

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

RE: 3287790 - HARTLEY BROTHERS - MAHN RES.

MiTek USA, Inc.

Site Information:

16023 Swingley Ridge Rd

Customer Info: Hartley Brothers Project Name: Spec Hse Model: Oakland 2 Modified

Lot/Block: N/A

Subdivision: N/A

Address: PID 18-7S-17-10021-014, TBD

City: Columbia Cty

State: FL

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

Name:

License #:

Address:

City:

State:

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

Design Code: FBC2020/TPI2014

Design Program: MiTek 20/20 8.5

Wind Code: ASCE 7-16

Wind Speed: 130 mph

Roof Load: 37.0 psf

Floor Load: N/A psf

This package includes 99 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. 1 23 4 5 6 7 8 9 10 11 22 2	Seal# T28917192 T28917194 T28917195 T28917195 T28917197 T28917198 T28917199 T28917200 T28917200 T28917200 T28917200 T28917200	Truss Name CJ01 CJ01A CJ01B CJ02 CJ02A CJ02C CJ03 CJ03A CJ03A CJ03B CJ03C CJ04 CJ04A CJ04A	Date 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22	No. 15 16 17 18 19 20 21 22 23 24 25 26	Seal# T28917206 T28917207 T28917209 T28917210 T28917211 T28917212 T28917213 T28917215 T28917215 T28917216 T28917217	Truss Name CJ05 CJ05A CJ05C CJ06C CJ06C CJ07 EJ01 EJ02 EJ03 EJ04 EJ05 EJ06	Date 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22 10/5/22	File Copy 3
12 13 14		CJ04A CJ04B CJ04C			T28917217 T28917218 T28917219	EJ06 EJ07 EJ08		ans Examine

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

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

Truss Design Engineer's Name: ORegan, Philip My license renewal date for the state of Florida is February 28, 2023.

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



MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022



RE: 3287790 - HARTLEY BROTHERS - MAHN RES.

MiTek USA, Inc.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Date 10/5/22 10/5/22 10/5/22 10/5/22

10/5/22 10/5/22

10/5/22 10/5/22 10/5/22 10/5/22 10/5/22

Site Information:

Customer Info: Hartley Brothers Project Name: Spec Hse Model: Oakland 2 Modified

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

Address: PID 18-7S-17-10021-014, TBD

State: FL City: Columbia Cty

		•				
No. 290123345678901234456789012345678901200000000000000000000000000000000000	Seal# T28917220 T28917221 T28917222 T28917223 T28917225 T28917226 T28917227 T28917227 T28917227 T28917230 T28917230 T28917233 T28917233 T28917234 T28917235 T28917237 T28917237 T28917237 T28917237 T28917237 T28917237 T28917247 T28917240 T28917240 T28917241 T28917242 T28917242 T28917245 T28917246 T28917246 T28917255 T28917256 T28917264 T28917264 T28917265 T28917265 T28917265 T28917266 T28917266 T28917266 T28917266 T28917266 T28917266 T28917266 T28917266 T28917266	Truss Name HJ02 HJ03 HJ09B HJ09C HJ10 HJ10A PB01 PB02 PB03 T01 T01G T02 T03 T04 T05 T06 T07 T08 T09 T10 T11 T12 T13 T14 T15 T16 T17 T18 T19 T20 T21 T22 T23 T24 T25 T25G T26 T27 T28 T29 T30 T31 T32 T34 T35 T34 T35 T36 T37	Date 10/5/22	No. 867 888 899 991 993 495 996 997 899	Seal# T28917277 T28917279 T28917280 T28917281 T28917283 T28917284 T28917285 T28917286 T28917287 T28917289 T28917289 T28917290	Truss Name T47 T48 T49 T50 T51 T52 T53 V01 V02 V03 V04 V05 V06 V07
70 71 72 73 74	T28917261 T28917262 T28917263 T28917264 T28917265	T31 T32 T33 T34 T35 T36	10/5/22 10/5/22 10/5/22 10/5/22 10/5/22			

Job	Truss	Truss Type	Qty	Ply	HARTLEY BROTHERS - MAHN RES.	
12.57.00		Alecteral Caracter	- C	10000	TO DO STATE OF SECURE AND ASSESSMENT OF SECURE AND ASSESSMENT OF SECURE AND ASSESSMENT OF SECURE ASSESSMENT OF SEC	T28917192
3287790	CJ01	Jack-Open	1	1		
	1	105:000 G*0000	37		Job Reference (optional)	

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

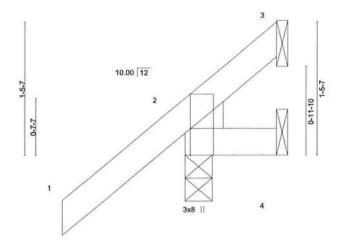
8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:23 2022 Page 1 ID:RJx_oquQFtl0yRxnYGDwOmz6OgW-YmaOYTF1n324_bSfm77gJJ_PjpzrgCN9oFron_yWnLg

Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

-1-4-0 1-0-0 1-4-0 1-0-0

Scale = 1:12.1



1-0-0

Plate Off	fsets (X,Y)	2:0-3-8,Edge]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defi	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	0.00	7	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0,00	7	>999	180	CONSTRUCTOR OCCUPY		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	100070000000000000000000000000000000000					Weight: 7 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE 2X2

Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=61(LC 12)

Max Uplift 3=-8(LC 12), 2=-46(LC 12), 4=-12(LC 1)

Max Grav 3=7(LC 8), 2=157(LC 1), 4=14(LC 16)

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

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 8 lb uplift at joint 3, 46 lb uplift at joint 2 and 12 lb uplift at joint 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'Rogan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022



HARTLEY BROTHERS - MAHN RES. Ply Truss Type Qty Job Truss T28917193 JACK-OPEN C.101A 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:24 2022 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-0z8mlpGfYNAxcl1rKrevsWXbKCJPPfdl1vaLJQyWnLf -1-4-0 Scale = 1:10.0 8.00 12 1-4-12 2 0-11-9 0-8-12 3x10 || 12:0-5-8 Edgel

LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.00	7	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.01	Vert(CT)	0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/T		Matri	x-MP	ALDESON MERCLA					Weight: 7 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=49(LC 12)

Max Uplift 3=-7(LC 12), 2=-45(LC 12), 4=-16(LC 19) Max Grav 3=5(LC 19), 2=157(LC 1), 4=13(LC 16)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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.
- * 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 7 lb uplift at joint 3, 45 lb uplift at joint 2 and 16 lb uplift at joint 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'Rogan PE No.56126 MiTek Inc. DRA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022



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 property 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITEM 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 1-0-0 oc purlins.

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

HARTLEY BROTHERS - MAHN RES. Job Truss Type Qty Ply Truss T28917194 3287790 CJ01B Jack-Open Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:25 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-U9i9z8GIJgloDvc1tY98Ok3m4cfG86tRGZKurtyWnLe

Scale = 1:10.0

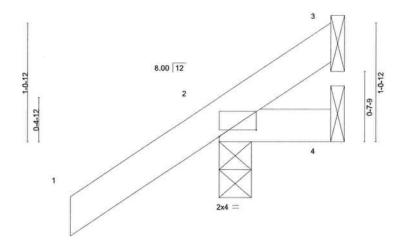


Plate Of	fsets (X,Y)	[2:0-4-0,0-0-11]											
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.00	7	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	0.00	7	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	1/ 2/					Weight: 6 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

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

Max Horz 2=49(LC 12)

Max Uplift 3=-4(LC 9), 2=-57(LC 12), 4=-16(LC 19) Max Grav 3=5(LC 8), 2=157(LC 1), 4=18(LC 16)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 3, 57 lb uplift at joint 2 and 16 lb uplift at joint 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 16025 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022





Structural wood sheathing directly applied or 1-0-0 oc purlins.

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

HARTLEY BROTHERS - MAHN RES. Ply Job Truss Truss Type Qty T28917195 Jack-Open CJ02 3287790 Job Reference (optional)

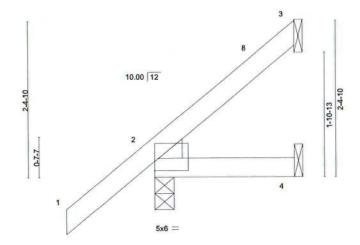
Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:25 2022 Page 1 ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-U9i9z8GIJgloDvc1tY98Ok3mYcfu86tRGZKurtyWnLe

2-1-7 1-4-0

Scale = 1:16.9



	attoritorar	KONTON SERVICE V	10000000000						NAME OF TAXABLE PARTY.	174	DIATEC	CDID
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	0.18	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.00	7	>999	180	Annual Staff	
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2020/T		100000000000000000000000000000000000000	x-MP	A Line and The Co. E.					Weight: 11 lb	FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-1-7 oc purlins.

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

REACTIONS.

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

Max Horz 2=92(LC 12)

Max Uplift 3=-37(LC 12), 2=-29(LC 12), 4=-3(LC 12) Max Grav 3=43(LC 19), 2=171(LC 1), 4=34(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 2-0-11 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 37 lb uplift at joint 3, 29 lb uplift at joint 2 and 3 lb uplift at joint 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'Rogan PE No.58126 MiTek Inc. DRA MITek USA FL Ceri 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022



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 anage. 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



HARTLEY BROTHERS - MAHN RES. Truss Type Qty Job Truss T28917196 3287790 CJ02A Jack-Open Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:26 2022 Page 1 Builders FirstSource (Lake City.FL). Lake City, FL - 32055, ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-zLGXAUHw4_Qfr2BERGgNxxcw00?NtZ7bVD3SOJyWnLd

Scale = 1:13.2

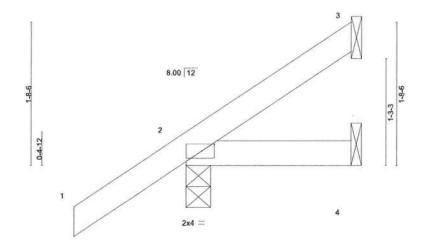


Plate Of	fsets (X,Y)	[2:0-1-13,0-1-0]				r							-
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.00	7	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	-0.00	7	>999	180	200000000000000000000000000000000000000		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 9 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

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

Max Horz 2=71(LC 12)

Max Uplift 3=-25(LC 12), 2=-46(LC 12)

Max Grav 3=37(LC 19), 2=169(LC 1), 4=31(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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 25 lb uplift at joint 3 and 46 lb uplift at joint 2.

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

Philip J. O'Regan PE No.88126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 5,2022



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 MTlek6 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

ANSITP1 Quality Criteria, DSB-89 and BCSI Building Components and the property damage. For general guidance regarding the fabrication available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



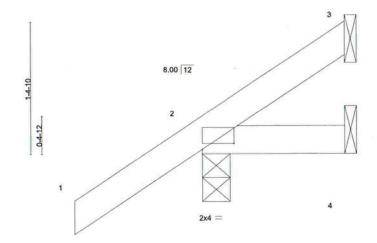
Structural wood sheathing directly applied or 1-11-7 oc purlins.

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty Ply T28917197 CJ02C Jack-Open 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:27 2022 Page 1
ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-RYqvNqIYrlYWTCmQ?zBcU995hQKlc0Mkjtp?wjWnLc Lake City, FL - 32055, Builders FirstSource (Lake City,FL),

Scale = 1:11.6



LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.14	Vert(LL)	0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 8 lb	FT = 20%

BRACING-

TOP CHORD **BOT CHORD**

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

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

Max Horz 2=60(LC 12)

Max Uplift 3=-15(LC 12), 2=-49(LC 12)

Max Grav 3=22(LC 19), 2=159(LC 1), 4=22(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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.
- 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.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 15 lb uplift at joint 3 and 49 lb uplift at joint 2.

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

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

October 5,2022



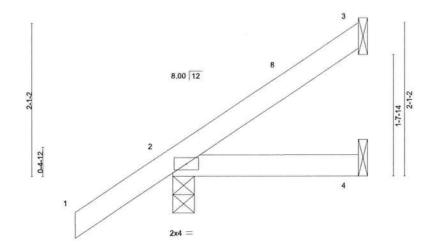


Structural wood sheathing directly applied or 1-5-13 oc purlins.

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

Job Truss Truss Type Qty HARTLEY BROTHERS - MAHN RES. T28917219 EJ08 9 Jack-Open 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:43 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-zdoyklUa3CZFNg_VxKUM7Xpqnto5MFK5PMhrUqyWnLM

Scale = 1:15.2



BRACING-

TOP CHORD

BOT CHORD

LOADING	(psf)	SPACING-	2-0-0	CSI.	manage	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.00	7	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(CT)	-0.00	4-7	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	20000A 00-00000		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 11 lb	FT = 20%	

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

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

Max Horz 2=83(LC 12)

Max Uplift 3=-36(LC 12), 2=-44(LC 12)

Max Grav 3=54(LC 19), 2=183(LC 1), 4=42(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 2-5-12 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 36 lb uplift at joint 3 and 44 lb uplift at joint 2.

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

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

October 5,2022



Structural wood sheathing directly applied or 2-6-8 oc purlins.

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

HARTLEY BROTHERS - MAHN RES. Truss Type Qty Plv Truss Joh T28917218 EJ07 Half Hip Girder 3287790 1 Job Reference (optional)

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:42 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-VQEaXyUyJvROmWPINdz7bJGhbTRLdoOyAixIyOyWnLN

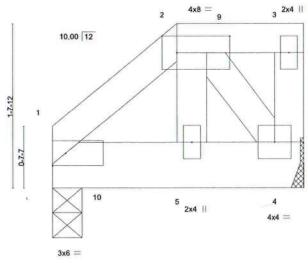
Structural wood sheathing directly applied or 2-6-0 oc purlins,

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

except end verticals.

1-2-13

Scale = 1:11.1



2-6-0
1-3-3

Plate Off	sets (X,Y) [2:0-6-4,0-2-0]										
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	0.03	Vert(LL)	-0.00	8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(CT)	-0.00	8	>999	180	100000000	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	1	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	CONTROL NO.					Weight: 15 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) 1=0-3-8, 4=Mechanical

Max Horz 1=37(LC 8)

Max Uplift 1=-64(LC 8), 4=-53(LC 8) Max Grav 1=286(LC 1), 4=143(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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 64 lb uplift at joint 1 and 53 lb uplift at
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 268 lb down and 71 lb up at 0-6-12, and 49 lb down and 37 lb up at 1-2-13 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

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

Vert: 1-2=-54, 2-3=-54, 4-6=-20

Concentrated Loads (lb)

Vert: 5=13(B) 10=-268(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 Int. DRA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



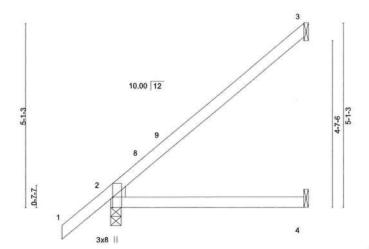
Job	Truss	Truss Type	Qty	Ply	HARTLEY BROTHERS - MAHN RES.	T28917217
3287790	EJ06	Jack-Open	2	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:42 2022 Page 1 ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-VQEaXyUyJvROmWPINdz7bJGaZTMldo4yAixlyOyWnLN

Structural wood sheathing directly applied or 5-4-8 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.



BRACING-

TOP CHORD

BOT CHORD

Plate Off	sets (X,Y)	[2:0-3-8,Edge]											
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defi	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.48	Vert(LL)	0.07	4-7	>921	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.08	4-7	>826	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 22 lb	FT = 20%	

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=185(LC 12)

Max Uplift 3=-109(LC 12), 2=-15(LC 12), 4=-10(LC 12) Max Grav 3=136(LC 19), 2=278(LC 1), 4=97(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 5-3-12 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.
- * 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 109 lb uplift at joint 3, 15 lb uplift at joint 2 and 10 lb uplift at joint 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 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 5,2022

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
ANSITPH 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

Truss Type Qty Ply HARTLEY BROTHERS - MAHN RES. Truss Job T28917216 3 EJ05 Jack-Open 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:41 2022 Page 1

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-0EgCJdTKYbJX8Mq6pvSu26kPY3?RuLqox2ClQxyWnLO

Structural wood sheathing directly applied or 5-4-0 oc purlins.

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

Scale = 1:30.3

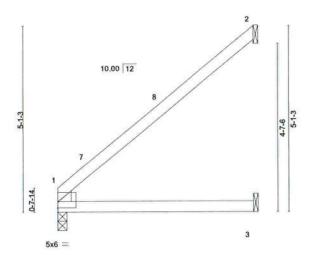


Plate Of	fsets (X,Y)	[1:Edge,0-2-2]										
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.50	Vert(LL)	0.07	3-6	>843	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.08	3-6	>775	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	2	n/a	n/a	Y000000000 100000	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	0.0000000000000000000000000000000000000					Weight: 19 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

Left: 2x4 SP No.3

REACTIONS.

(size) 2=Mechanical, 3=Mechanical, 1=0-3-0

Max Horz 1=151(LC 12)

Max Uplift 2=-112(LC 12), 3=-13(LC 12)

Max Grav 2=139(LC 19), 3=98(LC 3), 1=195(LC 1)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-3-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 2 and 13 lb uplift at joint 3.

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

October 5,2022

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

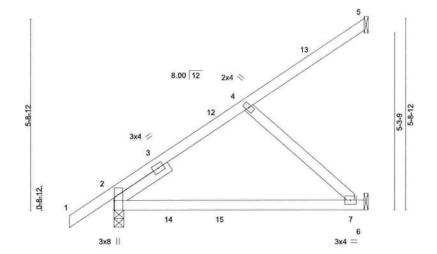
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Ans/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



HARTLEY BROTHERS - MAHN RES. Truss Type Qty Ply Job Truss T28917215 3287790 EJ04 JACK-PARTIAL 2 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:40 2022 Page 1 Builders FirstSource (Lake City.FL). Lake City, FL - 32055, ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-Y26q6HSinHBgWCFwGCwfVuBEXfev9tAfjOSBtVyWnLP

4-0-7

Scale = 1:33.3



7-6-0

BRACING-

TOP CHORD

BOT CHORD

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	0.51	Vert(LL)	0.22	7-10	>413	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(CT)	-0.19	7-10	>464	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	-0.02	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 36 lb	FT = 20%

LUMBER-

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

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

REACTIONS.

