CSI. TC 0.69 BC 0.49 WB 0.47	DEFL. in (loc) l/defl L/d Vert(LL) -0.33 8-10 >920 240 Vert(CT) -0.61 8-10 >492 180 Horz(CT) 0.03 6 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	, , , , , , , , , , , , , , , , , , , ,	Weight: 159 lb FT = 20%

BRACING-

WEBS

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP M 26 WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 6=0-3-8

Max Horz 2=231(LC 11)

Max Uplift 2=-306(LC 12), 6=-306(LC 13) Max Grav 2=1506(LC 19), 6=1506(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2166/407, 3-4=-2209/610, 4-5=-2209/610, 5-6=-2166/407

BOT CHORD 2-10=-352/1805, 8-10=-121/1047, 6-8=-242/1682 4-8=-426/1419, 5-8=-351/295, 4-10=-426/1420, 3-10=-351/295 **WEBS**

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 26-6-0 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) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=306, 6=306
- 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: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

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April 21,2023

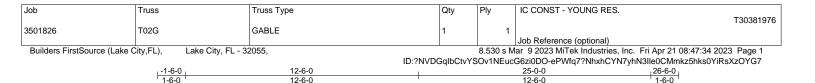


Structural wood sheathing directly applied or 3-2-5 oc purlins.

4-8, 4-10

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

1 Row at midpt



4x4 =

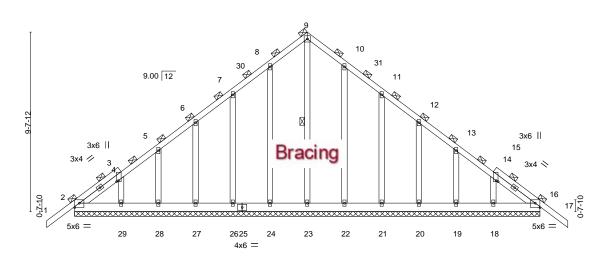


Plate Offsets (X,Y)--[2:Edge,0-2-14], [3:0-0-11,0-1-4], [15:0-0-11,0-1-4], [16:Edge,0-2-14] SPACING-DEFL. LOADING (psf) in (loc) I/defI L/d **PLATES GRIP** Plate Grip DOL 1.25 TCLL 20.0 TC 0.14 Vert(LL) -0.01 17 120 MT20 244/190 n/r TCDL 7.0 Lumber DOL 1.25 ВС 0.03 Vert(CT) -0.01 17 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.14 Horz(CT) 0.01 16 n/a n/a Code FBC2020/TPI2014 FT = 20% **BCDL** 10.0 Weight: 198 lb Matrix-S

25-0-0

LUMBER-

2x4 SP No.2 TOP CHORD 2x6 SP No.2 **BOT CHORD OTHERS** 2x4 SP No.3 BRACING-

WEBS

TOP CHORD **BOT CHORD** 2-0-0 oc purlins (6-0-0 max.).

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

1 Row at midpt 9-23

REACTIONS. All bearings 25-0-0.

(lb) -Max Horz 2=-223(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18 Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 26-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 24, 26, 27, 28, 29, 22, 21, 20, 19, 18.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

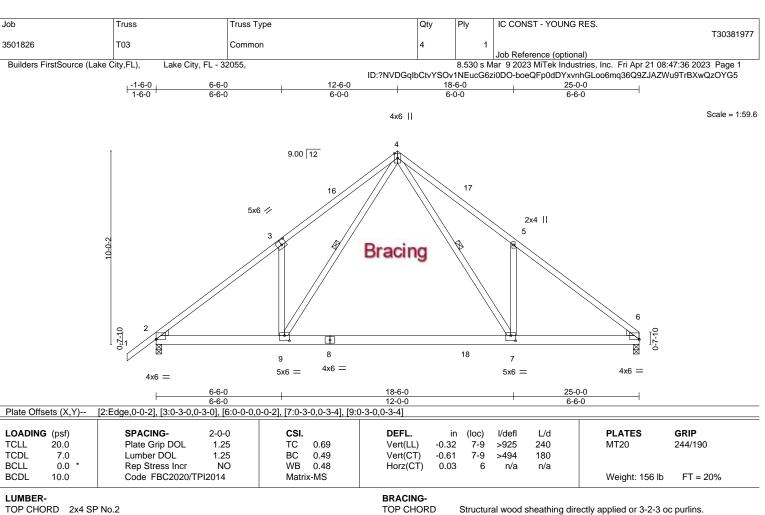
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Scale = 1:61.9

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BOT CHORD

WEBS

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

4-7, 4-9

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No.2 2x6 SP M 26 BOT CHORD WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 6=0-3-8, 2=0-3-8

Max Horz 2=223(LC 9)

Max Uplift 6=-273(LC 13), 2=-307(LC 12) Max Grav 6=1429(LC 20), 2=1507(LC 19)

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

2-3=-2168/407, 3-4=-2211/611, 4-5=-2226/623, 5-6=-2177/414 **BOT CHORD** 2-9=-369/1794, 7-9=-138/1036, 6-7=-259/1675

WEBS 4-7=-440/1439, 5-7=-356/299, 4-9=-426/1419, 3-9=-351/295

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 25-0-0 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) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=273, 2=307
- 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: 1-4=-54, 4-6=-54, 9-13=-20, 7-9=-80(F=-60), 7-10=-20

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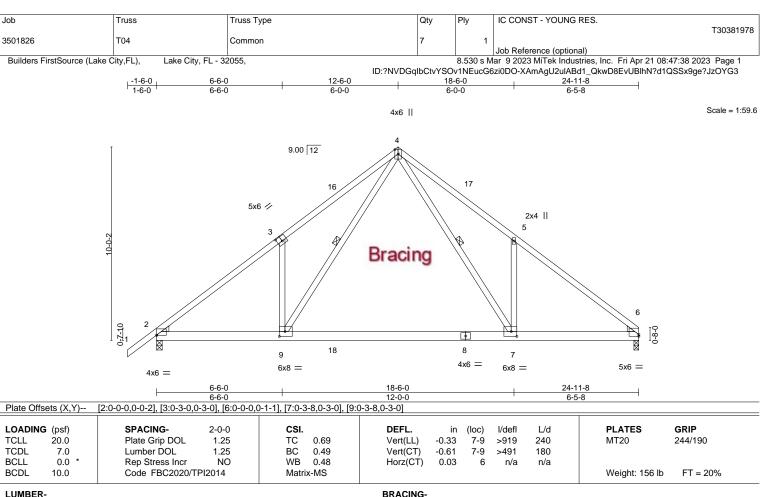
April 21,2023

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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

AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2 2x6 SP M 26 BOT CHORD WEBS 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

REACTIONS. (size) 6=0-3-0, 2=0-3-8

Max Horz 2=223(LC 9)

Max Uplift 6=-273(LC 13), 2=-306(LC 12) Max Grav 6=1428(LC 20), 2=1505(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-2165/407, 3-4=-2208/610, 4-5=-2212/620, 5-6=-2165/411

BOT CHORD 2-9=-369/1791, 7-9=-138/1033, 6-7=-258/1664

3-9=-351/295, 4-9=-426/1420, 4-7=-437/1426, 5-7=-354/299 **WEBS**

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 24-11-8 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) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=273, 2=306
- 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: 1-4=-54, 4-6=-54, 9-13=-20, 7-9=-80(F=-60), 7-10=-20

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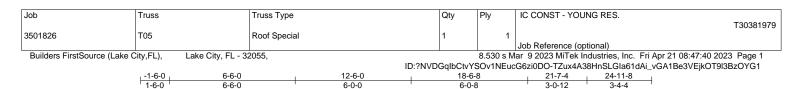


Structural wood sheathing directly applied or 3-2-5 oc purlins.

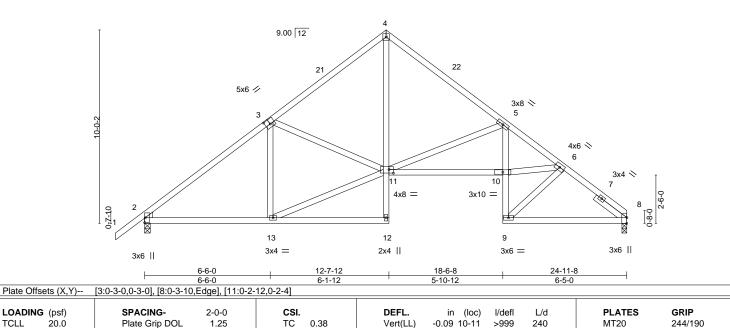
4-9, 4-7

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

1 Row at midpt







Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.22 10-11

0.13

>999

n/a

180

n/a

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

Structural wood sheathing directly applied or 3-10-10 oc purlins.

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

20.0

7.0

0.0

10.0

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

2x4 SP No.2 *Except*

4-12,5-9: 2x4 SP No.3 2x4 SP No.3

WEBS WEDGE

Left: 2x4 SP No.3

SLIDER Right 2x4 SP No.3 1-11-8

REACTIONS. (size) 8=0-3-0, 2=0-3-8

Max Horz 2=223(LC 9) Max Uplift 8=-175(LC 13), 2=-209(LC 12)

Max Grav 8=921(LC 1), 2=1007(LC 1)

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1215/237, 3-4=-1122/248, 4-5=-1127/275, 5-6=-2150/387, 6-8=-1196/248 **BOT CHORD** 2-13=-229/925, 4-11=-193/912, 10-11=-235/1764, 9-10=-115/856, 5-10=-76/759,

1.25

YES

ВС

WB

Matrix-MS

0.62

0.87

WEBS 3-13=-251/122, 11-13=-246/992, 5-11=-1023/318, 6-10=-220/1679, 6-9=-1191/191

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 24-11-8 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) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=175, 2=209,

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FT = 20%

Weight: 156 lb

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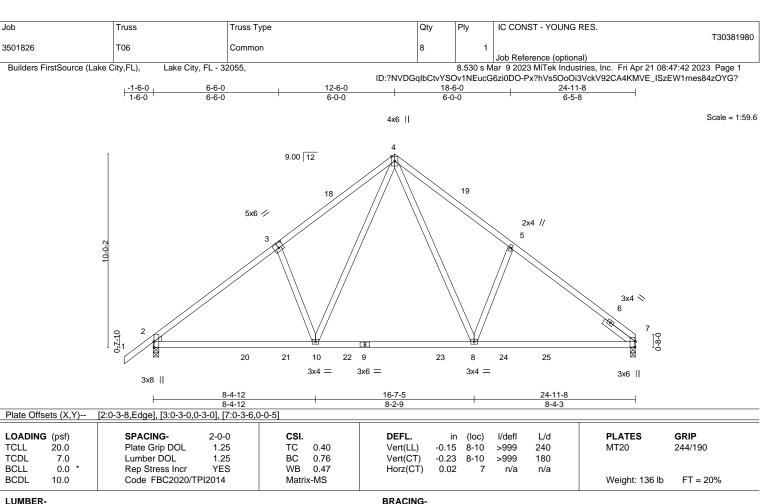
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TOP CHORD

BOT CHORD

LUMBER-

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

Left: 2x4 SP No.3

Right 2x4 SP No.3 1-11-8 SLIDER

REACTIONS.

(size) 7=0-3-0, 2=0-3-8 Max Horz 2=223(LC 9)

Max Uplift 7=-175(LC 13), 2=-209(LC 12) Max Grav 7=1087(LC 20), 2=1165(LC 19)

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

TOP CHORD 2-3=-1364/242, 3-4=-1294/330, 4-5=-1298/336, 5-7=-1280/249

2-10=-231/1167, 8-10=-55/768, 7-8=-122/1042 **BOT CHORD**

3-10=-328/256, 4-10=-213/721, 4-8=-221/726, 5-8=-327/258 **WEBS**

- 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 24-11-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) 7=175, 2=209.

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Structural wood sheathing directly applied or 4-9-5 oc purlins.

