



RE: 3363903 - IC CONST. - ROYSTER RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Site Information:

Customer Info: IC CONSTRUCTION Project Name: Royster 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: 55.0 psf

This package includes 71 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	T30017789	CJ01	3/10/23	15	T30017803	F04	3/10/23
2	T30017790	CJ03	3/10/23	16	T30017804	F05	3/10/23
3	T30017791	CJ05	3/10/23	17	T30017805	F06	3/10/23
4	T30017792	EJ01	3/10/23	18	T30017806	HJ10	3/10/23
5	T30017793	EJ02	3/10/23	19	T30017807	KW1	3/10/23
6	T30017794	EJ03	3/10/23	20	T30017808	KW6	3/10/23
7	T30017795	EJ04	3/10/23	21	T30017809	PB01	3/10/23
8	T30017796	EJ05	3/10/23	22	T30017810	PB02G	3/10/23
9	T30017797	EJ06	3/10/23	23	T30017811	PB03	3/10/23
10	T30017798	EJ07	3/10/23	24	T30017812	PB04	3/10/23
11	T30017799	EJ08	3/10/23	25	T30017813	PB05	3/10/23
12	T30017800	F01	3/10/23	26	T30017814	PB06	3/10/23
13	T30017801	F02	3/10/23	27	T30017815	PB07	3/10/23
14	T30017802	F03	3/10/23	28	T30017816	T01	3/10/23

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

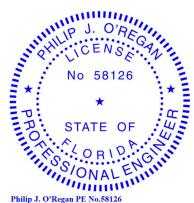
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The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Builders FirstSource-Lake City, FL.

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:



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## **Site Information:**

Customer Info: IC CONSTRUCTION Project Name: Royster Res. Model: Custom Lot/Block: N/A Subdivision: N/A

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

City: Columbia Cty State: FL

No. 29 31 233 34 35 367 389 41 243 445 447 849 55 55 55 55 56 66 663 45 66 663 665 665 665 665 665 665 665 665	Seal# T30017817 T30017818 T30017819 T30017820 T30017822 T30017824 T30017825 T30017826 T30017827 T30017828 T30017828 T30017830 T30017830 T30017831 T30017832 T30017833 T30017834 T30017835 T30017836 T30017836 T30017837 T30017836 T30017837 T30017836 T30017837 T30017836 T30017837 T30017836 T30017836 T30017840 T30017841 T30017842 T30017844 T30017845 T30017845 T30017845 T30017848 T30017846 T30017847 T30017847 T30017848 T30017848 T30017849 T30017850 T30017850 T30017850	Truss Name T02 T03 T04 T05 T06 T07 T08 T09 T10 T11 T12 T13 T14 T14G T15 T16 T17 T18 T19 T19G T20 T21 T22 T23 T23G T24 T25 T26 T27 T27G T27G T27G T28 T29 T30 T30G T31 T32	Date  3/10/23
62	T30017850	T30G	3/10/23
63	T30017851	T31	3/10/23



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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:02:36 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-U1XQLq8Ae9TOQyFVP15UNHLijDBoGVSMyKtbUvzcgRH

Structural wood sheathing directly applied or 0-11-8 oc purlins,

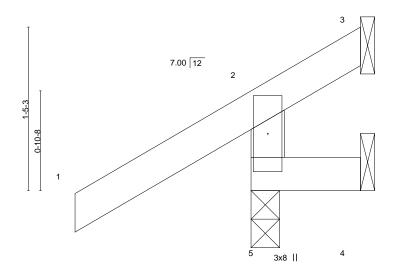
Rigid ceiling directly applied or 10-0-0 oc bracing.

-1-6-8 1-6-8

> 0-11-8 0-11-8

except end verticals

Scale = 1:10.1



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	0.22	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDI	10.0	Code FBC2020/T	PI2014	Matri	x-MR	, ,					Weight: 7 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

2x4 SP No.3 WFBS

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

Max Horz 5=40(LC 12)

Max Uplift 5=-67(LC 12), 3=-51(LC 1), 4=-16(LC 1) Max Grav 5=217(LC 1), 3=16(LC 16), 4=9(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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; end vertical left exposed; 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) 5, 3, 4.

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:



IC CONST. - ROYSTER RES. Job Truss Truss Type Qty Ply T30017790 3363903 CJ03 6 Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:02:37 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-yD5oZA8oPTbF26piykcjwUutZdWW?yiVB\_d81LzcgRG -1-6-8 1-6-8 Scale: 3/4"=1" 7.00 12 0-10-8 3x8 |

LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.	.0	Plate Grip DOL	1.25	TC	0.22	Vert(LL)	-0.00	4-5	>999	240	MT20	244/190
TCDL 7.	.0	Lumber DOL	1.25	ВС	0.07	Vert(CT)	-0.01	4-5	>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/TF	PI2014	Matri	x-MR						Weight: 13 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

2-11-8

except end verticals

LUMBER-

REACTIONS.

WFBS

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

2x4 SP No.3 (size) 5=0-3-0, 3=Mechanical, 4=Mechanical

Max Horz 5=82(LC 12) Max Uplift 5=-50(LC 12), 3=-49(LC 12), 4=-2(LC 12) Max Grav 5=221(LC 1), 3=60(LC 19), 4=49(LC 3)

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

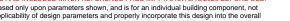
#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 2-10-12 zone; end vertical left exposed; 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) 5, 3, 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:

March 10,2023



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

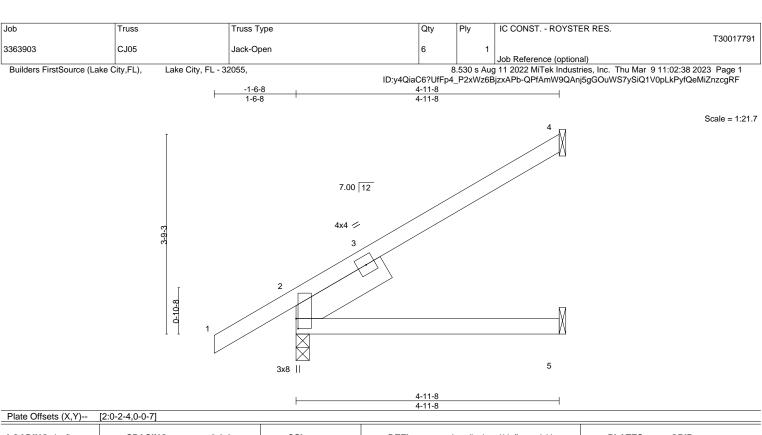
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Structural wood sheathing directly applied or 2-11-8 oc purlins,

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



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.04	5-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.22	Vert(CT)	-0.05	5-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	4	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 23 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

BOT CHORD SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS.

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

Max Horz 2=133(LC 12)

Max Uplift 4=-84(LC 12), 2=-52(LC 12), 5=-8(LC 12) Max Grav 4=120(LC 19), 2=278(LC 1), 5=86(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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 4-10-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
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- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.

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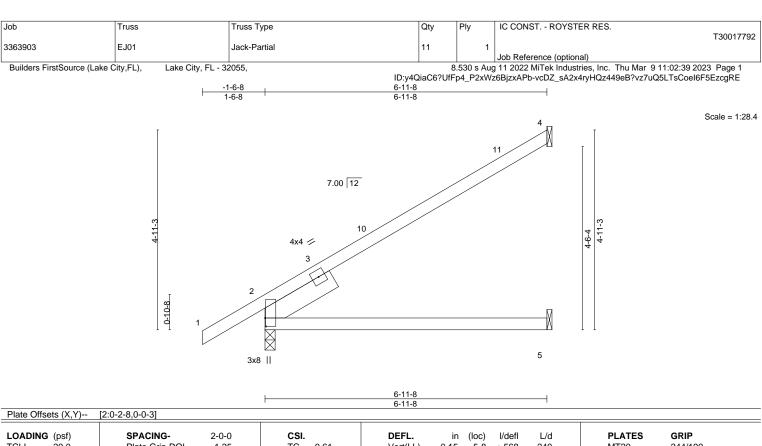
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Structural wood sheathing directly applied or 4-11-8 oc purlins.

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



LOADING (psf) **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.61 Vert(LL) 0.15 5-8 >568 240 MT20 244/190 TCDL 0.50 Vert(CT) 7.0 Lumber DOL 1.25 вс -0.21 5-8 >396 180 0.0 WB 0.00 **BCLL** Rep Stress Incr YES Horz(CT) 0.06 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 30 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS.

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

Max Horz 2=170(LC 12)

Max Uplift 4=-106(LC 12), 2=-64(LC 12), 5=-9(LC 12) Max Grav 4=173(LC 19), 2=348(LC 1), 5=124(LC 3)

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

TOP CHORD 2-4=-332/74

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 6-10-12 zone; end vertical left exposed; 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) 2, 5 except (jt=lb) 4=106.

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March 10,2023

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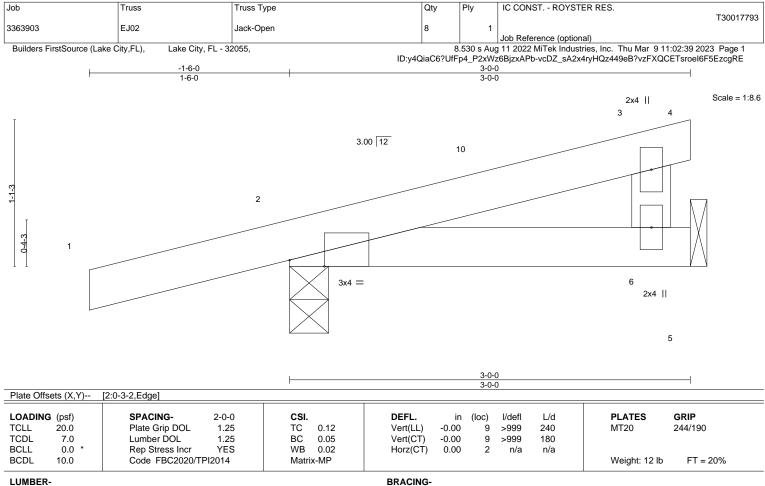
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

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

Chesterfield, MO 63017



TOP CHORD

**BOT CHORD** 

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

2x4 SP No 3 WFBS

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

Max Horz 2=45(LC 8)

Max Uplift 2=-104(LC 8), 6=-29(LC 12) Max Grav 2=203(LC 1), 6=88(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=25ft; 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 3-0-0 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.
- 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) 6 except (jt=lb) 2 = 104.

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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:

March 10,2023



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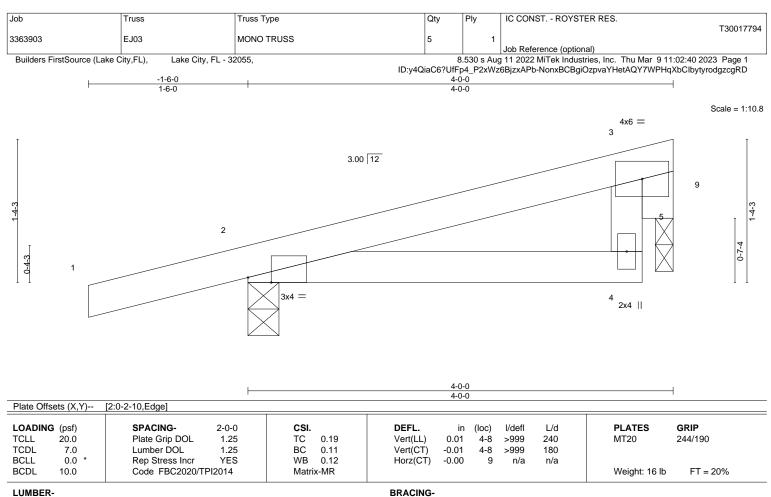
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Structural wood sheathing directly applied or 3-0-0 oc purlins.

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



TOP CHORD

BOT CHORD

LUMBER-TOP CHORD **BOT CHORD** 

2x4 SP No.2 2x4 SP No.2

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

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

Max Horz 2=51(LC 8) Max Uplift 2=-146(LC 8), 9=-56(LC 8)

Max Grav 2=240(LC 1), 9=104(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=25ft; 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 3-6-12 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
- 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) 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=146

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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:

March 10,2023



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



Structural wood sheathing directly applied or 4-0-0 oc purlins,

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

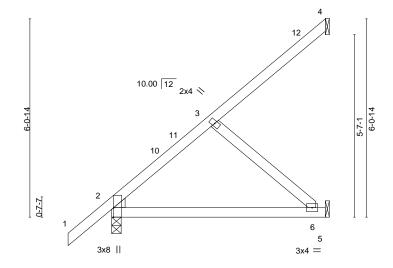
except end verticals.

Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
					T30017795
3363903	EJ04	Jack-Open	6	1	
					Job Reference (optional)

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:02:41 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-r\_LJPXBITi5gXk7TBahf4K2YTEpoxlW56cbMA6zcgRC

Scale = 1:35.3



1	6-6-8	1
	6-6-8	1

	Plate Off	sets (X,Y)	[2:0-3-8,Edge]					
_	LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in
-	TCLL	20.Ó	Plate Grip DOL	1.25	TC	0.29	Vert(LL)	-0.06
-	TCDL	7.0	Lumber DOL	1.25	ВС	0.37	Vert(CT)	-0.11
- 1	BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.01
- 1	BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP		

(loc) 6-9 >999 240 MT20 244/190 6-9 >679 180 n/a n/a Weight: 32 lb FT = 20%

L/d

I/defI

LUMBER-

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

WEDGE

Left: 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.

**PLATES** 

**GRIP** 

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

Max Horz 2=229(LC 12)

Max Uplift 4=-66(LC 12), 2=-20(LC 12), 5=-84(LC 12) Max Grav 4=80(LC 19), 2=319(LC 1), 5=177(LC 19)

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

WFBS 3-6=-200/255

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.

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:



IC CONST. - ROYSTER RES. Job Truss Truss Type Qty Ply T30017796 3363903 EJ05 Half Hip Job Reference (optional)

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:02:42 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-JAuhctCxE?DX8tiflHCudYbjPe9UgCpEKGKviYzcgRB

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

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

except end verticals.

3-1-14 3-1-14 2-11-11

> Scale = 1:36.8 2x4 ||

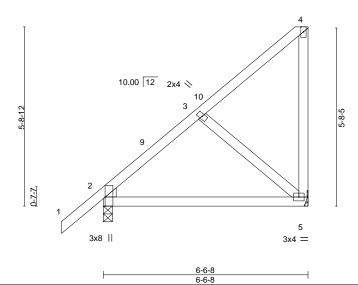


Plate Offsets (X,Y) [2:0-3-8,Edge]											
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP							
TCLL 20.0	Plate Grip DOL 1.25	TC 0.28	Vert(LL) -0.05 5-8 >999 240	MT20 244/190							
TCDL 7.0	Lumber DOL 1.25	BC 0.34	Vert(CT) -0.10 5-8 >764 180								
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.01 2 n/a n/a								
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MP		Weight: 40 lb FT = 20%							

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WFBS WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=230(LC 12)

Max Uplift 2=-16(LC 12), 5=-157(LC 12) Max Grav 2=316(LC 1), 5=253(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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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) 2 except (jt=lb) 5=157.

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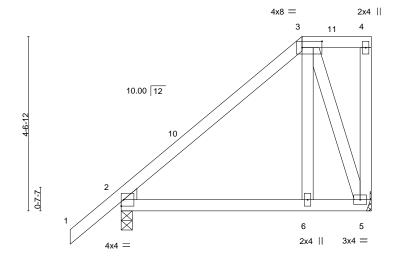
Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
					T30017797
3363903	EJ06	Half Hip	1	1	
					Job Reference (optional)

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:02:43 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-nNS3pDDZ?JLOm1HrJ?j79l8uV1VqPfkOZw4SE?zcgRA

-1-4-0 4-8-12 6-6-8 1-4-0 4-8-12 1-9-12

Scale = 1:30.1



1	4-8-12	6-6-8
	4-8-12	1-9-12

					7 U 12			0 12			
Plate Offsets (X,Y)	[3:0-6-4,0-2-0]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	0.03	6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	ВС	0.33	Vert(CT)	-0.03	6-9	>999	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/T	PI2014	Matri	x-MP	` ′					Weight: 43 lb	FT = 20%

LUMBER-

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

WEDGE

Left: 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 10-0-0 oc bracing.

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

Max Horz 2=181(LC 12)

Max Uplift 2=-54(LC 12), 5=-106(LC 12) Max Grav 2=316(LC 1), 5=229(LC 1)

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

## NOTES-

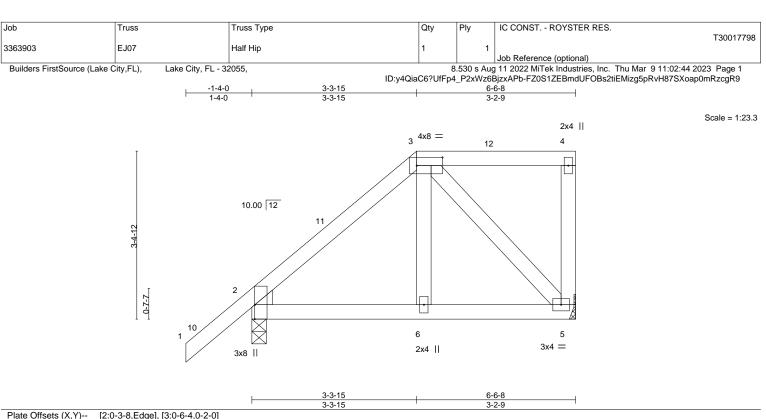
- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 4-8-12, Exterior(2E) 4-8-12 to 6-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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) 5=106.

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March 10,2023





	, ,				
LOADIN	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 0.15	Vert(LL) 0.01 6-9 >999 240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.13	Vert(CT) -0.01 6-9 >999 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.06	Horz(CT) -0.00 2 n/a n/a	I
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MP		Weight: 38 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No.3 WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=138(LC 12)

Max Uplift 2=-76(LC 12), 5=-73(LC 12) Max Grav 2=316(LC 1), 5=229(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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-3-15, Exterior(2E) 3-3-15 to 6-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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, 5.

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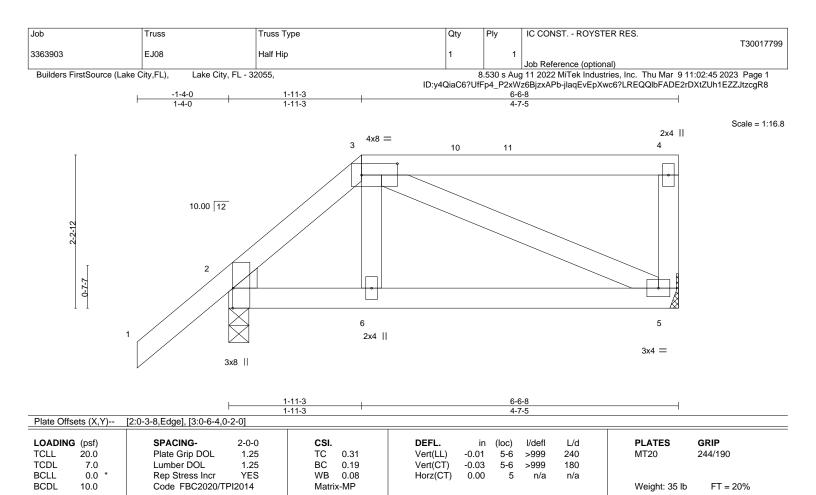
ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



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

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

except end verticals.



BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WFBS 2x4 SP No 3 WEDGE

Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=96(LC 12)

Max Uplift 2=-90(LC 12), 5=-71(LC 9) Max Grav 2=316(LC 1), 5=229(LC 1)

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

TOP CHORD 2-3=-251/85

## NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.

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March 10,2023





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	Ply	IC CONST ROYSTER RES.
3363903	F01	Floor	2	1	T30017800
			_		Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:02:47 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-g8iafbG32YsqFfadYro3KblTxfjgLM4zUY2gNmzcgR6

15-1-0

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

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

16-7-0

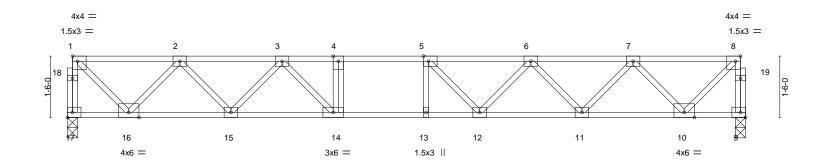
12-7-0

except end verticals.

2-2-0 oc bracing: 13-14.