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

Max Horz 2=187(LC 12)

Max Uplift 5=-39(LC 12), 2=-52(LC 9), 6=-95(LC 9) Max Grav 5=76(LC 19), 2=354(LC 1), 6=200(LC 1)

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

TOP CHORD

2-4=-606/841

WEBS

4-7=-219/292

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-5-4 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 39 lb uplift at joint 5, 52 lb uplift at joint 2 and 95 lb uplift at joint 6.

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

October 5,2022

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

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

Rigid ceiling directly applied or 9-6-8 oc bracing.

MiTek

HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty Ply T28917214 EJ03 Half Hip Girder 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:40 2022 Page 1
ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-Y26q6HSinHBgWCFwGCwfVuBIHfk?9qZfjOSBtVyWnLP Lake City, FL - 32055, Builders FirstSource (Lake City,FL),

Scale = 1:33.4

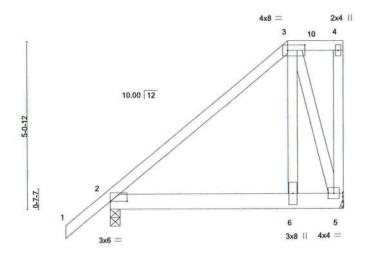


Plate Offs	ets (X,Y)-	[2:0-6-0,0-0-1], [3:0-6-4,0	1-2-0]								_	
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.27	Vert(LL)	0.02	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.15	Vert(CT)	-0.02	6-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.26	Horz(CT)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	17. 2					Weight: 52 lb	FT = 20%

LUMBER-

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

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=187(LC 8)

Max Uplift 2=-93(LC 8), 5=-288(LC 8) Max Grav 2=410(LC 1), 5=544(LC 1)

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

TOP CHORD 2-3=-315/69

WEBS 3-6=-131/435, 3-5=-576/334

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 93 lb uplift at joint 2 and 288 lb uplift at joint 5.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 145 lb down and 146 lb up at 5.4-0 on top chord, and 260 lb down and 139 lb up at 5-4-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-3=-54, 3-4=-54, 5-7=-20

Concentrated Loads (lb)

Vert: 6=-256(F) 3=-119(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'Regon PE No.58126 MiTok Inc. DBA MITok USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

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 property 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

ANSITPH 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	HARTLEY BROTHERS - MAHN RES.	
						T28917213
3287790	EJ02	Jack-Open Girder	1	1		
A STATE OF THE STA		The state of the s			Job Reference (optional)	

3-4-10

Builders FirstSource (Lake City,FL),

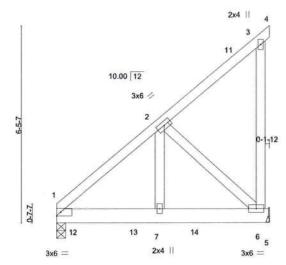
Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:39 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-4rYRvxR40_3pv2gjiUPQzhe9YFMqQN5VUkjeL3yWnLQ

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

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

Scale = 1:36.4



3-4-10

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	7-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.01	7-10	>999	180		
BCLL	0.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 49 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

(size) 1=0-3-8, 6=Mechanical

Max Horz 1=191(LC 23)

Max Uplift 1=-138(LC 8), 6=-421(LC 8) Max Grav 1=818(LC 1), 6=1066(LC 1)

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

TOP CHORD 1-2=-699/109

BOT CHORD 1-7=-214/514, 6-7=-214/514 **WEBS** 2-7=-183/683, 2-6=-694/290

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Refer to girder(s) for truss to truss connections.

- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 138 lb uplift at joint 1 and 421 lb uplift at
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 268 lb down and 71 lb up at 0-6-12, 352 lb down and 122 lb up at 2-6-12, and 332 lb down and 121 lb up at 4-6-12, and 425 lb down and 165 lb up at 6-6-12 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: 1-3=-54, 3-4=-14, 5-8=-20

Concentrated Loads (lb)

Vert: 6=-425(B) 12=-268(B) 13=-352(B) 14=-332(B)

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. Chosterfield, MO 63017

October 5,2022

sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rav. 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 manage. 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 Compo Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

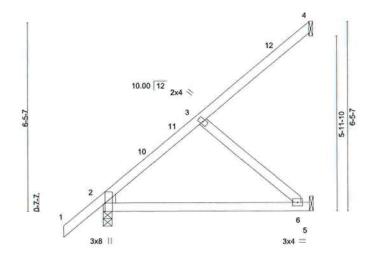


16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty HARTLEY BROTHERS - MAHN RES. T28917212 23 Jack-Partial 3287790 F.101 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:38 2022 Page 1 Builders FirstSource (Lake City,FL). Lake City, FL - 32055,

3-4-10

 $ID: RJx_oquQFtIOyRxnYGDwOmz6OgW-cf_3hbRRFgxyHv6X8nuBQT6xps?6hzjMF4z4pcyWnLR$



BRACING-

TOP CHORD

BOT CHORD

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	0.34	Vert(LL)	-0.08	6-9	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(CT)	-0.15	6-9	>547	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-MS	3.100					Weight: 34 lb	FT = 20%

LUMBER-

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

WEDGE Left: 2x4 SP No.3

REACTIONS.

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

Max Horz 2=224(LC 12)

Max Uplift 4=-60(LC 12), 2=-16(LC 12), 5=-81(LC 12) Max Grav 4=84(LC 19), 2=336(LC 1), 5=189(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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 60 lb uplift at joint 4, 16 lb uplift at joint 2 and 81 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.

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 FE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

eters 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 property 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 proper damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Qty Ply HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type T28917211 CJ07 4 3287790 Jack-Open Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

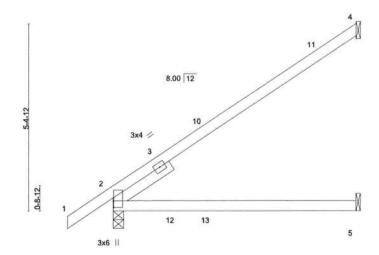
8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:37 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-8TQhUFQpUMp5flXLa3NyuGZfJSaUyXrC0QEXGAyWnLS

Structural wood sheathing directly applied or 5-10-4 oc purlins.

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

7-0-0

Scale: 3/8"=1"



BRACING-

TOP CHORD

BOT CHORD

Plate Offs	sets (X,Y)	[2:0-2-4,0-0-2]											
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	0.77	Vert(LL)	0.32	5-8	>262	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.71	Vert(CT)	0.27	5-8	>308	180	HII.		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.06	4	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	100					Weight: 29 lb	FT = 20%	

LUMBER-

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

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

REACTIONS.

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

Max Horz 2=179(LC 12)

Max Uplift 4=-108(LC 12), 2=-48(LC 9), 5=-44(LC 9) Max Grav 4=169(LC 19), 2=336(LC 1), 5=126(LC 3)

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

TOP CHORD 2-4=-326/248

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-11-4 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 4, 48 lb uplift at joint 2 and 44 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.

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

October 5,2022



MiTek

Truss Truss Type Qty Ply HARTLEY BROTHERS - MAHN RES. Joh T28917210 CJ06C Jack-Open 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:36 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-gHsJGvPBj3hE2by91MsjL20YB2JND4b3omU_kkyWnLT Scale = 1:28.3 8.00 12 3x4 /

Plate Offsets (X,Y	- [2:0-1-5,0-1-8]										
LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	V defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC	0.54	Vert(LL)	0.09	4-7	>872	240	MT20	244/190
CDL 7.0	Lumber DOL	1.25	BC	0.45	Vert(CT)	-0.16	4-7	>472	180		
BCLL 0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCDL 10.0	Code FBC2020/7	PI2014	Matri	x-MP	200005000					Weight: 24 lb	FT = 20%

LUMBER-

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

BRACING-

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

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

Max Horz 2=171(LC 12)

Max Uplift 3=-102(LC 12), 2=-48(LC 12), 4=-3(LC 12) Max Grav 3=161(LC 19), 2=317(LC 1), 4=118(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 6-5-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 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 102 lb uplift at joint 3, 48 lb uplift at joint 2 and 3 lb uplift at joint 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'Regna PE No. 88126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

1

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 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusse systems, see ANSI/P11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waktorf, MD 20601



HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty Ply T28917209 3287790 CJ06 Jack-Open Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:36 2022 Page 1 ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-gHsJGvPBj3hE2by91MsjL20ZF2J?D4b3omU_kkyWnLT

5-3-13

Scale = 1:30.5

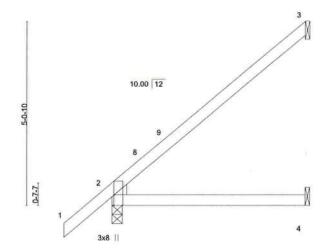


Plate Of	fsets (X,Y)	[2:0-3-8,Edge]											
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defi	L∕d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.47	Vert(LL)	0.07	4-7	>945	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(CT)	-0.07	4-7	>850	180	nativeses in		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	OCCUPIENCE SON					Weight: 22 lb	FT = 20%	

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 5-3-13 oc purlins.

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

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

Max Horz 2=184(LC 12) Max Uplift 3=-108(LC 12), 2=-15(LC 12), 4=-10(LC 12) Max Grav 3=134(LC 19), 2=276(LC 1), 4=96(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4,2psf; BCDL=3,0psf; h=20ft; Cat, II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 5-3-1 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 108 lb uplift at joint 3, 15 lb uplift at joint 2 and 10 lb uplift at joint 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

October 5,2022





HARTLEY BROTHERS - MAHN RES. Qty Ply Job Truss Truss Type T28917208 1 CJ05C Jack-Open 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:35 2022 Page 1

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-C4Jx3ZOZyIYNQRNyTfLUorUSke02UdLwZ6IQCIyWnLU

3-7-13

Scale = 1:23.3

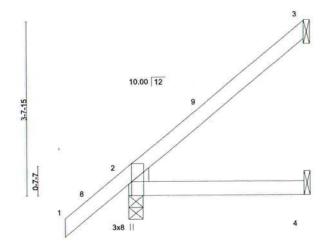


Plate Off	fsets (X,Y)-	[2:0-3-8,Edge]		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.
TCLL	20.0	Plate Grip DOL	1.25	TC 0.20
TCDL	7.0	Lumber DOL	1.25	BC 0.20
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MP

180 Vert(CT) -0.02 4-7 >999 Horz(CT) -0.01 3 n/a n/a

4-7

0.02

I/defl

>999

L/d

240

PLATES MT20

GRIP 244/190

FT = 20% Weight: 16 lb

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

BRACING-

DEFL

Vert(LL)

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 3-7-13 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

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

Max Horz 2=136(LC 12)

Max Uplift 3=-72(LC 12), 2=-21(LC 12), 4=-7(LC 12) Max Grav 3=88(LC 19), 2=218(LC 1), 4=64(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-7-1 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 72 lb uplift at joint 3, 21 lb uplift at joint 2 and 7 lb uplift at joint 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.38126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

🛕 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 and property incorporate this design into the overall building designer must verify the applicability of design parameters and property 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITPT Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



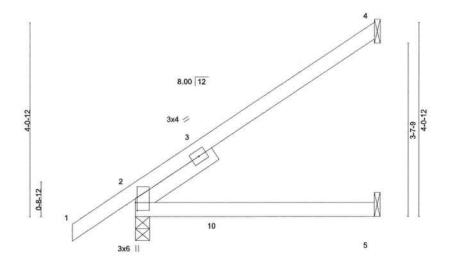
HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty Ply T28917207 3287790 CJ05A JACK-OPEN Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:34 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-kulYrDNxBRQWoHomvxpFGdxE1Ee_IA5mKS?tgryWnLV

Structural wood sheathing directly applied or 5-0-0 oc purlins.

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

Scale = 1:23.3



BRACING-

TOP CHORD

BOT CHORD

Plate Of	fsets (X,Y)	[2:0-2-0,0-0-6]											
LOADIN	IG (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1,25	TC	0.39	Vert(LL)	0.09	5-8	>663	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.38	Vert(CT)	0.08	5-8	>761	180	905092565		
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: 22 lb	FT = 20%	

LUMBER-

REACTIONS.

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

BOT CHORD

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

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

Max Horz 2=139(LC 12)

Max Uplift 4=-86(LC 12), 2=-36(LC 9), 5=-32(LC 9) Max Grav 4=118(LC 19), 2=264(LC 1), 5=88(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 4-11-4 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.
- * 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 86 lb uplift at joint 4, 36 lb uplift at joint 2 and 32 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.

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

October 5,2022

HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty Ply T28917206 JACK-OPEN **CJ05** 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:34 2022 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-kulYrDNxBRQWoHomvxpFGdxHVEgVI95mKS?tgryWnLV Scale = 1:26.7 8.00 12 3x6 / 1-9-2 5 3x4 = 2x4

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

in

-0.02

-0.04

-0.00

(loc)

5-6

5-6

I/defl

>999

>999

n/a

L/d

240

180

n/a

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

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

7.0

0.0

10.0

REACTIONS.

(size) 6=0-3-0, 3=Mechanical, 4=Mechanical

Code FBC2020/TPI2014

Max Horz 6=109(LC 12)

SPACING.

Plate Grip DOL

Rep Stress Incr

Lumber DOL

Max Uplift 6=-9(LC 12), 3=-78(LC 12), 4=-30(LC 12) Max Grav 6=254(LC 1), 3=107(LC 19), 4=85(LC 3)

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

NOTES-

1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 4-4-9 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI

TC

BC

WB 0.06

Matrix-MP

0.23

0.22

- 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.

2-0-0

1.25

1.25

YES

- 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.
- Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 9 lb uplift at joint 6, 78 lb uplift at joint 3 and 30 lb uplift at joint 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.

PLATES

Weight: 25 lb

MT20

Structural wood sheathing directly applied or 4-5-5 oc purlins,

GRIP

244/190

FT = 20%

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingloy Ridge Rd. Chosterfield, MO 63017

October 5,2022

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

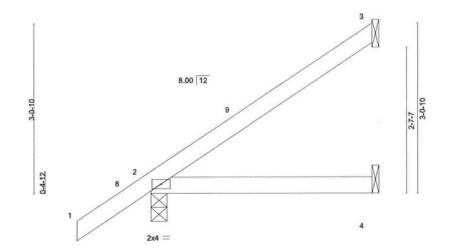
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property incorporate this design into the overall 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITEPT Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



Scale = 1:19.9



DEFL. I/defl L/d **PLATES** GRIP LOADING (psf) SPACING-2-0-0 Plate Grip DOL TC 0.17 Vert(LL) -0.01 >999 240 MT20 244/190 20.0 1.25 TCLL 0.15 1.25 Vert(CT) -0.02 >999 180 TCDL 7.0 Lumber DOL BC WB 0.00 Horz(CT) 0.00 n/a 0.0 Rep Stress Incr YES 3 n/a BCLL Code FBC2020/TPI2014 Matrix-MP Weight: 16 lb FT = 20%BCDL 10.0

LUMBER-

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

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

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

REACTIONS.

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

Max Horz 2=116(LC 12)

Max Uplift 3=-63(LC 12), 2=-43(LC 12), 4=-1(LC 12)

Max Grav 3=94(LC 19), 2=229(LC 1), 4=70(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-11-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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 63 lb uplift at joint 3, 43 lb uplift at joint 2 and 1 lb uplift at joint 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 16013 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 5,2022

A 1

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



16023 Swingley Ridge Rd Chesterfield, MO 63017

HARTLEY BROTHERS - MAHN RES. Qty Ply Job Truss Truss Type T28917204 CJ04B Jack-Open 3287790 Job Reference (optional)

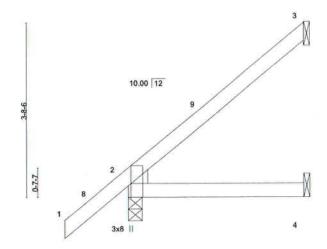
Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8,530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:32 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-nVdoRYMhfqApZzeNoWnnBCsxQR?GHGcTt8WmbzyWnLX

1-4-0

Scale = 1:23.4



(loc)

4-7

>999

>999

n/a

240

180

n/a

0.02

-0.02

-0.01

Plate Of	fsets (X,Y)	[2:0-3-8,Edge]		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.
TCLL	20.0	Plate Grip DOL	1.25	TC 0.20
TCDL	7.0	Lumber DOL	1.25	BC 0.20
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.00
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MP

BRACING-

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

TOP CHORD **BOT CHORD**

Structural wood sheathing directly applied or 3-8-5 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

PLATES

Weight: 16 lb

MT20

GRIP

244/190

FT = 20%

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=137(LC 12)

Max Uplift 3=-73(LC 12), 2=-20(LC 12), 4=-7(LC 12) Max Grav 3=89(LC 19), 2=220(LC 1), 4=65(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-7-9 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 73 lb uplift at joint 3, 20 lb uplift at joint 2 and 7 lb uplift at joint 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.55126 MiTek Ibr. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty Ply T28917203 3287790 CJ04A Jack-Open Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:32 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-nVdoRYMhfqApZzeNoWnnBCsx9R0SHGcTt8WmbzyWnLX Scale = 1:21.5 8.00 12 34-6 0-4-12 3x4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.22 Vert(LL) -0.02 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.19 Vert(CT) -0.03>999 180 0.0 BCLL Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 3 n/a n/a

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x4 SP No.2

10.0

BOT CHORD 2x4 SP No.2

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

Code FBC2020/TPI2014

Max Horz 2=127(LC 12)

Max Uplift 3=-72(LC 12), 2=-43(LC 12), 4=-1(LC 12) Max Grav 3=107(LC 19), 2=245(LC 1), 4=79(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4,2psf; BCDL=3,0psf; h=20ft; Cat, II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 4-4-11 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.

Matrix-MP

- 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 72 lb uplift at joint 3, 43 lb uplift at joint 2 and 1 lb uplift at joint 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'Rogan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022



MiTek

Weight: 17 lb

Structural wood sheathing directly applied or 4-5-7 oc purlins.