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

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 21,2023



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

AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty IC CONST - YOUNG RES T30381981 3501826 T07 Roof Special Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:43 2023 Page 1 Builders FirstSource (Lake City,FL) Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-t8Z3jC60Ziqw7mJhjmkPcYueqOdiieuB4ROPgWzOYG_ 26-6-0 -1-6-0 1-6-0 17-6-4 20-6-0 25-0-0 4-8-0 5-8-0 2-2-0 5-0-4 2-11-12 4-6-0 1-6-0

4x6 ||

5 2x4 | 9.00 12 22 2x4 || 6 5x6 // 5x6 📏 3 3x4 N 12 5x8 = 11 2x4 || 14 13 5.00 12 5x6 || 5x8 = 2x4 | 3x6 || 25-0-0 10-4-0 4-8-0 5-8-0 [3:0-3-0,0-3-0], [7:0-3-0,0-3-0], [9:0-1-12,0-0-15], [13:0-5-12,0-2-8] DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

0.18

-0.16 12-13

-0.35 12-13

I/defI

>999

>846

n/a

L/d

240

180

n/a

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

PLATES

Weight: 159 lb

MT20

Structural wood sheathing directly applied or 3-2-10 oc purlins.

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

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

20.0

7.0

0.0

10.0

Left: 2x4 SP No.3

Plate Offsets (X,Y)--

LOADING (psf)

Right 2x4 SP No.3 1-11-8 SLIDER

REACTIONS. (size) 2=0-3-8, 9=0-3-8

Max Horz 2=-231(LC 10)

Max Uplift 2=-208(LC 12), 9=-208(LC 13)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

Max Grav 2=1006(LC 1), 9=1006(LC 1)

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

TOP CHORD 2-3=-1242/234, 3-4=-979/247, 4-5=-936/351, 5-6=-2192/439, 6-7=-2113/344,

7-9=-2178/334

BOT CHORD 2-14=-245/986, 13-14=-244/987, 12-13=-49/747, 11-12=-216/1832, 9-11=-213/1785 3-13=-302/177, 4-13=-265/202, 5-13=-251/355, 5-12=-254/1721, 6-12=-287/205 WFBS

2-0-0

1.25

1.25

YES

CSI.

TC

ВС

WB

Matrix-MS

0.54

0.82

0.66

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 26-6-0 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=208, 9=208

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Scale = 1:60.7

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:





Job Truss Truss Type Qty IC CONST - YOUNG RES T30381982 3501826 T07G GABLE Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:46 2023 Page 1 Lake City, FL - 32055,

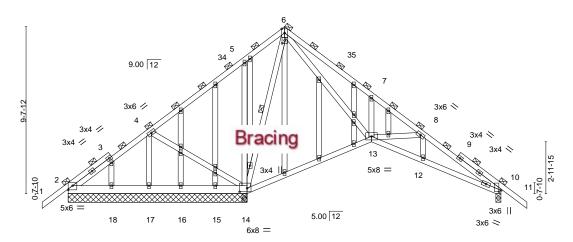
Builders FirstSource (Lake City,FL),

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-ljFCLE8vsdCV_D1GOuH6EAWChbj4v2TdmPc3GrzOYFx

12-6-0 17-6-4 20-6-0 26-6-0 4-8-0 5-8-0 2-2-0 5-0-4 2-11-12 4-6-0

> 4x4 || 4x6 II

Scale = 1:66.5



25-0-0 10-4-0 20-6-0 4-8-0

Plate Oils	sets (X,Y)	[2:Eage,0-2-14], [6:0-2-0,0-	-1-12], [10:0-1	1-0,0-1-7], [1	4:0-5-4,0-2-8	1					
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.37	Vert(LL)	-0.11 13-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(CT)	-0.22 13-14	>820	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04 10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI	2014	Matri	x-S	, ,				Weight: 221 lb	FT = 20%

LUMBER-

2x4 SP No.2 TOP CHORD

2x4 SP No.2 *Except* **BOT CHORD**

2-14: 2x6 SP No.2

2x4 SP No.3 WEBS

OTHERS 2x4 SP No.3

BRACING-TOP CHORD

BOT CHORD

2-0-0 oc purlins (6-0-0 max.).

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 12-13,10-12.

WEBS 1 Row at midpt

REACTIONS. All bearings 10-4-0 except (jt=length) 10=0-3-8.

Max Horz 2=224(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 15 except 17=-167(LC 24), 14=-212(LC 12), 10=-130(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 17, 16, 18 except 14=1440(LC 1), 14=1440(LC 1), 10=409(LC 24)

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

TOP CHORD 2-4=-102/349, 4-5=-54/618, 5-6=0/547, 6-7=-299/141, 8-10=-627/84

BOT CHORD 2-18=-260/164, 17-18=-260/164, 16-17=-260/164, 15-16=-260/164, 14-15=-260/164,

13-14=-322/272, 12-13=0/487, 10-12=0/489

WFBS 4-14=-275/112, 5-14=-273/204, 6-14=-852/18, 6-13=-102/614, 7-13=-269/205,

8-13=-293/158

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 26-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15 except (jt=lb) 17=167, 14=212, 10=130.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 21,2023

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

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



Job Truss Truss Type Qty IC CONST - YOUNG RES T30381983 3501826 T08 Roof Special 3 Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:48 2023 Page 1 Builders FirstSource (Lake City,FL) Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-E5Nymv99OESCDXBfVJJaJbcVxPKBNu4wEj5ALjzOYFv 24-11-8 1-6-0 1-6-0 17-6-4 20-6-0 4-8-0 5-8-0 2-2-0 5-0-4 2-11-12 4-5-8 Scale = 1:60.6 4x6 || 2x4 || 9.00 12 21 2x4 || 5x6 / 3x6 💉 3 3x4 💸 11 5x8 = 10 2x4 II 13 12 5.00 12 4x6 | 5x8 = 3x6 || 2x4 || 10-4-0 20-6-0 24-11-8 4-8-0 4-8-0 5-8-0 4-5-8 Plate Offsets (X,Y)--[3:0-3-0,0-3-0], [9:0-2-0,0-2-3], [12:0-5-12,0-2-8]

LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES	CSI. TC 0.51 BC 0.80 WB 0.66	DEFL. in (loc) l/defl L/d Vert(LL) -0.16 11-12 >999 240 Vert(CT) -0.35 11-12 >847 180 Horz(CT) 0.18 9 n/a n/a	PLATES GRIP MT20 244/190
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 156 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE Left: 2x4 SP No.3

Right 2x4 SP No.3 1-11-8 SLIDER

REACTIONS.

(size) 9=0-3-0, 2=0-3-8 Max Horz 2=223(LC 9)

Max Uplift 9=-175(LC 13), 2=-209(LC 12) Max Grav 9=921(LC 1), 2=1007(LC 1)

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

TOP CHORD 2-3=-1243/234, 3-4=-981/248, 4-5=-937/351, 5-6=-2199/492, 6-7=-2122/373,

7-9=-2192/393

BOT CHORD 2-13=-262/973, 12-13=-261/975, 11-12=-70/734, 10-11=-272/1842, 9-10=-274/1800 3-12=-302/176, 4-12=-265/202, 5-12=-243/356, 5-11=-313/1728, 6-11=-288/207 WFBS

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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 12-6-0, Exterior(2R) 12-6-0 to 15-6-0, Interior(1) 15-6-0 to 24-11-8 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=175, 2=209

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Structural wood sheathing directly applied or 3-3-3 oc purlins.

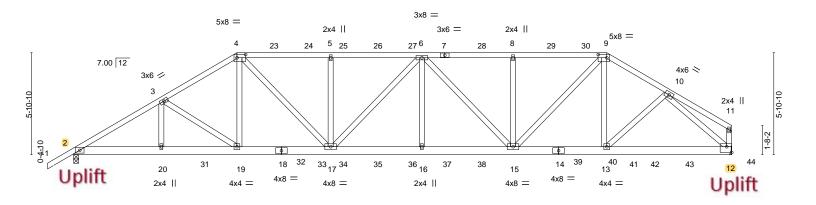
Rigid ceiling directly applied or 10-0-0 oc bracing.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job Truss Truss Type Qty Ply IC CONST - YOUNG RES T30381984 3501826 T09 Hip Girder Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:53 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-b3ArpdDIDn4VKI4clsvl0eJMHQ4?2CSfN?px0xzOYFq 34-2-15 25-4-8 30-9-7 38-0-0 5-0-13 4-4-6 5-4-15 5-3-3 5-3-3 5-4-15 3-5-9 3-9-1

Scale = 1:66.5



	5-0-	-13	9-5-3	14-	·10-2	20-1	-5 _I	. 2	25-4-8	1	30-9-7	38-0-0	
	5-0-	-13	4-4-6	5-4	4-15	5-3-	3 '		5-3-3	1	5-4-15	7-2-9	
Plate Offs	ets (X,Y)	[4:0-6-0,0-	2-4], [9:0-6-0,0-2	2-4], [12:Edge	,0-4-0]								
LOADING	(psf)	SPA	ACING-	2-0-0	CSI.		DEI	FL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plat	te Grip DOL	1.25	тс	0.47	Ver	t(LL)	0.19 16-1	, 7 >999	240	MT20	244/190
TCDL	7.0	Lun	nber DOL	1.25	ВС	0.63	Ver	t(CT)	-0.30 16-1	7 >999	180		
BCLL	0.0 *	Rep	Stress Incr	NO	WB	0.46	Hor	z(CŤ)	0.08 1	2 n/a	n/a		
BCDL	10.0	Coc	de FBC2020/TP	I2014	Matri	x-MS						Weight: 519 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2 2x4 SP No.3 **WEBS**

(size) 2=0-3-8, 12=Mechanical

Max Horz 2=135(LC 27)

Max Uplift 2=-1196(LC 8), 12=-1493(LC 9) Max Grav 2=2920(LC 1), 12=3304(LC 1)

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

TOP CHORD 2-3=-5351/2242, 3-4=-4833/2105, 4-5=-5176/2300, 5-6=-5176/2300, 6-8=-4796/2145,

8-9=-4796/2145, 9-10=-3981/1799, 10-11=-351/194, 11-12=-264/145

BOT CHORD 2-20=-1980/4571, 19-20=-1980/4571, 17-19=-1781/4144, 16-17=-2332/5409,

15-16=-2332/5409, 13-15=-1445/3412, 12-13=-1237/2842

WEBS 3-20=-85/343, 3-19=-544/251, 4-19=-446/1073, 4-17=-740/1535, 5-17=-375/234,

6-17=-391/221, 6-16=-195/591, 6-15=-923/421, 8-15=-375/235, 9-15=-894/2013,

9-13=-198/386, 10-13=-422/841, 10-12=-3616/1553

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Refer to girder(s) for truss to truss connections.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1196, 12=1493.

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 21,2023

Continued on page 2



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

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ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 5-3-5 oc purlins,

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

except end verticals.

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES.
3501826	T09	Hip Girder	1		T30381984
0001020	100	The chack		2	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:53 2023 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-b3ArpdDlDn4VKl4clsvl0eJMHQ4?2CSfN?px0xzOYFq

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 71 lb down and 59 lb up at 9-5-3, 71 lb down and 57 lb up at 11-5-15, 71 lb down and 57 lb up at 13-5-15, 71 lb down and 57 lb up at 15up at 21-5-15, 71 lb down and 57 lb up at 23-5-15, 71 lb down and 57 lb up at 23-5-15, and 71 lb down and 57 lb up at 29-5-15 on top chord, and 536 lb down and 282 lb up at 7-5-15, 153 lb down and 90 lb up at 9-5-15, 153 lb down and 90 lb up at 11-5-15, 153 lb down and 90 lb up at 13-5-15, 153 lb down and 90 lb up at 15-5-15, 153 lb down and 90 lb up at 17-5-15, 153 lb down and 90 lb up at 19-5-15, 153 lb down and 90 lb up at 21-5-15, 153 lb down and 90 lb up at 23-5-15, 153 lb down and 90 lb up at 25-5-15, 153 lb down and 90 lb up at 25-5-15, 153 lb down and 90 lb up at 29-5-15, 222 lb down and 156 lb up at 31-5-15, 222 lb down and 156 lb up at 33-5-15, and 222 lb down and 156 lb up at 35-5-15, and 228 lb down and 150 lb up at 37-5-15 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, 4-9=-54, 9-11=-54, 2-12=-20

Concentrated Loads (lb)

Vert: 4=-24(F) 7=-24(F) 19=-150(F) 8=-24(F) 15=-150(F) 23=-24(F) 25=-24(F) 2 32=-150(F) 33=-150(F) 34=-150(F) 36=-150(F) 36=-150(F) 38=-150(F) 39=-150(F) 40=-150(F) 41=-222(F) 42=-222(F) 43=-222(F) 44=-228(F)



Job Truss Truss Type Qty IC CONST - YOUNG RES T30381985 Hip 3501826 T10 Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:55 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-XSIbEIFYIOLDZcD?QHxD53OhMEgsW5RyrJl24pzOYFo 22-9-12 28-2-9 33-2-7 38-0-0

5-4-14

5-4-14

4-11-14

Structural wood sheathing directly applied or 3-5-5 oc purlins,

5-16, 7-12, 9-11

Rigid ceiling directly applied or 2-2-0 oc bracing.