H — 1-3-0 1-11-8

0-1-8 Scale = 1:28.2



	1-6-0	2-6-0	1		6-1-0				2-6-0	1	2-6-0	1-6-0
Plate Of	fsets (X,Y)	[1:Edge,0-1-8], [5:0-1-8,E	dge], [8:0-1-8,	Edge]								
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC 0	.74	Vert(LL)	-0.19 1	2-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0	.91	Vert(CT)	-0.25 1	2-13	>779	240		
BCLL	0.0	Rep Stress Incr	YES	WB 0	.52	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code FBC2020/TI	PI2014	Matrix-S	;						Weight: 90 lb	FT = 20%F, 11%E

**BRACING-**

TOP CHORD

BOT CHORD

10-1-0

LUMBER-TOP CHORD **BOT CHORD** 

2x4 SP No.2(flat) 2x4 SP No.1(flat)

2x4 SP No.3(flat) WFBS

1-6-0

REACTIONS. (size) 17=0-3-0, 9=0-3-0

Max Grav 17=892(LC 1), 9=892(LC 1)

4-0-0

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

1-17=-889/0, 8-9=-888/0, 1-2=-793/0, 2-3=-1900/0, 3-4=-2628/0, 4-5=-2628/0, TOP CHORD

5-6=-2509/0, 6-7=-1916/0, 7-8=-788/0

BOT CHORD 15-16=0/1483, 14-15=0/2316, 13-14=0/2628, 12-13=0/2628, 11-12=0/2334, 10-11=0/1479

**WEBS** 8-10=0/1082, 1-16=0/1090, 7-10=-1028/0, 2-16=-1027/0, 7-11=0/649, 2-15=0/620,  $6-11=-622/0,\ 3-15=-617/0,\ 6-12=0/363,\ 3-14=0/644,\ 5-12=-416/84,\ 4-14=-288/0$ 

#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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March 10,2023

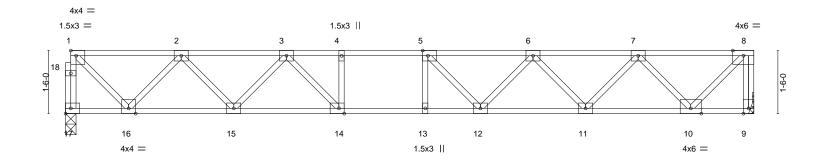


Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
			_		T30017801
3363903	F02	Floor	7	1	
					Job Reference (optional)

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:02:48 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-8KGytxHhpr\_hso9p6YJlsprfa24Z4pH7jCnDvCzcgR5





	1-6-0	2-6-0		5-10-6		'	2-6-0	<u>'</u>	2-6-0	1-6-0
Plate Off	sets (X,Y)	[1:Edge,0-1-8], [5:0-1-8,E	dge], [14:0-1-	3,Edge]						
LOADIN	\	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC 0.68	Vert(LL)	-0.17 12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.87	Vert(CT)	-0.23 12-13	>840	240		
BCLL	0.0	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.04 9	n/a	n/a		
BCDL	5.0	Code FBC2020/T	PI2014	Matrix-S					Weight: 88 lb	FT = 20%F, 11%E

9-10-6

LUMBER-BRACING-TOP CHORD 2x4 SP No.2(flat)

**BOT CHORD** 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS

1-6-0

REACTIONS. (size) 17=0-3-0, 9=Mechanical TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

14-10-6

16-4-6

12-4-6

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

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

1-17=-877/0, 8-9=-881/0, 1-2=-781/0, 2-3=-1867/0, 3-4=-2560/0, 4-5=-2560/0, TOP CHORD

5-6=-2453/0, 6-7=-1883/0, 7-8=-774/0

Max Grav 17=880(LC 1), 9=886(LC 1)

4-0-0

BOT CHORD 15-16=0/1460, 14-15=0/2272, 13-14=0/2560, 12-13=0/2560, 11-12=0/2289, 10-11=0/1458

**WEBS** 8-10=0/1095, 1-16=0/1073, 7-10=-1017/0, 2-16=-1011/0, 7-11=0/632, 2-15=0/604,  $6-11=-604/0,\ 3-15=-603/0,\ 6-12=0/345,\ 3-14=0/614,\ 5-12=-390/92,\ 4-14=-276/0$ 

#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION. Do not erect truss backwards.

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:



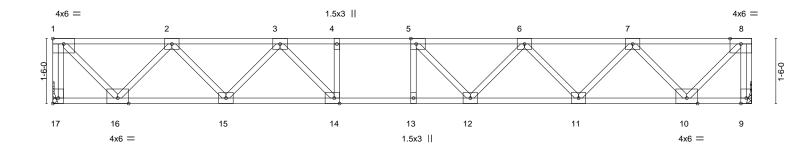
Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
					T30017802
3363903	F03	Floor	4	1	
					Job Reference (optional)

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:02:49 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-cXqL4GlKa96YUyk?fGqXP0NrcSRlpGcGxsXnSezcgR4

1-7-12 1-3-0

Scale = 1:26.6



<u> </u>	1-6-0 1-6-0	4-0-0 2-6-0		9-7-12 5-7-12			2-1-12 2-6-0	+ 14-7-12 2-6-0	16-1-12 1-6-0
Plate Offs	sets (X,Y)	[1:Edge,0-1-8], [5:0-1-8,E	dge], [14:0-1-8				200	200	100
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC 0.60	Vert(LL)	-0.15 12-13	>999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.81	Vert(CT)	-0.20 12-13	>937 240		
BCLL	0.0	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.04 9	n/a n/a	ı	
BCDL	5.0	Code FBC2020/TF	PI2014	Matrix-S				Weight: 88 lb	FT = 20%F, 11%E

LUMBER-TOP CHORD

2x4 SP No.2(flat) 2x4 SP No.1(flat)

BOT CHORD

2x4 SP No.3(flat) WFBS

BRACING-

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

except end verticals.

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

REACTIONS. (size) 17=Mechanical, 9=Mechanical

Max Grav 17=874(LC 1), 9=874(LC 1)

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

TOP CHORD 1-17=-870/0, 8-9=-869/0, 1-2=-767/0, 2-3=-1835/0, 3-4=-2495/0, 4-5=-2495/0,

5-6=-2397/0, 6-7=-1849/0, 7-8=-762/0

BOT CHORD 15-16=0/1439, 14-15=0/2227, 13-14=0/2495, 12-13=0/2495, 11-12=0/2245, 10-11=0/1435

**WEBS** 8-10=0/1078, 1-16=0/1085, 7-10=-1000/0, 2-16=-999/0, 7-11=0/616, 2-15=0/588,  $6-11=-588/0,\ 3-15=-583/0,\ 6-12=0/328,\ 3-14=0/576,\ 5-12=-366/97,\ 4-14=-252/0$ 

#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
3363903	F04	Floor	1	1	T30017803
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:02:50 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-4jNjHclyLTEP66JCDzLmyEw3Qsu3YmWQAWGK\_5zcgR3

11-5-12 11-6-0

except end verticals.

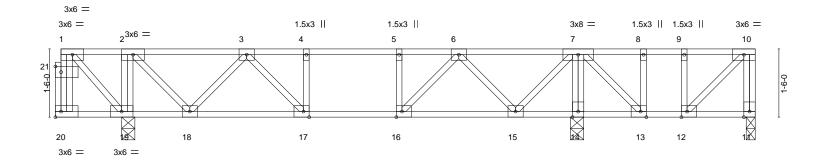
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

15-4-12

0-1-8





1-5-8 0-	1-8 1-4-8	7-2-0	` 1·	-4-4 0-0-4	3-10-12
Plate Offsets (X,Y)	[12:0-1-8,Edge], [13:0-1-8,Edge], [16:0-	1-8,Edge], [17:0-1-8,Edge], [21	:0-1-8,0-1-8]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/def	fl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.40	Vert(LL) -0.04 17-18 >999	360	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.36	Vert(CT) -0.05 17-18 >999	9 240	
BCLL 0.0	Rep Stress Incr NO	WB 0.28	Horz(CT) 0.01 14 n/a	a n/a	
BCDL 5.0	Code FBC2020/TPI2014	Matrix-S			Weight: 93 lb FT = 20%F, 11%E

**BRACING-**TOP CHORD

BOT CHORD

10-1-8

LUMBER-

TOP CHORD 2x4 SP No.2(flat) 2x4 SP No.2(flat)

1-5-8 1-7-0 2-11-8

**BOT CHORD** 

2x4 SP No.3(flat) WFBS

REACTIONS. (size) 11=0-2-6, 19=0-3-8, 14=0-3-8

Max Uplift 11=-35(LC 3)

Max Grav 11=211(LC 11), 19=1008(LC 3), 14=832(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-2=0/344, 2-3=-336/210, 3-4=-836/0, 4-5=-836/0, 5-6=-836/0, 6-7=-300/49 TOP CHORD **BOT CHORD** 18-19=-344/0, 17-18=-95/681, 16-17=0/836, 15-16=0/660, 14-15=-350/29,

13-14=-350/29

WFBS 2-19=-656/0, 7-14=-859/0, 1-19=-494/0, 7-15=0/593, 2-18=0/584, 6-15=-545/0,

 $3-18=-542/0,\ 6-16=0/328,\ 3-17=0/360,\ 7-13=0/420$ 

#### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.

# LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 11-20=-10, 1-10=-100 Concentrated Loads (lb)

Vert: 1=-300

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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:

March 10,2023

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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



Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
	=				T30017804
3363903	F05	Floor	4	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

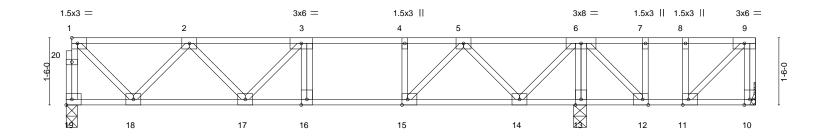
Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:02:51 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-Yvx5VyJa6mMFjGuOngs?URTC1G7DHCsZPA0uWXzcgR2



0-9-4

Scale = 1:25.7



1-0-0	2-0-0	0-1-0	1-4-4 0-0-4	3-10-12
Plate Offsets (X,Y)	[11:0-1-8,Edge], [12:0-1-8,Edge], [15:0-	1-8,Edge]		
LOADING (psf)	SPACING- 2-0-0	CSI. DEFL	. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.54 Vert(L	L) -0.09 16-17 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.75 Vert(C	ST) -0.12 16-17 >999 240	
BCLL 0.0	Rep Stress Incr YES	WB 0.34 Horz(	CT) 0.02 10 n/a n/a	
BCDL 5.0	Code FBC2020/TPI2014	Matrix-S		Weight: 89 lb FT = 20%F, 11%E

LUMBER-TOP CHORD

2x4 SP No.2(flat) 2x4 SP No.2(flat)

**BOT CHORD** WFBS

2x4 SP No.3(flat)

**BRACING-**

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

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

11-5-12 11-6-0

6-0-0 oc bracing: 13-14,12-13.

REACTIONS. (size) 19=0-3-0, 10=Mechanical, 13=0-3-8

Max Grav 19=622(LC 10), 10=273(LC 7), 13=853(LC 8)

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

TOP CHORD 1-19=-615/0, 9-10=-274/0, 1-2=-522/0, 2-3=-1148/0, 3-4=-1266/0, 4-5=-1266/0,

5-6=-528/0

17-18=0/979, 16-17=0/1266, 15-16=0/1266, 14-15=0/966

**WEBS**  $6\text{-}13\text{=-}859/0,\ 1\text{-}18\text{=-}0/715,\ 6\text{-}14\text{=-}0/663,\ 2\text{-}18\text{=-}680/0,\ 5\text{-}14\text{=-}660/0,\ 2\text{-}17\text{=-}0/251,}$ 

5-15=0/497, 9-11=0/320, 6-12=-2/314

#### NOTES-

BOT CHORD

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION. Do not erect truss backwards.

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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:

March 10,2023



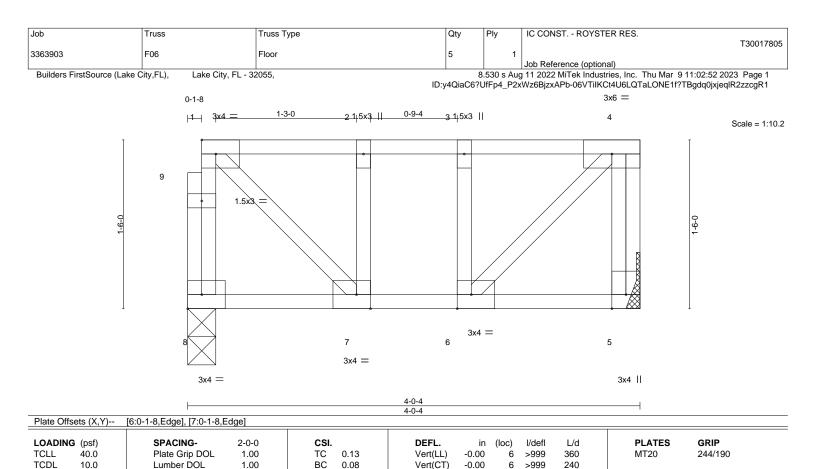
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available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





-0.00

0.00

Horz(CT)

BRACING-TOP CHORD

BOT CHORD

6

5

n/a

except end verticals.

240

n/a

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

Structural wood sheathing directly applied or 4-0-4 oc purlins,

Weight: 28 lb

FT = 20%F, 11%E

LUMBER-TOP CHORD

**BCLL** 

BCDL

2x4 SP No.2(flat) **BOT CHORD** 2x4 SP No.2(flat)

2x4 SP No.3(flat) WFBS

10.0

0.0

5.0

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

Max Grav 8=201(LC 1), 5=207(LC 1)

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

1) Unbalanced floor live loads have been considered for this design.

Rep Stress Incr

Code FBC2020/TPI2014

- 2) Refer to girder(s) for truss to truss connections.
- 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

1.00

YES

WB

Matrix-S

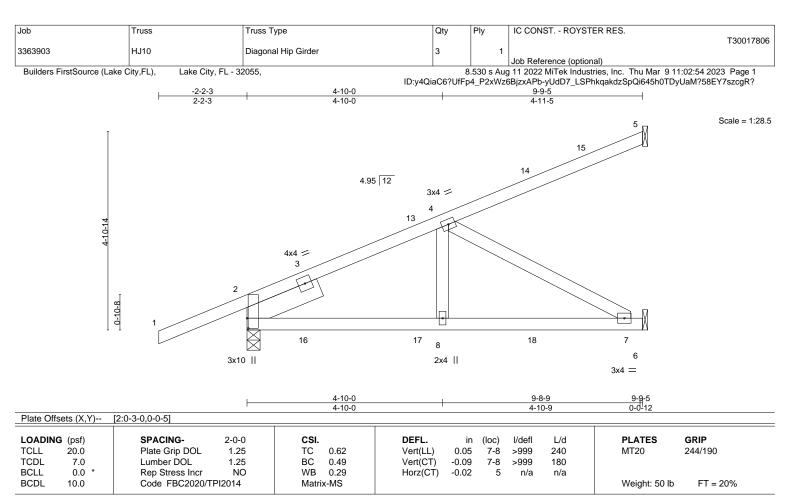
0.10

4) CAUTION, Do not erect truss backwards.

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**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS.

(size) 5=Mechanical, 2=0-3-14, 6=Mechanical Max Horz 2=170(LC 8)

Max Uplift 5=-86(LC 8), 2=-246(LC 4), 6=-154(LC 8) Max Grav 5=142(LC 1), 2=476(LC 35), 6=307(LC 35)

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

TOP CHORD 2-4=-569/253

**BOT CHORD** 2-8=-297/461 7-8=-297/461

**WEBS** 4-7=-526/339

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; 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) 5 except (jt=lb) 2=246. 6=154.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 127 lb up at 1-5-5, 61 lb down and 127 lb up at 1-5-5, 83 lb down and 49 lb up at 4-3-4, 83 lb down and 49 lb up at 4-3-4, and 114 lb down and 95 lb up at 7-1-3, and 114 lb down and 95 lb up at 7-1-3 on top chord, and 9 lb down and 43 lb up at 1-5-5, 9 lb down and 43 lb up at 1-5-5, 23 lb down and 9 lb up at 4-3-4, 23 lb down and 9 lb up at 4-3-4, and 47 lb down and 23 lb up at 7-1-3, and 47 lb down and 23 lb up at 7-1-3 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: 3=65(F=33, B=33) 14=-68(F=-34, B=-34) 17=4(F=2, B=2) 18=-58(F=-29, B=-29)

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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:

March 10,2023

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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

ſ	Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.	٦
						T30017807	
	3363903	KW1	GABLE	1	1		
						Llob Reference (optional)	

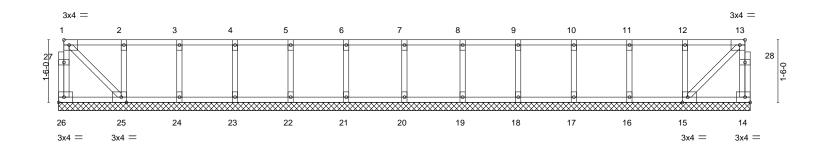
Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:02:56 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-vtl\_YgNjxl\_Yq1mLaESABVA9eH0uyYsIYRjeAkzcgQz

Scale = 1:27.6





1-6-12 1-6-12	2-10-12 4-2-12 1-4-0 1-4-0	5-6-12 1-4-0	6-10-12 1-4-0	8-3-8 1-4-12	9-8-4 1-4-12		0-4 1-0	12-4-4 1-4-0		13-8-4 1-4-0	15-0-4 1-4-0	16-7-0 1-6-12
Plate Offsets (X,Y)	[13:0-1-8,Edge], [15:0-1-8,	Edge], [25:0-1-	·8,Edge]									
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TPI	2-0-0 1.00 1.00 YES 2014	CSI. TC 0.1 BC 0.0 WB 0.0 Matrix-S	)1	<b>DEFL.</b> Vert(LL) Vert(CT) Horz(CT)	in n/a n/a -0.00	(loc) - - 15	l/defl n/a n/a n/a	L/d 999 999 n/a		PLATES MT20 Weight: 82 lb	<b>GRIP</b> 244/190 FT = 20%F, 11%E

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2(flat)	TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins,
BOT CHORD	2x4 SP No.2(flat)		except end verticals.
WEBS	2x4 SP No.3(flat)	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
OTHERS	2x4 SP No.3(flat)		10-0-0 oc bracing: 25-26,14-15.

REACTIONS. All bearings 16-7-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 15, 20, 16, 17, 18, 19, 24, 23, 22, 21

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

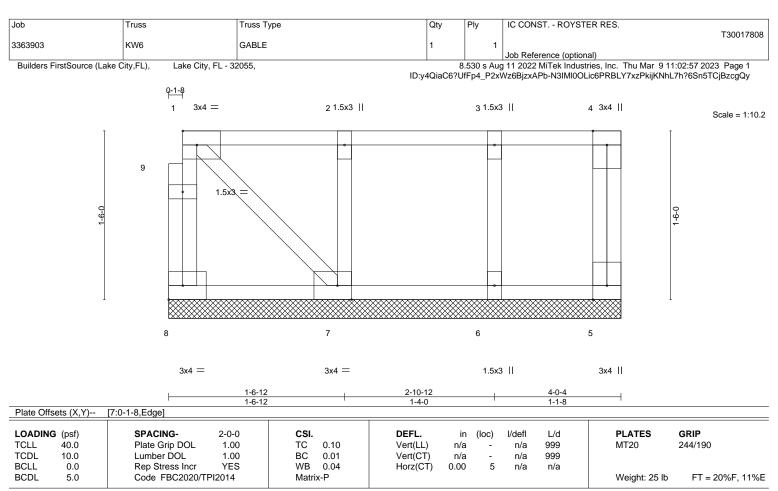
#### NOTES-

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Gable requires continuous bottom chord bearing.
- 3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 4) Gable studs spaced at 1-4-0 oc.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

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BRACING-TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.2(flat) 2x4 SP No.2(flat)

**BOT CHORD** WFBS

2x4 SP No.3(flat)

**OTHERS** 2x4 SP No.3(flat)

REACTIONS. All bearings 4-0-4.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

#### NOTES-

- 1) Gable requires continuous bottom chord bearing.
- 2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 3) Gable studs spaced at 1-4-0 oc.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) CAUTION, Do not erect truss backwards.

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Structural wood sheathing directly applied or 4-0-4 oc purlins,

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

except end verticals.