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

FT = 20%

HARTLEY BROTHERS - MAHN RES. Qty Ply Job Truss Truss Type T28917202 1 CJ04 Jack-Open 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:31 2022 Page 1

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-JJ3QDCL2uW2yxq3BEpGYe?Jmd1f_YpMKeUnD3WyWnLY

Scale = 1:23.6

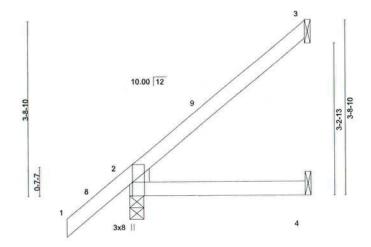


Plate Offsets (X,Y)	[2:0-3-8,Edge]							_
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.25 Lumber DOL 1.25 Rep Stress Incr YES Code FBC2020/TPI2014	CSI. TC 0.21 BC 0.20 WB 0.00 Matrix-MP	Vert(LL) Vert(CT) Horz(CT)	in 0.02 -0.02 -0.01	(loc) 4-7 4-7 3	l/defl >999 >999 n/a	L/d 240 180 n/a	

244/190 MT20

PLATES

GRIP

FT = 20% Weight: 16 lb

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-8-10 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

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

Max Horz 2=138(LC 12)

Max Uplift 3=-73(LC 12), 2=-20(LC 12), 4=-7(LC 12) Max Grav 3=90(LC 19), 2=220(LC 1), 4=66(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-7-14 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 73 lb uplift at joint 3, 20 lb uplift at joint 2 and 7 lb uplift at joint 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. Chosterfield, MO 63017

October 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 tev. 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 property 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

ANSITPT 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	HARTLEY BROTHERS - MAHN RES. T2891	17201
3287790	C103C	Jack-Open	1	1	Job Reference (optional)	
Builders FirstSou	rce (Lake City,FL), Lake	City, FL - 32055,	ID:RJx_oquQFtlOyR		ug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:30 2022 Page mz6OgW-r7V20sKQ7Dw5KgU?g5IJ5nmcHdM6pM6APq1fX4yWnL	

Scale = 1:16.6

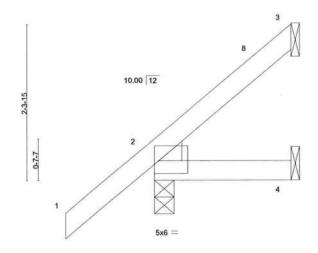


Plate Off	fsets (X,Y) [2:Edge,0-2-5]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.00	7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	324 APT 1970 191 192 197 197 197	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 10 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=90(LC 12)

Max Uplift 3=-36(LC 12), 2=-30(LC 12), 4=-2(LC 12) Max Grav 3=41(LC 19), 2=170(LC 1), 4=33(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 1-11-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 3, 30 lb uplift at joint 2 and 2 lb uplift at joint 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

October 5,2022

iters 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

ANS/TPH Quality Criteria, DSB-89 and BCSI Building Composafety Information

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



Structural wood sheathing directly applied or 2-0-10 oc purlins.

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

16023 Swingley Ridge Rd Chesterfield, MO 63017

Qty HARTLEY BROTHERS - MAHN RES. Ply Truss Type Job Truss T28917200 3287790 CJ03B Jack-Open

Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Job Reference (optional)

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:29 2022 Page 1

ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-NwxfoWKoMvoEiWwo6OE4ZaERXD0r4ws1BAl6_eyWnLa

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

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

1-4-0

Scale = 1:16.8

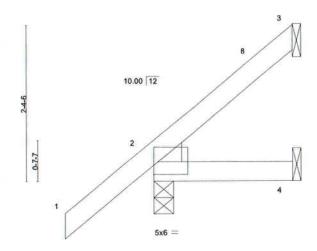


Plate Off	sets (X,Y)	[2:Edge,0-2-5]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	-0.00	7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1,25	BC	0.05	Vert(CT)	-0.00	7	>999	180	A300000000	
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a	(0.0000) (0.000	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 11 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=91(LC 12)

Max Uplift 3=-37(LC 12), 2=-30(LC 12), 4=-3(LC 12) Max Grav 3=42(LC 19), 2=171(LC 1), 4=34(LC 3)

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

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 2-0-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) 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 37 lb uplift at joint 3, 30 lb uplift at joint 2 and 3 lb uplift at joint 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 63917

October 5,2022

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 properly 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	HARTLEY BROTHERS - MAHN RES.
333		1		20	T289°
3287790	CJ03A	JACK-OPEN	4	1	
		100 700 700 700 700 700 700 700 700 700			Job Reference (optional)
Builders FirstSource	e (Lake City,FL), Lake	City, FL - 32055,			g 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:29 2022 Page

Scale = 1:16.7

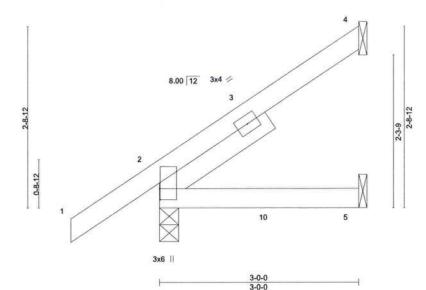


Plate Off	late Offsets (X,Y) [2:0-2-0,0-0-2]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.15	Vert(LL)	0.01	5-8	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.12	Vert(CT)	-0.01	5-8	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP						Weight: 15 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

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

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

Max Horz 2=94(LC 12)

Max Uplift 4=-51(LC 12), 2=-32(LC 12), 5=-18(LC 9)

Max Grav 4=65(LC 19), 2=197(LC 1), 5=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=20ft; 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 2-11-4 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 4, 32 lb uplift at joint 2 and 18 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.

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

October 5,2022





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

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

Truss Type Qty Ply HARTLEY BROTHERS - MAHN RES. Truss Job T28917198 CJ03 JACK-OPEN 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:28 2022 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL),

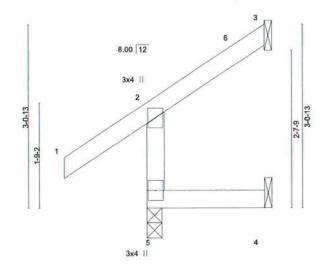
ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-vkOHbAJAcbgN4MLcZgjr0MhDOqekLTcuyWYZSCyWnLb

Structural wood sheathing directly applied or 1-11-8 oc purlins,

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

except end verticals.

Scale = 1:18.5



LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.25	TC	0.33	Vert(LL)	-0.00	4-5	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.00	4-5	>999	180		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.02	3	n/a	n/a	10-000-00-100-00 8-100-00-	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MR	200600 2500000					Weight: 11 lb	FT = 20%

1-11-8

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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=66(LC 9)

Max Uplift 5=-5(LC 12), 3=-44(LC 12), 4=-19(LC 12) Max Grav 5=183(LC 1), 3=36(LC 19), 4=35(LC 10)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 1-11-6 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 5 lb uplift at joint 5, 44 lb uplift at joint 3 and 19 lb uplift at joint 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'Regen PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

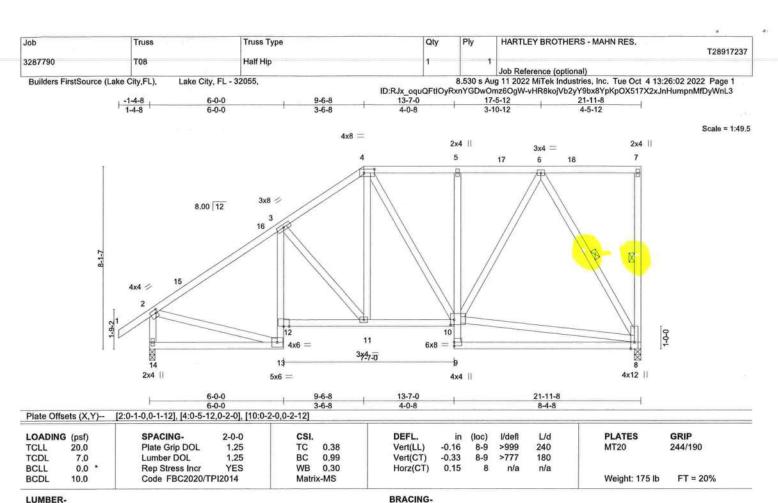
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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

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





TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

5-9: 2x4 SP No.3

WEBS 2x4 SP No.3

REACTIONS.

(size) 8=0-3-8, 14=0-3-0 Max Horz 14=228(LC 12)

Max Uplift 8=-215(LC 9), 14=-190(LC 12) Max Grav 8=799(LC 1), 14=887(LC 1)

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

2-3=-894/195, 3-4=-830/254, 4-5=-601/194, 5-6=-597/193, 2-14=-857/220

TOP CHORD

13-14=-264/163, 11-12=-338/749, 10-11=-239/638

BOT CHORD

WEBS

4-11=-127/336, 8-10=-120/267, 6-10=-170/472, 6-8=-746/234, 2-13=-38/618

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-8 to 1-7-8, Interior(1) 1-7-8 to 9-6-8, Exterior(2R) 9-6-8 to 13-8-12, Interior(1) 13-8-12 to 21-9-12 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=215, 14=190.

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

October 5,2022



MiTek

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

7-8, 6-8

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

except end verticals.

1 Row at midpt

Job	Truss	Truss Type	Qty	Ply	HARTLEY BROTHERS - MAHN RES.	T28917236
3287790	T07	HALF HIP GIRDER	1	1		1,200.11.200
3231111	15.75%	Statement Association (Control of Control of			Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

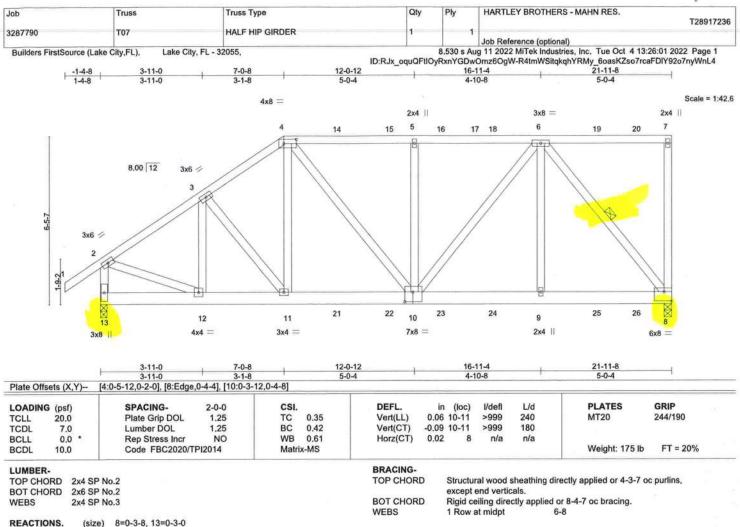
8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:01 2022 Page 2 $ID: RJx_oquQFtIOyRxnYGDwOmz6OgW-R4tmWSitqkqhYRMy_6oasKZso7rcaFDIY92o7nyWnL4\\$

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 11=-400(B) 9=-154(B) 6=-22(B) 14=-22(B) 15=-22(B) 16=-22(B) 18=-22(B) 19=-22(B) 20=-22(B) 21=-154(B) 22=-154(B) 23=-154(B) 24=-154(B) 25=-154(B)





(size) 8=0-3-8, 13=0-3-0

Max Horz 13=172(LC 8) Max Uplift 8=-891(LC 5), 13=-675(LC 8)

Max Grav 8=1773(LC 1), 13=1543(LC 1)

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

2-3=-1553/718, 3-4=-1714/879, 4-5=-1609/839, 5-6=-1613/841, 2-13=-1484/672 TOP CHORD

BOT CHORD

11-12=-704/1239, 10-11=-766/1395, 9-10=-587/1163, 8-9=-587/1163

3-12=-450/247, 3-11=-293/335, 4-11=-276/502, 4-10=-220/395, 5-10=-338/223,

WEBS

6-10=-407/714, 6-9=-211/594, 6-8=-1838/926, 2-12=-540/1280

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.
- * 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) 8=891, 13=675.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 61 lb up at 9-1-4, 72 lb down and 61 lb up at 11-1-4, 72 lb down and 61 lb up at 13-1-4, 72 lb down and 59 lb up at 15-1-4, 72 lb down and 61 lb up at 17-1-4, and 72 lb down and 61 lb up at 19-1-4, and 72 lb down and 61 lb up at 20-7-4 on top chord, and 422 lb down and 327 lb up at 7-0-8, 158 lb down and 101 lb up at 9-1-4, 158 lb down and 101 lb up at 11-1-4, 158 lb down and 101 lb up at 13-1-4. 158 lb down and 101 lb up at 15-1-4, 158 lb down and 101 lb up at 17-1-4, and 158 lb down and 101 lb up at 19-1-4, and 158 lb down and 101 lb up at 20-7-4 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: 1-2=-54, 2-4=-54, 4-7=-54, 8-13=-20

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

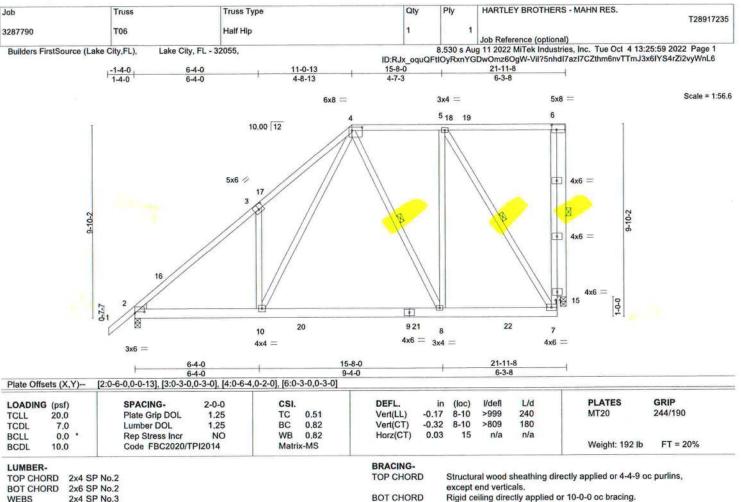
October 5,2022

Continued on page 2

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

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





WEBS

1 Row at midpt

4-8, 5-7, 6-15

WEBS

2x6 SP No.2 OTHERS WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 2=0-3-8, 15=0-3-8

Max Horz 2=352(LC 12)

Max Uplift 2=-241(LC 12), 15=-289(LC 12) Max Grav 2=1262(LC 19), 15=1147(LC 2)

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

TOP CHORD 2-3=-1622/290, 3-4=-1666/500, 4-5=-673/187, 7-11=-263/1033, 6-11=-263/1033

2-10=-436/1236, 8-10=-257/732, 7-8=-187/673 **BOT CHORD**

WEBS 3-10=-336/290, 4-10=-390/1116, 5-8=-179/866, 5-7=-1180/333, 6-15=-1149/290

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-0-13, Exterior(2R) 11-0-13 to 15-3-11, Interior(1) 15-3-11 to 21-4-4 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) 15 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 (it=lb) 2=241, 15=289.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-6=-54, 10-12=-20, 8-10=-80(F=-60), 7-8=-20

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

October 5,2022

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

Design valid for use only with MTek® 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 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/TPI 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	HARTLEY BROTHERS - MAHN RES.	T28917234
3287790	T05	Roof Special	1		Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-1VCduRg_XpS7hzdNJ_FtEhxJGwjZNrklsBp8WSyWnL7

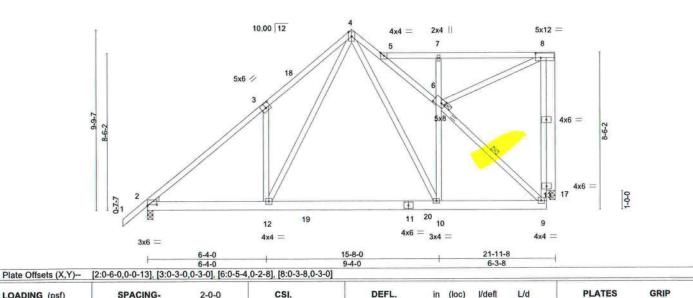
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25 Uniform Loads (plf)

Vert: 1-4=-54, 4-5=-54, 5-8=-54, 12-14=-20, 10-12=-80(F=-60), 9-10=-20



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job Truss Truss Type Qty Ply HARTLEY BROTHERS - MAHN RES. T28917234 T05 Roof Special 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:58 2022 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-1VCduRg_XpS7hzdNJ_FtEhxJGwjZNrklsBp8WSyWnL7 21-11-8 11-0-0 12-6-6 3-1-10 4x6 ||



Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

-0.18 10-12

-0.33 10-12

17

0.03

240

180

n/a

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

>999

>785

except end verticals.

1 Row at midpt

1 Brace at Jt(s): 6

n/a

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

7.0

10.0

0.0 *

2x4 SP No.3 WEBS 2x6 SP No.2 **OTHERS** WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=324(LC 12)

Max Uplift 2=-223(LC 12), 17=-266(LC 13) Max Grav 2=1278(LC 19), 17=1135(LC 19)

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

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

TOP CHORD 2-3=-1648/264, 3-4=-1670/467, 4-5=-1274/315, 5-6=-1077/294, 5-7=-253/62,

1 25

1.25

NO

TC

BC

WB

Matrix-MS

0.50

0.83

0.79

7-8=-257/63, 9-13=-196/956, 8-13=-196/956

BOT CHORD 2-12=-388/1262, 10-12=-213/772, 9-10=-247/1062 3-12=-303/282, 4-12=-383/1090, 4-10=-179/736, 6-7=-332/154, 6-9=-1373/315, WEBS

8-17=-1138/267

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-0-0, Exterior(2E) 11-0-0 to 12-5-12, Interior(1) 12-5-12 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) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=223 17=266.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 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

🛦 WARNING - Verily 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, eraction and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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.