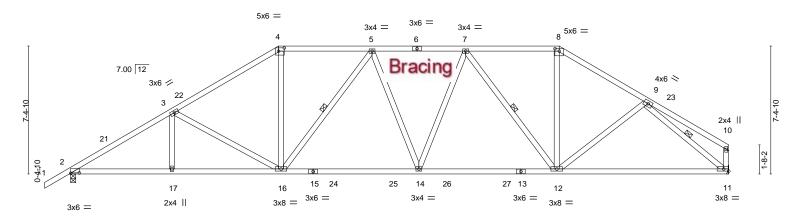
except end verticals.

1 Row at midpt

5-4-14

Scale = 1:66.5

4-9-9



		•	6-1-14	-	8-1-4	+	8-1-4			9-9-7	
Plate Offs	ets (X,Y)	[2:0-6-0,0-0-3], [4:0-4-0,0)-2-4], [8:0-3-0,0	0-1-12]							
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	0.56	Vert(LL)	-0.24 11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.99	Vert(CT)	-0.50 11-12	>904	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.12 11	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix	c-MS					Weight: 223 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-8, 11=Mechanical

5-10-2

6-1-14

Max Horz 2=164(LC 9)

Max Uplift 2=-338(LC 12), 11=-291(LC 13) Max Grav 2=1611(LC 2), 11=1549(LC 2)

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

TOP CHORD 2-3=-2658/520, 3-4=-2200/451, 4-5=-1852/437, 5-7=-2121/409, 7-8=-1650/381,

8-9=-1956/396

2-17=-513/2250, 16-17=-513/2250, 14-16=-367/2091, 12-14=-326/2024, 11-12=-274/1488 BOT CHORD

WEBS 3-16=-569/216, 4-16=-98/838, 5-16=-480/214, 7-14=-74/319, 7-12=-678/231,

8-12=-96/743, 9-12=-104/282, 9-11=-1814/365

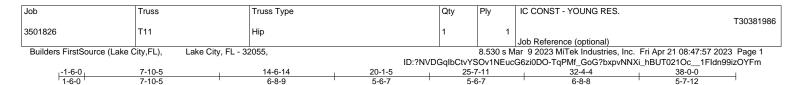
NOTES-

- 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) -1-6-0 to 2-3-10, Interior(1) 2-3-10 to 12-0-0, Exterior(2R) 12-0-0 to 17-4-14, Interior(1) 17-4-14 to 28-2-9, Exterior(2R) 28-2-9 to 33-3-13, Interior(1) 33-3-13 to 37-10-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=338, 11=291.

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5-6-7

6-8-8

32-4-4

Rigid ceiling directly applied or 8-2-7 oc bracing.

except end verticals.

1 Row at midpt

Structural wood sheathing directly applied or 2-10-14 oc purlins,

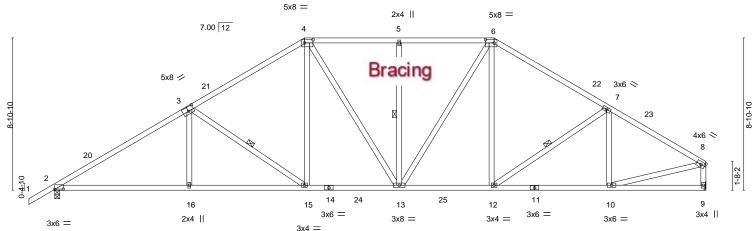
3-15, 5-13, 7-12

5-6-7



5-7-12

38-0-0



		7-10-5	6-8-	.9	5-6	5-7	5-6	-7	1	6-8-8		5-7-	12
Plate Offsets	(X,Y)	[2:0-6-0,0-0-3], [3:0-4-0,0)-3-0], [4:0-6-0,()-2-4], [6:0-6-0	0,0-2-4]								
LOADING (-	-1)	OD A OIN O	0.00	001		DEEL		(1)	1/-161	1.7-1		4750	ODID
LOADING (p	IST)	SPACING-	2-0-0	CSI.		DEFL.	in	()	l/defl	L/d		ATES	GRIP
TCLL 20	0.0	Plate Grip DOL	1.25	TC	0.62	Vert(LI) -0.15	16-19	>999	240	MT	20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.84	Vert(C) -0.28	16-19	>999	180			
BCLL (0.0 *	Rep Stress Incr	YES	WB	0.61	Horz(C	r) 0.10	9	n/a	n/a			
BCDL 10	0.0	Code FBC2020/T	PI2014	Matrix-	-MS						We	eight: 235 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

20-1-5

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 9=Mechanical

Max Horz 2=197(LC 9)

7-10-5

7-10-5

6-8-9

14-6-14

Max Uplift 2=-334(LC 12), 9=-286(LC 13) Max Grav 2=1604(LC 2), 9=1541(LC 2)

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

2-3=-2562/494, 3-4=-1988/422, 4-5=-1738/386, 5-6=-1738/386, 6-7=-1849/383, TOP CHORD

7-8=-1929/367, 8-9=-1456/297

2-16=-490/2192, 15-16=-490/2200, 13-15=-274/1649, 12-13=-169/1530, 10-12=-262/1623 BOT CHORD

WEBS 3-16=0/314, 3-15=-733/260, 4-15=-102/640, 4-13=-170/291, 5-13=-333/170,

6-13=-177/464, 6-12=-50/385, 8-10=-248/1607

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) -1-6-0 to 2-3-10, Interior(1) 2-3-10 to 14-6-14, Exterior(2R) 14-6-14 to 20-1-5, Interior(1) 20-1-5 to 25-7-11, Exterior(2R) 25-7-11 to 31-0-3, Interior(1) 31-0-3 to 37-10-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=334, 9=286.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 21,2023

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AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty IC CONST - YOUNG RES T30381987 3501826 T12 Hip Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:47:59 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-QDX64gl3odrf2DXmf709GvZPGr2jSvGXmwGFDbzOYFk

27-2-1

5-2-1

32-10-8

5-8-7

35-10-4

2-0-0 oc purlins (5-0-7 max.): 6-8.

1 Row at midpt

Rigid ceiling directly applied or 2-2-0 oc bracing.

38-1-0

5-2-8

22-0-0

5-2-1

16-9-15

5-8-7

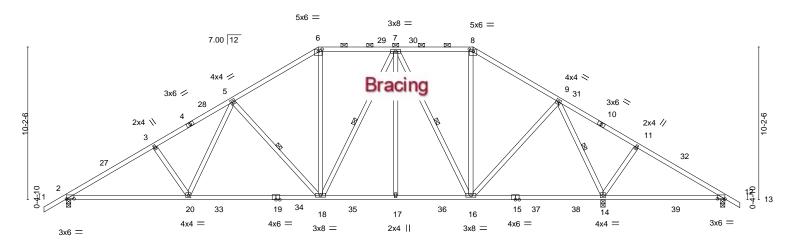
1-0-0 Scale = 1:77.0

5-11-0

44-0-0

Structural wood sheathing directly applied or 3-5-9 oc purlins, except

5-18, 7-18, 7-16, 9-14



	ı	8-1-12	8-8-3	5-2-1	I 5-2	!-1	8-8-3	8-1-12	2
Plate Off	fsets (X,Y)	[2:0-6-0,0-0-3], [6:0-3-0,0	-1-12], [8:0-3-0	,0-1-12], [12:0-6-0,0-0-4]					
LOADIN	I G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL)	0.18 14-26	>551 240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC 0.93	Vert(CT)	-0.42 18-20	>999 180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.07 14	n/a n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS				Weight: 276 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

1-6-0

5-11-0

5-2-8

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 12=0-3-8

Max Horz 2=234(LC 11)

Max Uplift 2=-317(LC 12), 14=-361(LC 13), 12=-110(LC 8) Max Grav 2=1512(LC 19), 14=2246(LC 2), 12=167(LC 24)

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

2-3=-2380/475, 3-5=-2248/487, 5-6=-1545/373, 6-7=-1281/365, 7-8=-858/282, TOP CHORD

8-9=-1058/278, 9-11=-87/642, 11-12=-105/513

BOT CHORD 2-20=-477/2151, 18-20=-336/1736, 17-18=-186/1173, 16-17=-186/1173, 14-16=-14/290,

12-14=-394/124

WEBS 3-20=-273/174, 5-20=-106/637, 5-18=-672/259, 6-18=-87/527, 7-18=-110/356, 7-16=-733/202, 8-16=-62/313, 9-16=-129/868, 9-14=-1828/316, 11-14=-296/183

- 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) -1-6-0 to 2-10-13, Interior(1) 2-10-13 to 16-9-15, Exterior(2R) 16-9-15 to 23-0-10, Interior(1) 23-0-10 to 27-2-1, Exterior(2R) 27-2-1 to 33-4-12, Interior(1) 33-4-12 to 45-0-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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 100 lb uplift at joint(s) except (jt=lb) 2=317. 14=361. 12=110
- 8) 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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April 21,2023

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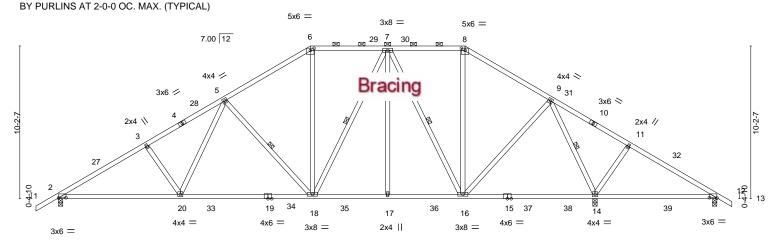




ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-MbftVMKJKE5MHXh9mY2dLKelmekAwpmqDElMITzOYFi 22-0-0 27-2-1 32-10-8 38-1-0 5-2-8 5-8-7 5-2-1 5-2-1 5-8-7 5-2-8 5-11-0 1-0-0

TOP CHORD UNDER PIGGYBACKS TO BE LATERALLY BRACED

Scale = 1:77.0



		8-1-12	16-9-18)	22-0-0	21-2	2-1	3	5-10-4	1 44-0-0	<u>'</u>
	1	8-1-12	8-8-3		5-2-1	5-2	-1 '		8-8-3	8-1-12	! '
Plate Offsets	s (X,Y)	[2:0-6-0,0-0-3], [6:0-3-0	,0-1-12], [8:0-3-0	,0-1-12], [12:0	0-6-0,0-0-3]						
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (lo	c) I/defl	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.25	TC	0.44	Vert(LL)	0.18 14-	26 >551	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(CT)	-0.42 18-	20 >999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.07	14 n/a	n/a		
BCDL 1	10.0	Code FBC2020/	TPI2014	Matrix	-MS					Weight: 276 lb	FT = 20%
										1	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 12=0-3-8

Max Horz 2=234(LC 11)

Max Uplift 2=-317(LC 12), 14=-361(LC 13), 12=-110(LC 8) Max Grav 2=1512(LC 19), 14=2246(LC 2), 12=167(LC 24)

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

2-3=-2380/475, 3-5=-2248/487, 5-6=-1545/373, 6-7=-1281/365, 7-8=-859/282, TOP CHORD

8-9=-1058/278, 9-11=-87/642, 11-12=-105/513

BOT CHORD 2-20=-477/2151, 18-20=-336/1736, 17-18=-186/1173, 16-17=-186/1173, 14-16=-14/291,

12-14=-394/124

3-20=-273/174, 5-20=-106/637, 5-18=-672/259, 6-18=-87/527, 7-18=-110/356,

7-16=-733/202, 8-16=-62/313, 9-16=-129/868, 9-14=-1828/316, 11-14=-297/183

WEBS

- 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) -1-6-0 to 2-10-13, Interior(1) 2-10-13 to 16-9-15, Exterior(2R) 16-9-15 to 23-0-10, Interior(1) 23-0-10 to 27-2-1, Exterior(2R) 27-2-1 to 33-4-12, Interior(1) 33-4-12 to 45-0-0 zone; porch right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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 100 lb uplift at joint(s) except (jt=lb) 2=317, 14=361, 12=110,
- 8) 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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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



Structural wood sheathing directly applied or 3-5-9 oc purlins, except

5-18, 7-18, 7-16, 9-14

2-0-0 oc purlins (5-0-8 max.): 6-8.