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

March 10,2023

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

J	ob	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.	٦
						T30017809	)
3	363903	PB01	PIGGYBACK	11	1		
						Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:02:58 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-rFskzLPzTwEG3LwkheUeGwFUc4gsQS6b0lClFdzcgQx

Scale = 1:26.0 2x4 || 5 7.00 12 2x4 || 0-1-8 0-4-5 0-1-10 6 2x4 || 2x4 =2x4 || 7-8-0

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-P						Weight: 31 lb	FT = 20%

LUMBER-

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

**BRACING-**

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

except end verticals

**BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 6-9-13.

Max Horz 2=151(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 6=-122(LC 12), 7=-132(LC 12) Max Grav All reactions 250 lb or less at joint(s) 5, 6, 2 except 7=301(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=25ft; 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 7-8-0 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.
- 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) 5 except (jt=lb) 6=122, 7=132,
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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:

March 10,2023

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



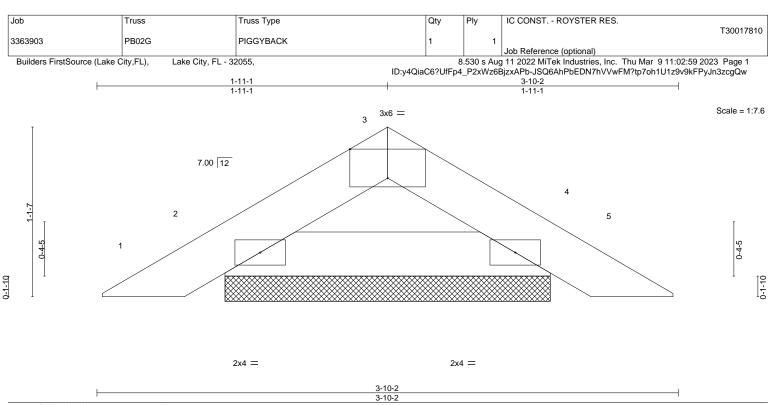


Plate Offsets (X,Y)	[3:0-3-0,Edge]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.02	Vert(LL) -0.00 4 n/r 120	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.05	Vert(CT) -0.00 4 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 4 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-P		Weight: 10 lb FT = 20%

LUMBER-TOP CHORD BOT CHORD

2x4 SP No.2 2x4 SP No.2 **BRACING-**

TOP CHORD **BOT CHORD**  Structural wood sheathing directly applied or 3-10-2 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-1-13, 4=2-1-13

Max Horz 2=-22(LC 10)

Max Uplift 2=-32(LC 12), 4=-32(LC 13) Max Grav 2=109(LC 1), 4=109(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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

March 10,2023



Job Truss Truss Type Qty Ply IC CONST. - ROYSTER RES. T30017811 3363903 **PB03** Piggyback Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:00 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-ne\_VO1QD\_XV\_If47p3W6LLLsauNauMCuT3hsKWzcgQv Scale = 1:11.3 4x4 =3 7.00 12 2 0-4-5 0-4-0-1-10 6 2x4 = 2x4 || 2x4 = 5-0-0 5-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.04 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.03 Vert(CT) 0.00 n/r 120 WB 0.01 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-P Weight: 14 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins. BOT CHORD 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SP No.3 WFBS REACTIONS. (size) 2=3-3-11, 4=3-3-11, 6=3-3-11 Max Horz 2=-30(LC 10)

Max Uplift 2=-37(LC 12), 4=-41(LC 13), 6=-9(LC 12) Max Grav 2=97(LC 1), 4=97(LC 1), 6=110(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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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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:

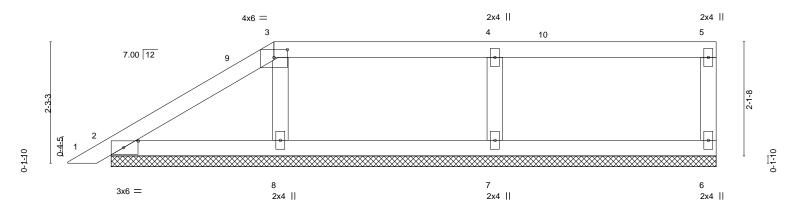
March 10,2023





IC CONST. - ROYSTER RES. Job Truss Truss Type Qty Ply T30017812 3363903 PB04 **GABLE** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:01 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-FqYtbNRrlrdrwofJMn2LuYt?3IhEdpu1ijRPsyzcgQu 3-10-9 3-10-9

Scale = 1:21.5



12-1-8 Plate Offsets (X,Y)--[2:0-3-3,0-1-8], [3:0-3-0,0-1-12] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.18 Vert(LL) -0.00 n/r 120 MT20 244/190 вс Vert(CT) TCDL 7.0 Lumber DOL 1.25 0.13 0.00 n/r 120

TOP CHORD

BOT CHORD

WB 0.05 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 43 lb FT = 20% LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.2

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

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

REACTIONS. All bearings 11-3-5.

Max Horz 2=76(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 8 except 7=-110(LC 8) Max Grav All reactions 250 lb or less at joint(s) 6, 2, 8 except 7=337(LC 1)

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

**WEBS** 4-7=-252/136

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; 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 3-10-9, Exterior(2R) 3-10-9 to 8-0-0, Interior(1) 8-0-0 to 11-11-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) 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) Gable studs spaced at 4-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 8 except
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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

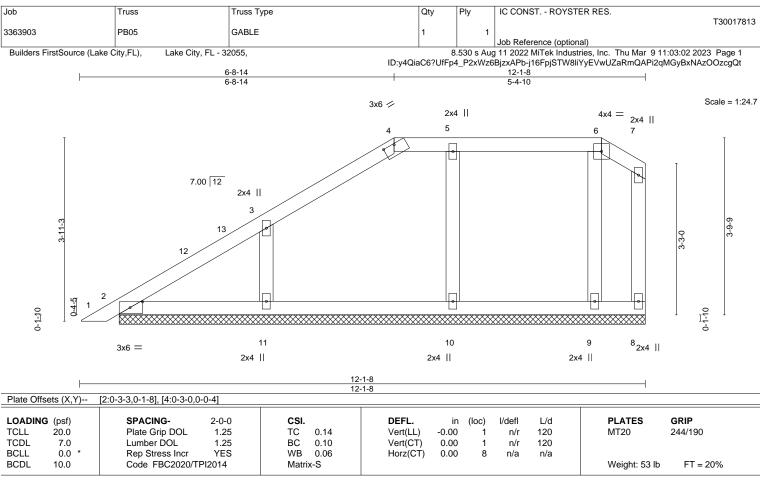
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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

March 10,2023





LUMBER-TOP CHORD

2x4 SP No 2

**BOT CHORD** 2x4 SP No 2 WERS **OTHERS** 

2x4 SP No.3 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, Except:

10-0-0 oc bracing: 8-9.

REACTIONS. All bearings 11-3-5.

Max Horz 2=127(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 8, 10, 9 except 11=-135(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 8, 2, 9 except 11=306(LC 19), 10=289(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=25ft; 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 6-8-14, Exterior(2E) 6-8-14 to 11-11-12 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) Provide adequate drainage to prevent water ponding.
- 6) Gable requires continuous bottom chord bearing
- 7) Gable studs spaced at 4-0-0 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) 8, 10, 9 except (it=lb) 11=135
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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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:

March 10,2023





Job Truss Truss Type Qty Ply IC CONST. - ROYSTER RES. T30017814 3363903 **PB06 GABLE** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:04 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-gPE?DPTk2m?PnGNu2vb2WBVWsVjFq9MUOhf4THzcgQr Scale = 1:32.3 4x4 = 5 2x4 || 3x6 < 7.00 12 6 2x4 || 3 3-2-15 1 0-1-10 3x6 =10 9 8 7 2x4 || 2x4 || 2x4 3x4 =12-1-8 12-1-8 Plate Offsets (X,Y)--[2:0-3-3,0-1-8] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.25 TC 0.15 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.11 Vert(CT) 0.00 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.07 Horz(CT) 0.00 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-S Weight: 63 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, **BOT CHORD** 

2x4 SP No.2

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

BOT CHORD

except end verticals. Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 7-8.

REACTIONS. All bearings 11-3-5.

Max Horz 2=147(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8 except 10=-143(LC 12), 9=-113(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 7, 2, 9, 8 except 10=315(LC 19)

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=25ft; 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 8-11-8, Exterior(2E) 8-11-8 to 11-11-12 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) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 4-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8 except
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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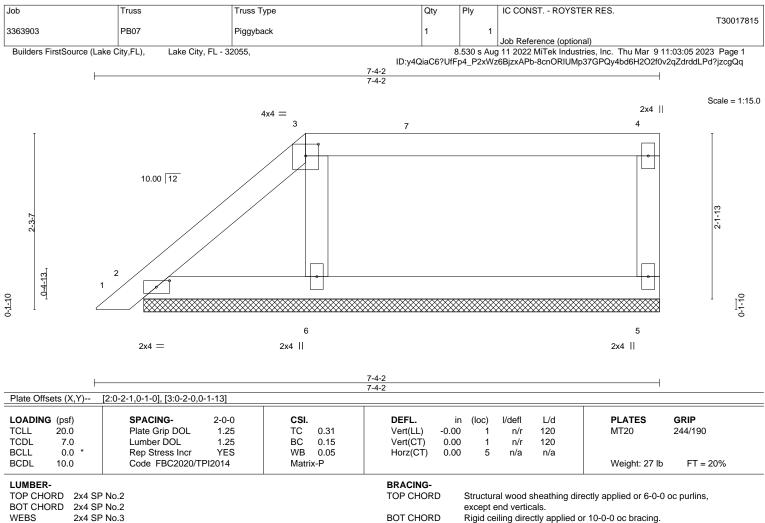
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

March 10,2023









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

Max Horz 2=76(LC 12)

Max Uplift 5=-52(LC 8), 2=-14(LC 12), 6=-60(LC 9) Max Grav 5=155(LC 1), 2=99(LC 1), 6=253(LC 1)

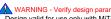
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

#### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; 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) Provide adequate drainage to prevent water ponding.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2, 6.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

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IC CONST. - ROYSTER RES. Job Truss Truss Type Qty Ply T30017816 3363903 T01 Hip Girder Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:07 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-4\_v8sQWcLhN\_ej6Tj19l8p7q8jYv1Liw4fuk3czcgQo

15-7-3

4-3-6

<u>19-11-8</u>

4-4-5

23-3-8

11-3-13

4-4-5

13-5-8

6-11-8 3-4-0

Scale = 1:49.1

1-6-8

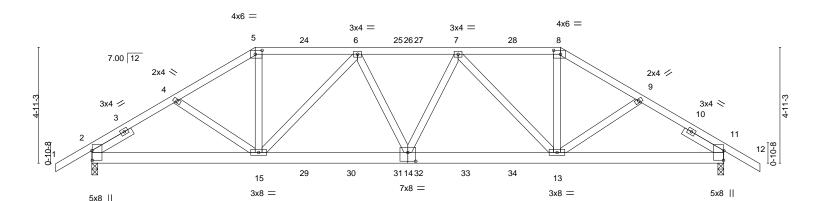
26-11-0

3-7-8

26-11-0

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

Rigid ceiling directly applied or 6-1-5 oc bracing.



		0-11-0		13-3-	-0		19-11-0		1	20-11-0	
		6-11-8	1	6-6-	0		6-6-0		1	6-11-8	
Plate Offs	ets (X,Y)	[2:0-4-15,0-0-3], [5:0-3-8,0	-2-0], [8:0-3-8	3,0-2-0], [11:0	)-4-15,0-0-3], [1	4:0-4-0,0-4-8]					
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	0.98	Vert(LL)	0.17 14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.94	Vert(CT)	-0.28 13-14	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.80	Horz(CT)	0.09 11	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	12014	Matrix	x-MS					Weight: 174 lb	FT = 20%

**BOT CHORD** 

10-11-8

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x6 SP No 2 2x4 SP No.3 WFBS

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

6-11-8

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

Max Horz 2=-117(LC 25)

Max Uplift 2=-853(LC 8), 11=-869(LC 9) Max Grav 2=2040(LC 1), 11=2072(LC 1)

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

TOP CHORD 2-4=-3028/1327, 4-5=-3006/1339, 5-6=-2619/1210, 6-7=-3445/1531, 7-8=-2665/1233,

8-9=-3061/1368 9-11=-3081/1355

BOT CHORD  $2\text{-}15\text{=-}1103/2499,\ 14\text{-}15\text{=-}1447/3328,\ 13\text{-}14\text{=-}1440/3344,\ 11\text{-}13\text{=-}1047/2543}$ **WEBS** 4-15=-216/284, 5-15=-443/1109, 6-15=-1086/550, 6-14=-85/363, 7-14=-54/345,

7-13=-1031/505, 8-13=-412/1070, 9-13=-224/289

### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=853, 11=869,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 132 lb down and 113 lb up at 6-11-8, 132 lb down and 110 lb up at 9-0-4, 132 lb down and 110 lb up at 11-0-4, 132 lb down and 106 lb up at 13-0-4, 132 lb down and 106 lb up at 13-10-12, 132 lb down and 110 lb up at 15-10-12, and 132 lb down and 110 lb up at 17-10-12, and 220 lb down and 209 lb up at 19-11-8 on top chord, and 324 lb down and 211 lb up at 6-11-8, 84 lb down and 29 lb up at 9-0-4, 84 lb down and 29 lb up at 11-0-4, 84 lb down and 29 lb up at 13-0-4, 84 lb down and 29 lb up at 13-10-12, 84 lb down and 29 lb up at 15-10-12, and 84 lb down and 29 lb up at 17-10-12, and 324 lb down and 211 lb up at 19-10-12 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

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:

March 10,2023

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



Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
		l <u>.</u>			T30017816
3363903	T01	Hip Girder	1	1	
					Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:07 2023 Page 2 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-4\_v8sQWcLhN\_ej6Tj19l8p7q8jYv1Liw4fuk3czcgQo

#### LOAD CASE(S) Standard

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

Vert: 1-5=-54, 5-8=-54, 8-12=-54, 16-20=-20

Concentrated Loads (lb)

Vert: 5=-107(F) 8=-173(F) 15=-321(F) 6=-107(F) 7=-107(F) 13=-321(F) 24=-107(F) 25=-107(F) 27=-107(F) 28=-107(F) 29=-65(F) 30=-65(F) 31=-65(F) 32=-65(F) 33=-65(F) 34=-65(F)

Job Truss Truss Type Qty Ply IC CONST. - ROYSTER RES. T30017817 3363903 T02 Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:09 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-0N1uH6XstIdiu1GrqSBDDECGYWGqVNqDYzNq8UzcgQm

17-11-8

4-6-0

22-4-2

4-4-10

Structural wood sheathing directly applied or 3-11-13 oc purlins.

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

13-5-8

4-6-0

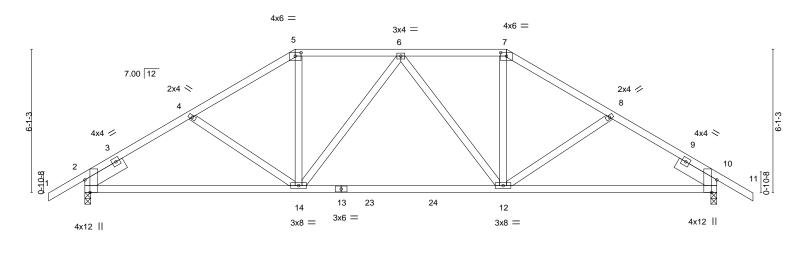
Scale = 1:49.1

28-5-8

1-6-8

26-11-0

4-6-14



1	8-11-8	17-11-8	26-11-0	
	8-11-8	9-0-0	8-11-8	
Plate Offsets (X,Y)	[2:0-6-7,Edge], [5:0-3-0,0-1-12], [7:0-3-0,0-1	I-12], [10:0-6-7,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 0.53	Vert(LL) -0.22 12-14 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.79	Vert(CT) -0.35 12-14 >930 180	
BCLL 0.0 *	* Rep Stress Incr YES	WB 0.24	Horz(CT) 0.06 10 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 152 lb FT = 20%
TCDL 7.0 BCLL 0.0 *	Lumber DOL 1.25 * Rep Stress Incr YES	BC 0.79 WB 0.24	Vert(CT) -0.35 12-14 >930 180	

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

WFBS

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

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 2=0-3-0, 10=0-3-0 Max Horz 2=-144(LC 10)

4-6-14

4-6-14

1-6-8

8-11-8

4-4-10

Max Uplift 2=-273(LC 12), 10=-273(LC 13) Max Grav 2=1151(LC 2), 10=1151(LC 2)

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

TOP CHORD 2-4=-1495/359, 4-5=-1379/315, 5-6=-1173/312, 6-7=-1173/312, 7-8=-1379/315,

8-10=-1495/359

2-14=-310/1253, 12-14=-201/1250, 10-12=-213/1233 BOT CHORD

**WEBS** 5-14=-71/473, 7-12=-71/473

#### NOTES-

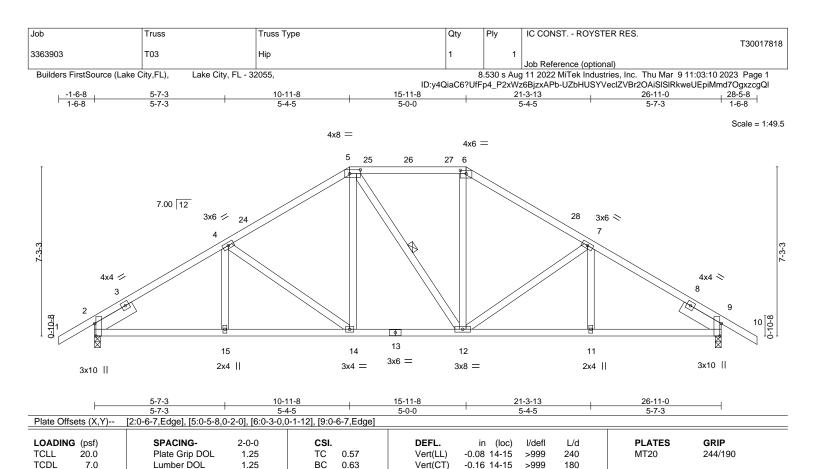
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 8-11-8, Exterior(2R) 8-11-8 to 13-5-8, Interior(1) 13-5-8 to 17-11-8, Exterior(2R) 17-11-8 to 22-5-12, Interior(1) 22-5-12 to 28-5-8 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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=273, 10=273.

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:

March 10,2023





Horz(CT)

**BRACING-**

TOP CHORD

**BOT CHORD** 

WFBS

0.06

n/a

1 Row at midpt

n/a

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

Structural wood sheathing directly applied or 3-10-5 oc purlins.

5-12

Weight: 161 lb

FT = 20%

LUMBER-

**BCLL** 

BCDL

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

0.0

10.0

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 2=0-3-0, 9=0-3-0 Max Horz 2=-172(LC 10)

Max Uplift 2=-268(LC 12), 9=-268(LC 13) Max Grav 2=1079(LC 1), 9=1079(LC 1)

Rep Stress Incr

Code FBC2020/TPI2014

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

TOP CHORD 2-4=-1404/334, 4-5=-1154/298, 5-6=-940/301, 6-7=-1154/298, 7-9=-1404/334

BOT CHORD 2-15=-301/1148, 14-15=-301/1148, 12-14=-154/939, 11-12=-186/1148, 9-11=-186/1148

YES

**WEBS** 4-14=-318/181, 5-14=-73/322, 6-12=-65/322, 7-12=-318/181

# 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 10-11-8, Exterior(2R) 10-11-8 to 15-2-7, Interior(1) 15-2-7 to 15-11-8, Exterior(2R) 15-11-8 to 20-2-7, Interior(1) 20-2-7 to 28-5-8 zone; end vertical left and right exposed:C-C for members and forces & MWFRS for reactions shown: Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MS

0.27

- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=268, 9=268.

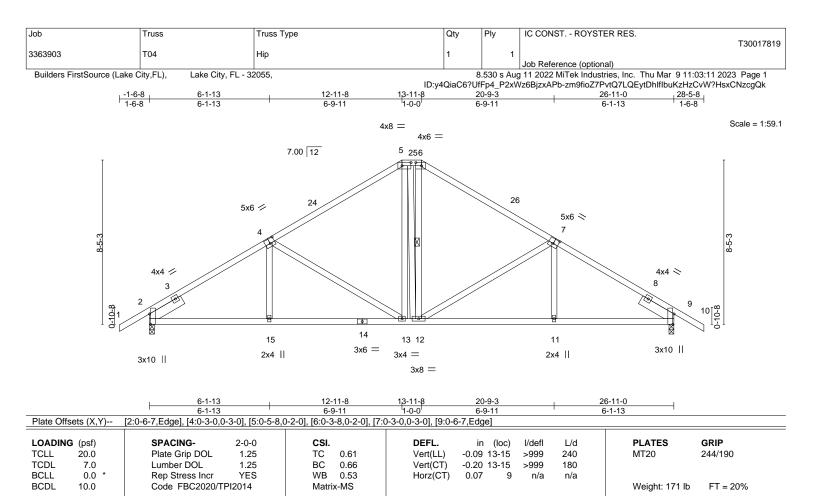
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March 10,2023







BRACING-

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS.