244/190

FT = 20%

MT20

Structural wood sheathing directly applied or 4-3-14 oc purlins,

Weight: 196 lb

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

October 5,2022



Continued on page 2

Job	Truss	Truss Type	Qty	Ply	HARTLEY BROTHERS - MAHN RES.	
			1			T28917233
3287790	T04	Roof Special	1			
					Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:57 2022 Page 2 ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-YJeFg5fMmWKG3p3BlGkehUO7hWOHeOQ9dX4b_0yWnL8

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (pif)
Vert: 1-4=-54, 4-5=-54, 5-8=-54, 12-14=-20, 10-12=-80(F=-60), 9-10=-20

Truss Type Ply HARTLEY BROTHERS - MAHN RES. Qty Truss Job T28917233 Roof Special 3287790 T04 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:57 2022 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-YJeFg5fMmWKG3p3BiGkehUO7hWOHeOQ9dX4b_0yWnL8 21-11-8 11-0-0 14-1-10 4-8-0 3-1-10 Scale = 1:61,6 4x6 || 10.00 12 2x4 || 7x10 = 4x4 = 7 8 5x6 / 4x6 = 17 11 19 20 9 10 12 4x6 = 4x4 = 4x4 = 3x6 = 4x4 = 15-8-0 21-11-8 6-4-0 Plate Offsets (X,Y)--[2:0-6-0,0-0-13], [3:0-3-0,0-3-0], [6:0-5-4,0-2-8], [8:0-1-8,Edge] GRIP PLATES SPACING-2-0-0 DEFL (loc) I/defl L/d LOADING (psf) 244/190 20.0 Plate Grip DOL 1.25 TC 0.55 Vert(LL) -0.18 10-12 >999 240 MT20 TCLL BC 0.83 Vert(CT) -0.34 10-12 >773 180 TCDL 7.0 Lumber DOL 1.25 0.0 * WB 0.79 Horz(CT) 0.03 17 n/a n/a BCLL Rep Stress Incr Weight: 185 lb FT = 20%Code FBC2020/TPI2014 Matrix-MS BCDL 10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

OTHERS 2x6 SP No.2 WEDGE

Left: 2x4 SP No.3

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

Max Horz 2=298(LC 12)

Max Uplift 2=-232(LC 12), 17=-250(LC 13) Max Grav 2=1274(LC 19), 17=1138(LC 19)

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

2-3=-1645/278, 3-4=-1673/482, 4-5=-1507/389, 5-6=-1332/378, 9-13=-200/1024, TOP CHORD

8-13=-200/1024

2-12=-372/1270, 10-12=-197/774, 9-10=-253/1156 BOT CHORD

3-12=-314/284, 4-10=-256/916, 6-9=-1475/320, 6-10=-266/195, 6-7=-344/160, WEBS

4-12=-385/1103, 8-17=-1142/252

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-0-0, Exterior(2E) 11-0-0 to 14-1-0, Interior(1) 14-1-0 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) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=232, 17=250.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord. 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

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.

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

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

except end verticals.

1 Row at midpt

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

October 5,2022

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system, Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly 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 Qtv Ply HARTLEY BROTHERS - MAHN RES. T28917232 T03 3287790 Roof Special Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:56 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-474tTlek0CCPRgU?CZDP9Gryw61Xvx9?OtK1RayWnL9 11-0-0 15-8-13 4-8-13 Scale = 1:61.6 4x6 || 10,00 12 5x8 = 4x12 = 6 4x6 = 15 9 19 18 10 8 4x6 = 4x4 = 4x6 = 3x6 = 4x4 = 15-8-13 21-11-8 Plate Offsets (X,Y)-[2:0-6-0,0-0-13], [3:0-3-0,0-3-0], [6:0-3-0,0-3-0] LOADING (psf) SPACING-DEFL l/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.61 Vert(LL) -0.19 8-10 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.86 Vert(CT) -0.36 8-10 >726 180 BCLL 0.0 Rep Stress Incr NO WB 0.79 Horz(CT) 0.03 15 n/a

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

BCDL

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

10.0

WEBS 2x4 SP No.3 **OTHERS** 2x6 SP No.2

WEDGE

Left: 2x4 SP No.3

REACTIONS.

(size) 2=0-3-8, 15=0-3-8

Max Horz 2=272(LC 12)

Max Uplift 2=-241(LC 12), 15=-240(LC 13) Max Grav 2=1276(LC 19), 15=1151(LC 19)

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

Code FBC2020/TPI2014

TOP CHORD 2-3=-1654/292, 3-4=-1685/494, 4-5=-1592/400, 7-11=-185/1043, 6-11=-185/1043

BOT CHORD 2-10=-356/1287, 8-10=-180/781, 7-8=-236/1191

WEBS

3-10=-317/283, 4-10=-385/1124, 4-8=-259/944, 5-7=-1502/299, 6-15=-1158/242

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 21-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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) 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) Bearing at joint(s) 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=241, 15=240.
- 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: 1-4=-54, 4-5=-54, 5-6=-54, 10-12=-20, 8-10=-80(F=-60), 7-8=-20

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

October 5,2022

🛕 WARNING - Verity 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

**ANSITPH Quality Criteria, DSB-89 and BCSI Building Composition available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waktorf, MD 20601



Weight: 168 lb

Structural wood sheathing directly applied or 4-3-13 oc purlins,

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

except end verticals

1 Row at midpt

FT = 20%

16023 Swingley Ridge Rd Chesterfield, MO 63017

Truss Truss Type Qty Ply HARTLEY BROTHERS - MAHN RES. Job T28917231 3287790 T02 Common 1 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:55 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-cwWUGPe6Fu4YqWvoeriAc3JpRihlAUYs9DbUv7yWnLA 11-0-0 15-8-0 4-8-0 22-0-0 4-8-0

4x6 ||

Scale = 1:60.0

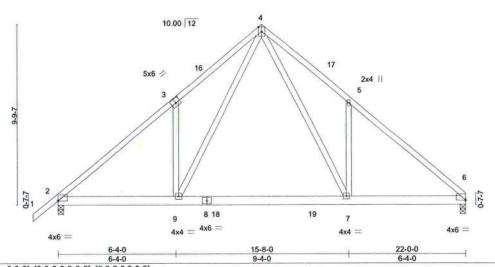


Plate Offsets (X,Y)--[2:Edge,0-0-3], [3:0-3-0,0-3-0], [6:0-0-0,0-0-3] GRIP PLATES LOADING (psf) SPACING-CSI. DEFL. V/defl L/d 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.47 Vert(LL) -0.18 7-9 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.83 Vert(CT) -0.347-9 >787 180 BCLL 0.0 * Rep Stress Incr NO WB 0.82 Horz(CT) 0.02 6 n/a n/a Code FBC2020/TPI2014 Weight: 143 lb FT = 20%BCDL 10.0 Matrix-MS

LUMBER-

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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 4-3-14 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 6=0-3-8, 2=0-3-8 Max Horz 2=218(LC 11)

Max Uplift 6=-225(LC 13), 2=-255(LC 12) Max Grav 6=1208(LC 20), 2=1277(LC 19)

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

TOP CHORD 2-3=-1668/326, 3-4=-1682/516, 4-5=-1695/527, 5-6=-1670/327

BOT CHORD 2-9=-269/1322, 7-9=-94/822, 6-7=-183/1229

WEBS 4-7=-397/1130, 5-7=-324/290, 4-9=-383/1111, 3-9=-318/285

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 22-0-0 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=225, 2=255.
- 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

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

Vert: 1-4=-54, 4-6=-54, 9-13=-20, 7-9=-80(F=-60), 7-10=-20

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 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Detection of the Company of the Company

October 5,2022

1

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

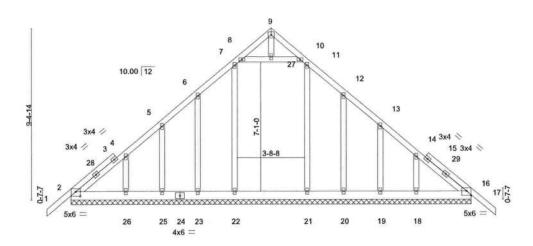
Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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 occllapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waklorf, MD 20601



Job	Truss		Truss Type	Qty	Ply	HARTLEY BROTHERS - MAHN RES. T289172
3287790	T01G		Common Supported Gable	1	1	Job Reference (optional)
Builders FirstSou	rce (Lake City,FL),	Lake City, F	L - 32055,	ID:RJx_oquQFtIO		ig 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:54 2022 Page 1 Dmz6OgW-8ky623dUUbyhCMKc48Ax4rmkOIYcRBhjxZrxNhyWnLB
		-1-4-0	11-0-0		2	22-0-0 23-4-0
		1-4-0	11-0-0			11-0-0 1-4-0

4x4 =

Scale = 1:60.9



22-0-0

22-0-0 Plate Offsets (X,Y)-- [2:0-3-0,0-2-15], [16:0-3-0,0-2-15] SPACING-CSI. DEFL. in I/defl L/d **PLATES** LOADING (psf) 2-0-0 (loc)

GRIP Plate Grip DOL 1.25 TC 0.10 Vert(LL) -0.00 17 n/r 120 MT20 244/190 20.0 TCLL -0.00 120 TCDL 1.25 BC 0.06 Vert(CT) n/r 7.0 Lumber DOL Rep Stress Incr YES WB 0.15 Horz(CT) 0.00 16 n/a BCLL 0.0 Weight: 169 lb FT = 20% BCDL Code FBC2020/TPI2014 Matrix-S 10,0

LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings 22-0-0.

Max Horz 2=-218(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 22, 23, 25, 26, 20, 19, 18

Max Grav All reactions 250 lb or less at joint(s) 2, 16, 23, 25, 26, 20, 19, 18 except 22=314(LC 19), 21=284(LC

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 11-0-0, Corner(3R) 11-0-0 to 14-0-0, Exterior(2N) 14-0-0 to 23-4-0 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.
- * 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, 16, 22, 23, 25, 26, 20, 19, 18,

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

October 5,2022

sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev, 5/19/2020 BEFORE USE.

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

HARTLEY BROTHERS - MAHN RES. Ply Truss Type Qty Job Truss T28917229 COMMON 3287790 T01 1 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:53 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-gYOkrjcsjHqqaClQWQfiXeDTxv?FiaSZiv6NrFyWnLC Builders FirstSource (Lake City,FL). Lake City, FL - 32055, 11-0-0 22-0-0 4-8-0 4-8-0 Scale = 1:60.0 4x6 || 10.00 12 5x6 8-8-9 9 19 20 10 8 4x6 = 3x6 = 4×4 = 4×4 = 3x6 = 22-0-0 6-4-0 [2:0-6-0,0-0-13], [3:0-3-0,0-3-0], [5:0-3-0,0-3-0], [6:0-6-0,0-0-13] Plate Offsets (X,Y)--**PLATES** GRIP

DEFL.

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

(loc)

8-10

8-10

-0.18

-0.34

0.02

I/defl

>999

>783

L/d

240

180

n/a

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

MT20

Structural wood sheathing directly applied or 4-3-15 oc purlins.

Weight: 146 lb

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

LOADING (psf)

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

20.0

7.0

0.0

10.0

WEDGE

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

REACTIONS.

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

Max Horz 2=-226(LC 10)

Max Uplift 2=-254(LC 12), 6=-254(LC 13) Max Grav 2=1276(LC 19), 6=1276(LC 20)

SPACING-

Plate Grip DOL

Rep Stress Incr

Code FBC2020/TPI2014

Lumber DOL

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

TOP CHORD

2-3=-1665/325, 3-4=-1681/515, 4-5=-1681/515, 5-6=-1665/325 2-10=-252/1333, 8-10=-77/833, 6-8=-166/1238

BOT CHORD

WEBS

4-8=-384/1112, 5-8=-318/285, 4-10=-384/1112, 3-10=-318/285

2-0-0

1,25

1.25

NO

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 11-0-0, Exterior(2R) 11-0-0 to 14-0-0, Interior(1) 14-0-0 to 23-4-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

CSI.

TC

BC

WB 0.79

Matrix-MS

0.47

0.84

- 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 254 lb uplift at joint 2 and 254 lb uplift at
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-4=-54, 4-7=-54, 10-11=-20, 8-10=-80(F=-60), 8-14=-20

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

October 5,2022



eters 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSUTP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Truss Truss Type Qty Plv HARTLEY BROTHERS - MAHN RES. Job T28917228 PR03 PIGGYBACK 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:52 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-CMqMdNbDyzizz2ADzj8T?QhPcVsSzJJQTFMqlpyWnLD 5-6-0 5-6-0 Scale = 1:13.1 4x4 = 8.00 12 0-4-7 0-4-7 2x4 || 2x4 = 2x4 = **PLATES** GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL l/defl L/d Plate Grip DOL 1.25 TC 0.06 Vert(LL) 0.00 n/r 120 MT20 244/190 TCLL 20.0 1.25 BC 0.04 Vert(CT) 0.00 5 n/r 120 Lumber DOL TCDL 7.0 YES WB 0.02 Horz(CT) 0.00 n/a n/a 0.0 Rep Stress Incr BCLL Weight: 17 lb FT = 20% Code FBC2020/TPI2014 Matrix-P BCDL 10.0

> **BRACING-**TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) 2=3-11-12, 4=3-11-12, 6=3-11-12

Max Horz 2=36(LC 11)

Max Uplift 2=-36(LC 12), 4=-40(LC 13), 6=-8(LC 12) Max Grav 2=108(LC 1), 4=108(LC 1), 6=131(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 2, 40 lb uplift at joint 4
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building

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'Rogan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chestorfield, MO 63017 Date:

MiTek 16023 Swingley Ridge Rd Chesterfield, MO 63017

October 5,2022

Structural wood sheathing directly applied or 5-6-0 oc purlins.

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

HARTLEY BROTHERS - MAHN RES. Truss Truss Type Qty Ply Job T28917227 PB02 GABLE 10 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:51 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-k9H_Q1bbBgZ6Lub1P0dESD8BH5UpEsZGFbdGmMyWnLE Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Scale = 1:22.7 4x4 = 3 8.00 12 ⁴ 5 2x4 = 2x4 || Plate Offsets (X,Y)-[2:0-2-1,0-1-0], [4:0-2-1,0-1-0] CSI. DEFL. I/defl L/d PLATES GRIP LOADING (psf) SPACING-2-0-0 in (loc) Vert(LL) 0.01 120 244/190 Plate Grip DOL TC 0.22 n/r 1.25 TCLL 20.0 BC 0.19 Vert(CT) 0.01 n/r 120 1.25 5 TCDL 7.0 Lumber DOL WB 0.05 Horz(CT) 0.00 n/a Rep Stress Incr n/a 0.0 YES BCLL Weight: 36 lb FT = 20% Code FBC2020/TPI2014 Matrix-S BCDL 10.0 BRACING-LUMBER-

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

TOP CHORD **BOT CHORD**

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

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

REACTIONS.

(size) 2=8-11-12, 4=8-11-12, 6=8-11-12

Max Horz 2=-73(LC 10)

Max Uplift 2=-53(LC 12), 4=-63(LC 13), 6=-45(LC 12) Max Grav 2=190(LC 1), 4=190(LC 1), 6=337(LC 1)

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

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 3-3-5, Interior(1) 3-3-5 to 5-3-0, Exterior(2R) 5-3-0 to 8-3-0, Interior(1) 8-3-0 to 10-2-11 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 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 53 lb uplift at joint 2, 63 lb uplift at joint 4 and 45 lb uplift at joint 6.
- 10) 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

October 5,2022



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MII-7473 ray, 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

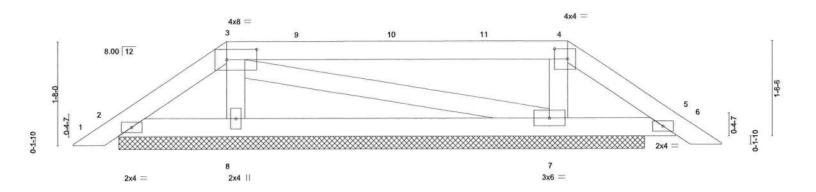
ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information



16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type		Qty	Ply	HARTLEY BROTHERS - MAHN RES.
		N 100 C C C C C C C C C C C C C C C C C C				T28917226
3287790	PB01	PIGGYBACK		1	1	
Section 1999						Job Reference (optional)
Builders FirstSour	rce (Lake City.FL). Lake	City, FL - 32055,			8.530 s Au	ug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:50 2022 Page 1
Danacio i natesar	to (Edito Oily), E/i	0.1,1,2 02.001	ID	:RJx oquC		GDwOmz6OgW-GzjbCiazQMRFjl0rrl6?v?b?2h92VPI70ytjEwyWnLF
	2-6-0	Y	8-0-0			10-6-0
	2-6-0	<u></u>	5-6-0			2-6-0

Scale = 1:17.9



-							10-6-0						
Plate Offse	ets (X,Y)	-	[3:0-5-12,0-2-0], [4:0-2-8	,0-2-0]								,	
LOADING	(psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defi	L/d	PLATES	GRIP
TCLL	20.0		Plate Grip DOL	1.25	TC	0.32	Vert(LL)	-0.00	5	n/r	120	MT20	244/190
TCDL	7.0		Lumber DOL	1.25	BC	0.16	Vert(CT)	-0.00	5	n/r	120	100000000000000000000000000000000000000	
BCLL BCDL	0.0 *		Rep Stress Incr Code FBC2020/T	YES PI2014	WB Matri	0.05 k-S	Horz(CT)	0.00	7	n/a	n/a	Weight: 41 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 WEBS

OTHERS 2x4 SP No.3

REACTIONS.

(size) 2=8-5-12, 7=8-5-12, 8=8-5-12

Max Horz 2=-33(LC 10)

Max Uplift 2=-28(LC 12), 7=-69(LC 13), 8=-66(LC 9) Max Grav 2=57(LC 23), 7=372(LC 24), 8=307(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-5 to 2-7-12, Exterior(2R) 2-7-12 to 6-10-11, Interior(1) 6-10-11 to 8-0-0, Exterior(2E) 8-0-0 to 10-2-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 28 lb uplift at joint 2, 69 lb uplift at joint 7 and 66 lb uplift at joint 8.
- 8) N/A
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building

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.