1 Row at midpt

Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 20=1-0-0.

(lb) - Max Horz 20=-260(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) except 20=-225(LC 9), 14=-1226(LC 9), 11=-142(LC 28),

9=-104(LC 9), 19=-956(LC 8)

All reactions 250 lb or less at joint(s) except 20=886(LC 1), 14=4577(LC 1), 11=715(LC 16), 9=489(LC Max Grav

1), 19=4126(LC 1)

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

TOP CHORD 1-2=-2385/588, 2-3=-3064/812, 3-4=-2610/735, 4-5=-2121/610, 5-6=-401/143, 6-8=-434/111, 8-9=-462/95, 1-20=-3625/874

BOT CHORD 19-20=-174/258, 18-19=-174/258, 17-18=-555/2012, 15-17=-522/1940, 14-15=-509/1846,

12-14=-119/354, 11-12=-91/317, 9-11=-91/317

WEBS 2-18=-1574/409, 2-17=-358/1200, 3-17=-343/1304, 4-17=-403/1562, 4-15=-542/116, 5-15=-734/2956, 5-14=-4443/1143, 6-14=-270/450, 6-12=-403/160, 8-11=-383/133,

1-18=-704/3084

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-8-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) 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
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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; porch right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 225 lb uplift at joint 20, 1226 lb uplift at joint 14, 142 lb uplift at joint 11, 104 lb uplift at joint 9 and 956 lb uplift at joint 19.
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES.
0504000		D: 1 1 D 0: 1			T30381989
3501826	114	Piggyback Base Girder	1	2	Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:04 2023 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-mAL?7NMBd9Tx8_PjRgcKzzGlqsvT77KHvCz0vozOYFf

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 891 lb down and 216 lb up at 1-9-4, 891 lb down and 222 lb up at 3-9-4, 891 lb down and 230 lb up at 5-9-4, 891 lb down and 240 lb up at 7-9-4, 891 lb down and 235 lb up at 9-9-4, 891 lb down and 231 lb up at 10-10-12, 891 lb down and 236 lb up at 12-10-12, and 891 lb down and 236 lb up at 12-10-12, and 891 lb down and 236 lb up at 12-10-12, and 891 lb down and 236 lb up at 12-10-12, and 891 lb down and 250 lb up at 12-10-12, and 891 lb down and 250 lb up at 12-10-12, and 891 lb down and 250 lb up at 12-10-12, and 891 lb down and 250 lb up at 12-10-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

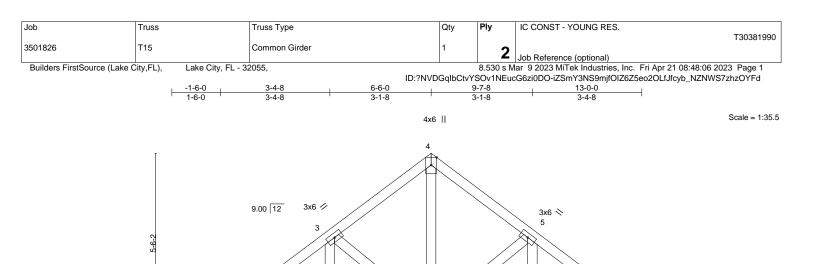
LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-4=-54, 4-5=-54, 5-6=-54, 6-10=-54, 9-20=-20

Concentrated Loads (lb)

Vert: 16=-891(F) 23=-891(F) 24=-891(F) 25=-891(F) 26=-891(F) 27=-891(F) 28=-891(F) 29=-891(F) 30=-891(F)



13-0-0 3-4-8 3-4-8

BRACING-

TOP CHORD

BOT CHORD

8

8x10 =

17

7

3x8 ||

18

Uplift

Structural wood sheathing directly applied or 5-1-9 oc purlins.

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

Plate Offsets (X,Y)	[6:0-2-11,Edge], [7:0-5-12,0-1-8], [8:0-5-0,0-5-8], [9:0-5-12,0-1-8]

0-7-10

LOADING (psf)	SPACING- 2-0-0	CSI.	,	(loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.20	Vert(LL) -0.05	7-8 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.25	Vert(CT) -0.08	7-8 >999 180	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.86	Horz(CT) 0.01	6 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS			Weight: 184 lb FT = 20%

9

3x8 II

LUMBER-

2x4 SP No.2 TOP CHORD **BOT CHORD** 2x8 SP 2400F 2.0E 2x4 SP No.3 **WEBS**

REACTIONS. (size) 6=0-3-8, 2=0-3-8 Max Horz 2=124(LC 24)

Max Uplift 6=-1368(LC 9), 2=-936(LC 8) Max Grav 6=4412(LC 1), 2=2673(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-3665/1296, 3-4=-3973/1492, 4-5=-3970/1489, 5-6=-5865/1924 TOP CHORD BOT CHORD $2\text{-}9\text{--}1046/2880,\ 8\text{-}9\text{--}1046/2880,\ 7\text{-}8\text{--}1494/4642,\ 6\text{-}7\text{--}1494/4642}$ 4-8=-1703/4515, 5-8=-2061/570, 5-7=-574/2426, 3-8=-325/456, 3-9=-557/278 WFBS

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) 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.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) 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
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1368 lb uplift at joint 6 and 936 lb uplift at joint 2.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 3284 lb down and 1513 lb up at 7-1-9, and 1529 lb down and 311 lb up at 9-0-12, and 1521 lb down and 306 lb up at 11-0-12 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, 4-6=-54, 10-13=-20

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April 21,2023

Continued on page 2

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

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

ANSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



IC CONST - YOUNG RES. Job Truss Truss Type Qty Ply T30381990 3501826 T15 Common Girder

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

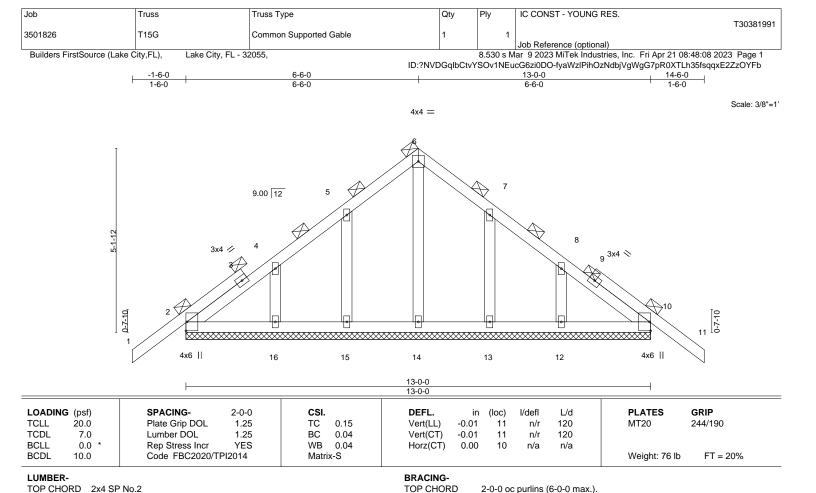
Job Reference (optional)

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:06 2023 Page 2
ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-iZSmY3NS9mjfOIZ6Z5eo2OLfJfcyb_NZNWS7zhzOYFd

LOAD CASE(S) Standard

Concentrated Loads (lb) Vert: 16=-3284(B) 17=-1379(B) 18=-1379(B)





BOT CHORD

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

OTHERS 2x4 SP No.3

2x4 SP No.2

REACTIONS. All bearings 13-0-0. Max Horz 2=-124(LC 10)

> Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 16, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES-

BOT CHORD

- 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 Corner(3E) -1-6-0 to 1-6-0, Exterior(2N) 1-6-0 to 6-6-0, Corner(3R) 6-6-0 to 9-6-0, Exterior(2N) 9-6-0 to 14-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 16, 13,
- 11) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2, 10.
- 12) 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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April 21,2023



Job Truss Truss Type Qty IC CONST - YOUNG RES T30381992 3501826 T16 Roof Special Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:09 2023 Page 1

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-788uA5QKRh5EFIlhEDBVg0z6jtbnoYZ03Uhna0zOYFa

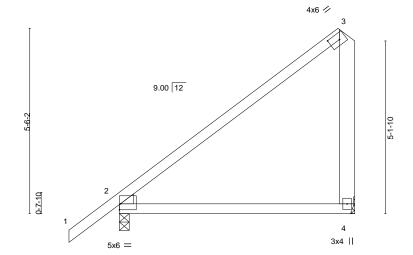
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

6-6-0 7-0-0 0-6-0 1-6-0

Scale = 1:34.3



BRACING-

TOP CHORD

BOT CHORD

Plate Offsets (X,Y)	[2:Edge,0-2-2], [3:0-3-11,0-2-3]			
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 0.44	Vert(LL) 0.09 4-7 >941 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.43	Vert(CT) -0.14 4-7 >586 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.02 2 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 38 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x6 SP No.2

WEDGE Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 4=Mechanical

Max Horz 2=208(LC 12)

Max Uplift 2=-31(LC 12), 4=-136(LC 12) Max Grav 2=340(LC 1), 4=259(LC 19)

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

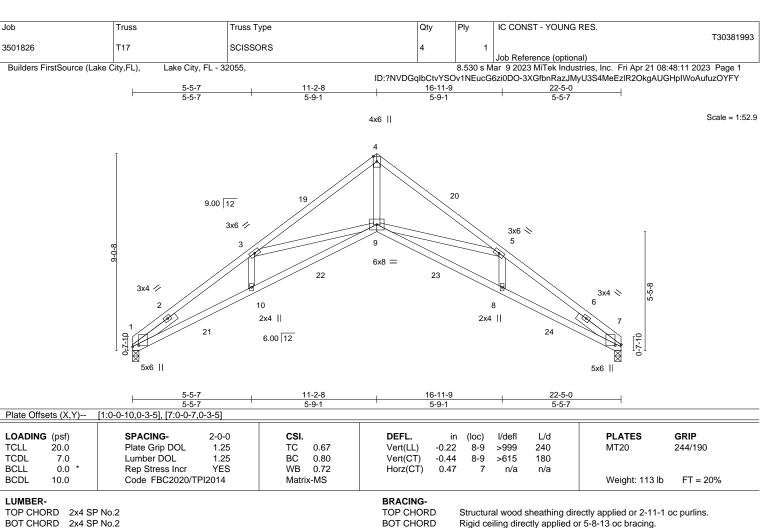
NOTES-

- 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 6-9-4 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 4=136

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

SLIDER Left 2x4 SP No.3 2-5-8, Right 2x4 SP No.3 2-5-8

REACTIONS.

(size) 1=0-3-8, 7=0-3-8 Max Horz 1=-185(LC 8)

Max Uplift 1=-157(LC 12), 7=-157(LC 13) Max Grav 1=829(LC 1), 7=829(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-3=-2444/1275, 3-4=-1923/765, 4-5=-1923/776, 5-7=-2444/1261 TOP CHORD **BOT CHORD** 1-10=-1021/2104, 9-10=-953/2143, 8-9=-919/2143, 7-8=-985/2104

WEBS 4-9=-783/1889, 3-9=-502/516, 5-9=-502/523

- 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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-2-8, Exterior(2R) 11-2-8 to 14-2-8, Interior(1) 14-2-8 to 22-5-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=157, 7=157,

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Job Truss Truss Type Qty IC CONST - YOUNG RES T30381994 3501826 T17G GABLE Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:13 2023 Page 1 Builders FirstSource (Lake City,FL) Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-?vNP0STrVwcfjNbST3GRqs8jfUsik9Wb_6f?jnzOYFW 16-11-9 5-9-1 5-9-1 5-5-7 Scale = 1:53.6 4x6 || 34 33 9.00 12 3x6 🛇 3x6 / 3 6x8 = 36 5x8 / 6 ^{5x8} ≫ 10 35 38 6.00 12 6x8 / 6x8 < 16-11-9 Plate Offsets (X,Y)--[1:0-3-14,0-2-12], [7:0-3-14,0-2-12], [13:0-1-11,0-1-0], [22:0-1-11,0-1-0]

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in (loc)

9-10

9-10

-0.34

-0.66

0.68

I/defI

>789

>409

n/a

2-0-0 oc purlins (2-10-0 max.).

L/d

240

180

n/a

Rigid ceiling directly applied or 4-11-4 oc bracing.