(size) 2=0-3-0, 9=0-3-0 Max Horz 2=-199(LC 10)

Max Uplift 2=-263(LC 12), 9=-263(LC 13) Max Grav 2=1079(LC 1), 9=1079(LC 1)

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

TOP CHORD 2-4=-1414/328, 4-5=-1063/284, 5-6=-843/283, 6-7=-1066/284, 7-9=-1412/328

**BOT CHORD** 2-15=-313/1164, 13-15=-312/1165, 12-13=-112/840, 11-12=-178/1159, 9-11=-178/1158

**WEBS** 4-13=-425/234, 5-13=-75/274, 6-12=-125/353, 7-12=-421/233

# 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 12-11-8, Exterior(2E) 12-11-8 to 13-11-8, Exterior(2R) 13-11-8 to 18-2-7, Interior(1) 18-2-7 to 28-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=263, 9=263.

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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:

March 10,2023

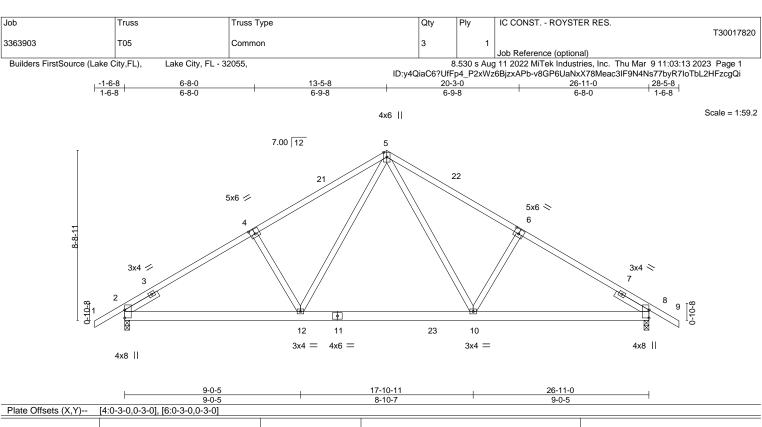


Structural wood sheathing directly applied or 3-8-11 oc purlins.

5-12

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

1 Row at midpt



LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 ТС 0.94 Vert(LL) -0.22 10-12 >999 240 MT20 244/190 TCDL Vert(CT) 7.0 Lumber DOL 1.25 BC 0.90 -0.40 10-12 >813 180 WB **BCLL** 0.0 Rep Stress Incr 0.47 Horz(CT) 0.05 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 162 lb FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

Structural wood sheathing directly applied.

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

LUMBER-

WFBS

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

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

REACTIONS.

(size) 2=0-3-0, 8=0-3-0 Max Horz 2=-205(LC 10)

Max Uplift 2=-343(LC 12), 8=-343(LC 13) Max Grav 2=1495(LC 19), 8=1494(LC 20)

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

TOP CHORD 2-4=-2120/489, 4-5=-2013/524, 5-6=-2011/524, 6-8=-2119/489

**BOT CHORD** 2-12=-446/1906, 10-12=-200/1293, 8-10=-307/1751

**WEBS** 5-10=-276/994, 6-10=-299/240, 5-12=-276/997, 4-12=-298/240

#### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 13-5-8, Exterior(2R) 13-5-8 to 16-5-8, Interior(1) 16-5-8 to 28-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 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) 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, 5-9=-54, 12-13=-20, 10-12=-80(F=-60), 10-17=-20

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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





13-5-8

6-9-8

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:14 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-NKqnKqb?hqF?\_o8pd0nOwlw8lX0pAY5yhF5bpizcgQh 20-3-0 26-11-0 1-4-0

6-8-0 1-6-8

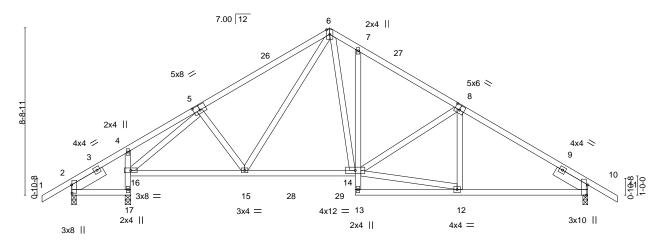
Scale = 1:60.1 4x6 ||

Structural wood sheathing directly applied or 4-3-4 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 2-17

5-1-6 oc bracing: 16-17.



	2-11-4 3-1-0	9-0-5	14-9-8	20-3-0	26-11-0	
	2-11-4 0-1-12	5-11-5	5-9-3	5-5-8	6-8-0	
Plate Offsets (X,Y)	[2:0-5-3.0-0-3], [5:0-4-0.0-3	3-01. [8:0-3-0.0-3-0	)], [10:0-6-7.Edge]			

**BRACING-**

TOP CHORD

**BOT CHORD** 

1 late on	0010 (71, 1)	[2.0 0 0,0 0 0], [0.0 1 0,0 0 0]	, [0.0 0 0,0	<i>y</i> 0 0], [10.0	o r, Lagoj						
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	0.50	Vert(LL)	-0.09 14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1	.25	ВС	0.61	Vert(CT)	-0.15 14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr Y	ES	WB	0.63	Horz(CT)	0.05 10	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI201	14	Matri	ix-MS					Weight: 174 lb	FT = 20%

LUMBER-TOP CHORD 2x4 SP No.2

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

4-17,7-13: 2x4 SP No.3

**WEBS** 2x4 SP No.3

**SLIDER** Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS. (size) 2=0-3-0, 17=0-3-8, 10=0-3-0

Max Horz 2=-205(LC 10)

Max Uplift 2=-125(LC 13), 17=-280(LC 12), 10=-256(LC 13) Max Grav 2=217(LC 20), 17=1258(LC 19), 10=1100(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 5-6=-1153/305, 6-7=-1108/343, 7-8=-1131/277, 8-10=-1367/308 TOP CHORD

BOT CHORD 16-17=-1197/273, 15-16=-216/1009, 14-15=-64/846, 10-12=-151/1098 WEBS 5-16=-1344/283, 6-15=-110/305, 6-14=-229/755, 12-14=-153/1091, 8-14=-276/183

## 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 13-5-8, Exterior(2R) 13-5-8 to 16-5-8, Interior(1) 16-5-8 to 28-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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, 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=125, 17=280, 10=256.

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:

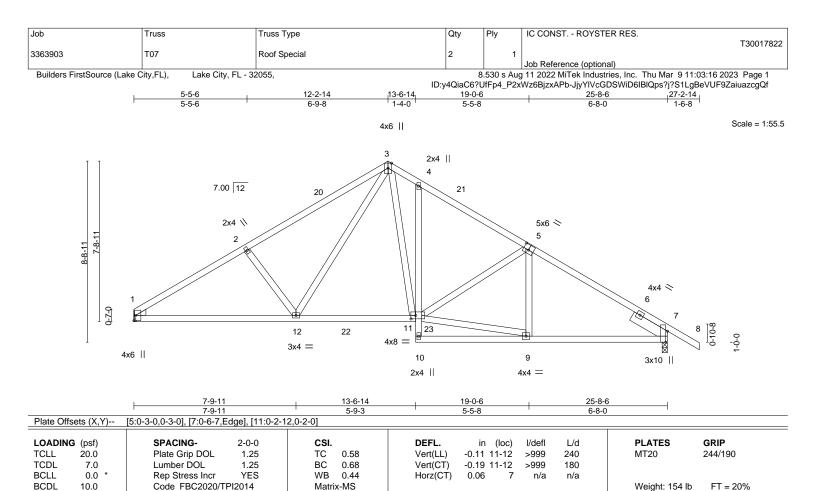
March 10,2023

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**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

**WEBS** 

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

4-10: 2x4 SP No.3 2x4 SP No.3

WEDGE

Left: 2x4 SP No.3

**SLIDER** Right 2x6 SP No.2 1-11-8

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

Max Horz 1=-196(LC 8)

Max Uplift 7=-261(LC 13), 1=-213(LC 12) Max Grav 7=1169(LC 20), 1=1082(LC 19)

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

TOP CHORD  $1\hbox{-}2\hbox{--}1633/346, 2\hbox{-}3\hbox{--}1496/352, 3\hbox{-}4\hbox{--}1255/352, 4\hbox{-}5\hbox{--}1276/301, 5\hbox{-}7\hbox{--}1484/316}$ 

**BOT CHORD** 1-12=-321/1502, 11-12=-96/997, 7-9=-160/1197

**WEBS** 3-12=-171/613, 9-11=-162/1185, 3-11=-230/761, 2-12=-326/235

### 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=25ft; 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 12-2-14, Exterior(2R) 12-2-14 to 15-2-14, Interior(1) 15-2-14 to 27-2-14 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=261, 1=213,

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Structural wood sheathing directly applied or 3-9-14 oc purlins.

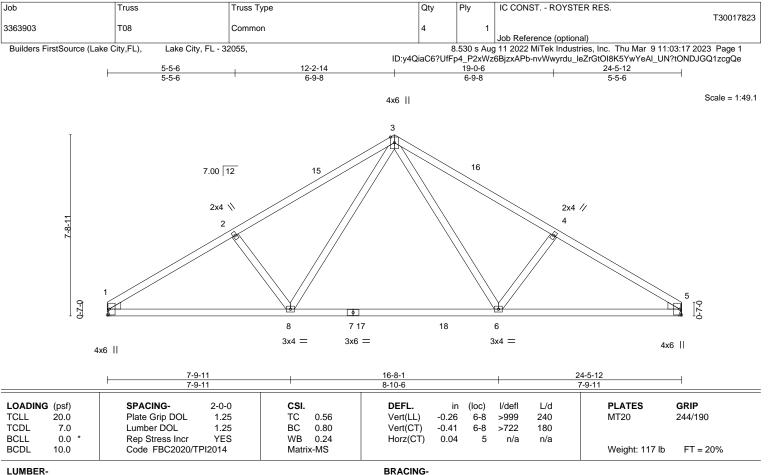
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

March 10,2023







TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS.

(size) 1=Mechanical, 5=Mechanical

Max Horz 1=-168(LC 8)

Max Uplift 1=-207(LC 12), 5=-207(LC 13) Max Grav 1=1046(LC 19), 5=1046(LC 20)

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

TOP CHORD 1-2=-1586/333, 2-3=-1449/340, 3-4=-1449/340, 4-5=-1586/333

1-8=-339/1442, 6-8=-115/903, 5-6=-226/1317 BOT CHORD

**WEBS** 3-6=-166/687, 4-6=-320/238, 3-8=-166/687, 2-8=-320/238

### 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=25ft; 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 12-2-14, Exterior(2R) 12-2-14 to 15-2-14, Interior(1) 15-2-14 to 24-5-12 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.
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=207, 5=207.

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Structural wood sheathing directly applied or 3-10-8 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:

March 10,2023



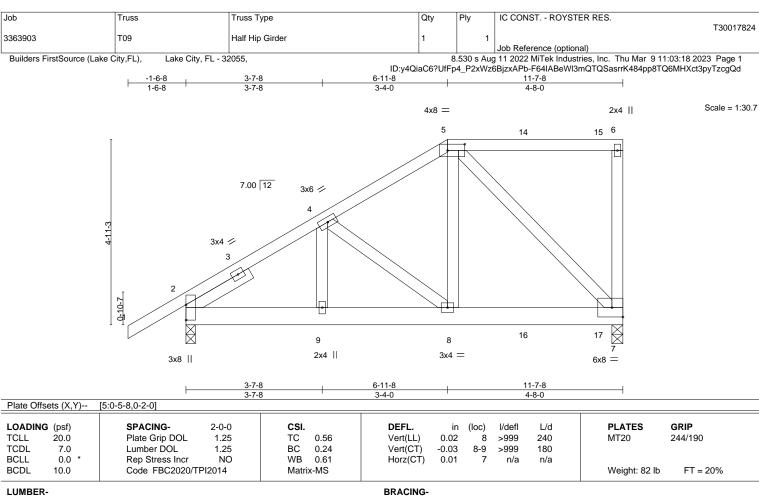
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16023 Swingley Ridge Rd Chesterfield, MO 63017



TOP CHORD

BOT CHORD

WERS

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

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

REACTIONS.

(size) 2=0-3-0, 7=0-3-8 Max Horz 2=178(LC 27) Max Uplift 2=-253(LC 8), 7=-465(LC 8)

Max Grav 2=723(LC 1), 7=1002(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-805/301, 4-5=-714/305, 6-7=-279/177

2-9=-355/665, 8-9=-355/665, 7-8=-302/611 BOT CHORD

**WEBS** 5-8=-202/602, 5-7=-835/414

### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=253, 7=465.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 132 lb down and 113 lb up at 6-11-8, and 132 lb down and 104 lb up at 9-0-4, and 135 lb down and 109 lb up at 11-0-4 on top chord, and 324 lb down and 211 lb up at 6-11-8, and 84 lb down and 29 lb up at 9-0-4, and 94 lb down and 24 lb up at 11-0-4 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: 1-5=-54, 5-6=-54, 7-10=-20

Vert: 5=-107(B) 8=-321(B) 14=-107(B) 15=-122(B) 16=-65(B) 17=-70(B)

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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.

except end verticals.

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

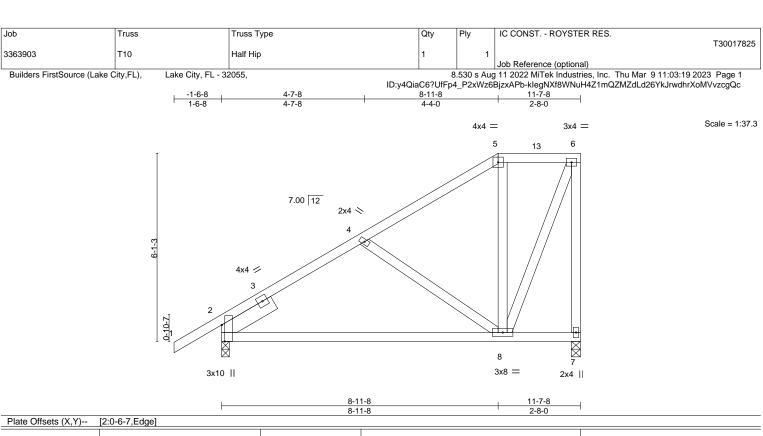
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T IGIO OII	3013 (7, 1)	[2.0 0 7,Euge]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC 0.27	Vert(LL) -0.11 8-11 >999 240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.52	Vert(CT) -0.22 8-11 >635 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT) 0.02 2 n/a n/a	
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 77 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WFBS SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 7=0-3-8, 2=0-3-0 Max Horz 2=221(LC 12)

Max Uplift 7=-160(LC 12), 2=-111(LC 12)

Max Grav 7=419(LC 1), 2=514(LC 1)

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

TOP CHORD 2-4=-629/87, 4-5=-253/30, 6-7=-437/169

**BOT CHORD** 2-8=-210/374

**WEBS** 4-8=-269/180, 6-8=-157/412

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 8-11-8, Exterior(2E) 8-11-8 to 11-5-12 zone; end vertical left exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=160, 2=111.

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

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

except end verticals.

Chesterfield, MO 63017

IC CONST. - ROYSTER RES. Job Truss Truss Type Qty Ply T30017826 3363903 T11 Half Hip Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:20 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-CUB3atgmHg08ijcz\_Gto9ZAC3y8vaJ1q4AYw1LzcgQb -1-6-8 5-10-0 . 10-11-8 11-7-8 0-8-0 1-6-8 5-10-0 5-1-8 Scale = 1:44.8 2x4 = 5 12 7.00 12 3x6 // 4x4 // 7 3x4 = 2x4 || 3x8 II 5-10-0

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

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	0.32	Vert(LL)	-0.03	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.31	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.40	Horz(CT)	-0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 70 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS.

(size) 2=0-3-0, 6=0-3-8 Max Horz 2=274(LC 12)

Max Uplift 2=-82(LC 12), 6=-209(LC 12) Max Grav 2=514(LC 1), 6=442(LC 19)

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

TOP CHORD 2-4=-350/19

**BOT CHORD** 2-7=-194/380, 6-7=-194/380

**WEBS** 4-6=-454/233

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 11-5-12 zone; end vertical left exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=209

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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

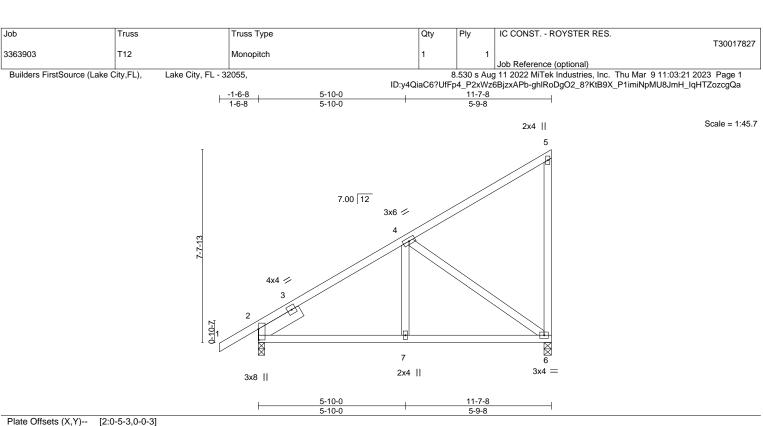


Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

16023 Swingley Ridge Rd Chesterfield, MO 63017



	0010 (71, 17	[2.0 0 0,0 0 0]							
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. ir	n (loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.25	TC 0.32	Vert(LL) -0.03	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.31	Vert(CT) -0.06	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) -0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS					Weight: 70 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-8

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

Max Horz 2=274(LC 12) Max Uplift 2=-82(LC 12), 6=-209(LC 12)

Max Grav 2=514(LC 1), 6=442(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-350/25

**BOT CHORD** 2-7=-210/380, 6-7=-210/380

**WEBS** 4-6=-454/253

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 11-5-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
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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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6=209.

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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.

except end verticals.

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

March 10,2023





Job Truss Truss Type Qty Ply IC CONST. - ROYSTER RES. T30017828 3363903 T13 Monopitch Girder 2 Job Reference (optional)

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:22 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-8tJp?Zh0pIGsx1mL5hwGF\_FaMmso2Ag7XU115EzcgQZ

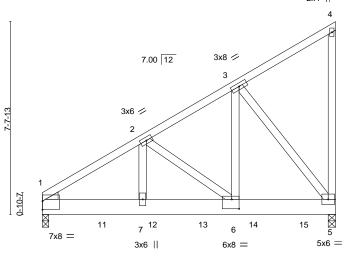
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

3-11-11 3-8-3

> Scale = 1:45.7 2x4 ||



7-7-13 3-11-11 3-11-11 3-8-3

Plate Off	sets (X,Y)	[1:0-0-0,0-4-1], [6:0-3-8,0	-4-8]									
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	0.21	Vert(LL)	-0.03	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.06	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.59	Horz(CT)	0.01	5	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	, ,					Weight: 183 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x8 SP 2400F 2.0E

2x4 SP No.3 WFBS

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 1=0-3-0, 5=0-3-8

Max Horz 1=246(LC 23)

Max Uplift 1=-742(LC 8), 5=-800(LC 8) Max Grav 1=3590(LC 2), 5=3092(LC 2)

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

1-2=-3490/699, 2-3=-2082/397 TOP CHORD

BOT CHORD 1-7=-795/2957, 6-7=-795/2957, 5-6=-460/1781

WEBS 2-7=-304/1462, 2-6=-1461/417, 3-6=-675/3085, 3-5=-2869/739

### 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 0-9-0 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) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=742, 5=800.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1021 lb down and 226 lb up at  $0\text{-}4\text{-}4\text{, }1015\text{ lb down and }233\text{ lb up at }2\text{-}4\text{-}4\text{, }978\text{ lb down and }227\text{ lb up at }4\text{-}4\text{-}4\text{, }978\text{ lb down and }227\text{ lb up at }6\text{-}4\text{-}4\text{, }and 978\text{ lb }27\text{ lb up at }4\text{-}4\text{-}4\text{, }978\text{ lb down and }227\text{ lb up at }6\text{-}4\text{-}4\text{, }and 978\text{ lb }27\text{ lb up at }4\text{-}4\text{-}4\text{, }978\text{ lb down and }227\text{ lb up at }6\text{-}4\text{-}4\text{, }and 978\text{ lb }27\text{ lb }27\text{ lb up at }27\text{ lb u$ down and 227 lb up at 8-4-4, and 978 lb down and 227 lb up at 10-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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:

March 10,2023

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 chore 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



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
					T30017828
3363903	T13	Monopitch Girder	1	2	Job Reference (optional)

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:23 2023 Page 2 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-c3tBDvifabOjZBKXfORVnBol69B1ndwHm8maegzcgQY

### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-4=-54, 5-8=-20

Concentrated Loads (lb) Vert: 10=-935(F) 11=-928(F) 12=-886(F) 13=-886(F) 14=-886(F) 15=-886(F)



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
					T30017829
3363903	T14	Roof Special	1	1	
					Job Reference (optional)

Lake City, FL - 32055,

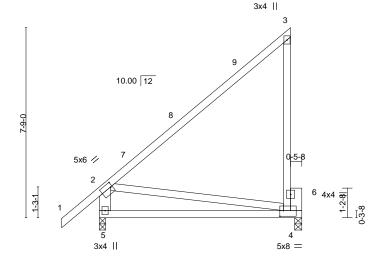
8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:23 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-c3tBDvifabOjZBKXfORVnBoer95NngTHm8maegzcgQY

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

Rigid ceiling directly applied or 7-3-12 oc bracing.

except end verticals.