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

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

Philip J. O'Regan PE No. S8126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

aters 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 ocllapse with possible personal injury and properly amage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPH 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	HARTLEY BROTHERS - MAHN RES.	T28917225
3287790	HJ10A	DIAGONAL HIP GIRDER	2	1		120017220
and a contract of	(35-439-5610	10 Secret 14-100 (1980-11 (199		177	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:49 2022 Page 2 ID:RJx_oquQFtIOyRxnYGDwOmz60gW-nn9D?MZLf2JO6bReHbbmNo3kAHiHmsHznl8AiUyWnLG

LOAD CASE(S) Standard

Uniform Loads (plf) Vert: 1-5=-54, 6-9=-20

Concentrated Loads (lb)

Vert: 7=-135(F=-67, B=-67) 13=-1(F=-0, B=-0) 14=-74(F=-37, B=-37) 16=-224(F=-112, B=-112) 18=-10(F=-5, B=-5) 19=-62(F=-31, B=-31)



Truss Type Qty Ply HARTLEY BROTHERS - MAHN RES. Truss Job T28917225 DIAGONAL HIP GIRDER 2 HJ10A 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:49 2022 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-nn9D?MZLf2JO6bReHbbmNo3kAHiHmsHznl8AiUyWnLG -1-10-10 1-10-10 Scale = 1:30.8 14 5.66 12 3x4 = 13 3x4 = 0-8-12 19 7 17 18 8 3x4 = 62x4 || 3x6 || 10-6-8 0-0-12 10-5-12 Plate Offsets (X,Y)--[2:0-1-12,0-0-6] CSI. DEFL. I/defl L/d **PLATES** GRIP LOADING (psf) SPACING-2-0-0 in (loc) Vert(LL) 0.09 >999 240 MT20 244/190 Plate Grip DOL 1.25 TC 0.65 7-8 TCLL 20.0 1.25 BC 0.58 Vert(CT) -0.127-8 >999 180 TCDL 7.0 Lumber DOL WB 0.42 -0.01 NO Horz(CT) 5 n/a n/a 0.0 Rep Stress Incr BCLL Weight: 51 lb FT = 20% Code FBC2020/TPI2014 Matrix-MS BCDL 10.0

BRACING-

TOP CHORD BOT CHORD

LUMBER-

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

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

REACTIONS.

(size) 5=Mechanical, 2=0-4-9, 6=Mechanical

Max Horz 2=186(LC 8)

Max Uplift 5=-243(LC 8), 2=-253(LC 8), 6=-317(LC 8) Max Grav 5=338(LC 1), 2=562(LC 1), 6=493(LC 3)

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

TOP CHORD

2-4=-585/344

BOT CHORD 2-8=-399/542, 7-8=-399/542 WEBS 4-8=-106/305, 4-7=-623/459

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 5, 253 lb uplift at joint 2 and 317 lb uplift at joint 6.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 56 lb down and 9 lb up at 1-6-1, 56 lb down and 9 lb up at 1-6-1, 78 lb down and 54 lb up at 4-4-0, 78 lb down and 54 lb up at 4-4-0, 105 lb down and 97 lb up at 7-1-15, 105 lb down and 97 lb up at 7-1-15, and 117 lb down and 120 lb up at 9-11-14, and 117 lb down and 120 lb up at 9-11-14 on top chord, and 33 lb down and 48 lb up at 1-6-1, 33 lb down and 48 lb up at 1-6-1, 19 lb down and 27 lb up at 4-4-0, 19 lb down and 47 lb up at 9-11-15, 41 lb down and 47 lb up at 7-1-15, and 88 lb down and 63 lb up at 9-11-14, and 88 lb down and 63 lb up at 9-11-14 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

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.

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

Rigid ceiling directly applied or 8-11-7 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:

October 5,2022

Continued on page 2

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

Design valid for use only with MITEK® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and property 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



HARTLEY BROTHERS - MAHN RES. Truss Truss Type Qty Ply T28917224 DIAGONAL HIP GIRDER 1 **HJ10** 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:48 2022 Page 1 Lake City, FL - 32055 Builders FirstSource (Lake City,FL), ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-Jabrn0YjulBXURtSkt4XqaWemuP51ROqYeOc91yWnLH 4-4-0 Scale = 1:36.8 13 6 25 12 3x6 = 11 10 3x8 = 1-8-15 \mathbb{X} 16 7 15 6 5 3x4 = 2x4 || 3x4 = 8-10-14 8-11-10 0-0-12 GRIP CSI. DEFL I/defl L/d PLATES SPACING-2-0-0 (loc) LOADING (psf) -0.03 6-7 >999 240 MT20 244/190 Plate Grip DOL 1 25 TC 0.37 Vert(LL) TCLL 20.0 -0.06 6-7 >999 180 BC 0.39 Vert(CT) 1.25 TCDL 7.0 Lumber DOL Rep Stress Incr -0.00 n/a n/a WB 0.27 Horz(CT) BCLL 0.0 NO Weight: 54 lb FT = 20% Code FBC2020/TPI2014

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

BCDL

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

10.0

2x4 SP No.3 *Except* WEBS

2-8: 2x6 SP No.2

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

Max Horz 8=151(LC 23)

Max Uplift 8=-187(LC 4), 4=-131(LC 10), 5=-194(LC 8) Max Grav 8=493(LC 29), 4=164(LC 1), 5=314(LC 29)

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

TOP CHORD 2-8=-465/189, 2-3=-444/197

BOT CHORD 6-7=-241/323

WEBS 2-7=-175/375, 3-6=-424/316

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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.

Matrix-MS

- 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 187 lb uplift at joint 8, 131 lb uplift at joint 4 and 194 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 65 lb down and 47 lb up at 1-3-12, 85 lb down and 53 lb up at 2-7-1, 92 lb down and 91 lb up at 3-10-8, 102 lb down and 99 lb up at 5-9-7, and 109 lb down and 130 lb up at 6-5-4, and 55 lb down and 70 lb up at 8-10-14 on top chord, and 19 lb down and 8 lb up at 1-3-12, 25 lb down and 23 lb up at 2-7-1, 37 lb down and 19 lb up at 3-10-8, and 55 lb down and 43 lb up at 5-9-7, and 55 lb down and 27 lb up at 6-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-54, 2-4=-54, 5-8=-20

Concentrated Loads (lb)

Vert: 4=-43(B) 11=-11(B) 12=-13(F) 13=-52(B) 14=1(B) 15=3(F) 16=-16(B) 17=-10(F) 18=-39(B)

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.

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

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

except end verticals

Philip J. O'Regan PE No.88126 MiTek Inc. DBA MiTek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 tov. 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 property 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, oraction 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	HARTLEY BROTHERS - MAHN RES.	T28917223
3287790	HJ09C	Diagonal 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. Tue Oct 4 13:25:47 2022 Page 2 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-rO1TagY57R3gsHIGAAYIIN_TbU4dI0IhK_f3dbyWnLI

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 6=-58(F) 13=-4(F) 14=-9(B) 15=-96(F) 16=5(F) 17=1(B) 18=-13(F) 19=-15(B)

HARTLEY BROTHERS - MAHN RES. Qty Ply Job Truss Truss Type T28917223 3287790 HJ09C Diagonal Hip Girder 1 Job Reference (optional) 8,530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:47 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-rO1TagY57R3gsHIGAAYIIN_TbU4dl0lhK_f3dbyWnLI 4-0-0 Scale = 1:29.9 6.25 12 3x6 = 13 12 0-7-7 19 5 3x8 || 2x4 | 3x4 = Plate Offsets (X,Y)-- [2:0-3-8,Edge] SPACING-CSI. DEFL. I/defi L/d PLATES GRIP LOADING (psf) 2-0-0 in (loc) Plate Grip DOL 1.25 TC 0.33 Vert(LL) -0.02 6-7 >999 240 MT20 244/190 20.0 TCLL -0.05 180 Lumber DOL 1.25 BC 0.34 Vert(CT) 6-7 >999 TCDL 7.0 0.0 Rep Stress Incr NO WB 0.19 Horz(CT) -0.01 n/a n/a BCLL Code FBC2020/TPI2014 Weight: 41 lb FT = 20%BCDL 10.0 Matrix-MS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS. (size) 4=Mechanical, 2=0-4-11, 5=Mechanical

Max Horz 2=170(LC 8)

Max Uplift 4=-136(LC 10), 2=-135(LC 8), 5=-113(LC 8) Max Grav 4=188(LC 1), 2=457(LC 1), 5=300(LC 29)

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

TOP CHORD 2-3=-490/132

BOT CHORD 2-7=-200/366, 6-7=-200/366

WEBS 3-6=-422/230

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 136 lb uplift at joint 4, 135 lb uplift at joint 2 and 113 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 23 lb up at 1-6-9, 65 lb down and 46 lb up at 3-4-6, 97 lb down and 83 lb up at 4-8-15, and 84 lb down and 89 lb up at 5-11-2, and 111 lb down and 120 lb up at 7-11-6 on top chord, and 8 lb down and 5 lb up at 1-6-9, 18 lb down and 7 lb up at 3-4-6, 35 lb down and 12 lb up at 4-8-15, and 36 lb down and 18 lb up at 5-11-2, and 77 lb down and 23 lb up at 7-11-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

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. 88126 MITek Inc. DBA MITek USA FL. Cert 6634 16923 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

Continued on page 2

rameters 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 meres only. Additional temporary and permanent bracing is always required for stability and to prevent exclide the prevent buckling of individual truss web and/or chord meres only. Additional temporary and permanent bracing is always required for stability and to prevent exclides with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSUTP1 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.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	HARTLEY BROTHERS - MAHN RES.	
3287790	HJ09B	Diagonal Hip Girder	1		1	T28917222
3207700	110000	Diagonal Tilp Gilder			Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:46 2022 Page 2 ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-NCT5NKXTM7xpE7j4cS13l9RJC4kSZZ_X5KvW59yWnLJ

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-89(B) 13=-13(F) 14=-10(B) 15=2(F) 16=1(B) 17=-20(F) 18=-16(B)

Qty HARTLEY BROTHERS - MAHN RES. Ply Truss Truss Type Job T28917222 3287790 HJ09B Diagonal Hip Girder Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:25:46 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-NCT5NKXTM7xpE7j4cS13l9RJC4kSZZ_X5KvW59yWnLJ Builders FirstSource (Lake City,FL), Lake City, FL - 32055 Scale = 1:30.1 6.25 12 13 3x6 = 12 7-7-0 15 17 6 7 3x4 = 53x8 || 2x4 || 7-11-5 0-6-4 0-0-12 Plate Offsets (X,Y)--[2:0-3-8,Edge] SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP LOADING (psf) Plate Grip DOL 1.25 TC 0.31 0.03 6-7 >999 240 MT20 244/190 TCLL 0.33

20.0 TCDL 7.0

1.25 Lumber DOL BC 0.0 * Rep Stress Incr WB 0.20 Code FBC2020/TPI2014 Matrix-MS

Vert(LL) Vert(CT) -0.05 6-7 >999 180 Horz(CT) -0.01 n/a

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.

Weight: 42 lb FT = 20%

LUMBER-

BCLL

BCDL

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

10.0

WEDGE Left: 2x4 SP No.3

REACTIONS.

(size) 4=Mechanical, 2=0-4-11, 5=Mechanical

Max Horz 2=171(LC 8)

Max Uplift 4=-168(LC 10), 2=-134(LC 8), 5=-104(LC 8) Max Grav 4=198(LC 1), 2=461(LC 1), 5=246(LC 29)

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

TOP CHORD 2-3=-486/128

2-7=-199/366, 6-7=-199/366 **BOT CHORD** 3-6=-421/228 **WEBS**

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 168 lb uplift at joint 4, 134 lb uplift at joint 2 and 104 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 36 lb up at 2-1-12, 66 lb down and 47 lb up at 3-5-3, 101 lb down and 93 lb up at 5-4-2, and 85 lb down and 90 lb up at 5-11-15, and 101 lb down and 120 lb up at 8-5-9 on top chord, and 13 lb down and 2 lb up at 2-1-12, 18 lb down and 7 lb up at 3-5-3, and 40 lb down and 15 lb up at 5-4-2, and 37 lb down and 18 lb up at 5-11-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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

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. 8126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

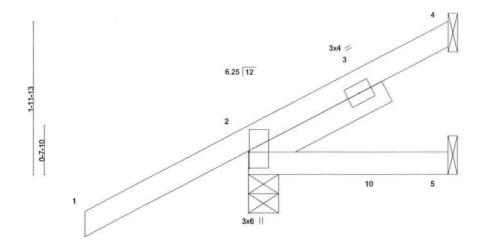
Continued on page 2





-2-1-10 2-7 2-1-10 2-7

Scale = 1:14,4



2-7-1 2-7-1

Structural wood sheathing directly applied or 2-7-1 oc purlins.

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

	2 2 2 2	2222	202	22.		12700000	- 20			0.00	2007-0000000		
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	0.31	Vert(LL)	0.00	8	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(CT)	-0.00	8	>999	180	3000000		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	2	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	N= 000000000000000000000000000000000000					Weight: 15 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

SLIDER

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

REACTIONS. (size) 4=Mechanical, 2=0-4-11, 5=Mechanical

Max Horz 2=78(LC 8)

Max Uplift 4=-27(LC 8), 2=-77(LC 8), 5=-6(LC 15)

Max Grav 4=30(LC 19), 2=252(LC 19), 5=37(LC 3)

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

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 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 27 lb uplift at joint 4, 77 lb uplift at joint 2 and 6 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 50 lb down and 44 lb up at 1-8-2 on top chord, and 11 lb down and 31 lb up at 1-8-2 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

Vert: 3=44(F)

Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-4=-54, 5-6=-20
 Concentrated Loads (lb)

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 16025 Swingley Ridge Rd. Chesterfield, MO 63017

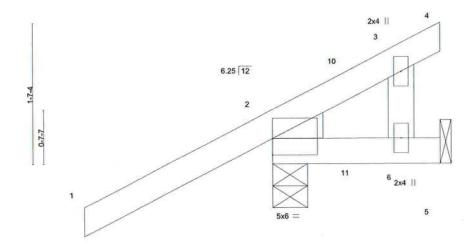
October 5,2022

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



Scale = 1:12.6



1-10-12 1-10-12

Structural wood sheathing directly applied or 1-10-12 oc purlins,

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

LOADING	(nsf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.31	Vert(LL)	0.00	9	>999	240	MT20	244/190
CDL	7.0	Lumber DOL	1,25	BC	0.09	Vert(CT)	0.00	9	>999	180	COLONIANS.	
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MP	200000000000000000000000000000000000000					Weight: 12 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

Left: 2x4 SP No.3

REACTIONS.

(size) 2=0-4-11, 5=Mechanical

Max Horz 2=66(LC 8)

Max Uplift 2=-88(LC 8), 5=-21(LC 1) Max Grav 2=243(LC 19), 5=48(LC 30)

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

NOTES

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) 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 88 lb uplift at joint 2 and 21 lb uplift at joint 5.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 51 lb down and 52 lb up at 0-11-2 on top chord, and 15 lb down and 36 lb up at 0-11-2 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

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

Vert: 1-3=-54, 3-4=-54, 5-7=-20

Concentrated Loads (lb) Vert: 10=52(B) 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.

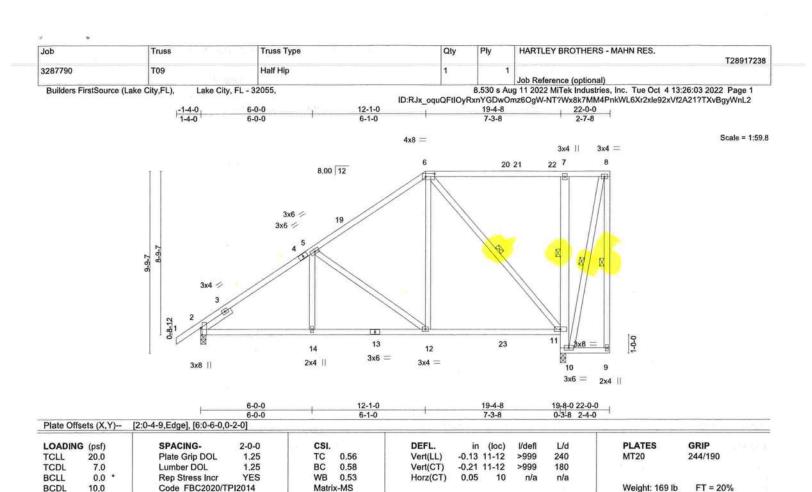
Philip J. O'Regan PE. No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16013 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

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 property 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 ocllapse 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





BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

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

7-10: 2x6 SP No.2

WEBS 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=305(LC 12)

Max Uplift 2=-161(LC 12), 10=-233(LC 12)

Max Grav 2=894(LC 19), 10=987(LC 2)

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

2-5=-927/170, 5-6=-645/133 TOP CHORD

2-14=-342/871, 12-14=-342/871, 11-12=-164/489, 10-11=-900/254, 7-11=-355/187 **BOT CHORD**

5-12=-481/220, 6-12=-80/593, 6-11=-696/227 WEBS

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 12-1-0, Exterior(2R) 12-1-0 to 16-3-15, Interior(1) 16-3-15 to 21-10-4 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.
- * 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=161, 10=233.

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.

Structural wood sheathing directly applied or 5-10-13 oc purlins,

8-9, 6-11, 8-10

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

except end verticals.

1 Row at midpt

1 Row at midpt

Philip J. O'Regan PE No.88126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridgo Rd. Chesterfield, MO 63017

October 5,2022

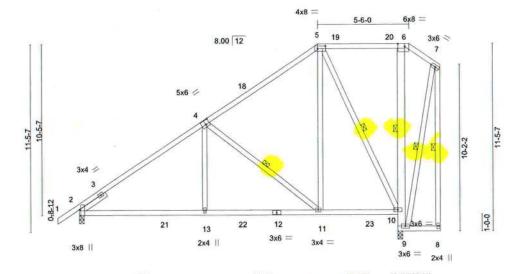
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system, Before use, the building designer must verify the applicability of design parameters and property 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 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

ABST/PPH Quality Criterie, DSB-89 and BCSI Building Component Safety information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



HARTLEY BROTHERS - MAHN RES. Truss Type Qty Ply Job Truss T28917239 3287790 T10 Hip Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:04 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-rfZu8UII7fCGPu5XgEMHUyBKVKr9neqBE7GSk6yWnL1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

14-7-0 6-11-0



[2:0-4-9,Edge], [4:0-3-0,0-3-4], [5:0-5-12,0-2-0], [6:0-5-0,Edge] Plate Offsets (X,Y)--L/d **PLATES** GRIP SPACING-CSI DEFL (loc) Vdeft LOADING (psf) 2-0-0 in 0.08 13-16 >999 240 MT20 244/190 0.51 Vert(LL) TCLL 20.0 Plate Grip DOL 1.25 TC BC -0.14 13-16 >999 180 TCDL 7.0 Lumber DOL 1.25 0.56 Vert(CT) 0.49 0.04 n/a WB Horz(CT) n/a BCLL 0.0 Rep Stress Incr YES

BRACING-

TOP CHORD

BOT CHORD

WEBS

Matrix-MS

LUMBER-

REACTIONS.