PLATES

Weight: 121 lb

MT20

GRIP

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

TOP CHORD 2x4 SP No.2 *Except*

1-2,6-7: 2x4 SP 2850F 2.0E or 2x4 SP M 31

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

2-0-0

1.25

1.25

YES

TC

ВС

WB

Matrix-MS

0.77

0.82

0.83

BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 **OTHERS** 2x4 SP No.3

20.0

7.0

0.0

10.0

REACTIONS. (size) 1=0-3-8, 7=0-3-8

Max Horz 1=-177(LC 8)

Max Uplift 1=-159(LC 12), 7=-159(LC 13) Max Grav 1=829(LC 1), 7=829(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-3000/1577, 3-4=-2179/859, 4-5=-2179/870, 5-7=-3000/1557 **BOT CHORD** 1-10=-1335/2683, 9-10=-1265/2718, 8-9=-1224/2718, 7-8=-1293/2683

WEBS 4-9=-903/2192, 5-9=-812/729, 3-9=-812/725

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) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 11-2-8, Exterior(2R) 11-2-8 to 14-2-8, Interior(1) 14-2-8 to 22-5-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Bearing at joint(s) 1, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=159, 7=159.
- 11) 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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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

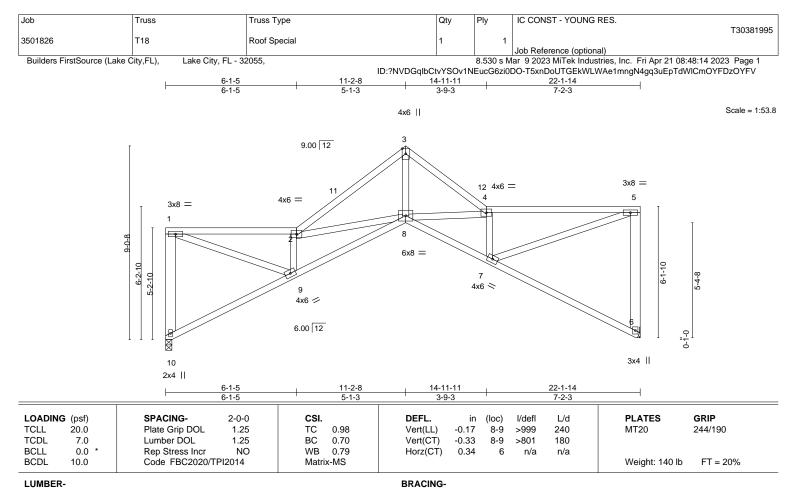
April 21,2023

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





TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 *Except* 1-10,5-6: 2x6 SP No.2

REACTIONS.

(size) 10=0-3-8, 6=Mechanical

Max Horz 10=81(LC 9)

Max Uplift 10=-185(LC 12), 6=-196(LC 13) Max Grav 10=911(LC 1), 6=911(LC 1)

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

TOP CHORD 1-10=-842/232, 1-2=-1908/446, 2-3=-2011/429, 3-4=-1989/467, 4-5=-1824/371,

5-6=-828/210

BOT CHORD 8-9=-622/2275 7-8=-443/2153

WEBS 1-9=-466/1996, 2-9=-1497/418, 2-8=-524/209, 3-8=-430/2065, 4-8=-416/152,

4-7=-1392/347, 5-7=-385/1895

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) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 11-2-8, Exterior(2R) 11-2-8 to 14-2-8, Interior(1) 14-2-8 to 21-11-2 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=185, 6=196
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-54, 2-3=-54, 3-4=-54, 4-5=-54, 8-10=-30(F=-10), 6-8=-30(F=-10)

This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 21,2023

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

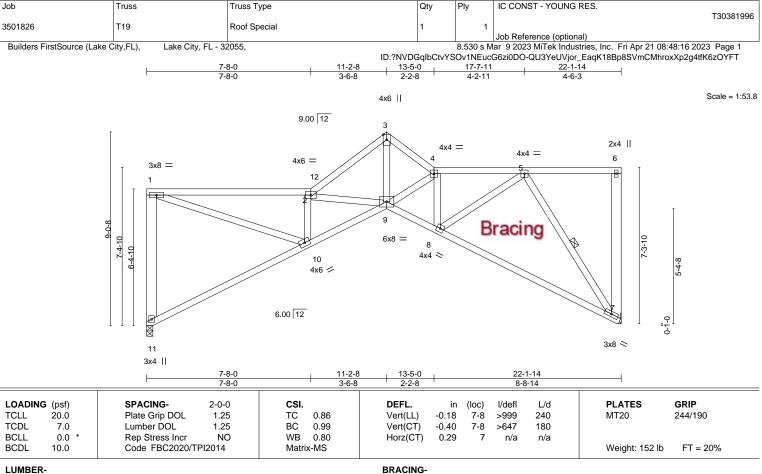
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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

AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied, except end verticals.

Rigid ceiling directly applied or 7-6-2 oc bracing.



TOP CHORD

BOT CHORD

WEBS

REACTIONS.

TOP CHORD 2x4 SP No.2 *Except* 1-2: 2x4 SP No.1

BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 *Except*

1-11,6-7: 2x6 SP No.2

(size) 11=0-3-8, 7=Mechanical

Max Horz 11=59(LC 12)

Max Uplift 11=-188(LC 12), 7=-202(LC 13) Max Grav 11=911(LC 1), 7=911(LC 1)

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

1-11=-824/232, 1-2=-1860/407, 2-3=-1962/429, 3-4=-1911/443, 4-5=-1731/350 TOP CHORD BOT CHORD

9-10=-550/2173, 8-9=-415/1976, 7-8=-172/777

WEBS 1-10=-418/1922, 2-10=-1363/370, 2-9=-459/149, 3-9=-449/2100, 4-9=-359/87,

4-8=-1067/283, 5-8=-252/1321, 5-7=-1190/283

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) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 11-2-8, Exterior(2E) 11-2-8 to 13-5-0, Interior(1) 13-5-0 to 21-11-2 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=188, 7=202,
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-2=-54, 2-3=-54, 3-4=-54, 4-6=-54, 9-11=-30(F=-10), 7-9=-30(F=-10)

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 21,2023

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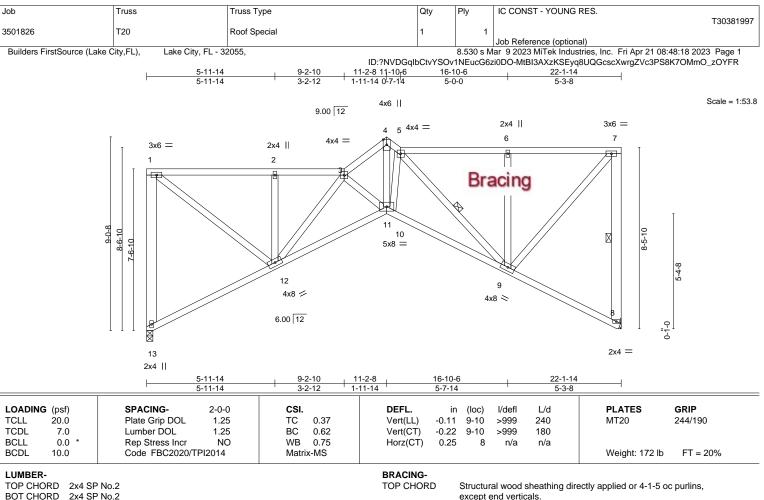


Structural wood sheathing directly applied or 2-11-12 oc purlins,

Rigid ceiling directly applied or 7-11-11 oc bracing.

except end verticals.

1 Row at midpt



BOT CHORD

WEBS

Rigid ceiling directly applied or 8-10-5 oc bracing.

1 Row at midpt

7-8, 5-9

2x4 SP No.2 **BOT CHORD**

2x4 SP No.3 *Except* **WEBS** 1-13,7-8: 2x6 SP No.2

REACTIONS. (size) 13=0-3-8, 8=Mechanical

Max Horz 13=41(LC 12)

Max Uplift 13=-192(LC 12), 8=-210(LC 13) Max Grav 13=911(LC 1), 8=911(LC 1)

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

 $1\hbox{-}13\hbox{-}840/223,\ 1\hbox{-}2\hbox{-}931/206,\ 2\hbox{-}3\hbox{-}931/206,\ 3\hbox{-}4\hbox{-}-1931/398,\ 4\hbox{-}5\hbox{-}-1829/404,$ TOP CHORD

5-6=-676/149, 6-7=-676/149, 7-8=-853/218

BOT CHORD 11-12=-449/1929, 10-11=-384/1804, 9-10=-382/1773

WEBS 1-12=-254/1151, 2-12=-312/147, 4-11=-410/1956, 5-9=-1340/323, 6-9=-330/154,

7-9=-219/997, 3-12=-1296/276

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) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 11-2-8, Exterior(2E) 11-2-8 to 11-10-6, Interior(1) 11-10-6 to 21-11-2 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=192, 8=210,
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-4=-54, 4-5=-54, 5-7=-54, 11-13=-30(F=-10), 8-11=-30(F=-10)

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

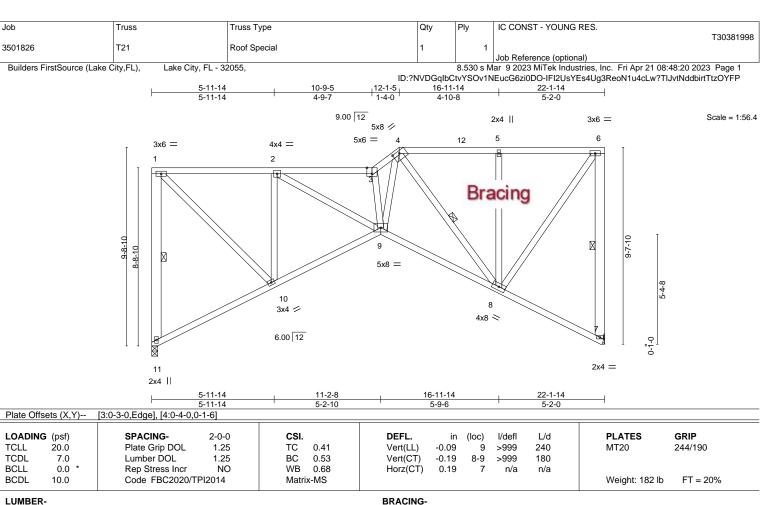
April 21,2023

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

2x4 SP No.3 *Except* **WEBS** 1-11,6-7: 2x6 SP No.2

TOP CHORD

Structural wood sheathing directly applied or 4-2-13 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing **WEBS** 1 Row at midpt 1-11, 6-7, 4-8

REACTIONS. (size) 11=0-3-8, 7=Mechanical

Max Horz 11=34(LC 12)

Max Uplift 11=-224(LC 8), 7=-220(LC 8) Max Grav 11=911(LC 1), 7=911(LC 1)

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

1-11=-840/232, 1-2=-742/176, 2-3=-1693/370, 3-4=-1889/408, 4-5=-543/127, TOP CHORD

5-6=-543/127 6-7=-856/227

BOT CHORD 9-10=-232/858, 8-9=-280/1280 **WEBS**

1-10=-239/1014, 2-10=-880/273, 2-9=-224/1093, 3-9=-1233/306, 4-9=-419/1793,

4-8=-988/258, 5-8=-303/148, 6-8=-213/915

- 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) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 12-1-5, Exterior(2R) 12-1-5 to 15-1-5, Interior(1) 15-1-5 to 21-11-2 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=224, 7=220
- 9) 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

Vert: 1-3=-54, 3-4=-54, 4-6=-54, 9-11=-30(F=-10), 7-9=-30(F=-10)

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Job Truss Truss Type Qty IC CONST - YOUNG RES T30381999 3501826 T22 Roof Special Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:21 2023 Page 1

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

Structural wood sheathing directly applied or 4-9-7 oc purlins,

7-8, 6-8, 1-12, 2-12

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

except end verticals.