Scale = 1:47.0



8-3-0
8-3-0

Plate Offsets (X,Y) [2:0-0-12,0-2-4], [4:0-1-12,0-2-12]												
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	-0.11	4-5	>837	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.51	Vert(CT)	-0.22	4-5	>419	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(CT)	-0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MS						Weight: 56 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 \*Except\* WFBS 2-5: 2x6 SP No.2

**OTHERS** 2x6 SP No.2

REACTIONS.

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

Max Horz 5=244(LC 12) Max Uplift 5=-15(LC 12), 4=-171(LC 12)

Max Grav 5=389(LC 1), 4=296(LC 19)

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

TOP CHORD 2-5=-312/104 **BOT CHORD** 4-5=-645/424 WEBS 2-4=-406/630

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 7-7-12 zone; end vertical left exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 4=171.

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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:

March 10,2023





Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
					T30017830
3363903	T14G	Monopitch Supported Gable	1	1	
					Inh Reference (ontional)

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:24 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-4GRZQEjHLvWaBLvkD6ykKPKtuZZ0WCWQ?oW7A7zcgQX

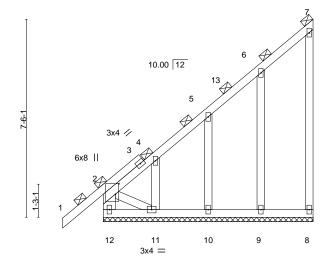
2-0-0 oc purlins (6-0-0 max.), except end verticals.

6-0-0 oc bracing: 11-12.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

-1-6-8 7-11-8 7-11-8 1-6-8

Scale = 1:43.7



7-11-8
7-11-8

**BOT CHORD** 

Plate Off	sets (X,Y)											
LOADIN	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	0.33	Vert(LL)	0.01	` <u>í</u>	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S						Weight: 64 lb	FT = 20%

LUMBER-**BRACING-**TOP CHORD

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

2x4 SP No.3 \*Except\* 2-12: 2x6 SP No.2 **OTHERS** 2x4 SP No.3

REACTIONS. All bearings 7-11-8. Max Horz 12=254(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12, 8, 10, 9 except 11=-171(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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

TOP CHORD 2-12=-311/183, 2-4=-425/213, 4-5=-345/157

BOT CHORD 11-12=-351/157 WEBS 2-11=-177/396

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-6-8 to 1-5-8, Exterior(2N) 1-5-8 to 7-9-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) 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) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) 12, 8, 10, 9 except (it=lb) 11=171.
- 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:

March 10,2023

Job Truss Truss Type Qty Ply IC CONST. - ROYSTER RES. T30017831 3363903 T15 Roof Special Girder 2 Job Reference (optional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:26 2023 Page 1

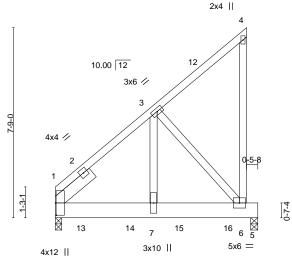
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-0eZKrwkXtWmlQe36KX\_CPqPHgNC3\_0zjS6?EE?zcgQV 4-0-0 7-9-8 3-9-8 4-0-0

Scale = 1:47.0



4-0-0	7-9-8	8-3-0
4-0-0	3-9-8	0-5-8

T late Oil	13013 (71, 1)	[1.0 0 0,0 0 0]										
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	0.12	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.19	Vert(CT)	-0.03	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.44	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code FBC2020/TPI20	014	Matri	x-MS						Weight: 137 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No 3 WFBS

Plate Offsets (X Y)-- [1:0-6-0 0-0-5]

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 1=0-3-0, 5=0-3-8

Max Horz 1=218(LC 23) Max Uplift 1=-414(LC 8), 5=-586(LC 8)

Max Grav 1=2230(LC 2), 5=2181(LC 2)

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

TOP CHORD 1-3=-1681/305

BOT CHORD 1-7=-379/1252, 6-7=-379/1252 **WEBS** 3-7=-532/2307, 3-6=-1868/565

### 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 0-9-0 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) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=414, 5=586.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 978 lb down and 227 lb up at 1-0-4, 978 lb down and 227 lb up at 3-0-4, and 978 lb down and 227 lb up at 5-0-4, and 978 lb down and 227 lb up at 7-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Vert: 1-4=-54, 5-8=-20

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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:

March 10,2023

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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



Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
		5 (0 ) (0)			T30017831
3363903	T15	Roof Special Girder	1	2	Job Reference (optional)

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:26 2023 Page 2 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-0eZKrwkXtWmlQe36KX\_CPqPHgNC3\_0zjS6?EE?zcgQV

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 13=-886(B) 14=-886(B) 15=-886(B) 16=-886(B)

16023 Swingley Ridge Rd Chesterfield, MO 63017



IC CONST. - ROYSTER RES. Job Truss Truss Type Qty Ply T30017832 3363903 T16 8 Monopitch Job Reference (optional)

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:27 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-Vr6i2Gl9equ92oeJuEVRx1yPnnXRjS6shmknnRzcgQU 17-11-8

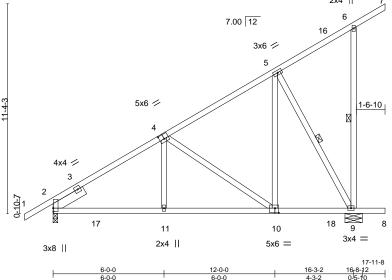
> Scale = 1:62.3 2x4 ||

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

5-9 6-9

Rigid ceiling directly applied or 7-3-14 oc bracing.

1 Row at midpt



Figit Offsets (A. f.) 12.0-2-4.0-0-31. 14.0-3-0.0-3-01. 110.0-2-0.0-3-01	Plate Offsets (X,Y)	[2:0-2-4,0-0-3], [4:0-3-0,0-3-0], [10:0-2-8,0-3-0]
--	---------------------	--

LOADING	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 0.29	Vert(LL) 0.05 10-11 >999 240	MT20 244/190
TCDL	7.0	Lumber DOL 1.25	BC 0.31	Vert(CT) -0.07 10-11 >999 180	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.51	Horz(CT) 0.01 9 n/a n/a	
BCDL	10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 119 lb FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

WFBS

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 2=0-3-0, 9=0-11-4

Max Horz 2=407(LC 12)

Max Uplift 2=-83(LC 12), 9=-344(LC 12) Max Grav 2=682(LC 1), 9=730(LC 1)

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

TOP CHORD 2-4=-736/437, 4-5=-386/153

**BOT CHORD** 2-11=-616/588, 10-11=-620/589, 9-10=-267/263

**WEBS** 4-11=-252/233, 4-10=-392/423, 5-10=-468/374, 5-9=-535/544

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 17-11-8 zone; end vertical left exposed; porch left exposed; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 9=344.

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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:

March 10,2023

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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





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Structural wood sheathing directly applied or 5-7-8 oc purlins,

7-10. 8-18

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 11-12.

1 Row at midpt

1-6-8 1-6-8 16-11-8 24-7-8

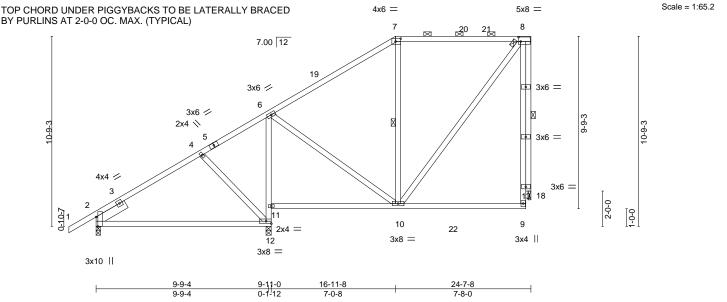


Plate Off	fsets (X,Y)	[2:0-6-7,Edge], [7:0-3-8,0	)-2-0], [8:0-1-8	,0-3-0]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.65	Vert(LL)	-0.19 12-16	>618	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(CT)	-0.39 12-16	>303	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.04 2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-	MS					Weight: 171 lb	FT = 20%

TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-**BRACING-**

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

6-12: 2x4 SP No.3 2x4 SP No 3

**WEBS** OTHERS 2x4 SP No 3

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 2=0-3-0, 12=0-3-8, 18=0-2-0

Max Horz 2=392(LC 12)

Max Uplift 2=-16(LC 12), 12=-344(LC 12), 18=-159(LC 12) Max Grav 2=579(LC 19), 12=898(LC 19), 18=667(LC 2)

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

TOP CHORD 2-4=-791/0, 4-6=-314/0, 6-7=-452/52, 7-8=-316/101

**BOT CHORD** 2-12=-208/419, 11-12=-537/231, 6-11=-474/252, 10-11=-105/256

4-12=-286/177, 8-10=-154/467, 8-18=-668/159 WEBS

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 16-11-8, Exterior(2R) 16-11-8 to 21-2-7, Interior(1) 21-2-7 to 24-2-4 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 18 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 at joint(s) 18.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 12=344, 18=159.

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:

March 10,2023

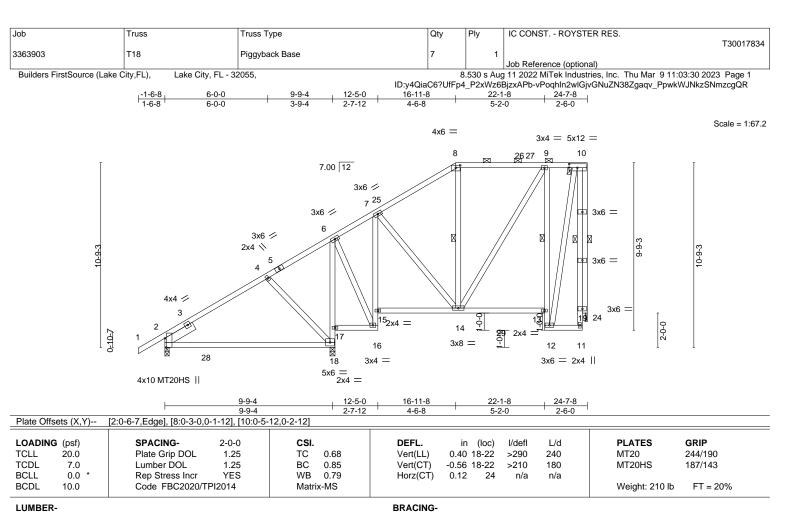
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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16023 Swingley Ridge Rd Chesterfield, MO 63017



TOP CHORD

BOT CHORD

WEBS

1 Row at midpt

1 Row at midpt

LUMBER-

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

2x4 SP No.2 \*Except\* 9-12: 2x4 SP No.3

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

**SLIDER** Left 2x6 SP No.2 1-11-8

REACTIONS.

(size) 2=0-3-0, 18=0-3-8, 24=0-1-8

Max Horz 2=392(LC 12)

Max Uplift 2=-36(LC 9), 18=-426(LC 12), 24=-146(LC 9) Max Grav 2=426(LC 2), 18=1077(LC 19), 24=560(LC 2)

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

2-4=-993/859, 7-8=-358/51, 8-9=-263/81 TOP CHORD BOT CHORD

12-13=-447/146, 9-13=-402/169

**WEBS**  $4-18 = -339/218,\ 17-18 = -744/285,\ 6-17 = -700/292,\ 10-12 = -161/562,\ 15-16 = -425/173,$ 

7-15=-365/184, 6-16=-183/520, 10-24=-561/146

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 16-11-8, Exterior(2R) 16-11-8 to 21-2-7, Interior(1) 21-2-7 to 24-2-4 zone; end vertical left exposed; porch left exposed; 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) All plates are MT20 plates unless otherwise indicated.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* 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) 24 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 at joint(s) 24.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb)
- 10) 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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Structural wood sheathing directly applied or 3-11-15 oc purlins,

10-19, 8-14, 10-24

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-10.

9-13

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

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

March 10,2023

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Chesterfield, MO 63017

Job Truss Truss Type Qty Ply IC CONST. - ROYSTER RES. T30017835 3363903 T19 Piggyback Base Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:32 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-rowb6zpISMXR8ZWGhn5ce5fBno4oOj3bq2SYSfzcgQP 6-0-0 12-0-0 16-11-8 21-11-8 26-11-0 32-11-0 38-11-0 6-0-0 6-0-0 4-11-8 5-0-0 4-11-8 6-0-0 6-0-0 1-6-8 Scale = 1:72.2 5x6 = 5x8 = 31\_\_\_ 7.00 12 3x4 // 3x4 ≥ 9 32 6 3x6 / 3x6 < 10 2x4 📏 2x4 // 4x4 🖊 <sub>29</sub> 4x4 < 33 12 94 **⊠** 15 37 16 38 20 34 19 35 36 3x10 || 3x4 =3x6 =3x6 =3x4 =3x4 = 3x8 = 4x12 || 16-11-8 21-11-8 29-1-8 38-11-0 9-9-4 0-0-4 9-9-4 7-2-0 Plate Offsets (X,Y)--[2:0-6-7,Edge], [7:0-3-0,0-1-12], [8:0-6-0,0-2-4], [13:0-6-7,Edge] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.60 Vert(LL) -0.15 15-27 >783 240 MT20 244/190 TCDL 1.25 Vert(CT) 7.0 Lumber DOL BC 0.94 -0.31 15-27 >381 180 WB **BCLL** 0.0 Rep Stress Incr YES 0.46 Horz(CT) 0.04 15 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 250 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 3-7-0 oc purlins, except **BOT CHORD** 2x4 SP No 2 2-0-0 oc purlins (6-0-0 max.): 7-8.

BOT CHORD

WEBS

2x4 SP No 3 WERS

SLIDER Left 2x6 SP No.2 1-11-8, Right 2x6 SP No.2 1-11-8

REACTIONS. 2=0-3-0, 15=0-3-8, 13=0-3-0

Max Horz 2=-254(LC 10)

Max Uplift 2=-295(LC 12), 15=-309(LC 13), 13=-140(LC 13) Max Grav 2=1312(LC 19), 15=1644(LC 2), 13=527(LC 20)

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

TOP CHORD 2-4=-1703/392, 4-6=-1542/368, 6-7=-1023/308, 7-8=-830/302, 8-9=-805/261,

11-13=-692/124

BOT CHORD  $2-20 = -399/1584, \ 18-20 = -236/1275, \ 17-18 = -52/676, \ 15-17 = 0/354, \ 13-15 = -5/280$ **WEBS** 6-20=-87/512, 6-18=-672/277, 7-18=-72/327, 8-18=-185/541, 8-17=-323/149,

9-17=-143/608, 9-15=-1124/282, 11-15=-355/220

### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 2-4-3, Interior(1) 2-4-3 to 16-11-8, Exterior(2E) 16-11-8 to 21-11-8, Exterior(2R) 21-11-8 to 27-5-9, Interior(1) 27-5-9 to 40-5-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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=295, 15=309, 13=140.

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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Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

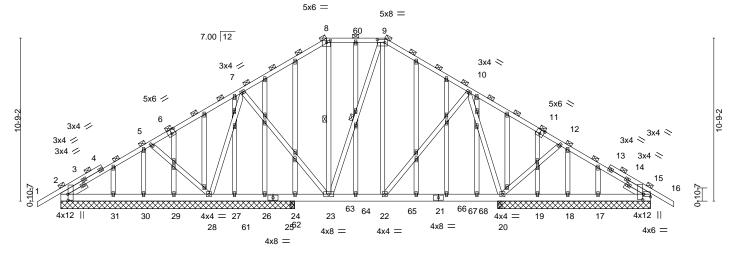
6-18, 8-17, 9-15

2-2-0 oc bracing: 2-20.

1 Row at midpt

ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-kZ96xLsoWb1tdBq1wdAYpxqwRPagKQ4BlgQmbQzcgQL 12-0-0 17-6-7 21-4-9 26-11-0 32-11-0 6-0-0 6-0-0 5-6-7 5-6-7 6-0-0 6-0-0

Scale = 1:76.0



	9-9-4	5-4-4 2-4-15	3-10-2	7-8-15	0-0-4	9-9-4	
Plate Offsets (X,Y)	[2:0-4-12,0-0-4], [6:0-3-0,0-3-0], [8:0-3-0	),0-1-12], [9:0-6-0,0-2-4], [	[11:0-3-0,0-3-0], [15:0-4-4	,0-0-12], [15:Ed	ge,0-2-0]		
LOADING (psf)	SPACING- 2-0-0	CSI.	<b>DEFL</b> . in	(loc) I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.43	Vert(LL) -0.04	20-22 >999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.37	Vert(CT) -0.08	20-22 >999	180		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.91	Horz(CT) 0.01	15 n/a	n/a		
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS				Weight: 407 lb	FT = 20%

21-4-9

17-6-7

LUMBER-

TOP CHORD 2x4 SP No 2

BOT CHORD 2x6 SP No 2 2x4 SP No.3 WFBS

**OTHERS** 2x4 SP No.3

SLIDER Left 2x4 SP No.3 1-4-11, Right 2x4 SP No.3 1-4-11 **BRACING-**

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

29-1-8

29-1-12

38-11-0

Rigid ceiling directly applied or 10-0-0 oc bracing. WFBS 1 Row at midpt 8-23 9-23

REACTIONS. All bearings 15-5-0 except (jt=length) 20=10-1-0, 20=10-1-0, 15=10-1-0, 19=10-1-0, 18=10-1-0, 17=10-1-0, 24=0-3-8, 24=0-3-8.