BCDL

TOP CHORD 2x4 SP No.2

10.0

2x4 SP No.2 *Except* **BOT CHORD** 6-9: 2x6 SP No.2

WEBS 2x4 SP No.3

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

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

Max Horz 2=338(LC 12) Max Uplift 2=-138(LC 12), 9=-220(LC 12)

Max Grav 2=940(LC 19), 9=1007(LC 2)

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

Code FBC2020/TPI2014

TOP CHORD 2-4=-952/122, 4-5=-487/80

2-13=-315/894, 11-13=-315/894, 10-11=-100/353, 9-10=-886/211 **BOT CHORD** WEBS 4-13=0/387, 4-11=-698/275, 5-11=-123/683, 5-10=-786/223

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-7-0, Exterior(2R) 14-7-0 to 18-9-15, Interior(1) 18-9-15 to 19-10-0, Exterior(2E) 19-10-0 to 21-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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=138, 9=220.

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

October 5,2022



sters 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 property 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



Weight: 182 lb

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

4-11, 5-10, 7-8, 7-9

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

except end verticals.

1 Row at midpt

1 Row at midpt

FT = 20%

16023 Swingley Ridge Rd Chesterfield, MO 63017

HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty Ply T28917240 3287790 T11 Piggyback Base 1 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:05 2022 Page 1

ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-Js7GMqlNuzK702gjDytW0AjVEkAOW53KTn00GYyWnL0 14-7-0 6-11-0

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

Scale = 1:67.6

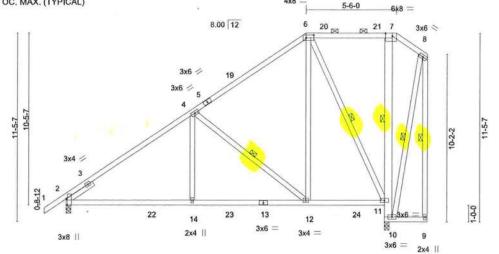


Plate Off	sets (X,Y)	[2:0-4-9,Edge], [6:0-5-12	,0-2-0], [7:0-5-0),Edge]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defi	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.51	Vert(LL)	0.08	14-17	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1,25	BC	0.56	Vert(CT)	-0.14	14-17	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.04	10	n/a	n/a	200		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	1 1					Weight: 182 lb	FT = 20%	

BRACING-

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* 7-10: 2x6 SP No.2

WEBS 2x4 SP No.3

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

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

Max Horz 2=338(LC 12)

Max Uplift 2=-138(LC 12), 10=-220(LC 12)

Max Grav 2=940(LC 19), 10=1007(LC 2)

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

TOP CHORD 2-4=-952/122, 4-6=-487/80

BOT CHORD 2-14=-314/893, 12-14=-314/893, 11-12=-100/353, 10-11=-886/211 WEBS

4-14=0/387, 4-12=-698/275, 6-12=-124/684, 6-11=-786/223

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-7-0, Exterior(2R) 14-7-0 to 18-9-15, Interior(1) 18-9-15 to 19-10-0, Exterior(2E) 19-10-0 to 21-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

 4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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=138, 10=220,
- 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'Rogan PE No. S8126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev, 5/19/2020 BEFORE USE,



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

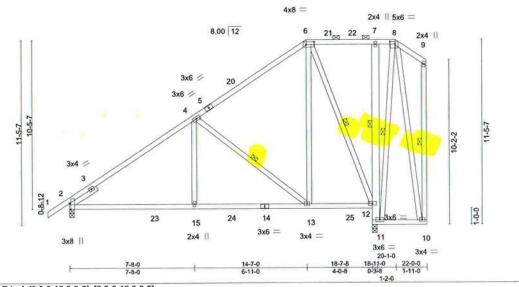
4-12, 6-11, 8-9, 8-10

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

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

HARTLEY BROTHERS - MAHN RES. Truss Type Qty Ply Job Truss T28917241 3287790 T12 Piggyback Base 3 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:06 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055. ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-o2hfZAm0fHS_eCFwnfOlZNGgo8WYFYkUhRlZo?yWnL? 20-1-0 22-0-0

Scale = 1:68.4



OADING (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)	0.08	15-18	>999	240	MT20	244/190
CDL 7.0	Lumber DOL	1,25	BC	0.56	Vert(CT)	-0.14	15-18	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.04	11	n/a	n/a		
3CDL 10.0	Code FBC2020/7	PI2014	Matri	x-MS						Weight: 200 lb	FT = 20%

BRACING-

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* 7-11: 2x6 SP No.2

WEBS 2x4 SP No.3

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

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

Max Horz 2=338(LC 12) Max Uplift 2=-136(LC 12), 11=-263(LC 12)

Max Grav 2=900(LC 19), 11=1040(LC 2)

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

2-4=-841/118, 4-6=-419/77 TOP CHORD

2-15=-312/841, 13-15=-312/841, 12-13=-97/294, 11-12=-834/247 **BOT CHORD** 4-15=0/392, 4-13=-705/274, 6-13=-124/670, 6-12=-782/245 WEBS

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 14-7-0, Exterior(2R) 14-7-0 to 18-10-4, Interior(1) 18-10-4 to 20-1-0, Exterior(2E) 20-1-0 to 21-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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=136, 11=263.
- 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

October 5,2022

rs 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 and 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANS/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



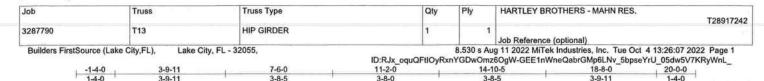
Structural wood sheathing directly applied or 5-11-4 oc purlins,

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

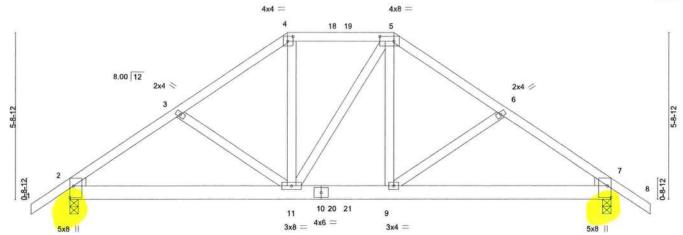
7-12

4-13, 6-12, 8-11, 9-10

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







	7-6-0				-	3-8-0	1			7-6-0		
Plate Offse	ets (X,Y)-	[2:Edge,0-1-7], [4:0-2-4,0	-2-0], [5:0-5-12	2,0-2-0], [7:E	dge,0-1-7]	-						
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	0.45	Vert(LL)	0.09	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(CT)	-0.12	9-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.33	Horz(CT)	0.04	7	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 119 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEDGE

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

REACTIONS.

(size) 2=0-3-8, 7=0-3-8 Max Horz 2=-130(LC 6)

Max Uplift 2=-706(LC 8), 7=-742(LC 9) Max Grav 2=1519(LC 1), 7=1570(LC 1)

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

TOP CHORD 2-3=-2160/10889, 3-4=-2015/1073, 4-5=-1664/943, 5-6=-2094/1131, 6-7=-2240/1145 BOT CHORD 2-11=-917/1731, 9-11=-924/1725, 7-9=-865/1797

WEBS 4-11=-515/871, 5-9=-436/779

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 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=706, 7=742.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 67 lb down and 34 lb up at 9-0-12, and 67 lb down and 34 lb up at 9-7-4, and 290 lb down and 254 lb up at 11-2-0 on top chord, and 455 lb down and 345 lb up at 7-6-0, 180 lb down and 115 lb up at 9-0-12, and 180 lb down and 115 lb up at 9-7-4, and 455 lb down and 345 lb up at 11-2-0 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

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

Vert: 1-4=-54, 4-5=-54, 5-8=-54, 12-15=-20

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.

Structural wood sheathing directly applied or 3-6-14 oc purlins.

Rigid ceiling directly applied or 7-5-14 oc bracing.

Philip J. O'Regna PE No. 58126 MiTok Inc. DBA MITok USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

Continued on page 2

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/PH 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	HARTLEY BROTHERS - MAHN RES.	28917242
3287790	T13	HIP GIRDER	1	1		1507 (H-0.07) (H-0.07)
					Job Reference (optional)	

Builders FirstSource (Lake City,FL).

Lake City, FL - 32055,

8.530 s Aug 11 2022 MITek Industries, Inc. Tue Oct 4 13:26:07 2022 Page 2 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-GEE1nWneQabrGMp6LNv_5bpseYrU_05dw5V7KRyWnL_

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 5=-262(F) 11=-455(F) 9=-455(F) 18=-16(F) 19=-16(F) 20=-180(F) 21=-180(F)



HARTLEY BROTHERS - MAHN RES. Truss Type Qtv Ply Truss -lob T28917243 T14 QUEENPOST 2 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:08 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-kRoP_roGBujitWOlv4RDeoL5ryAyjScm9lEgstyWnKz Builders FirstSource (Lake City,FL), Lake City, FL - 32055. 20-0-0 4-9-14 1-4-0 4x4 = 5 8.00 12 2x4 > 24 2x4 / 3x4 / 3x4 > 20 21 22 10 5x8 = 3x8 || 18-8-0 [2:0-3-8,Edge], [8:0-4-9,Edge], [10:0-4-0,0-3-0] Plate Offsets (X,Y)--SPACING-DEFI PLATES GRIP LOADING (psf) 2-0-0 CSI. (loc) l/defl I /d 244/190 TC BC TCLL 20.0 Plate Grip DOL 1.25 0.23 Vert(LL) 0.17 10-17 >999 240 MT20

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.20 10-13

0.02

>999

n/a

180

n/a

Rigid ceiling directly applied or 8-0-4 oc bracing.

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

Weight: 99 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

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

7.0

10.0

0.0 *

2x4 SP No 3 WERS

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

REACTIONS.

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

Max Horz 2=-157(LC 10) Max Uplift 2=-164(LC 12), 8=-164(LC 13) Max Grav 2=763(LC 1), 8=763(LC 1)

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-782/702, 4-5=-688/572, 5-6=-688/572, 6-8=-782/702

BOT CHORD

2-10=-456/688, 8-10=-456/688

WEBS

5-10=-529/478

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 9-4-0, Exterior(2R) 9-4-0 to 13-6-15, Interior(1) 13-6-15 to 20-0-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

0.70

0.44

WB

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.

1.25

YES

- 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=164, 8=164.

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'Rogan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTek® 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 property incorporate this design into the overall building designer, and 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 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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



HARTLEY BROTHERS - MAHN RES. Truss Type Qty Ply Job Truss T28917244 COMMON 3287790 T15 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:09 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-CdMnCBpuyCrZVfzUSoySB0uGNLW7SuNwNP_DOJyWnKy Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 14-1-14 4-6-2 9-4-0 4-9-14 8.00 12 2x4 > 2x4 / 3x4 4 3x4 < 0-8-12 19 20 8 5x8 3x8 || 3x8 || 18-8-0 [1:0-3-8,Edge], [7:0-4-9,Edge], [8:0-4-0,0-3-0] Plate Offsets (X,Y)--DEFL. l/defl L/d PLATES GRIP SPACING-CSI (loc) LOADING (psf) 2-0-0 Vert(LL) 0.17 >999 240 MT20 244/190 0.25 8-11 Plate Grip DOL TCLL 20.0 1.25 TC -0.20 >999 180 BC 0.70 Vert(CT) 8-11 TCDL 7.0 Lumber DOL 1.25 0.47 0.02 n/a WB n/a Horz(CT) BCLL 0.0 Rep Stress Incr YES Weight: 94 lb FT = 20%

BRACING-

TOP CHORD BOT CHORD

LUMBER-

BCDL

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

10.0

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

REACTIONS.

(size) 1=0-4-0, 7=0-4-0

Max Horz 1=137(LC 9)

Max Uplift 1=-135(LC 12), 7=-135(LC 13) Max Grav 1=691(LC 1), 7=691(LC 1)

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

Code FBC2020/TPI2014

TOP CHORD

1-3=-796/747, 3-4=-698/606, 4-5=-698/606, 5-7=-796/747

BOT CHORD

1-8=-514/703, 7-8=-503/703

WEBS

4-8=-566/481

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-4-0, Exterior(2R) 9-4-0 to 12-4-0, Interior(1) 12-4-0 to 18-8-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=135, 7=135.

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

October 5,2022

INDEED 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 Ans/t/PI1 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 7-6-15 oc bracing.

HARTLEY BROTHERS - MAHN RES. Qty Truss Type Ply Job Truss T28917245 COMMON 3287790 T16 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:10 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-gpw9PXpWjVzQ7pYh0VThjDQR7isMBLd3c3jnwmyWnKx 14-1-14 18-8-0 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), 4-9-14 Scale = 1:41,2 4x4 = 8.00 12 2×4 > 2x4 / 3x4 / 3x4 < 0-8-12

Plate Offsets (X,Y) [1:0-3-8,Edge], [7:0-4-9,Edge], [8:0-4-0,0-3-0]									9-0	1-0	0-0-0	·	
LOADIN	IG (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)	0.17	8-11	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.70	Vert(CT)	-0.20	8-11	>999	180	111111111111111111111111111111111111111		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.02	7	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS						Weight: 94 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

8 5x8 =

19

LUMBER-

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

WEBS 2x4 SP No.3 SLIDER Left 2x4 SP N

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

REACTIONS.

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

0-0-8

Max Horz 1=137(LC 9)

Max Uplift 1=-135(LC 12), 7=-135(LC 13) Max Grav 1=691(LC 1), 7=691(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-3=-796/747, 3-4=-698/606, 4-5=-698/606, 5-7=-796/747

BOT CHORD 1-8=-514/703, 7-8=-503/703

WEBS 4-8=-566/481

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 9-4-0, Exterior(2R) 9-4-0 to 12-4-0, Interior(1) 12-4-0 to 18-8-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific
 to the use of this truss component.
- 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=135, 7=135.

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.

3x8 ||

18-8-0

18-7-8

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

Rigid ceiling directly applied or 7-6-15 oc bracing.

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

October 5,2022

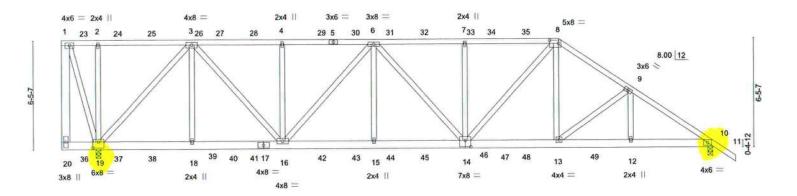
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/P11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



HARTLEY BROTHERS - MAHN RES. Qty Ply Truss Truss Type Job T28917246 3287790 T17 Roof Special Girder 2 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:15 2022 Page 1 ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-1nj2SFttX2biDaRep23sQH8GImbxsVbomKRYbzyWnKs Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

Scale = 1:65.3



2-0-02-1-12	7-7-12	13-0-0	18-4-4	23-8-8	-	29-2-8		33-5-5	38-3-8
2-0-00-1-12	5-6-0	5-4-4	5-4-4	5-4-4 5-6-0			4-2-13	4-10-3	
Plate Offsets (X,Y)	[8:0-6-4,0-2-4], [14:0-4-0	,0-4-8], [19:0-4-	0,0-4-4]						
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/T	2-0-0 1.25 1.25 NO	CSI. TC 0.28 BC 0.55 WB 0.94 Matrix-MS	Vert(LL) Vert(CT) Horz(CT)	in (loc) 0.14 14-15 -0.22 14-15 0.06 10	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 5	244/190

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.3 *Except* WEBS

1-20: 2x6 SP No.2

Max Horz 19=-236(LC 9) Max Uplift 19=-2056(LC 4), 10=-1165(LC 9)

(size) 19=0-3-8, 10=0-3-8

Max Grav 19=4379(LC 1), 10=2725(LC 1)

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

TOP CHORD 1-20=-378/914, 1-2=-119/290, 2-3=-119/290, 3-4=-3486/1729, 4-6=-3486/1729,

6-7=-4167/2034, 7-8=-4167/2034, 8-9=-4072/1904, 9-10=-4553/1999

18-19=-985/2046, 16-18=-985/2046, 15-16=-1988/4207, 14-15=-1988/4207, **BOT CHORD**

13-14=-1481/3352, 12-13=-1603/3735, 10-12=-1603/3735 1-19=-916/379, 2-19=-345/218, 3-19=-3411/1673, 3-18=-188/557, 3-16=-1089/2251, WEBS

4-16=-344/227, 6-16=-1090/517, 6-15=-203/568, 7-14=-372/251, 8-14=-677/1223,

8-13=-490/1046, 9-13=-507/268, 9-12=-113/346

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: 2x6 - 2 rows staggered at 0-9-0 oc.

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

All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.,

GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60

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) 19=2056, 10=1165.

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 Ibr. DBA MiTek USA FI, Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

Continued on page 2

sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 tev. 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 properly 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 5-10-0 oc purlins,

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

except end verticals.

6-0-0 oc bracing: 19-20.