1 Row at midpt

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-mSsQhBZsdNcXhbD?xlPJ9YT9EibWcpOnpMbQ?JzOYFO 13-8-0 17-9-3 22-1-14 0-11-8 0-11-8 5-0-6 6-4-2 1-4-0 4-1-3 4-4-11

Scale = 1:64.7

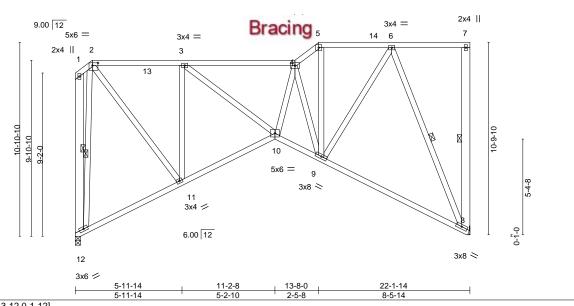


Plate Offsets (X,Y)-- [2:0-3-12,0-1-12]

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	-0.15	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(CT)	-0.32	8-9	>805	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.71	Horz(CT)	0.13	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MS						Weight: 211 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

7-8,1-12: 2x6 SP No.2 (size) 8=Mechanical, 12=0-3-8

Max Horz 12=54(LC 12) Max Uplift 8=-215(LC 8), 12=-202(LC 8) Max Grav 8=911(LC 1), 12=911(LC 1)

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

2-3=-618/169, 3-4=-1181/279, 4-5=-956/209, 5-6=-750/175 TOP CHORD

BOT CHORD 10-11=-232/710. 9-10=-310/1178. 8-9=-107/462

WEBS 2-11=-219/914, 3-11=-810/263, 3-10=-142/717, 4-10=-151/445, 4-9=-1228/384,

5-9=-98/436, 6-9=-179/743, 6-8=-946/244, 2-12=-797/225

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) 0-2-12 to 0-11-8, Exterior(2R) 0-11-8 to 3-11-8, Interior(1) 3-11-8 to 13-8-0, Exterior(2R) 13-8-0 to 16-8-0, Interior(1) 16-8-0 to 21-11-2 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.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=215 12=202
- 9) 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: 1-2=-54, 2-4=-54, 4-5=-54, 5-7=-54, 10-12=-30(F=-10), 8-10=-30(F=-10)

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Job Truss Truss Type Qty IC CONST - YOUNG RES T30382000 3501826 T23 Roof Special Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:23 2023 Page 1

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-jq_B6tb68?sFwvMN39RnEzYRzWM84ho3Hf4X4CzOYFM

Structural wood sheathing directly applied or 5-6-1 oc purlins,

7-8, 6-9, 1-13, 2-13

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

except end verticals.

1 Row at midpt

1-10-0 13-2-8 14-6-8 2-0-0 1-4-0 22-1-14 4-1-14 5-2-10 7-7-6

Scale = 1:68.4

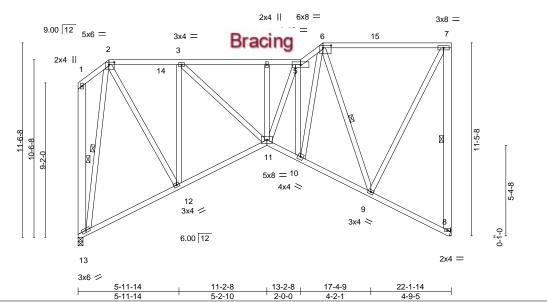


Plate Offsets (X,Y)-- [2:0-3-12,0-1-12], [6:0-5-12,0-1-12]

LOADING	G (psf)	SPACING- 2-	0-0	CSI.		DEFL.	in (I	oc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	.25	TC	0.71	Vert(LL)	-0.07	11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1	.25	BC	0.43	Vert(CT)	-0.13 11	-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	OV	WB	0.78	Horz(CT)	0.14	8	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI201	4	Matri	x-MS						Weight: 225 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

7-8,1-13: 2x6 SP No.2

(size) 8=Mechanical, 13=0-3-8 Max Horz 13=77(LC 12) Max Uplift 8=-211(LC 8), 13=-192(LC 12) Max Grav 8=911(LC 1), 13=911(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-551/174, 3-4=-1056/288, 4-5=-1056/288, 5-6=-957/249, 6-7=-353/84,

7-8=-856/218

BOT CHORD 11-12=-237/637, 10-11=-256/922, 9-10=-189/711

WEBS 2-12=-196/839, 3-12=-744/240, 3-11=-154/683, 4-11=-267/123, 5-11=-243/621, 5-10=-1041/359, 6-10=-326/1051, 6-9=-855/270, 7-9=-178/743, 2-13=-860/223

- 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) 0-2-12 to 1-10-0, Exterior(2R) 1-10-0 to 4-10-0, Interior(1) 4-10-0 to 14-6-8, Exterior(2R) 14-6-8 to 17-6-8, Interior(1) 17-6-8 to 21-11-2 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=211, 13=192
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES.
	T00				T30382000
3501826	T23	Roof Special	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

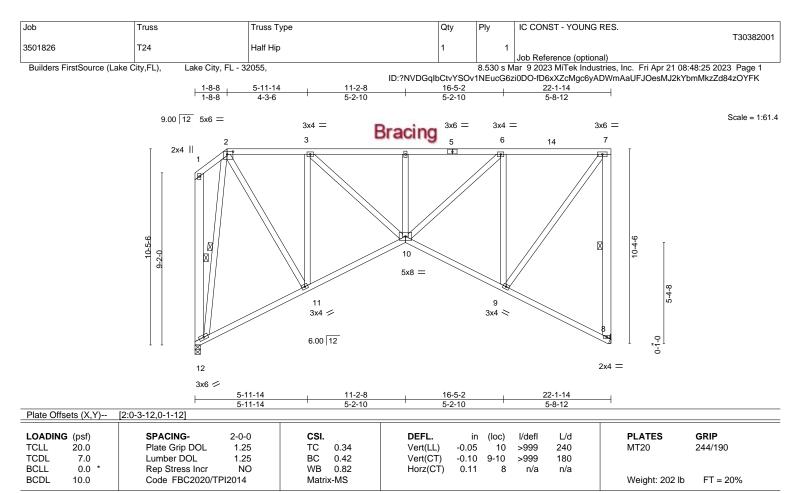
8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:23 2023 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-jq_B6tb68?sFwvMN39RnEzYRzWM84ho3Hf4X4CzOYFM

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-2=-54, 2-5=-54, 5-6=-54, 6-7=-54, 11-13=-30(F=-10), 8-11=-30(F=-10)





BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

2x4 SP No.3 *Except* **WEBS** 7-8,1-12: 2x6 SP No.2

(size) 8=Mechanical, 12=0-3-8

Max Horz 12=39(LC 12)

Max Uplift 8=-256(LC 9), 12=-215(LC 9) Max Grav 8=911(LC 1), 12=911(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-558/169, 3-4=-1084/317, 4-6=-1084/317, 6-7=-546/154, 7-8=-843/264 TOP CHORD

BOT CHORD 10-11=-194/652. 9-10=-177/640

WEBS 2-11=-221/843, 3-11=-753/267, 3-10=-198/706, 4-10=-272/131, 6-10=-218/722,

6-9=-796/298, 7-9=-252/891, 2-12=-857/241

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) 0-2-12 to 1-8-8, Exterior(2R) 1-8-8 to 5-11-14, Interior(1) 5-11-14 to 21-11-2 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections
- 7) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=256, 12=215
- 9) 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: 1-2=-54, 2-7=-54, 10-12=-30(F=-10), 8-10=-30(F=-10)

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 21,2023



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

AMSI/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



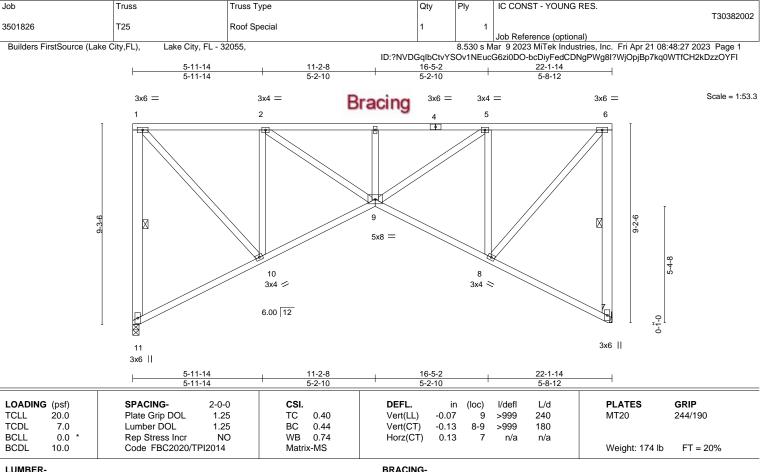
Structural wood sheathing directly applied or 5-5-5 oc purlins,

7-8, 1-12, 2-12

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

except end verticals.

1 Row at midpt



TOP CHORD

BOT CHORD

WEBS

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

2x4 SP No.3 *Except* **WEBS** 1-11,6-7: 2x6 SP No.2

REACTIONS. (size) 11=0-3-8, 7=Mechanical

Max Uplift 11=-247(LC 8), 7=-247(LC 8) Max Grav 11=911(LC 1), 7=911(LC 1)

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

TOP CHORD 1-11=-840/535, 1-2=-672/392, 2-3=-1437/844, 3-5=-1437/844, 5-6=-651/380,

6-7=-844/535

BOT CHORD 9-10=-438/779, 8-9=-424/756

WFBS 1-10=-562/963, 2-10=-843/603, 2-9=-545/923, 3-9=-256/234, 5-9=-560/948,

5-8=-848/604, 6-8=-559/958

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 Corner(3) 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.
- 6) Refer to girder(s) for truss to truss connections
- 7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) 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, 9-11=-30(F=-10), 7-9=-30(F=-10)

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Structural wood sheathing directly applied or 4-8-2 oc purlins,

1-11, 6-7

Rigid ceiling directly applied or 8-11-9 oc bracing.

except end verticals.

1 Row at midpt

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

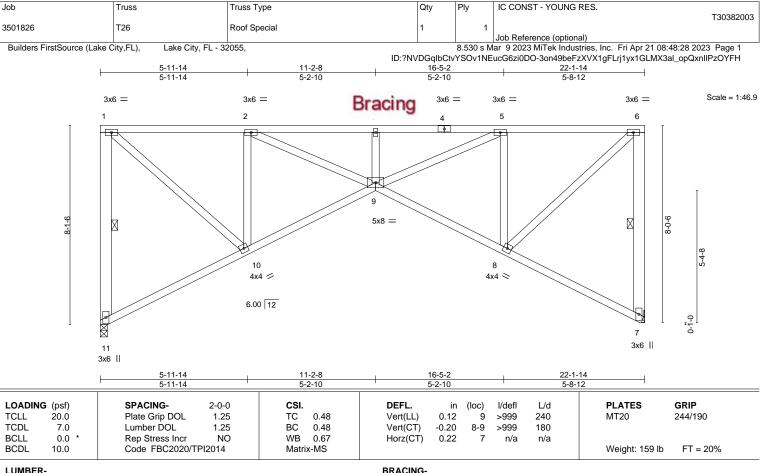
April 21,2023

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TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3 *Except* **WEBS** 1-11,6-7: 2x6 SP No.2

REACTIONS. (size) 11=0-3-8, 7=Mechanical

Max Uplift 11=-247(LC 8), 7=-247(LC 8) Max Grav 11=911(LC 1), 7=911(LC 1)

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

TOP CHORD 1-11=-841/536, 1-2=-831/485, 2-3=-2138/1256, 3-5=-2138/1256, 5-6=-805/470,

6-7=-845/536

BOT CHORD 9-10=-541/949, 8-9=-524/921

WFBS 1-10=-629/1078, 2-10=-920/648, 2-9=-846/1434, 5-9=-863/1462, 5-8=-924/648,

6-8=-622/1067

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 Corner(3) 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.
- 6) Refer to girder(s) for truss to truss connections
- 7) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) 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, 9-11=-30(F=-10), 7-9=-30(F=-10)

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Structural wood sheathing directly applied or 3-9-10 oc purlins,

1-11, 6-7

Rigid ceiling directly applied or 8-0-10 oc bracing.

except end verticals.