(lb) -Max Horz 2=254(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 26, 27, 30, 31, 18, 17, 24 except 28=-408(LC 8), 20=-486(LC

9), 15=-111(LC 28), 19=-154(LC 22)

9-9-4

Max Grav All reactions 250 lb or less at joint(s) 26, 27, 29, 30, 31, 19, 18, 17, 24 except 2=382(LC 19),

28=940(LC 1), 20=1439(LC 34), 20=1358(LC 1), 15=358(LC 20), 24=268(LC 2)

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

TOP CHORD 2-5=-309/103, 7-8=-469/254, 8-9=-329/240, 9-10=-531/264, 12-15=-267/74

**BOT CHORD** 2-31=-140/277, 30-31=-140/276, 29-30=-140/276, 28-29=-140/276, 27-28=-123/279,

26-27=-123/279, 24-26=-123/279, 23-24=-123/279, 22-23=-112/456

**WEBS** 5-28=-294/208, 7-28=-757/298, 10-22=-109/339, 10-20=-873/307, 12-20=-295/208

### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 26, 27, 30, 31, 18. 17. 24 except (it=lb) 28=408. 20=486. 15=111. 19=154.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 68 lb down and 49 lb up at 17-0-12, 68 lb down and 49 lb up at 19-0-12, 68 lb down and 49 lb up at 23-0-12, 68 lb down and 49 lb up at 23-0-12, and 68 lb down and 49 lb up at 25-0-12, and 68 lb down and 49 lb up at 27-0-12 on bottom chord. The design/selection of such connection

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Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
					T30017836
3363903	T19G	GABLE	1	1	
					Job Reference (optional)

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:36 2023 Page 2 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-kZ96xLsoWb1tdBq1wdAYpxqwRPagKQ4BlgQmbQzcgQL

### NOTES-

13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

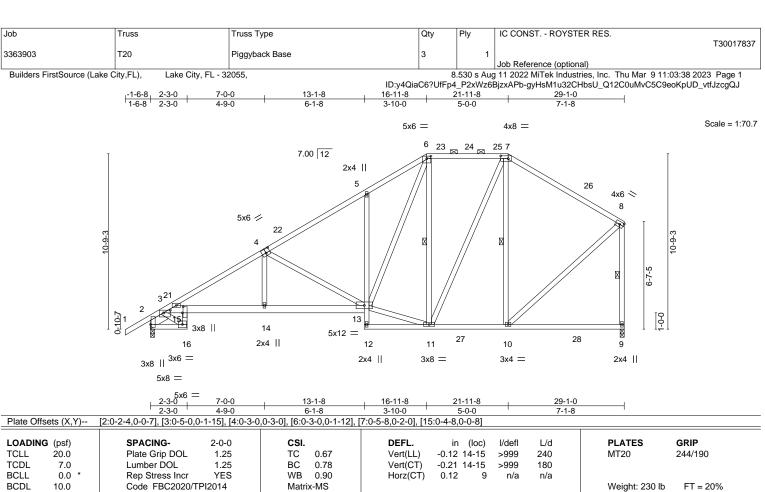
### LOAD CASE(S) Standard

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

Vert: 1-8=-54, 8-9=-54, 9-16=-54, 2-15=-20

Concentrated Loads (lb)

Vert: 22=-68(B) 21=-68(B) 63=-68(B) 64=-68(B) 65=-68(B) 67=-68(B)



**BRACING-**

TOP CHORD

BOT CHORD

WEBS

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

15-16,5-12: 2x4 SP No.3, 3-13: 2x6 SP M 26

**WEBS** 2x4 SP No.3

**SLIDER** Left 2x6 SP No.2 1-1-9

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

Max Horz 2=307(LC 12)

Max Uplift 2=-290(LC 12), 9=-240(LC 12) Max Grav 2=1303(LC 19), 9=1213(LC 2)

TOP CHORD 3-18=-490/89, 3-4=-2310/571, 4-5=-1449/372, 5-6=-1452/490, 6-7=-793/294,

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

7-8=-811/217, 8-9=-1069/258

BOT CHORD 2-16=-453/1077, 15-16=-483/1181, 3-15=-651/2007, 14-15=-681/2067, 13-14=-680/2063,

5-13=-295/212, 10-11=-130/631

**WEBS** 4-14=-90/538, 4-13=-928/358, 11-13=-169/745, 6-13=-415/1142, 6-11=-484/237,

7-11=-186/464, 7-10=-352/159, 8-10=-172/822, 3-16=-1433/604

### NOTES-

LUMBER-

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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 16-11-8, Exterior(2R) 16-11-8 to 21-2-7, Interior(1) 21-2-7 to 21-11-8, Exterior(2R) 21-11-8 to 26-2-7, Interior(1) 26-2-7 to 28-11-4 zone; end vertical left 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 (it=lb) 2=290, 9=240,
- 8) 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:

March 10,2023

16023 Swingley Ridge Rd Chesterfield, MO 63017

Structural wood sheathing directly applied or 3-6-12 oc purlins,

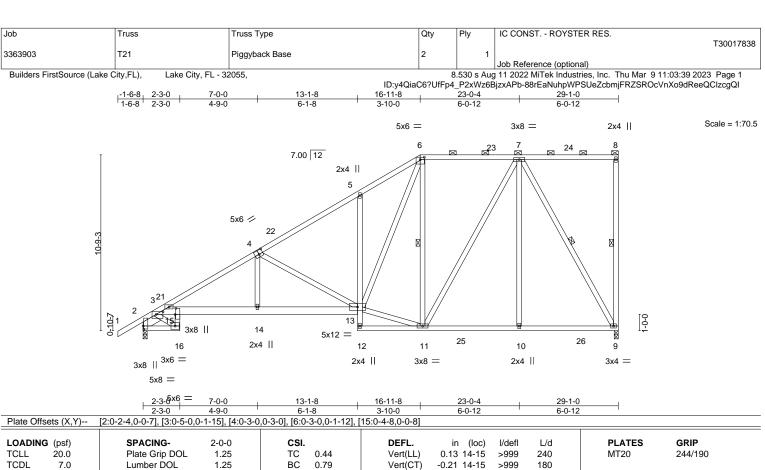
6-11, 7-10, 8-9

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

8-9-10 oc bracing: 2-16 7-10-1 oc bracing: 15-16.

1 Row at midpt



LOADIN	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)	0.13	14-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.21	14-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.89	Horz(CT)	0.13	9	n/a	n/a		
BCDL	10.0	Code FBC2020/TI	PI2014	Matri	x-MS						Weight: 239 lb	FT = 20%

BOT CHORD

WEBS

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

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

15-16,5-12: 2x4 SP No.3, 3-13: 2x6 SP M 26

WFBS 2x4 SP No.3

**SLIDER** Left 2x6 SP No.2 1-1-9

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

Max Horz 2=392(LC 12) Max Uplift 9=-307(LC 12), 2=-280(LC 12)

Max Grav 9=1230(LC 2), 2=1310(LC 19)

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

TOP CHORD  $3-18=-491/91,\ 3-4=-2312/584,\ 4-5=-1458/365,\ 5-6=-1459/480,\ 6-7=-811/279$ 

2-16=-523/1054, 15-16=-561/1155, 3-15=-745/1978, 14-15=-778/2037, 13-14=-777/2034, **BOT CHORD** 

5-13=-292/205, 10-11=-168/585, 9-10=-168/585

**WEBS** 4-14=-108/531, 4-13=-921/379, 11-13=-233/756, 6-13=-436/1120, 6-11=-474/290,

7-11=-224/537, 7-10=0/382, 7-9=-1179/342, 3-16=-1402/699

### NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8. Interior(1) 1-5-8 to 16-11-8. Exterior(2R) 16-11-8 to 21-2-7, Interior(1) 21-2-7 to 28-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=307, 2=280.
- 7) 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:

March 10,2023



Structural wood sheathing directly applied or 3-6-13 oc purlins,

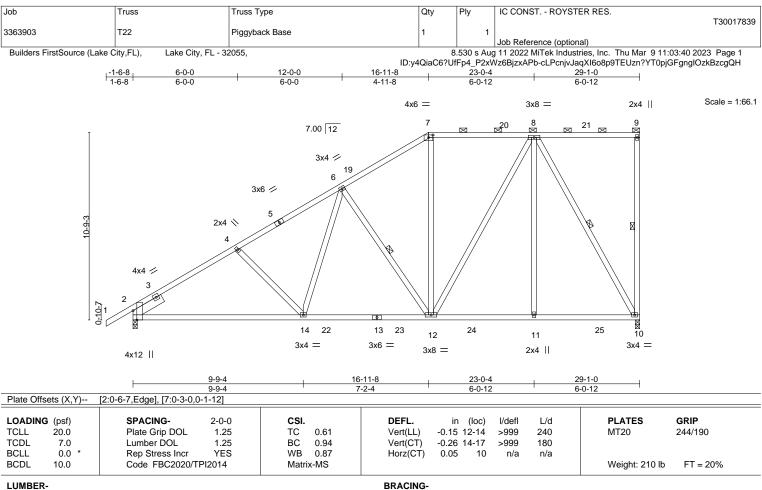
8-9, 6-11, 7-9

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-8.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

8-2-2 oc bracing: 2-16 7-2-13 oc bracing: 15-16.

1 Row at midpt



TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

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

SLIDER Left 2x6 SP No.2 1-11-8

REACTIONS. (size) 10=0-3-0, 2=0-3-0

Max Horz 2=392(LC 12)

Max Uplift 10=-307(LC 12), 2=-280(LC 12) Max Grav 10=1251(LC 2), 2=1325(LC 19)

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

TOP CHORD 2-4=-1727/365, 4-6=-1570/343, 6-7=-1036/280, 7-8=-842/278 2-14=-598/1517, 12-14=-433/1207, 11-12=-168/596, 10-11=-168/596 BOT CHORD

 $6-14=-92/508,\ 6-12=-665/276,\ 7-12=-6/311,\ 8-12=-224/579,\ 8-11=0/363,$ 

8-10=-1199/341

### NOTES-

**WEBS** 

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-6-8 to 1-5-8, Interior(1) 1-5-8 to 16-11-8, Exterior(2R) 16-11-8 to 21-2-7, Interior(1) 21-2-7 to 28-11-4 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) 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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Structural wood sheathing directly applied or 3-6-5 oc purlins,

9-10, 6-12, 8-10

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-9.

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

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:

March 10,2023



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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



Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
					T30017840
3363903	T23	Roof Special	3	1	
					Inh Reference (ontional)

Lake City, FL - 32055,

| Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:42 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-YjWNCOxZ5Rn0L6HBGuHy2C4\_kqaGkHX47ct4p4zcgQF

<u>5-11</u>-8 2-11-0 2-11-0 9-0-0 11-11-0 3-0-8 3-0-8

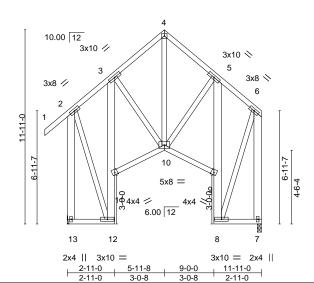
4x4 =

Scale = 1:70.7

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

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

except end verticals



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 0.25	Vert(LL) 0.08 10-11 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.55	Vert(CT) -0.08 10-11 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.34	Horz(CT) -0.39 7 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 164 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 \*Except\* 3-12.5-8: 2x6 SP No.2

WFBS 2x4 SP No.3 \*Except\*

2-13,6-7: 2x6 SP No.2

REACTIONS. (size) 13=Mechanical, 7=0-3-0

Max Horz 13=367(LC 9)

Max Uplift 13=-123(LC 12), 7=-116(LC 13) Max Grav 13=531(LC 20), 7=466(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-284/256, 3-4=-421/364, 4-5=-423/374, 2-13=-515/242, 6-7=-475/326

 $12 - 13 = -334/291, \ 11 - 12 = -394/194, \ 3 - 11 = -251/27, \ 10 - 11 = -436/499, \ 9 - 10 = -261/356,$ BOT CHORD

8-9=-271/207, 5-9=-418/353

**WEBS** 4-10=-361/404, 2-12=-118/364, 6-8=-244/359

### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 5-11-8, Exterior(2R) 5-11-8 to 9-2-12, Interior(1) 9-2-12 to 11-8-4 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 13=123, 7=116.

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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:

March 10,2023

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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



J	Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
						T30017841
3	3363903	T23G	Roof Special Structural Gable	1	1	Joh Reference (ontional)

Lake City, FL - 32055,

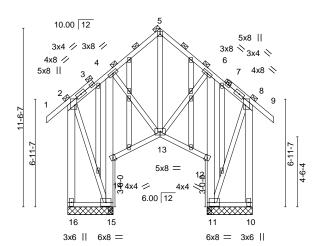
8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:44 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-V6e7d4yqd21kaPRaOJJQ8d9JadM1C5HMbvMBtyzcgQD

2-11-0 2-11-0 5-11-8 9-0-0 11-11-0 13-3-8 2-11-0 1-4-8 3-0-8 3-0-8

> Scale = 1:74.4 4x4 =

> > 2-0-0 oc purlins (6-0-0 max.), except end verticals.

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



2-11-0	5-11-8	9-0-0	11-11-0
2-11-0	3-0-8	3-0-8	2-11-0

**BRACING-**

TOP CHORD

**BOT CHORD** 

		2110	2110	
Plate Offsets (X,Y)	[2:0-4-12,0-1-8], [8:0-4-12,0-1-8]			
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 0.29	Vert(LL) -0.00 13-14 >999 240	MT20 244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.14	Vert(CT) -0.01 13-14 >999 180	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.64	Horz(CT) -0.07 10 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS	, ,	Weight: 202 lb FT = 20%
				· ·

LUMBER-

TOP CHORD 2x4 SP No.2

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

4-15.6-11: 2x6 SP No.2

WFBS 2x4 SP No.3 \*Except\*

2-16,8-10: 2x6 SP No.2

**OTHERS** 2x4 SP No.3

REACTIONS. All bearings 2-11-0.

(lb) -Max Horz 16=-362(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) except 16=-769(LC 8), 12=-107(LC 13),

11=-123(LC 11), 10=-264(LC 8), 15=-691(LC 11)

Max Grav All reactions 250 lb or less at joint(s) 11, 11 except 16=908(LC 11), 12=339(LC 19), 10=402(LC 20), 15=824(LC 10), 15=316(LC 1)

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

TOP CHORD 2-4=-265/315, 4-5=-238/275, 5-6=-237/266, 6-8=-306/362, 2-16=-848/891,

8-10=-481/516

**BOT CHORD** 15-16=-327/302, 14-15=-290/52, 4-14=-276/96, 6-12=-415/201

**WEBS** 6-13=-155/251, 2-15=-705/749

### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 5-11-8, Exterior(2R) 5-11-8 to 9-2-12, Interior(1) 9-2-12 to 13-3-8 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) 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) N/A
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) 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
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 769 lb uplift at joint 16, 107 lb uplift at joint 12, 123 lb uplift at joint 11, 264 lb uplift at joint 10 and 691 lb uplift at joint 15.

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March 10,2023

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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



Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
					T30017842
3363903	T24	Half Hip	1	1	
					Joh Reference (ontional)

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:45 2023 Page 1

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

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

5-9

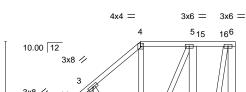
6-7

except end verticals.

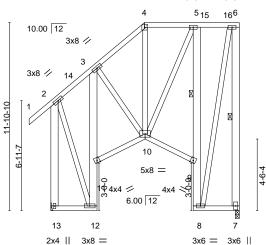
1 Row at midpt

1 Row at midpt

ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-zICVqQzSOM9bCZ0mx0qfgqiVE1dexUaWqZ5kPPzcgQC 2-11-0 2-11-0 5-11-15-11-8 9-0-0 3-0-1 0-0-7 3-0-8 11-11-0 2-11-0







2-11-0	5-11-8	9-0-0	11-11-0
2-11-0	3-0-8	3-0-8	2-11-0

Plate Offse	ets (X,Y)	[4:0-2-0,0-1-13]			10 0	000	2110				
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	0.06 10-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(CT)	-0.05 10-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.96	Horz(CT)	-0.27 7	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	k-MS					Weight: 188 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

3-12,5-8: 2x6 SP No.2 **WEBS** 2x4 SP No.3 \*Except\*

6-7,2-13: 2x6 SP No.2

REACTIONS. (size) 7=0-3-0, 13=Mechanical

Max Horz 13=252(LC 9)

Max Uplift 7=-236(LC 9), 13=-23(LC 12) Max Grav 7=415(LC 1), 13=516(LC 1)

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

TOP CHORD 3-4=-301/285, 4-5=-236/266, 6-7=-431/414, 2-13=-514/119

 $12 - 13 = -353/206, \ 11 - 12 = -308/118, \ 3 - 11 = -250/72, \ 10 - 11 = -458/345, \ 8 - 9 = -310/329, \ 10 - 11 = -458/345, \ 10 - 12 = -353/206, \ 11 - 12 = -308/118, \ 10 - 12 = -353/206, \ 10$ **BOT CHORD** 

5-9=-353/412

**WEBS** 5-10=-404/321, 6-8=-359/372, 2-12=-36/267

- 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 5-11-1, Exterior(2R) 5-11-1 to 10-1-15, Interior(1) 10-1-15 to 11-8-4 zone; end vertical left 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.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 236 lb uplift at joint 7 and 23 lb uplift at ioint 13.

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March 10,2023

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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



Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
					T30017843
3363903	T25	Piggyback Base	1	1	Job Reference (ontional)

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:46 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-RUmu2m\_49gHSqjbyVkLuD2FgDR\_dg4Of2DrlyrzcgQB

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-5.

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

6-0-0 oc bracing: 10-11.

1 Row at midpt

2-11-0 2-11-0 4-6-14 9-0-0 11-11-0 2-11-0

Scale = 1:61.9

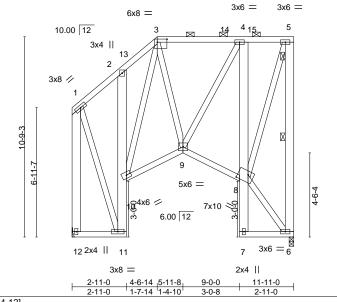


Plate Offsets (X,Y)	[3:0-6-4,0-2-0], [8:0-6-4,0-4-12]		2110	
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	<b>CSI.</b> TC 0.21	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) 0.04 9-10 >999 240	<b>PLATES GRIP</b> MT20 244/190
TCDL 7.0 BCLL 0.0 *	Lumber DOL 1.25 Rep Stress Incr YES	BC 0.39 WB 0.35	Vert(CT) -0.04 9-10 >999 180 Horz(CT) -0.16 6 n/a n/a	
BCDL 10.0	Code FBC2020/TPI2014	Matrix-MS		Weight: 179 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

2-11,4-7: 2x6 SP No.2

**WEBS** 2x4 SP No.3 \*Except\*

5-6,1-12: 2x6 SP No.2

REACTIONS. (size) 6=0-3-0, 12=Mechanical

Max Horz 12=-222(LC 10)

Max Uplift 6=-211(LC 9), 12=-43(LC 12) Max Grav 6=424(LC 1), 12=424(LC 1)

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

2-3=-314/363, 5-6=-387/314, 1-12=-424/100 TOP CHORD **BOT CHORD** 11-12=-277/171, 9-10=-309/291, 4-8=-353/364 **WEBS** 4-9=-291/252, 5-8=-304/362, 1-11=-74/273

### 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=25ft; 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 4-6-14, Exterior(2R) 4-6-14 to 8-9-13, Interior(1) 8-9-13 to 11-8-4 zone; end vertical left 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.
- 7) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 211 lb uplift at joint 6 and 43 lb uplift at joint 12.
- 9) 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:

March 10,2023

Job Truss Truss Type Qty Ply IC CONST. - ROYSTER RES T30017844 3363903 T26 Monopitch Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:48 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-NtueTS?KhHYA31ILd9OMITKxkEjx8xJyWXKP0kzcgQ9 5-0-0 5-0-0 Scale = 1:40.4 3x4 ||

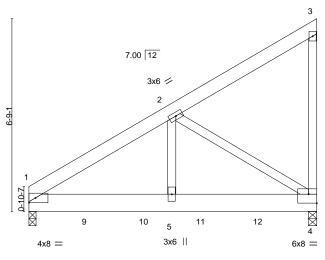


Plate Offsets (X,Y)--[4:Edge,0-3-12] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.25 TC 0.53 Vert(LL) -0.02 >999 240 MT20 244/190 TCDL Vert(CT) 7.0 Lumber DOL 1.25 BC 0.15 -0.04 5 >999 180 WB 0.57 **BCLL** 0.0 Rep Stress Incr Horz(CT) 0.01 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 159 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

10-1-0

5-1-0

except end verticals.

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

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

5-0-0

5-0-0

LUMBER-

TOP CHORD 2x6 SP No.2 BOT CHORD 2x8 SP 2400F 2.0E

2x4 SP No 3 WFBS

REACTIONS. (size) 1=0-3-0, 4=0-3-8

Max Horz 1=213(LC 23)

Max Uplift 1=-841(LC 8), 4=-913(LC 8) Max Grav 1=3320(LC 1), 4=3284(LC 1)

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

TOP CHORD 1-2=-4056/942. 2-3=-694/329. 3-4=-914/320

BOT CHORD 1-5=-883/3118 4-5=-883/3118 WFBS 2-5=-188/1325, 2-4=-3691/1045

### NOTES-

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

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

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

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

- 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) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 841 lb uplift at joint 1 and 913 lb uplift at
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 497 lb down and 143 lb up at 2-0-4, 497 lb down and 143 lb up at 4-0-4, and 496 lb down and 43 lb up at 6-0-4, and 404 lb down and 63 lb up at 8-0-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Vert: 1-3=-454, 4-6=-20

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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:

March 10,2023

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Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
2262002	T26	Managitah Cirdar	_	_	T30017844
3363903	120	Monopitch Girder		2	Job Reference (optional)

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:48 2023 Page 2 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-NtueTS?KhHYA31lLd9OMITKxkEjx8xJyWXKP0kzcgQ9

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 9=-497(F) 10=-497(F) 11=-496(F) 12=-404(B)



Job Truss Truss Type Qty Ply IC CONST. - ROYSTER RES. T30017845 3363903 T27 2 Common Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:49 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-r3S0gn0ySbg1hAKXAsvbrgsBhezdtUs6kB3yYAzcgQ8 <del>-1-4-0</del> <del>1-4-0</del> 4-4-0 8-4-0 12-4-0 16-8-0 4-0-0 4-0-0 4-4-0 Scale: 1/4"=1 4x4 = 10.00 12 2x4 × 16 2x4 // 8 3x8 || 5x8 = 3x8 || 8-4-0 16-8-0 8-4-0 8-4-0 Plate Offsets (X,Y)-- [2:0-3-8,Edge], [3:0-0-0,0-0-0], [6:0-3-8,Edge], [8:0-4-0,0-3-0]

LOADING	VI /	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.07	8-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.57	Vert(CT)	-0.14	8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	ix-MS						Weight: 90 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No 2 BOT CHORD 2x4 SP No 2 2x4 SP No 3 WFBS

WEDGE

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

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

Max Horz 2=-189(LC 10)

Max Uplift 2=-160(LC 12), 6=-160(LC 13) Max Grav 2=689(LC 1), 6=689(LC 1)

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

2-3=-714/190, 3-4=-559/196, 4-5=-559/196, 5-6=-714/190 TOP CHORD

**BOT CHORD** 2-8=-142/558, 6-8=-66/504

WEBS 4-8=-137/451

### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 8-4-0, Exterior(2R) 8-4-0 to 11-4-0, Interior(1) 11-4-0 to 18-0-0 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.
- 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 160 lb uplift at joint 2 and 160 lb uplift at joint 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:

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Job Truss Truss Type Qty Ply IC CONST. - ROYSTER RES. T30017846 3363903 T27G Common Supported Gable Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:50 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-JG?Ot71aDuoulKvkkZQqNuPOd2R6cxfFzrpV5czcgQ7 16-8-0 Scale = 1:46.1 4x4 = 8 10.00 12 9 3x4 / 10 3x4 💉 0-7-7 4x6 || 20 18 17 16 15 19 14 3x6 =16-8-0

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.		(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DC	L 1.25	TC	0.12	Vert(LL)	-0.00	13	n/r	120	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.01	13	n/r	120		
BCLL 0.0	<ul> <li>Rep Stress In</li> </ul>	cr YES	WB	0.14	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code FBC20	20/TPI2014	Matri	x-S						Weight: 108 lb	FT = 20%

LUMBER-

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

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

BRACING-

16-8-0

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

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

REACTIONS. All bearings 16-8-0.