16023 Swingley Ridge Rd Chesterfield, MO 63017

Job	Truss	Truss Type	Qty	Ply	HARTLEY BROTHERS - MAHN RES.	T28917246
3287790	T17	Roof Special Girder	1	2	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:15 2022 Page 2 ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-1nj2SFtfX2biDaRep23sQH8GImbxsVbomKRYbzyWnKs

9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 72 lb down and 61 lb up at 1-2-12, 72 lb down and 61 lb up at 3-2-12, 72 lb down and 61 lb up at 5-2-12, 72 lb down and 61 lb up at 7-2-12, 72 lb down and 61 lb up at 9-2-12, 72 lb down and 61 lb up at 11-2-12, 72 lb down and 61 lb up at 13-2-12, 72 lb down and 61 lb up at 15-2-12, 72 lb down and 61 lb up at 15-2-12, 72 lb down and 61 lb up at 21-2-12, 72 lb down and 61 lb 61 lb up at 23-2-12, 72 lb down and 61 lb up at 25-2-12, and 72 lb down and 61 lb up at 27-2-12, and 65 lb down and 65 lb up at 29-2-8 on top chord, and 1055 lb down and 432 lb up at 0-2-12, 158 lb down and 101 lb up at 1-2-12, 158 lb down and 101 lb up at 3-2-12, 158 lb down and 101 lb up at 5-2-12, 158 lb down and 101 lb up at 7-2-12, 158 lb down and 101 lb up at 9-2-12, 158 lb down and 101 lb up at 11-2-12, 158 lb down and 101 lb up at 13-2-12, 158 lb down and 101 lb up at 15-2-12, 158 lb down and 101 lb up at 17-2-12, 158 lb down and 101 lb up at 19-2-12, 158 lb down and 101 lb up at 21-2-12, 158 lb down and 101 lb up at 23-2-12, 158 lb down and 101 Ib up at 25-2-12, 158 lb down and 101 lb up at 27-2-12, and 158 lb down and 101 lb up at 29-2-12, and 524 lb down and 308 lb up at 31-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-8=-54, 8-11=-54, 10-20=-20

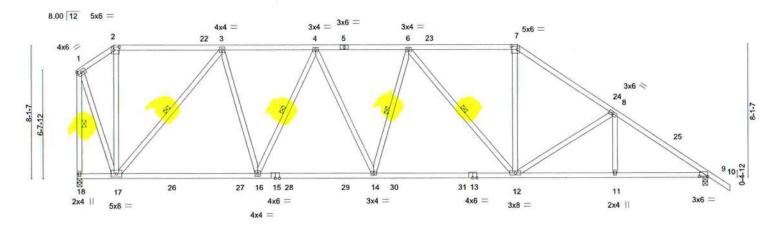
Concentrated Loads (lb)

Vert: 20=-1055(F) 8=-22(F) 16=-154(F) 4=-22(F) 13=-154(F) 23=-22(F) 24=-22(F) 25=-22(F) 26=-22(F) 27=-22(F) 28=-22(F) 29=-22(F) 30=-22(F) 31=-22(F) 32=-22(F) 33=-22(F) 34=-22(F) 35=-22(F) 36=-154(F) 37=-154(F) 38=-154(F) 39=-154(F) 40=-154(F) 41=-154(F) 42=-154(F) 43=-154(F) 44=-154(F) 45=-154(F) 46=-154(F) 47=-154(F) 48=-154(F) 49=-524(F)



HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty Ply T28917247 T18 Hip 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:16 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-VzHRgbuHILjZrk0rNma5zUgPdAr_b_oy__A58QyWnKr 26-8-8 32-7-14 38-3-8 39-7-8 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 20-1-4 5-7-12 5-7-10

Scale = 1:67.4



2-2-8	10-11-0	1	17-11-10	20-0-0	32-7-14	30-3-0
2-2-8	8-8-14		7-0-4	8-8-14	5-11-6	5-7-10
ets (X,Y)	[2:0-4-4,0-2-4], [7:0-4-4,0	-2-4], [9:0-6-0,	0-0-3]			
(psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
20.0	Plate Grip DOL	1.25	TC 0.44	Vert(LL) -0.28 12-14	>999 240	MT20 244/190
7.0	Lumber DOL	1,25	BC 0.94	Vert(CT) -0.47 12-14	>965 180	
0.0	Rep Stress Incr	YES	WB 0.80	Horz(CT) 0.10 9	n/a n/a	
10.0	Code FBC2020/T	PI2014	Matrix-MS			Weight: 255 lb FT = 20%
	(psf) 20.0 7.0 0.0	2-2-8 8-8-14 tts (X,Y) [2:0-4-4,0-2-4], [7:0-4-4,0 (psf) SPACING- 20.0 Plate Grip DOL 7.0 Lumber DOL 0.0 Rep Stress Incr	2-2-8 8-8-14 tts (X,Y) [2:0-4-4,0-2-4], [7:0-4-4,0-2-4], [9:0-6-0,0] (psf) SPACING- 2-0-0 20.0 Plate Grip DOL 1.25 7.0 Lumber DOL 1.25 0.0 Rep Stress Incr YES	2-2-8 8-8-14 7-0-4 Its (X,Y) [2:0-4-4,0-2-4], [7:0-4-4,0-2-4], [9:0-6-0,0-0-3] (psf) SPACING- 2-0-0 CSI. 20.0 Plate Grip DOL 1.25 TC 0.44 7.0 Lumber DOL 1.25 BC 0.94 0.0 Rep Stress Incr YES WB 0.80	2-2-8 8-8-14 7-0-4 8-8-14	2-2-8 8-8-14 7-0-4 8-8-14 5-11-6

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

REACTIONS.

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

2x4 SP No.3

(size) 18=0-3-8, 9=0-3-8 Max Horz 18=-266(LC 13)

Max Uplift 18=-298(LC 8), 9=-348(LC 13)

Max Grav 18=1616(LC 2), 9=1633(LC 2)

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

1-2=-570/106, 2-3=-466/115, 3-4=-1642/348, 4-6=-1997/427, 6-7=-1696/437, TOP CHORD

7-8=-2100/462, 8-9=-2487/506, 1-18=-1676/287

17-18=-116/265, 16-17=-294/1412, 14-16=-345/1869, 12-14=-329/1983, 11-12=-322/2021, **BOT CHORD**

9-11=-322/2021

3-17=-1488/367, 3-16=-147/879, 4-16=-557/206, 4-14=-103/330, 6-12=-524/227,

7-12=-103/869, 8-12=-495/213, 1-17=-272/1422

NOTES-

WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 2-2-8, Exterior(2R) 2-2-8 to 7-7-8, Interior(1) 7-7-8 to 26-8-8, Exterior(2R) 26-8-8 to 32-1-8, Interior(1) 32-1-8 to 39-7-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 18=298, 9=348,

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

October 5,2022

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 Arto in National Policy of the Safe Mind Very State of the



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

3-17, 4-16, 6-14, 6-12, 1-18

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

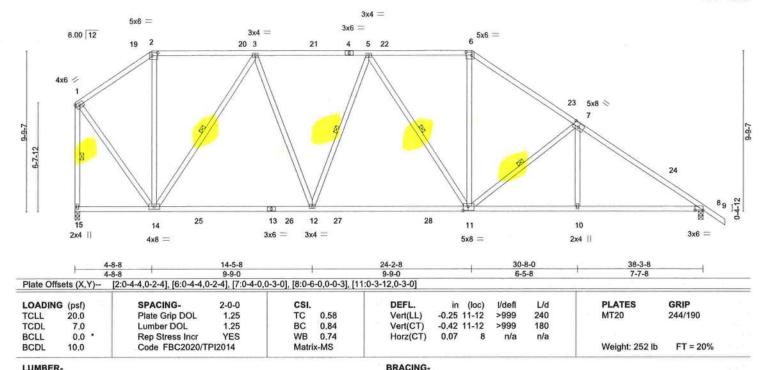
except end verticals.

1 Row at midpt

16023 Swingley Ridge Rd Chesterfield, MO 63017

Qty Ply HARTLEY BROTHERS - MAHN RES. Truss Type Job Truss T28917248 Hip 3287790 T19 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:17 2022 Page 1 ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-z9rptwvv3frQTua1wT5KViDXAaCrKSC5DewfgsyWnKq Lake City, FL - 32055, Builders FirstSource (Lake City,FL), 6-3-8 6-11-0 1-4-0

Scale = 1:67.8



TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

2x4 SP M 31 *Except* **BOT CHORD**

8-11: 2x4 SP No.2

WEBS 2x4 SP No.3

REACTIONS. 15=0-3-8, 8=0-3-8 (size)

Max Horz 15=-290(LC 13)

Max Uplift 15=-272(LC 12), 8=-343(LC 13)

Max Grav 15=1609(LC 2), 8=1629(LC 2)

FORCES, (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 1-2=-934/186, 2-3=-737/200, 3-5=-1571/342, 5-6=-1538/419, 6-7=-1924/438,

7-8=-2407/481, 1-15=-1577/277

14-15=-152/288, 12-14=-252/1343, 11-12=-244/1630, 10-11=-275/1946, 8-10=-276/1940 BOT CHORD

2-14=-32/313, 3-14=-1128/295, 3-12=-133/675, 5-12=-274/198, 5-11=-282/201, WEBS

6-11=-88/774, 7-11=-637/261, 7-10=0/283, 1-14=-208/1232

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-11-11, Interior(1) 3-11-11 to 4-8-8, Exterior(2R) 4-8-8 to 10-1-8, Interior(1) 10-1-8 to 24-2-8, Exterior(2R) 24-2-8 to 29-7-8, Interior(1) 29-7-8 to 39-7-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

- * This truss has been designed for a live load of 20,0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=272, 8=343.

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.

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

3-14, 5-12, 5-11, 7-11, 1-15

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

except end verticals.

1 Row at midpt

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

October 5,2022

🛦 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent occllapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSUTPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waklorf, MD 20601



HARTLEY BROTHERS - MAHN RES. Truss Type Qty Ply Job Truss T28917249 3 Piggyback Base 3287790 T20 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:18 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-RMPB4GwXqzzH429DUBcZ2vmhE_Vn3z8FSIfCCIyWnKp Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 14-5-12 26-4-0 4-2-10 5-3-0 Scale = 1:65.3 4x4 = 3x8 = 4x4 = 420 21, 8.00 12 3x4 / 22 19 5x6 6 9-9-7 2x4 || 4127 2710 25 13 8 12 11 3x6 = 3x6 = 3x6 = 3x8 = 2x4 || 2x4 || 3x8 = 3x8 = 14-5-12 [5:0-2-4,0-2-4], [6:0-3-0,0-3-4], [7:0-6-0,0-0-3] Plate Offsets (X,Y)-DEFL. L/d PLATES GRIP SPACING-2-0-0 CSI. (loc) Vdefl LOADING (psf) in Vert(LL) -0.33 12-14 >999 240 MT20 244/190 0.69 Plate Grip DOL TC TCLL 20.0 1.25 -0.54 12-14 >745 180 BC 0.98 Vert(CT) TCDL 7.0 Lumber DOL 1.25 WB 0.50 0.07 n/a Horz(CT) n/a BCLL 0.0 Rep Stress Incr YES Weight: 227 lb FT = 20% Code FBC2020/TPI2014 Matrix-MS BCDL 10.0 BRACING-LUMBER-Structural wood sheathing directly applied or 3-4-0 oc purlins, TOP CHORD 2x4 SP No.2 TOP CHORD except end verticals, and 2-0-0 oc purlins (5-1-10 max.): 3-5. 2x4 SP No.2 **BOT CHORD** 2x4 SP No.3 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing, Except: WERS 2-2-0 oc bracing: 12-14. WEBS 1 Row at midpt 4-12, 4-9, 6-9, 2-14 REACTIONS. 14=0-3-8, 7=Mechanical (size) Max Horz 14=-205(LC 13)

Max Uplift 14=-240(LC 12), 7=-268(LC 13) Max Grav 14=1428(LC 2), 7=1375(LC 2)

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

TOP CHORD BOT CHORD

2-3=-1304/299, 3-4=-1042/284, 4-5=-1236/354, 5-6=-1572/362, 6-7=-2084/406 12-14=-192/916, 11-12=-164/1255, 9-11=-164/1255, 8-9=-241/1671, 7-8=-241/1673 2-12=-94/360, 3-12=-103/507, 4-12=-493/174, 5-9=-92/596, 6-9=-662/266, 6-8=0/305,

WEBS 2-14=-1383/220

NOTES-

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

- 1) Unind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-5, Interior(1) 3-6-5 to 9-2-12, Exterior(2R) 9-2-12 to 14-0-2, Interior(1) 14-0-2 to 19-8-12, Exterior(2R) 19-8-12 to 24-6-2, Interior(1) 24-6-2 to 33-9-12 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) 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) 14=240, 7=268,
- 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 Izr. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

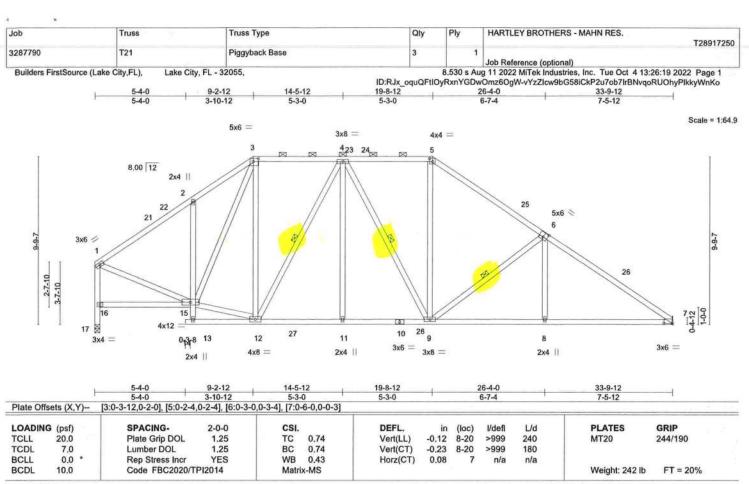
ilters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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 properly 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





LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

2-13: 2x4 SP No.3

WEBS 2x4 SP No.3

.2 TOP CHORD

BOT CHORD

BRACING-

Structural wood sheathing directly applied or 3-4-2 oc purlins, except end verticals, and 2-0-0 oc purlins (5-1-14 max.): 3-5. Rigid ceiling directly applied or 10-0-0 oc bracing, Except:

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

10-0-0 oc bracing: 13-15

WEBS

1 Row at midpt

4-12, 4-9, 6-9

REACTIONS.

(size) 7=Mechanical, 17=0-3-8

Max Horz 17=-205(LC 13)

Max Uplift 7=-267(LC 13), 17=-238(LC 12) Max Grav 7=1370(LC 2), 17=1394(LC 2)

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

TOP CHORD 1-2=-1378/262, 2-3=-1354/390, 3-4=-1009/286, 4-5=-1227/352, 5-6=-1561/360,

6-7=-2075/404, 16-17=-1394/238, 1-16=-1290/254

BOT CHORD 15-16=-231/288, 2-15=-292/213, 11-12=-163/1250, 9-11=-163/1250, 8-9=-239/1664,

7-8=-239/1666

12-15=-159/1012, 3-15=-167/360, 3-12=-146/422, 4-12=-557/166, 5-9=-92/590,

6-9=-664/265, 6-8=0/307, 1-15=-199/1135, 4-11=0/290

NOTES-

WEBS

Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-6-5, Interior(1) 3-6-5 to 9-2-12, Exterior(2R) 9-2-12 to 14-0-2, Interior(1) 14-0-2 to 19-8-12, Exterior(2R) 19-8-12 to 24-6-2, Interior(1) 24-6-2 to 33-9-12 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) 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) Bearing at joint(s) 17 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
 7=267, 17=238.
- 10) 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.

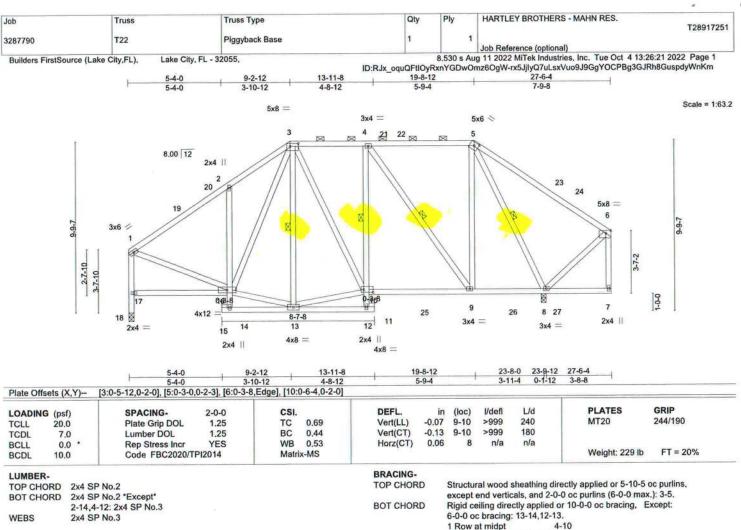
Philip J. O'Rogan PE No. SE126 MiTek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

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 properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





WEBS

10-0-0 oc bracing: 14-16, 10-12

3-13, 4-9, 5-8 1 Row at midpt

(size) 8=0-3-8, 18=0-3-8 Max Horz 18=132(LC 9)

Max Uplift 8=-228(LC 13), 18=-176(LC 12) Max Grav 8=1318(LC 2), 18=953(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-896/214, 2-3=-882/343, 3-4=-675/222, 4-5=-384/172, 5-6=-54/263,

17-18=-953/176, 1-17=-851/197

2-16=-296/214, 4-10=-11/254, 9-10=-167/679, 8-9=-69/373 **BOT CHORD**

13-16=-139/583, 3-16=-215/414, 10-13=-134/598, 3-10=-121/271, 4-9=-526/166, WEBS

5-9=-95/666, 5-8=-1144/188, 1-16=-74/702

NOTES-

REACTIONS.

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-2-12, Exterior(2R) 9-2-12 to 13-6-4, Interior(1) 13-6-4 to 19-8-12, Exterior(2R) 19-8-12 to 23-11-11, Interior(1) 23-11-11 to 27-4-8 zone; cantilever 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) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=228, 18=176.

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.

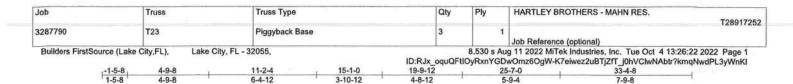
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

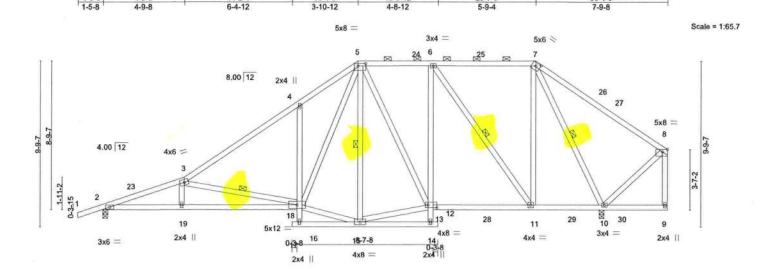
October 5,2022

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







		4-9-8	6-4-12	1	3-10-12	4-8-12	-		i-9-4		3-11-4	0-1-12 3-8-		
Plate Offse	ets (X,Y)-	The second secon	The second secon	,Edge], [12:0	The second secon	4-0-12					3-11-4	0-1-12 3-0-		
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	-0.23	18-19	>999	240		MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.98	Vert(CT)	-0.42	18-19	>847	180				
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.09	10	n/a	n/a				
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS							Weight: 249	lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 *Except*

4-16,6-14: 2x4 SP No.3

WEBS 2x4 SP No.3

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

Max Horz 2=205(LC 12)

Max Uplift 2=-249(LC 12), 10=-194(LC 13)

Max Grav 2=1251(LC 2), 10=1558(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown 2-3=-3176/673, 3-4=-1764/415, 4-5=-1731/566, 5-6=-963/333, 6-7=-501/217,

TOP CHORD 7-8=-73/262

BOT CHORD

2-19=-728/2988, 18-19=-732/2970, 4-18=-362/263, 6-12=-55/477, 11-12=-187/968,

10-11=-77/486 WEBS

3-18=-1603/408, 15-18=-148/961, 5-18=-401/1270, 5-15=-346/107, 12-15=-169/948,

6-11=-820/217, 7-11=-126/904, 7-10=-1407/389

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-5-8 to 1-10-9, Interior(1) 1-10-9 to 15-1-0, Exterior(2R) 15-1-0 to 18-5-1, Interior(1) 18-5-1 to 25-7-0, Exterior(2R) 25-7-0 to 28-11-1, Interior(1) 28-11-1 to 33-2-12 zone; cantilever 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=249, 10=194,
- 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.