1 Row at midpt

Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

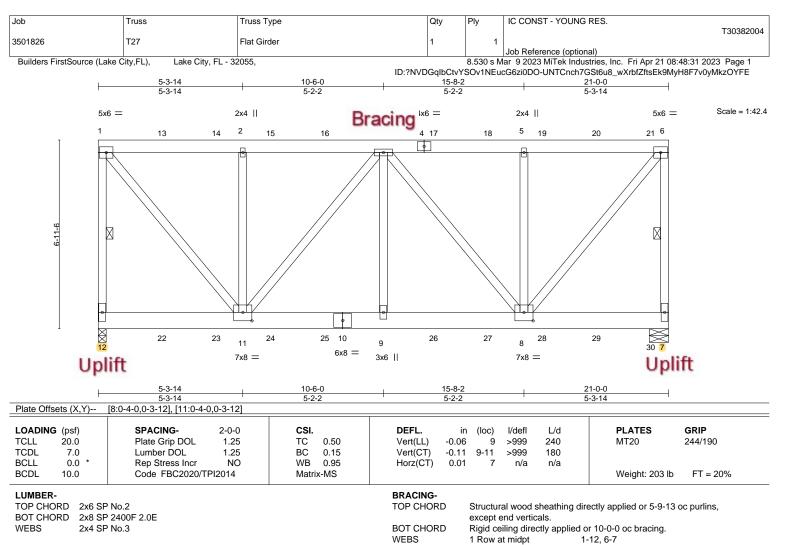
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REACTIONS. (size) 12=0-3-8, 7=0-8-8

Max Uplift 12=-806(LC 4), 7=-812(LC 4) Max Grav 12=2478(LC 1), 7=2207(LC 1)

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

1-12=-2018/688, 1-2=-1442/475, 2-3=-1442/475, 3-5=-1367/491, 5-6=-1367/491, TOP CHORD

6-7=-1904/708

BOT CHORD 9-11=-637/1856, 8-9=-637/1856

1-11=-751/2280, 2-11=-471/209, 3-11=-661/258, 3-9=-183/682, 3-8=-779/233, WFBS

5-8=-488/234, 6-8=-776/2162

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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=806, 7=812.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 92 lb down and 41 lb up at 0-1-12, 92 lb down and 39 lb up at 2-4-4, 92 lb down and 39 lb up at 4-4-4, 92 lb down and 39 lb up at 6-4-4, 92 lb down and 39 lb up at 8-4-4, 92 lb down and 39 lb up at 10-4-4, 94 lb down and 46 lb up at 12-4-4, 94 lb down and 46 lb up at 14-4-4, 94 lb down and 46 lb up at 16-4-4, and 94 lb down and 46 lb up at 18-4-4, and 89 lb down and 49 lb up at 20-4-4 on top chord, and 260 lb down and 87 lb up at 0-1-12, 252 lb down and 95 lb up at 2-4-4, 252 lb down and 95 lb up at 4-4-4, 252 lb down and 95 lb up at 6-4-4, 252 lb down and 95 lb up at 8-4-4, 252 lb down and 95 lb up at 10-4-4, 176 lb down and 96 lb up at 12-4-4, 176 lb down and 96 lb up at 14-4-4, 176 lb down and 96 lb up at 16-4-4, and 176 lb down and 96 lb up at 18-4-4, and 181 lb down and 91 lb up at 20-4-4 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

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 21,2023

Continued on page 2

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



Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES.
					T30382004
3501826	T27	Flat Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:31 2023 Page 2 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-UNTCnch7GSt6u8_wXrbfZftsEk9MyH8F7v0yMkzOYFE

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-6=-54, 7-12=-20 Concentrated Loads (lb)

Vert: 12=-260(F) 1=-85(F) 9=-252(F) 3=-64(F) 13=-64(F) 14=-64(F) 15=-64(F) 15=-64(F) 17=-66(F) 18=-66(F) 19=-66(F) 20=-66(F) 21=-79(F) 22=-252(F) 23=-252(F) 24=-252(F) 25=-252(F) 26=-176(F) 27=-176(F) 28=-176(F) 29=-176(F) 30=-181(F)



Job Truss Truss Type Qty IC CONST - YOUNG RES T30382005 3501826 T28 Jack-Closed 6 Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:33 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-QlbzCliOo37q7R7leGd7e4zFbYoFQKJYaDV3QdzOYFC 1-6-0 5-3-12 Scale = 1:36.6 7.00 12 3x6 / 14 0-1-12 3x4 / 3 8 2x4 || 3x6 || 3x4 =10-8-4 10-9-0 0-0-12

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

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 0.32	Vert(LL) -0.04 7-8 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.38	Vert(CT) -0.09 7-8 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.01 6 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 54 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SP No.3 1-11-8

REACTIONS. (size) 5=Mechanical, 2=0-3-8, 6=Mechanical

Max Horz 2=212(LC 12)

Max Uplift 5=-50(LC 14), 2=-74(LC 12), 6=-75(LC 12) Max Grav 5=122(LC 19), 2=482(LC 1), 6=283(LC 19)

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

TOP CHORD 2-4=-361/21

BOT CHORD 2-8=-157/380 7-8=-157/380 **WEBS** 4-8=0/261, 4-7=-462/191

- 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) -1-6-0 to 1-6-0, Interior(1) 1-6-0 to 10-8-4 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.
- * 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.

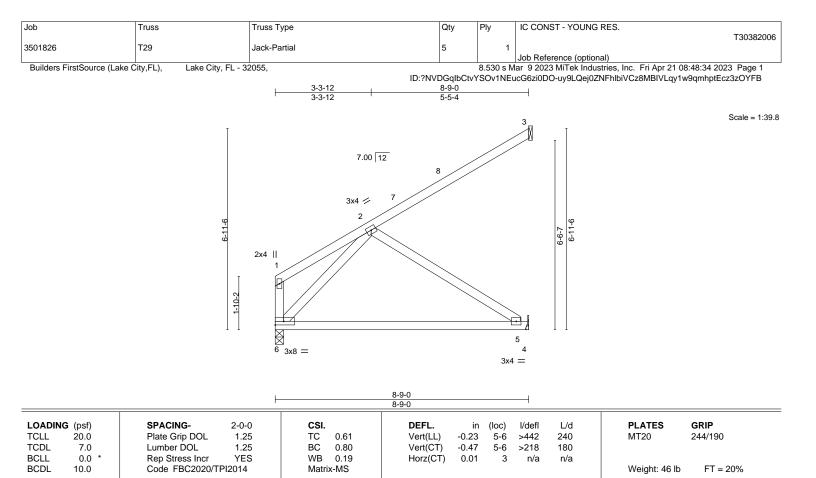
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Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No.2

BOT CHORD WEBS 2x4 SP No.3

REACTIONS. (size) 3=Mechanical, 4=Mechanical, 6=0-3-8

Max Horz 6=155(LC 12) Max Uplift 3=-57(LC 12), 4=-76(LC 12), 6=-10(LC 12)

Max Grav 3=125(LC 19), 4=210(LC 19), 6=316(LC 1)

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) 0-1-12 to 3-3-12, Interior(1) 3-3-12 to 8-8-4 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.
- * 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 6.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 21,2023



Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



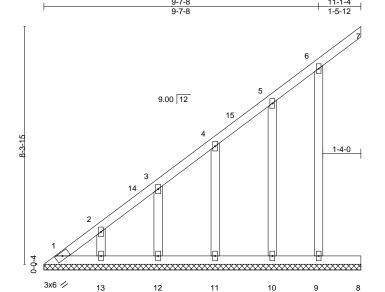
Job Truss Truss Type Qty IC CONST - YOUNG RES T30382007 3501826 V01 **GABLE** Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:36 2023 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-qKG5rKlG5_VP_vstJOAqGjbq6luSdlw_GBjj1xzOYF9

Scale = 1:40.4



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.25 TC 999 244/190 **TCLL** 0.05 Vert(LL) n/a n/a MT20 TCDL 7.0 Lumber DOL 1.25 ВС 0.03 Vert(CT) 999 n/a n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.08 Horz(CT) -0.00 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-S Weight: 65 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No.2 **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 11-1-4.

Max Horz 1=235(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 13, 12, 11, 10, 9 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 8, 13, 12, 11, 10, 9

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

TOP CHORD 1-2=-342/168, 2-3=-286/138

BRACING-

11

TOP CHORD BOT CHORD

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

TRUSS DESIGNED FOR WIND LOADS IN THE PLANE OF THE TRUSS ONLY. FOR STUDS EXPOSED TO WIND (NORMAL TO THE FACE), SEE STANDARD INDUSTRY GABLE END DETAILS AS APPLICABLE, OR CONSULT QUALIFIED BUILDING DESIGNER AS PER ANSI/TPI 1.

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) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 11-1-4 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 12, 11,

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

April 21,2023



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 chorembers 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





Builders FirstSource (Lake City,FL),

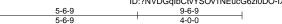
Lake City, FL - 32055,

Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:37 2023 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-IXqU2glurIdFc3R3t6i3ow7x49BTMC07VrTGZOzOYF8

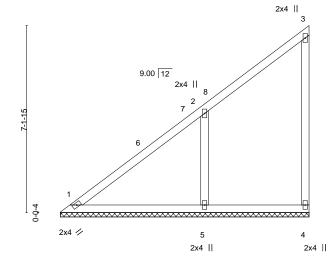
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Scale = 1:44.1



LOADIN	G (psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.23	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI20	014	Matri	x-S						Weight: 46 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

REACTIONS. (size) 1=9-6-4, 4=9-6-4, 5=9-6-4

Max Horz 1=205(LC 12)

Max Uplift 4=-30(LC 14), 5=-194(LC 12)

Max Grav 1=179(LC 21), 4=146(LC 19), 5=559(LC 19)

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

1-2=-265/140 TOP CHORD WEBS 2-5=-322/283

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) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 9-4-13 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) Gable requires continuous bottom chord bearing.
- 4) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 5=194

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April 21,2023



16023 Swingley Ridge Rd

Job	Truss	Truss Type	Qty	Ply	IC CONST - YOUNG RES.
					T30382009
3501826	V03	Valley	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:39 2023 Page 1

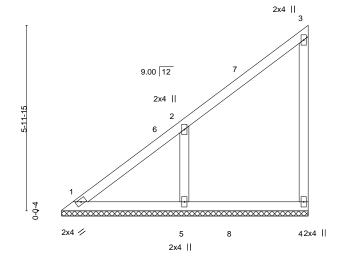
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-FvyETLn8NvtzrMbS?XkXuLDJIzuDq6mQy9yNeGzOYF6 7-11-15 3-11-15 4-0-0

Scale = 1:37.2



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI	2014	Matri	x-S						Weight: 38 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

REACTIONS. (size) 1=7-11-9, 4=7-11-9, 5=7-11-9

Max Horz 1=177(LC 12)

Max Uplift 4=-39(LC 12), 5=-168(LC 12)

Max Grav 1=134(LC 21), 4=167(LC 19), 5=435(LC 19)

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

TOP CHORD 1-2=-255/125 WEBS 2-5=-260/263

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) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 7-10-3 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) Gable requires continuous bottom chord bearing.
- 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) 4 except (jt=lb) 5=168

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Job Truss Truss Type Qty IC CONST - YOUNG RES T30382010 3501826 V04 Valley Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:41 2023 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-BI4_u1pPvX7h4gkr6xm?zmle?mbDI?EjQTRUi9zOYF4

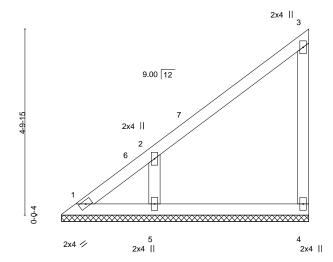
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



Scale = 1:29.9



LOADING (psf) TCLL 20.0 TCDL 7.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25	CSI. TC 0.16 BC 0.12	DEFL. Vert(LL) Vert(CT)	in (loc) n/a -	l/defl L/d n/a 999	MT20 244/190
BCLL 0.0 * BCDL 10.0	Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	BC 0.12 WB 0.08 Matrix-P	- (- /	n/a - 0.00	n/a 999 n/a n/a	Weight: 29 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

OTHERS 2x4 SP No.3

REACTIONS. (size) 1=6-4-15, 4=6-4-15, 5=6-4-15

Max Horz 1=151(LC 12)

Max Uplift 1=-24(LC 10), 4=-62(LC 12), 5=-156(LC 12) Max Grav 1=101(LC 12), 4=123(LC 19), 5=312(LC 19)

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

1-2=-260/127 TOP CHORD WEBS 2-5=-233/272

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) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 6-3-8 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) Gable requires continuous bottom chord bearing.
- 4) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=156

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Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:



Job Truss Truss Type Qty IC CONST - YOUNG RES T30382011 3501826 V05 Valley Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:42 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-fUdN5Np1gqGYiqJ1gfHEV_rm3Aun1Tkse7A1FbzOYF3 4-10-9

2x4 || 2 9.00 12 0-0-4 3 2x4 // 2x4 ||

LOADING (psf) TCLL 20.0 TCDL 7.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25	CSI. TC 0.34 BC 0.22	DEFL. in (loc) l/defl L/d Vert(LL) n/a - n/a 999 Vert(CT) n/a - n/a 999	PLATES GRIP MT20 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr YES Code FBC2020/TPI2014	WB 0.00 Matrix-P	Horz(CT) 0.00 n/a n/a	Weight: 20 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.3

REACTIONS. 1=4-10-4, 3=4-10-4 (size) Max Horz 1=111(LC 12)

Max Uplift 1=-1(LC 12), 3=-85(LC 12)

Max Grav 1=159(LC 1), 3=169(LC 19)

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) 0-5-4 to 3-5-4, Interior(1) 3-5-4 to 4-8-13 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.
- Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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Structural wood sheathing directly applied or 4-10-9 oc purlins,

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

except end verticals.