Max Horz 2=-180(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 12, 18, 19, 21, 16, 15, 14 Max Grav All reactions 250 lb or less at joint(s) 2, 12, 17, 18, 19, 21, 16, 15, 14

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

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 8-4-0, Corner(3R) 8-4-0 to 11-4-0, Exterior(2N) 11-4-0 to 18-0-0 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 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, 12, 18, 19, 21,
- 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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Job Truss Truss Type Qty Ply IC CONST. - ROYSTER RES. T30017847 3363903 T28 Common Girder 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:52 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-Ge79Ip2rlW2bYe26r\_SISJUjJs4?4jSYR9Ic9VzcgQ5 4-4-0 8-4-0 12-4-0 16-8-0 4-4-0 4-0-0 Scale: 1/4"=1 4x6 || 4 10.00 12 3x6 // 3x6 📏 3  $\mathbb{X}$ 9 17 18 10 8 7 6x8 = 3x6 II 8x10 = 4x8 = 3x6 4x8 = 4-4-0 12-4-0 16-8-0 4-4-0 4-0-0 4-0-0

Plate Offsets (X,Y)-- [2:0-5-6,0-2-0], [3:0-0-0,0-0-0], [6:0-5-6,0-2-0], [8:0-5-0,0-5-12]

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	0.17	Vert(LL)	0.05	8-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	-0.08	8-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.69	Horz(CT)	0.01	6	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 243 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

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

Max Horz 2=180(LC 24)

Max Uplift 6=-977(LC 9), 2=-933(LC 8) Max Grav 6=3176(LC 1), 2=2586(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-3618/1350, 3-4=-3082/1161, 4-5=-3084/1161, 5-6=-4145/1301 BOT CHORD 2-10=-1055/2720, 8-10=-1055/2720, 7-8=-949/3131, 6-7=-949/3131

WFBS 4-8=-1377/3635, 5-8=-1123/346, 5-7=-221/1238, 3-8=-561/384, 3-10=-279/528

### 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 0-7-0 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=25ft; 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.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=977, 2=933.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1607 lb down and 883 lb up at 6-7-4, 872 lb down and 241 lb up at 8-7-4, 771 lb down and 204 lb up at 10-7-4, and 771 lb down and 204 lb up at 12-7-4, and 544 lb down and 157 lb up at 14-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-6=-54, 11-14=-20

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March 10,2023

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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



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

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

Chesterfield, MO 63017

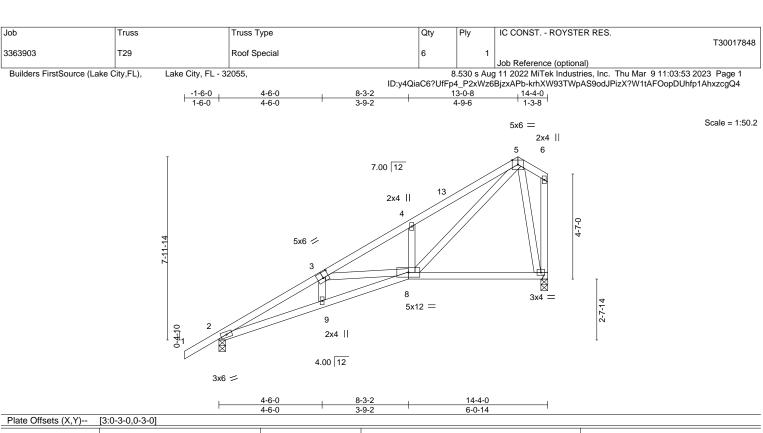
Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
000000	T00	0 0: 1			T30017847
3363903	T28	Common Girder	1	2	Job Reference (optional)

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:52 2023 Page 2 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-Ge79lp2rlW2bYe26r\_SISJUjJs4?4jSYR9lc9VzcgQ5

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 9=-1607(B) 8=-765(B) 7=-771(B) 17=-771(B) 18=-544



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	0.23	Vert(LL)	0.07	8-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.36	Vert(CT)	-0.13	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.05	7	n/a	n/a		
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MS						Weight: 83 lb	FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WFBS

REACTIONS. (size) 2=0-3-8, 7=0-3-8

Max Horz 2=293(LC 12)

Max Uplift 2=-124(LC 12), 7=-209(LC 12) Max Grav 2=610(LC 1), 7=525(LC 19)

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

TOP CHORD 2-3=-1479/459, 3-4=-1020/312, 4-5=-1073/442

**BOT CHORD** 2-9=-634/1367 8-9=-634/1379

WFBS 3-8=-414/205, 4-8=-281/198, 5-8=-509/1131, 5-7=-488/251

### 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=25ft; 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 13-0-8, Exterior(2E) 13-0-8 to 14-2-4 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) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=124, 7=209.

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:

March 10,2023

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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

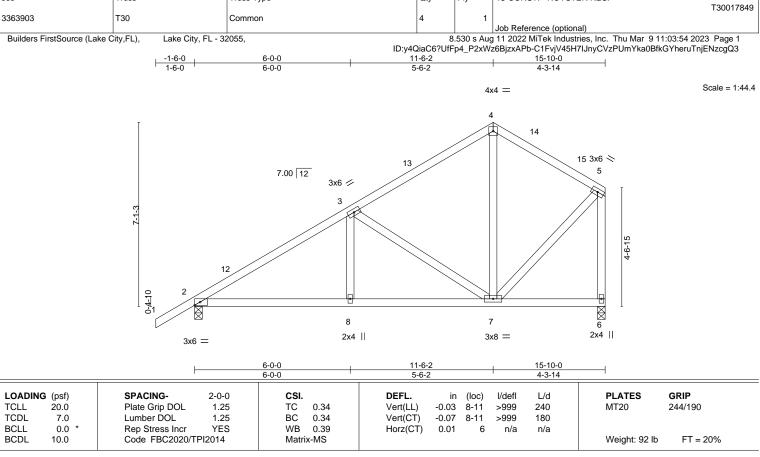


Structural wood sheathing directly applied or 4-9-0 oc purlins,

Rigid ceiling directly applied or 7-5-4 oc bracing.

except end verticals.

16023 Swingley Ridge Rd Chesterfield, MO 63017



Qty

Ply

IC CONST. - ROYSTER RES.

LUMBER-

Job

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

BRACING-

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

except end verticals

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

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

Max Horz 2=223(LC 12)

Truss

Truss Type

Max Uplift 2=-167(LC 12), 6=-151(LC 12) Max Grav 2=665(LC 1), 6=577(LC 1)

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

2-3=-829/168, 3-4=-403/125, 4-5=-370/127, 5-6=-541/169 TOP CHORD

**BOT CHORD** 2-8=-268/680, 7-8=-268/680 WFBS 3-7=-485/225, 5-7=-111/386

### 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=25ft; 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 11-6-2, Exterior(2R) 11-6-2 to 14-6-2, Interior(1) 14-6-2 to 15-8-4 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) 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) 2=167. 6=151.

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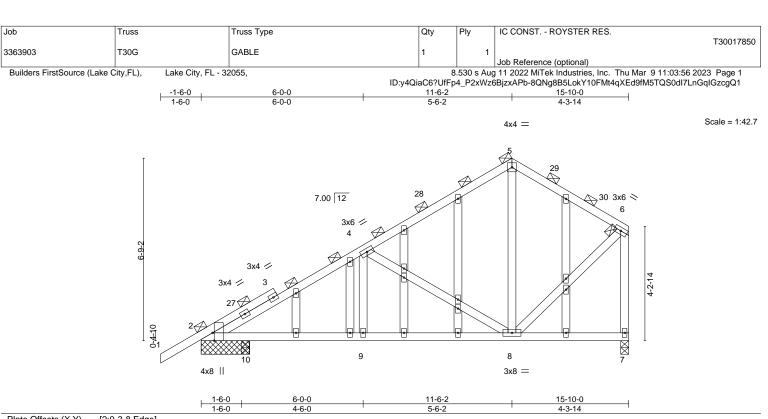


Plate Oil	sets (X,Y)	[2:0-3-8,Euge]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.02	8-9	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.30	Vert(CT)	-0.05	8-9	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.01	7	n/a	n/a			
BCDL	10.0	Code FBC2020/TF	PI2014	Matri	x-MS						Weight: 120 lb	FT = 20%	

**BRACING-**

TOP CHORD

**BOT CHORD** 

2-0-0 oc purlins (6-0-0 max.), except end verticals.

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

LUMBER-

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

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

REACTIONS.

(size) 2=1-9-8, 7=0-3-8, 10=0-3-8

Max Horz 2=211(LC 12)

Max Uplift 2=-91(LC 12), 7=-137(LC 12), 10=-90(LC 12) Max Grav 2=405(LC 1), 7=546(LC 1), 10=292(LC 19)

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

TOP CHORD 2-4=-761/154, 4-5=-397/122, 5-6=-367/125, 6-7=-514/160

BOT CHORD 2-10=-244/629, 9-10=-244/629, 8-9=-244/629

**WEBS** 4-8=-417/196, 6-8=-102/365

### 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=25ft; 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 11-6-2, Exterior(2R) 11-6-2 to 14-6-2, Interior(1) 14-6-2 to 15-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (it=lb) 7=137.
- 10) 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:

March 10,2023

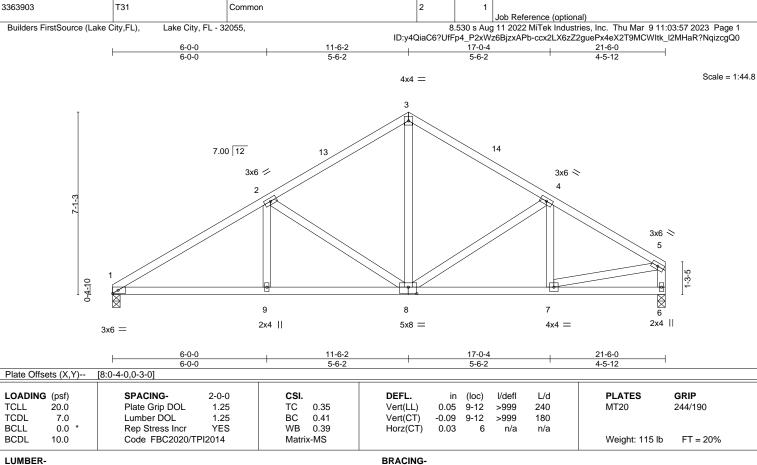
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Chesterfield, MO 63017



TOP CHORD

BOT CHORD

Qty

Ply

IC CONST. - ROYSTER RES.

Structural wood sheathing directly applied or 4-11-2 oc purlins,

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

except end verticals.

T30017851

LUMBER-

Job

Truss

Truss Type

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

REACTIONS. (size) 1=0-3-8, 6=0-3-8

Max Horz 1=155(LC 9) Max Uplift 1=-184(LC 12), 6=-173(LC 13) Max Grav 1=790(LC 1), 6=790(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-1247/282, 2-3=-820/237, 3-4=-816/235, 4-5=-986/222, 5-6=-750/182

BOT CHORD 1-9=-298/1021, 8-9=-298/1021, 7-8=-154/811

WFBS 2-8=-487/232, 3-8=-112/477, 4-8=-254/165, 5-7=-143/776

### 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=25ft; 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 11-6-2, Exterior(2R) 11-6-2 to 14-6-2, Interior(1) 14-6-2 to 21-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=184, 6=173.

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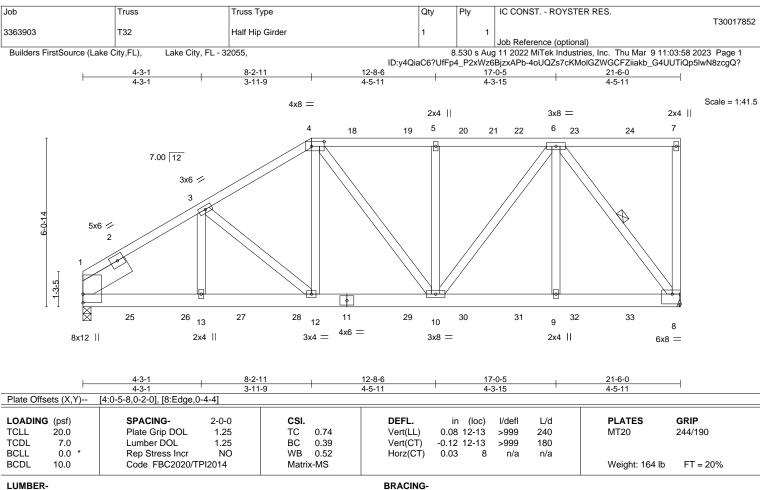


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TOP CHORD

**BOT CHORD** 

WEBS

LUMBER-

**WEBS** 

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP M 26 \*Except\*

8-11: 2x6 SP No.2 2x4 SP No.3

**SLIDER** Left 2x8 SP 2400F 2.0E 1-11-8

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

Max Horz 1=177(LC 27) Max Uplift 1=-764(LC 8), 8=-863(LC 5) Max Grav 1=1740(LC 1), 8=1627(LC 1)

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

1-3=-2101/986, 3-4=-1878/971, 4-5=-1576/865, 5-6=-1576/865 TOP CHORD

BOT CHORD  $1-13 = -950/1740,\ 12-13 = -950/1740,\ 10-12 = -887/1611,\ 9-10 = -575/1067,\ 8-9 = -575/1067$ WEBS 4-12=-362/718, 5-10=-287/220, 6-10=-479/843, 6-9=-184/480, 6-8=-1746/942

### 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 74 lb down and 66 lb up at 9-8-6, 74 lb down and 66 lb up at 11-8-6, 74 lb down and 66 lb up at 13-8-6, 74 lb down and 66 lb up at 15-8-6, and 74 lb down and 66 lb up at 17-8-6, and 74 lb down and 66 lb up at 19-8-6 on top chord, and 209 lb down and 91 lb up at 1-8-6, 209 lb down and 93 lb up at 3-8-6, 209 lb down and 126 lb up at 5-8-6, 213 lb down and 177 lb up at 7-8-6, 147 lb down and 104 lb up at 9-8-6, 147 lb down and 104 lb up at 11-8-6, 147 lb down and 104 lb up at 13-8-6, 147 lb down and 104 lb up at 15-8-6, and 147 lb down and 104 lb up at 17-8-6, and 147 lb down and 104 lb up at 19-8-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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Structural wood sheathing directly applied or 3-0-1 oc purlins,

Rigid ceiling directly applied or 7-10-10 oc bracing

except end verticals.

1 Row at midpt

Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
					T30017852
3363903	T32	Half Hip Girder	1	1	
					Job Reference (optional)

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:03:59 2023 Page 2 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-Z?2omC8E5fwctj5Smy4xEnHmkgQjDwya2lUUvbzcgQ\_

### LOAD CASE(S) Standard

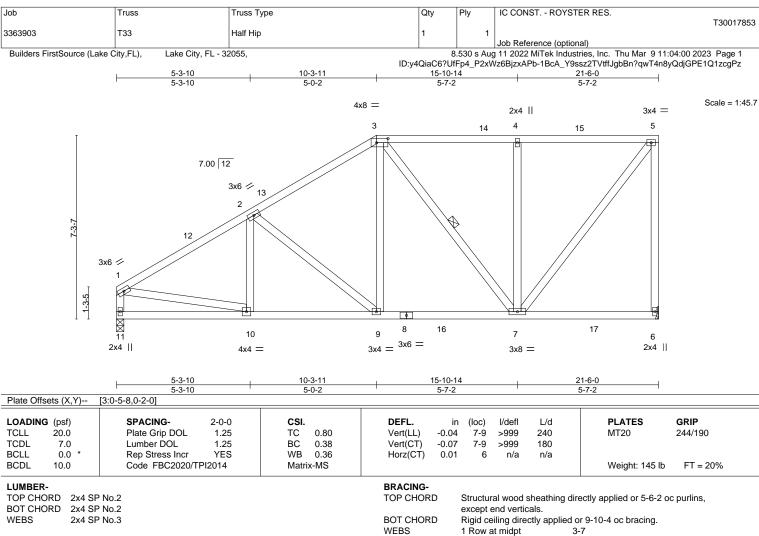
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf)

Vert: 1-4=-54, 4-7=-54, 8-14=-20

Concentrated Loads (lb)

Vert: 11=-140(F) 18=-18(F) 19=-18(F) 20=-18(F) 23=-18(F) 24=-18(F) 25=-209(F) 26=-209(F) 27=-209(F) 28=-209(F) 29=-140(F) 30=-140(F) 31=-140(F)



REACTIONS. (size) 6=Mechanical, 11=0-3-8

Max Horz 11=218(LC 12)

Max Uplift 6=-221(LC 9), 11=-184(LC 12) Max Grav 6=892(LC 2), 11=865(LC 19)

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

TOP CHORD 1-2=-1065/232, 2-3=-845/222, 3-4=-542/151, 4-5=-542/151, 5-6=-784/234,

1-11=-780/197

BOT CHORD 10-11=-250/164, 9-10=-361/912, 7-9=-232/683

 $2-9 = -337/165, \ 3-9 = -73/418, \ 3-7 = -288/130, \ 4-7 = -351/188, \ 5-7 = -244/867, \ 1-10 = -113/795$ 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 10-3-11, Exterior(2R) 10-3-11 to 14-6-10, Interior(1) 14-6-10 to 21-4-4 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.
- 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) 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) 6=221, 11=184.