Scale = 1:21.2

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

Job Truss Truss Type Qty IC CONST - YOUNG RES T30382012 3501826 V06 Valley Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:44 2023 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-btl7W3rHCSWGx8TQn4KiaPw9h_cRVND96Rf8JUzOYF1 3-3-15 2x4 || 2 Scale = 1:15.4 9.00 12

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code FBC2020/TP	PI2014	Matri	x-P						Weight: 13 lb	FT = 20%

TOP CHORD

BOT CHORD

3

except end verticals.

Structural wood sheathing directly applied or 3-3-15 oc purlins,

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

2x4 ||

LUMBER- BRACING-

0-0-4

2x4 //

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

WEBS 2x4 SP No.3

REACTIONS. (size) 1=3-3-9, 3=3-3-9 Max Horz 1=71(LC 12)

Max Uplift 1=-1(LC 12), 3=-54(LC 12) Max Grav 1=102(LC 1), 3=108(LC 19)

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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

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Job Truss Truss Type Qty IC CONST - YOUNG RES T30382013 3501826 V07 **GABLE** 2

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

0-9-1

17

3x8 II

16

18

15

Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:45 2023 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-33JVkPsvzle7ZH2cLnrx7cTJKNvkEnlJL5PhrwzOYF0

> 10 11

Structural wood sheathing directly applied or 6-0-0 oc purlins,

8-10, 6-12, 7-11

Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

1 Row at midpt

Scale = 1:70.9

21-8-8 21-8-8 7.00 12 Bracing 3x6 // 0-1-12

BRACING-

TOP CHORD

BOT CHORD

WEBS

13

3x6 =

Plate Offsets (X,Y) [17:0-4-1,0-1-8]												
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.21	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.24	Horz(CT)	-0.05	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014		Matrix-R							Weight: 143 lb	FT = 20%

LUMBER-

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

WEBS 2x6 SP No.2 *Except* 8-10: 2x4 SP No.2

OTHERS 2x4 SP No.3

REACTIONS. All bearings 21-8-8.

(lb) -

Max Horz 17=431(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 17, 9, 10, 15, 11 except 16=-242(LC 12), 14=-133(LC 12),

12=-131(LC 12) Max Grav All reactions 250 lb or less at joint(s) 9, 10 except 17=287(LC 12), 16=434(LC 19), 15=409(LC 19),

14=426(LC 19), 12=441(LC 19), 11=336(LC 19)

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

1-2=-486/278, 2-3=-368/209, 3-5=-281/163 TOP CHORD

WEBS 2-16=-256/207

- 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) 0-2-12 to 3-2-12, Interior(1) 3-2-12 to 21-8-8 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9, 10, 15, 11 except (jt=lb) 16=242, 14=133, 12=131.

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Philip J. O'Regan PE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:





Job Truss Truss Type Qty IC CONST - YOUNG RES T30382014 3501826 V08 **GABLE** 2

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:47 2023 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-0SRG84tAVNurobC_TCtPC1YgKBcGii2coOuowpzOYF_

20-5-3 20-5-3 7.00 12 Bracing 3x6 / 5 0-1-12 3x6 /

13

LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d (loc) 20.0 Plate Grip DOL 1.25 Vert(LL) 999 **TCLL** TC 0.17 n/a n/a **TCDL** 7.0 Lumber DOL 1.25 ВС 0.20 Vert(CT) 999 n/a n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.19 Horz(CT) -0.01 8 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-S

14

PLATES GRIP 244/190 MT20

Weight: 113 lb FT = 20%

Scale = 1:62.6

LUMBER-

OTHERS

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

BRACING-

BOT CHORD

WEBS

12 11

3x6 =

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

1 Row at midpt

10

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

7-9, 6-10

9

REACTIONS. All bearings 20-5-3

2x4 SP No.3

Max Horz 1=399(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 1 except 9=-125(LC 12), 14=-132(LC 12), 13=-127(LC 12),

12=-125(LC 12), 10=-137(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 8, 1 except 9=284(LC 19), 14=376(LC 19), 13=396(LC 19),

12=417(LC 19), 10=473(LC 19)

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

TOP CHORD 1-2=-434/247, 2-3=-343/195

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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 20-5-3 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 1 except (jt=lb) 9=125, 14=132, 13=127, 12=125, 10=137.

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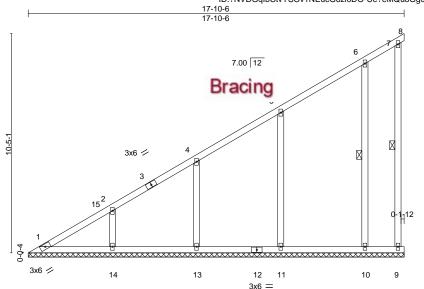


Job Truss Truss Type Qty IC CONST - YOUNG RES T30382015 3501826 V09 **GABLE** 2

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:48 2023 Page 1 ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-Ue?eMQuoGg0iQlnB0vOelF5rJbzvR86l12dLRFzOYEz



17-10-6 17-10-6 2-0-0 DEFL. CSI. (loc) I/defI L/d

LOADING (psf) SPACING-20.0 Plate Grip DOL 1.25 Vert(LL) **TCLL** TC 0.16 n/a n/a 999 **TCDL** 7.0 Lumber DOL 1.25 ВС 0.18 Vert(CT) 999 n/a n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.20 Horz(CT) -0.01 8 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-S

PLATES GRIP 244/190 MT20

Weight: 102 lb FT = 20%

Scale = 1:54.7

LUMBER-

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

2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3 BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals. BOT CHORD

Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 7-9, 6-10 1 Row at midpt

REACTIONS. All bearings 17-10-6

Max Horz 1=348(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 1 except 14=-133(LC 12), 13=-125(LC 12), 11=-132(LC 12),

10=-103(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 8, 9, 1 except 14=378(LC 19), 13=389(LC 19), 11=446(LC 19),

10=337(LC 19)

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

TOP CHORD 1-2=-375/216, 2-4=-284/164

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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 17-10-6 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 1 except (it=lb) 14=133, 13=125, 11=132, 10=103.

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Job Truss Truss Type Qty IC CONST - YOUNG RES T30382016 3501826 V10 **GABLE** 2 Job Reference (optional) 8.530 s Mar 9 2023 MiTek Industries, Inc. Fri Apr 21 08:48:50 2023 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:?NVDGqlbCtvYSOv1NEucG6zi0DO-Q16On6v2oIGPg3wZ8KQ6qgABwOemv3t2UM6SW7zOYEx 15-3-8 15-3-8 Scale = 1:43.1 7.00 12 Bracing 3x6 // X 12 112 3x6 / 11 10 9 8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defI 20.0 Plate Grip DOL 1.25 Vert(LL) 999 244/190 **TCLL** TC 0.15 n/a n/a MT20 **TCDL** 7.0 Lumber DOL 1.25 ВС 0.15 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.18 Horz(CT) -0.01 n/a n/a Code FBC2020/TPI2014 BCDL 10.0 Matrix-S Weight: 79 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

WEBS

except end verticals.

1 Row at midpt

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

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.3 WEBS **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 15-3-8. (lb) -

Max Horz 1=296(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 7, 8 except 11=-132(LC 12), 10=-128(LC 12), 9=-119(LC 12) Max Grav All reactions 250 lb or less at joint(s) 7, 8, 1 except 11=375(LC 19), 10=399(LC 19), 9=409(LC 19)

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

TOP CHORD 1-2=-315/194

NOTES-

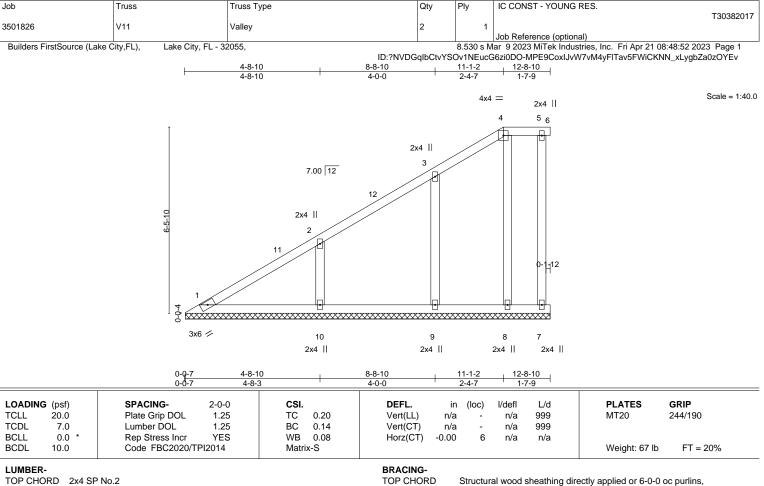
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 15-3-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 8 except (jt=lb) 11=132, 10=128, 9=119.

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except end verticals.

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

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEBS

OTHERS 2x4 SP No.3

(lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 8 except 9=-104(LC 12), 10=-152(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 6, 7, 8 except 9=317(LC 19), 10=436(LC 19)

2x4 SP No.3 BOT CHORD

All bearings 12-8-3. Max Horz 1=212(LC 12)

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

WEBS NOTES-

REACTIONS.

- 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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 11-1-2, Exterior(2E) 11-1-2 to 12-8-10 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) Gable requires continuous bottom chord bearing.

2-10=-265/173

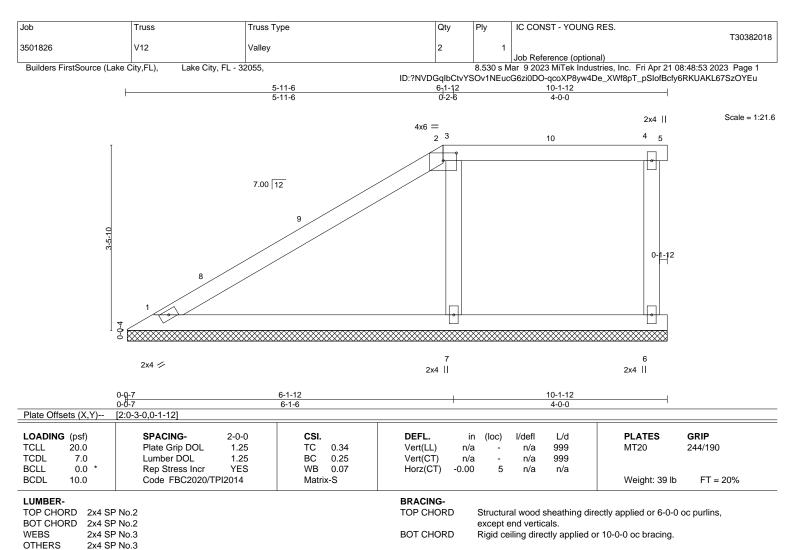
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7, 8 except (jt=lb) 9=104, 10=152.

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REACTIONS. All bearings 10-1-6. Max Horz 1=109(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 5=-123(LC 24), 6=-161(LC 8), 7=-148(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=263(LC 24), 7=419(LC 1)

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

WEBS 3-7=-288/180

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) 0-6-8 to 3-6-8, Interior(1) 3-6-8 to 5-11-6, Exterior(2E) 5-11-6 to 10-1-12 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.
- 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.
- * 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) 1 except (jt=lb) 5=123, 6=161, 7=148.

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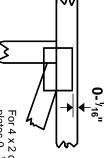


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

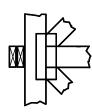
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



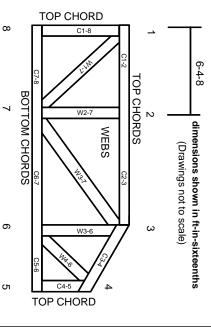
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction. Design Standard for Bracing.
Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-89:

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/TPI 1 section 6.3 These truss designs rely on lumber values established by others.

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- 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.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- Cut members to bear tightly against each other.

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- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- 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.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.