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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



IC CONST. - ROYSTER RES Job Truss Truss Type Qty Ply T30017854 3363903 T34 2 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:04:01 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-VNAZBu9UdHAK70ErtN7QKCM9HU?Bhp0tV3zbzTzcgPy 6-6-0 9-11-14 15-6-0 21-6-0 3-6-8 3-5-14 Scale = 1:45.1 7x8 || 7.00 12 3x4 || 17 16 3 3x6 > 5 3x10 = 5x6 / 10 6x8 II 5x8 = 1-3-5

	2110	0 0 0	0 11	1-7		10 0 0				2100		
	2-11-8	3-6-8	3-5-	14		5-6-2		1		6-0-0	7	
fsets (X,Y)	[1:Edge,0-1-12], [2:0-7-4	4,0-0-0], [2:0-0-0	,0-4-6], [4:0-4-8,0-	-1-12], [6:0-	-2-8,Edge], [10	0:0-6-0,0	-2-8]					
IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP	
20.0	Plate Grip DOL	1.25	TC 0.54	.	Vert(LL)	-0.22	2-10	>999	240	MT20	244/190	
7.0	Lumber DOL	1.25	BC 0.77	·	Vert(CT)	-0.42	2-10	>612	180			
0.0 *	Rep Stress Incr	YES	WB 0.61		Horz(CT)	0.43	6	n/a	n/a			
	IG (psf) 20.0 7.0	2-11-8   fsets (X,Y)	2-11-8         3-6-8           fsets (X,Y)         [1:Edge,0-1-12], [2:0-7-4,0-0-0], [2:0-0-0]           IG (psf)         SPACING-         2-0-0           20.0         Plate Grip DOL         1.25           7.0         Lumber DOL         1.25	2-11-8   3-6-8   3-5-   fsets (X,Y)   [1:Edge,0-1-12], [2:0-7-4,0-0-0], [2:0-0-0,0-4-6], [4:0-4-8,0-1], [4:0-4-8], [4	2-11-8 3-6-8 3-5-14  fsets (X,Y) [1:Edge,0-1-12], [2:0-7-4,0-0-0], [2:0-0-0,0-4-6], [4:0-4-8,0-1-12], [6:0  IG (psf) SPACING- 2-0-0 CSI.  20.0 Plate Grip DOL 1.25 TC 0.54  7.0 Lumber DOL 1.25 BC 0.77	2-11-8   3-6-8   3-5-14	2-11-8   3-6-8   3-5-14   5-6-2	2-11-8   3-6-8   3-5-14   5-6-2	2-11-8   3-6-8   3-5-14   5-6-2	2-11-8 3-6-8 3-5-14 5-6-2  fsets (X,Y) [1:Edge,0-1-12], [2:0-7-4,0-0-0], [2:0-0-0,0-4-6], [4:0-4-8,0-1-12], [6:0-2-8,Edge], [10:0-6-0,0-2-8]  IG (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d 20.0 Plate Grip DOL 1.25 TC 0.54 Vert(LL) -0.22 2-10 >999 240  7.0 Lumber DOL 1.25 BC 0.77 Vert(CT) -0.42 2-10 >612 180	2-11-8 3-6-8 3-5-14 5-6-2 6-0-0  fsets (X,Y) [1:Edge,0-1-12], [2:0-7-4,0-0-0], [2:0-0-0,0-4-6], [4:0-4-8,0-1-12], [6:0-2-8,Edge], [10:0-6-0,0-2-8]  IG (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES  20.0 Plate Grip DOL 1.25 TC 0.54 Vert(LL) -0.22 2-10 >999 240 MT20  7.0 Lumber DOL 1.25 BC 0.77 Vert(CT) -0.42 2-10 >612 180	2-11-8 3-6-8 3-5-14 5-6-2 6-0-0  fsets (X,Y) [1:Edge,0-1-12], [2:0-7-4,0-0-0], [2:0-0-0,0-4-6], [4:0-4-8,0-1-12], [6:0-2-8,Edge], [10:0-6-0,0-2-8]  IG (psf) SPACING- 2-0-0 CSI. DEFL. in (loc) l/defl L/d PLATES GRIP  20.0 Plate Grip DOL 1.25 TC 0.54 Vert(LL) -0.22 2-10 >999 240 MT20 244/190  7.0 Lumber DOL 1.25 BC 0.77 Vert(CT) -0.42 2-10 >612 180

**BRACING-**

TOP CHORD

BOT CHORD

8

3x8 =

15-6-0

7

except end verticals.

2x4 II

LUMBER-TOP CHORD 2x6 SP M 26 \*Except\*

Code FBC2020/TPI2014

11

3x6 =

2-11-8

4-6: 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 \*Except\*

2-11: 2x6 SP No.2, 2-10: 2x4 SP No.1, 3-9: 2x4 SP No.3

**WEBS** 2x4 SP No.3

10.0

REACTIONS. (size) 6=Mechanical, 12=0-3-8

Max Horz 12=-156(LC 8)

2x4

Max Uplift 6=-184(LC 13), 12=-171(LC 12) Max Grav 6=791(LC 1), 12=794(LC 1)

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

TOP CHORD 1-2=-427/169, 2-3=-1838/416, 3-4=-1946/546, 4-5=-819/237, 5-6=-1249/282,

1-12=-763/178

BOT CHORD 11-12=-150/289, 2-10=-388/1726, 3-10=-694/293, 7-8=-176/1024, 6-7=-176/1024

**WEBS** 8-10=-85/756, 4-10=-452/1630, 5-8=-491/230, 1-11=-319/165

BCDL

- 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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-11-9, Exterior(2R) 9-11-9 to 12-11-9, Interior(1) 12-11-9 to 21-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

9

6-6-0

2x4 ||

9-11-14

Matrix-MS

- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=184, 12=171.

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3x6 =

Weight: 132 lb

FT = 20%

21-6-0

Structural wood sheathing directly applied or 4-11-2 oc purlins,

Rigid ceiling directly applied or 9-8-1 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:

March 10,2023



Job Truss Truss Type Qty Ply IC CONST. - ROYSTER RES. T30017855 3363903 TFG01 **ROOF TRUSS** 3 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:04:03 2023 Page 1

11-10-7

2-3-6

14-11-8

3-1-1

Scale = 1:36.4

3-4-14

ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-RmlJcaBk9uR2MKOE?o9uPdSajHoB9jM9yNSh1MzcgPw

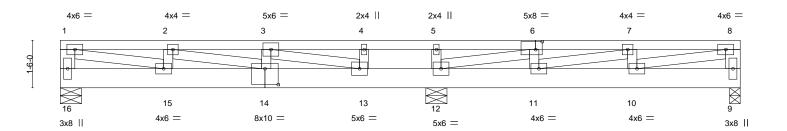
Structural wood sheathing directly applied or 6-0-0 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

except end verticals.

6-0-0 oc bracing: 12-13.

18-0-10



	3-4-14	6-6-0	)	9-7-1	1	11-10-7	14-11-	-8		18-0-10	21-5-8	<u> </u>
	3-4-14	3-1-2	2	3-1-1	1	2-3-6	3-1-1	1		3-1-2	3-4-14	'
Plate Off	fsets (X,Y)	[6:0-2-8,0-3-0], [14:0-5-0	,0-6-0]									
			-									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.Ó	Plate Grip DOL	1.25	TC	0.23	Vert(LL)	0.09	`14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	ВС	0.36	Vert(CT)	-0.11	14	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.55	Horz(CT)	0.01	9	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	' '					Weight: 395 lb	FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SP 2850F 2.0E or 2x4 SP M 31 **BOT CHORD** 2x8 SP 2400F 2 0F

2x4 SP No.3 \*Except\* WFBS

3-4-14

1-16,8-9: 2x6 SP No.2

16=0-8-0, 9=0-4-0, 12=0-8-0

Max Uplift 16=-846(LC 8), 9=-614(LC 8), 12=-2138(LC 8)

Max Grav 16=2810(LC 1), 9=2039(LC 1), 12=7100(LC 1)

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

TOP CHORD 1-16=-2090/1379, 1-2=-4993/3232, 2-3=-5505/3562, 3-4=-508/782, 4-5=-508/782,

5-6=-508/782, 6-7=-1003/649, 7-8=-2915/1887, 8-9=-1457/969

15-16=-558/856, 14-15=-3232/4993, 13-14=-3547/5479, 12-13=-782/508, 11-12=-631/978, BOT CHORD

10-11=-1887/2915, 9-10=-407/622

WEBS 1-15=-2817/4357, 2-15=-1552/1067, 2-14=-349/542, 3-14=-381/679, 3-13=-6614/4285,

4-13=-804/570, 5-12=-1653/1121, 6-12=-1857/1202, 6-11=-630/467, 7-11=-2020/1308,

7-10=-748/547, 8-10=-1559/2416

### NOTES-

REACTIONS.

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

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

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

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

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) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=25ft; 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
- 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) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=846, 9=614, 12=2138.

LOAD CASE(S) Standard

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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:

March 10,2023

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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
					T30017855
3363903	TFG01	ROOF TRUSS	1	3	Job Reference (optional)

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:04:03 2023 Page 2 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-RmlJcaBk9uR2MKOE?o9uPdSajHoB9jM9yNSh1MzcgPw

### LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf) Vert: 1-8=-444, 9-16=-125(B=-105)



11-6-4

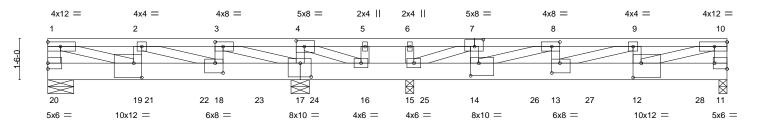
11-6-4

2-11-6

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:04:04 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-vyshpwCMwCZv\_UzQYWg7xr\_cfh4PuBkJB1CFZozcgPv 13-1-12 15-6-0 21-4-13 18-5-6 1-7-8 2-11-6 2-11-7 3-3-3

Scale = 1:41.8



Г	3-3-3	2-11-7	2-11-6	2-4-4	1-7-8 2-	4-4	2-	11-6	2-11-7	3-3-	3
Plate O	ffsets (X,Y)	[3:0-3-8,0-2-0], [4:0-3-8,0-	-2-8], [7:0-3-12,0	-3-0], [8:0-3-8,0-2-0], [	11:Edge,0-2-8], [1	2:0-3-8,0	)-6-4], [13	3:0-3-8,0-4-	4], [14:0-3-8,0-5-8],	[17:0-4-12,0-	6-01,
		[18:0-3-8,0-4-4], [19:0-3-8									<u>.                                    </u>
										_	
LOADIN	NG (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl l	_/d   <b>PL</b> .	ATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC 0.79	Vert(LL)	-0.10	18-19	>999 3	60 MT	20	244/190
TCDL	10.0	Lumber DOL	1.00	BC 0.61	Vert(CT)	-0.13	18-19	>798 2	40		
BCLL	0.0	Rep Stress Incr	NO	WB 0.48	Horz(CT)	0.02	11	n/a ı	n/a		
BCDL	5.0	Code FBC2020/TF	PI2014	Matrix-MS					We	ight: 307 lb	FT = 20%

13-1-12

15-6-0

LUMBER-BRACING-

9-2-0

TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 3-7-5 oc purlins,

BOT CHORD 2x8 SP 2400F 2.0E except end verticals.

**WEBS** 2x4 SP 2850F 2.0E or 2x4 SP M 31 \*Except\* **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 1-20,10-11: 2x6 SP No.2

6-0-0 oc bracing: 16-17,15-16.

18-5-6

REACTIONS. All bearings 0-3-8 except (jt=length) 20=0-11-4, 17=0-8-0.

6-2-10

(lb) - Max Grav All reactions 250 lb or less at joint(s) except 20=4071(LC 5), 11=2664(LC 4), 17=6058(LC 3),

15=4579(LC 4)

3-3-3

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

TOP CHORD  $1-20 = -2908/0, \ 1-2 = -8598/0, \ 2-3 = -4562/0, \ 3-4 = 0/3423, \ 4-5 = 0/3682, \ 5-6 = 0/$ 6-7=0/3682, 7-8=-1422/0, 8-9=-4975/0, 9-10=-4555/0, 10-11=-1577/0

BOT CHORD 19-20=0/974, 18-19=0/8598, 17-18=0/4562, 16-17=-3423/0, 15-16=-3682/0,

14-15=0/1422, 13-14=0/4975, 12-13=0/4555, 11-12=0/558

**WEBS**  $1-19=0/8068,\ 2-19=0/1521,\ 2-18=-4312/0,\ 3-18=0/2588,\ 3-17=-8451/0,\ 4-17=-435/0,$ 

4-16=-324/116, 6-15=-284/0, 7-15=-5588/0, 7-14=0/2033, 8-14=-3773/0, 8-13=0/1035,

9-13=0/445, 9-12=-406/0, 10-12=0/4231

### NOTES-

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-7-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-2-0 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 floor live loads have been considered for this design.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4861 lb down at 3-3-9, 876 lb down at 3-8-4, 876 lb down at 5-8-4, 876 lb down at 7-8-4, 876 lb down at 9-8-4, 876 lb down at 11-8-4, 876 lb down at 13-8-4, 876 lb down at 15-8-4, 864 lb down at 17-8-4, 864 lb down at 19-8-4, and 864 lb down at 21-8-4, and 866 lb down at 23-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 1-10=-100, 11-20=-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.

24-8-0

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

March 10,2023

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16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	IC CONST ROYSTER RES.
3363903	TFG02	FLOOR	1	_	T30017856
3303903	TFG02	FLOOR	1	2	Job Reference (optional)

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:04:04 2023 Page 2 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-vyshpwCMwCZv\_UzQYWg7xr\_cfh4PuBkJB1CFZozcgPv

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 19=-4861(F) 16=-876(F) 14=-876(F) 12=-864(F) 21=-876(F) 22=-876(F) 23=-876(F) 24=-876(F) 25=-876(F) 25=-876(F) 25=-876(F) 27=-864(F) 28=-866(F)

Job Truss Truss Type Qty Plv IC CONST. - ROYSTER RES T30017857 3363903 TFG03 **FLOOR** 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:04:05 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-N8P31GC?hVhlceYc6DBMU2XoM5N8dW\_SQhxo6EzcgPu

1-7-15

9-10-6

<u>11-11-</u>6

2-1-0

14-0-6

2-1-0

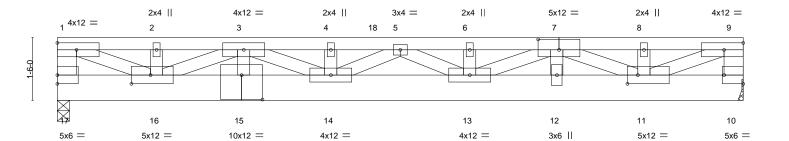
Structural wood sheathing directly applied or 3-2-4 oc purlins,

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

except end verticals.

Scale = 1:27.6

16-4-14



L	2-4-8	4-5-8	<sub>1</sub> 6-	6-8 <sub>I</sub>		9-10-6	1	11-11	-6	14-0	)-6	16-4-	14
	2-4-8	2-1-0	2-	1-0		3-3-14	1	2-1-	0	2-1	-0	2-4-	3
Plate Off	sets (X,Y)	[7:0-6-0,0-3-0], [10:Edge,0	0-2-8], [11:0-3	-0,0-2-8], [1	5:0-6-0,0-7-0	], [16:0-5-8,0-2-8]							
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	Р	LATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.73	Vert(LL)	-0.33	13-14	>585	360	M	T20	244/190
TCDL	10.0	Lumber DOL	1.00	ВС	0.77	Vert(CT)	-0.45	13-14	>425	240			
BCLL	0.0	Rep Stress Incr	NO	WB	0.99	Horz(CT)	0.05	10	n/a	n/a			
BCDL	5.0	Code FBC2020/TF	PI2014	Mati	ix-MS						W	eight: 210 lb	FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x4 SP 2850F 2.0E or 2x4 SP M 31 **BOT CHORD** 2x8 SP 2400F 2 0F

2x4 SP No.2 \*Except\* WFBS

1-17,9-10: 2x6 SP No.2

REACTIONS. (size) 17=0-3-8, 10=Mechanical Max Grav 17=3648(LC 1), 10=4871(LC 1)

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

TOP CHORD 1-17=-2931/0, 1-2=-6022/0, 2-3=-6022/0, 3-4=-15576/0, 4-5=-15576/0, 5-6=-15686/0,

6-7=-15686/0, 7-8=-7286/0, 8-9=-7286/0, 9-10=-3857/0

**BOT CHORD** 16-17=0/715, 15-16=0/12134, 14-15=0/12100, 13-14=0/16606, 12-13=0/13480,

11-12=0/13447. 10-11=0/969

WEBS  $1 - 16 = 0/5910, \ 2 - 16 = -260/0, \ 3 - 16 = -6848/0, \ 3 - 15 = 0/697, \ 3 - 14 = 0/3894, \ 4 - 14 = -1747/0, \ 3 - 16 = -260/0, \ 3 - 16 = -$ 

5-14=-1220/0, 5-13=-1089/0, 6-13=-870/0, 7-13=0/2459, 7-12=0/670, 7-11=-6939/0,

8-11=-1086/0, 9-11=0/7035

### NOTES-

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

Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-3-0 oc.

Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, Except member 4-14 2x4 - 1 row at 0-2-0 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) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1740 lb down at 6-7-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

Vert: 4=-1740(F)

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 1-18=-200, 9-18=-600(F=-400), 10-17=-10 Concentrated Loads (lb)

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.

This item has been

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

March 10,2023

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



Chesterfield, MO 63017

Job Truss Truss Type Qty Ply IC CONST. - ROYSTER RES. T30017858 3363903 TFG04 **FLOOR** 2 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:04:06 2023 Page 1 ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-rLzREcDdSppcDo7ogwib1G40qVpLM1NcfKhMehzcgPt

<u>5-11-12</u>

4-0-7

1-11-5

4-0-7

Scale = 1:15.2

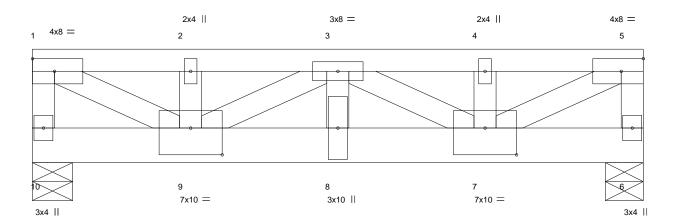
8-0-14

8-0-14

Structural wood sheathing directly applied or 5-4-0 oc purlins,

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

except end verticals.



2-1-1 1-11-5 1-11-5 2-1-2 Plate Offsets (X,Y)--[7:0-5-0,0-4-4], [9:0-5-0,0-4-4] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defI L/d **PLATES GRIP** 

**TCLL** 40.0 Plate Grip DOL 1.00 TC 0.56 Vert(LL) -0.05 >999 360 MT20 244/190 TCDL Lumber DOL Vert(CT) 10.0 1.00 вс 0.39 -0.08 8 >999 240 WB Horz(CT) **BCLL** 0.0 Rep Stress Incr NO 0.73 0.01 6 n/a n/a BCDL 5.0 Code FBC2020/TPI2014 Matrix-MS Weight: 94 lb FT = 20%

BOT CHORD

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

**BOT CHORD** 2x6 SP M 26

2x4 SP No.3 \*Except\* WFBS

1-9,3-9,3-7,5-7: 2x4 SP No.2

REACTIONS. (size) 10=0-6-6, 6=0-6-0

Max Grav 10=4519(LC 1), 6=3650(LC 1)

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

1-10=-3197/0, 1-2=-4761/0, 2-3=-4761/0, 3-4=-4761/0, 4-5=-4761/0, 5-6=-3197/0 TOP CHORD

**BOT CHORD** 9-10=0/300. 8-9=0/6855. 7-8=0/6855. 6-7=0/300

WFBS 1-9=0/5153, 2-9=-1092/0, 3-9=-2420/0, 3-8=0/1212, 3-7=-2420/0, 4-7=-1092/0,

5-7=0/5153

### 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) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 869 lb down at 0-1-12, 864 lb down at 2-2-10, and 864 lb down at 4-2-10, and 864 lb down at 6-2-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 1-5=-595, 6-10=-10

Concentrated Loads (lb)

Vert: 10=-869(F) 9=-864(F) 8=-864(F) 7=-864(F)

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:

March 10,2023

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/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 Ply IC CONST. - ROYSTER RES. T30017859 3363903 V01 **GABLE** Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Thu Mar 9 11:04:07 2023 Page 1

ID:y4QiaC6?UfFp4\_P2xWz6BjzxAPb-KXXqSxEFD7xTrxi?EeDqZTclmvDd5fDlt\_QvA7zcgPs

2x4 ||

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

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

except end verticals

3 7.00 12 2x4 || 2

> 2x4 / 2x4 || 2x4 ||

5

DEFL. LOADING (psf) SPACING-2-0-0 CSL in (loc) I/defI I/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.25 TC 0.10 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 вс 0.07 Vert(CT) n/a n/a 999 WB 0.05 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 n/a n/a Code FBC2020/TPI2014 Weight: 24 lb BCDL 10.0 Matrix-P FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

OTHERS 2x4 SP No.3

REACTIONS. (size) 1=6-4-3, 4=6-4-3, 5=6-4-3

Max Horz 1=109(LC 12)

Max Uplift 4=-25(LC 12), 5=-111(LC 12)

Max Grav 1=85(LC 1), 4=56(LC 19), 5=248(LC 19)

0-0-4

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=25ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 1-1-7 to 4-0-0, Interior(1) 4-0-0 to 6-2-7 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 25 lb uplift at joint 4 and 111 lb uplift at joint 5.

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.

Scale = 1:20.8

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

March 10,2023



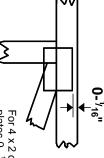


### Symbols

## 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- <sup>1</sup>/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

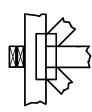
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## 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**



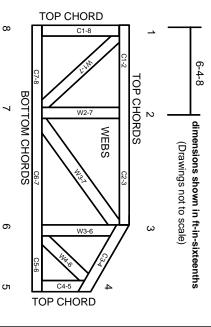
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

### 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
- 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.
- 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.