Structural wood sheathing directly applied or 3-1-9 oc purlins,

3-18, 5-15, 6-11, 7-10

except end verticals, and 2-0-0 oc purlins (5-9-3 max.): 5-7.

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

10-0-0 oc bracing: 16-18, 12-14

1 Row at midpt

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

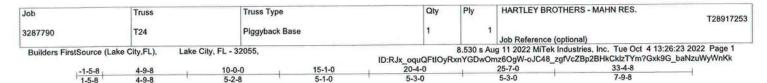
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev, 5/19/2020 BEFORE USE.

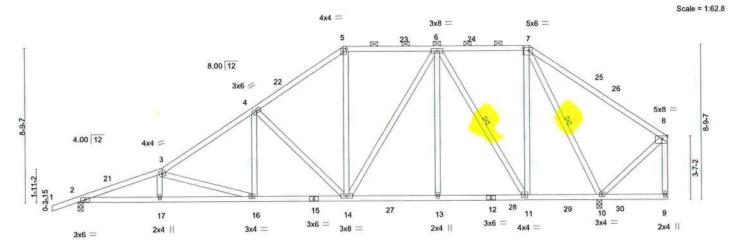
Design valid for use only with MTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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







	4-9-8	10-0-0	10-1-0	20-4-0		20-1-0		20.00		
-	4-9-8	5-2-8	5-1-0	5-3-0		5-3-0		4-1-0	3-8-	8 '
Plate Offsets (X,Y)	[5:0-2-4,0-2-0], [7:0-3-12	,0-2-0], [8:0-3-8,	Edge]							
LOADING (psf) TCLL 20.0 TCDL 7.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/T	2-0-0 1.25 1.25 YES	CSI. TC 0.70 BC 0.79 WB 0.83 Matrix-MS	Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.17 16-17 -0.29 16-17 0.08 10	l/defl >999 >999 n/a	L/d 240 180 n/a	PLAT MT20 Weigh		GRIP 244/190 FT = 20%

20 4 0

BRACING-

TOP CHORD

BOT CHORD

WEBS

25.7.0

1 Row at midpt

20_8_0

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

6-11, 7-10

except end verticals, and 2-0-0 oc purlins (5-6-1 max.): 5-7.

Rigid ceiling directly applied or 6-11-7 oc bracing.

33-4-8

LUMBER-

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

WEBS 2x4 SP No.3

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

Max Horz 2=205(LC 12)

Max Uplift 2=-252(LC 12), 10=-197(LC 13) Max Grav 2=1246(LC 2), 10=1559(LC 2)

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

2-3=-3100/672, 3-4=-1937/459, 4-5=-1323/388, 5-6=-1049/369, 6-7=-495/219, TOP CHORD

7-8=-73/261

2-17=-724/2921, 16-17=-727/2908, 14-16=-392/1598, 13-14=-178/918, 11-13=-178/918, **BOT CHORD**

10-11=-78/480

3-16=-1389/350, 4-16=-75/615, 4-14=-810/274, 5-14=-77/497, 6-14=-112/330, WEBS

6-11=-840/215, 7-11=-138/910, 7-10=-1388/392, 6-13=0/296

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-5-8 to 1-10-9, Interior(1) 1-10-9 to 15-1-0, Exterior(2R) 15-1-0 to 18-5-1, Interior(1) 18-5-1 to 25-7-0, Exterior(2R) 25-7-0 to 28-11-1, Interior(1) 28-11-1 to 33-2-12 zone; cantilever 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 (it=lb)
- 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 lac. DBA MiTek USA FE, Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

's and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 (ev. 5/19/2020 BEFORE USE





HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty Ply T28917254 3287790 T25 SCISSORS Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:24 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055. ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-GWmSLK_IQpkQozdNrRjzIA0sfOl6Tms7qE6WQyyWnKj 1-4-0 Scale = 1:21.5 4x4 = 3 8.00 12 4x6 || 0-4-12 0-4-12 5.00 12 3x4 = 3-10-0 3-10-0 LOADING (psf) SPACING-CSI DEFL. L/d **PLATES** GRIP 2-0-0 in (loc) I/defl Plate Grip DOL 244/190 20.0 1.25 TC 0.12 Vert(LL) -0.01>999 240 MT20 TCLL 6 1.25 BC 0.16 Vert(CT) -0.026 >999 180 TCDL 7.0 Lumber DOL Rep Stress Incr WB YES 0.17 Horz(CT) 0.02 n/a BCIL 00 4 n/a Code FBC2020/TPI2014 Weight: 33 lb FT = 20% BCDL 10.0 Matrix-MS

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

WEBS

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

2x4 SP No.3

(size) 2=0-3-8, 4=0-3-8 Max Horz 2=-76(LC 10)

Max Uplift 2=-85(LC 12), 4=-85(LC 13) Max Grav 2=356(LC 1), 4=356(LC 1)

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

TOP CHORD **BOT CHORD**

2-3=-595/109, 3-4=-596/108 2-6=-31/521, 4-6=-29/518

3-6=-13/452 WEBS

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-10-0, Exterior(2R) 3-10-0 to 7-0-15, Interior(1) 7-0-15 to 9-0-0 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) Bearing at joint(s) 2, 4 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) 2, 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.

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 Ceri 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022



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

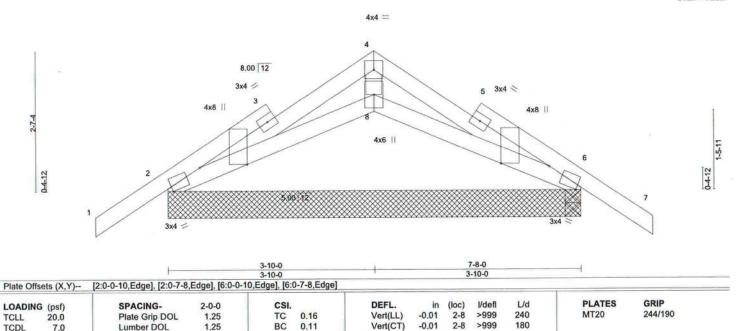


HARTLEY BROTHERS - MAHN RES. Ply Qty Job Truss Truss Type T28917255 SCISSORS T25G 3287790 Job Reference (optional)

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:25 2022 Page 1

ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-kiKqYf?wA6sHQ7CZO9ECqOY0no68CE3H3us4yOyWnKi Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 9-0-0 3-10-0 3-10-0

Scale = 1:20 6



LUMBER-

BCLL

BCDL

TOP CHORD 2x4 SP No.2

0.0

10.0

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

BRACING-

Horz(CT)

0.00

6

n/a

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

Weight: 37 lb

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

n/a

REACTIONS. All bearings 7-8-0.

Max Horz 2=-68(LC 10) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 6, 8

Rep Stress Incr

Code FBC2020/TPI2014

All reactions 250 lb or less at joint(s) 2, 6, 6 except 8=292(LC 1)

YES

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

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 3-10-0, Exterior(2R) 3-10-0 to 6-10-0, Interior(1) 6-10-0 to 9-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB 0.04

Matrix-S

- 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) 2, 6, 8.

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.

FT = 20%

Philip J. O'Regan PE No.58126 MiTek Inc. DBA MITek USA FL Cert 6634 16025 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 (ev. 5/19/20/20 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 bucking 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/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



HARTLEY BROTHERS - MAHN RES. Truss Type Qty Ply Job Truss T28917256 SCISSORS 3287790 T26 1 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:26 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-CuuCm?0YxQ_82HmmysIRNb5BwCRExf1QIYbdUqyWnKh 7-8-0 Scale = 1:20.7 4x4 = 2 8.00 12 4x6 || 1-5-11 0-4-12 0-4-12 5.00 12 3x4 = 3x4 =

				3-10-0				3-10					
Plate Offse	ets (X,Y)-	[1:0-1-11,0-1-0], [3:0-1-1	1,0-1-0]										
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	-0.01	4	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.18	Vert(CT)	-0.03	4-10	>999	180			
BCLL	0.0	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.03	3	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	30.00					Weight: 28 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD

2x4 SP No.3 **WEBS**

REACTIONS. (size) 1=Mechanical, 3=Mechanical

Max Horz 1=-56(LC 8)

Max Uplift 1=-55(LC 12), 3=-55(LC 13) Max Grav 1=284(LC 1), 3=284(LC 1)

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

TOP CHORD 1-2=-653/227, 2-3=-653/227

1-4=-136/560, 3-4=-136/560 **BOT CHORD**

2-4=-112/494

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 3-10-0, Exterior(2R) 3-10-0 to 7-0-15, Interior(1) 7-0-15 to 7-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) 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) 1, 3.

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.

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 Cect 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022



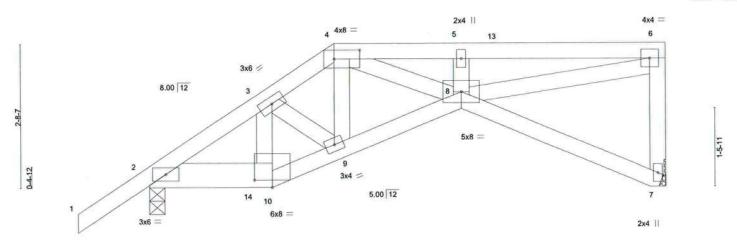
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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 ocllapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
Ansirph Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



HARTLEY BROTHERS - MAHN RES. Truss Type Qty Ply Truss Job T28917257 3287790 T27 Half Hip Girder Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:27 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-g4SbzL1Bik6?fQLyWZGgvpeLccnng3aZWCLA1HyWnKg 5-10-0 1-4-0

Scale = 1:20.8



		 	2-3-8	1-2-6		2-4-8		+		3-10		
Plate Offse	ets (X,Y)	[4:0-5-12,0-2-0], [10:0-4	The state of the s									
LOADING	1.0	SPACING-	2-0-0	CSI.	0.00	DEFL.	in	(loc)	Vdefi >999	L/d 240	PLATES MT20	GRIP 244/190
CLL	7.0	Plate Grip DOL Lumber DOL	1.25 1.25	TC BC	0.20	Vert(LL) Vert(CT)	-0.03 -0.05	8	>999	180	WIIZU	244/190
BCLL BCDL	0.0 *	Rep Stress Incr Code FBC2020/	NO	WB Matrix	0.36	Horz(CT)	0.04	7	n/a	n/a	Weight: 54 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.2 2x4 SP No.2 *Except* **BOT CHORD** 2-10: 2x6 SP No.2

WEBS 2x4 SP No.3

REACTIONS.

(size) 7=Mechanical, 2=0-3-8

Max Horz 2=107(LC 8)

Max Uplift 7=-102(LC 5), 2=-157(LC 8) Max Grav 7=372(LC 1), 2=528(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 2-3=-598/157, 3-4=-594/175, 4-5=-943/268, 5-6=-943/268, 6-7=-335/112

BOT CHORD

2-10=-177/478, 9-10=-189/517, 8-9=-173/527

WEBS

4-8=-143/493, 6-8=-270/950

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) 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=102, 2=157.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 123 lb down and 73 lb up at 1-11-4 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: 1-4=-54, 4-6=-54, 2-10=-20, 8-10=-20, 7-8=-20

Concentrated Loads (lb) Vert: 14=-123(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.

0 0 0

Structural wood sheathing directly applied or 5-9-15 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

October 5,2022

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

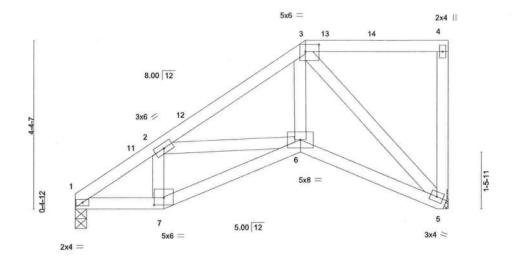
Design valid for use only with MiTeNo connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



HARTLEY BROTHERS - MAHN RES. Truss Type Qty Ply Job Truss T28917258 3287790 T28 Half Hip Job Reference (optional) Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:28 2022 Page 1 ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-8H0zBh1pT1EsHaw84HnvS0AXD07_PXJjls4kZjyWnKf Builders FirstSource (Lake City,FL),

3-8-0

Scale = 1:28.9



3-10-0 Plate Offsets (X,Y)--[3:0-4-4,0-2-4], [7:0-3-0,0-2-4] LOADING (psf) SPACING-2-0-0 CSI. DEFL. l/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.25 TC 0.14 Vert(LL) -0.01 6-7 >999 240 MT20 244/190 TCDL 7.0 Lumber DOL 1.25 BC 0.16 Vert(CT) -0.02 6-7 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.27 Horz(CT) 0.02 5 n/a n/a BCDL 10.0 Code FBC2020/TPI2014 Matrix-MS Weight: 56 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

5-10-0

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.3

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

Max Horz 1=138(LC 12)

Max Uplift 1=-63(LC 12), 5=-101(LC 12) Max Grav 1=352(LC 1), 5=352(LC 1)

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

TOP CHORD 1-2=-515/126, 2-3=-460/143

BOT CHORD 1-7=-242/424, 6-7=-254/461, 5-6=-169/354

WEBS 3-5=-468/232, 3-6=-137/378

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 3-0-0, Interior(1) 3-0-0 to 5-11-8, Exterior(2E) 5-11-8 to 9-6-4 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.
- 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) 1 except (ft=lb) 5=101.

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.

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

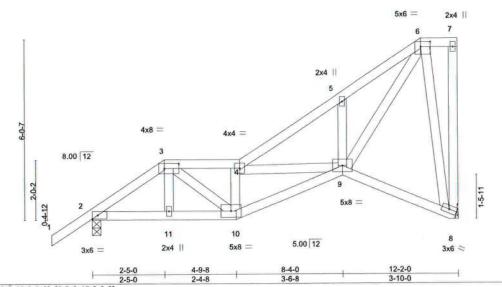
October 5,2022

sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MTek® 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 buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent buckling of individual truss was prevent by the property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSUFH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



HARTLEY BROTHERS - MAHN RES. Truss Type Qty Ply Truss Job T28917259 Roof Special Girder 3287790 T29 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:30 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-5f7jcN33?fUaWu4XBiqOXRGsopn0tRW0CAZrdcyWnKd Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 10-11-8 12-2-0 4-11-0 3-5-0

Scale = 1:36.9



[3:0-5-12,0-2-0], [6:0-3-12,0-2-0] Plate Offsets (X,Y)--DEFL. I/defl L/d PLATES GRIP SPACING-CSL in (loc) LOADING (psf) 2-0-0 Vert(LL) -0.02 10 >999 240 MT20 244/190 0.14 TCLL 20.0 Plate Grip DOL 1.25 TC -0.04 9-10 >999 180 BC 0.25 Vert(CT) TCDL 7.0 Lumber DOL 1.25 Horz(CT) 0.02 n/a WB 0.29 n/a BCLL 0.0 Rep Stress Incr NO Code FBC2020/TPI2014 Weight: 82 lb FT = 20%Matrix-MS BCDL 10.0

LUMBER-

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

BRACING-

TOP CHORD

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

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

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

Max Horz 2=221(LC 8)

Max Uplift 8=-151(LC 8), 2=-104(LC 8) Max Grav 8=439(LC 1), 2=514(LC 1)

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

2-3=-608/84, 3-4=-731/94, 4-5=-610/99, 5-6=-615/193 TOP CHORD

BOT CHORD 2-11=-226/474, 10-11=-225/476, 9-10=-266/842

WEBS 3-10=-42/315, 4-10=-447/123, 4-9=-294/63, 6-9=-281/749, 6-8=-415/174

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- Provide adequate drainage to prevent water ponding.
- 5) 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.
- 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) 8=151, 2=104.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 66 lb up at 2-5-0 on top chord, and 23 lb down and 11 lb up at 2-5-0 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

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

Vert: 1-3=-54, 3-4=-54, 4-6=-54, 6-7=-54, 10-12=-20, 9-10=-20, 8-9=-20

Concentrated Loads (lb)

Vert: 11=8(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.

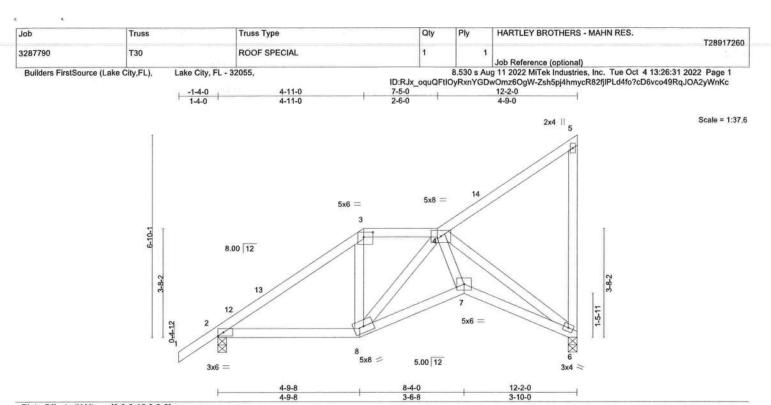
Philip J. O'Regan PE No.88126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

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





riate One	sets (X,Y)	[3:0-3-12,0-2-0]		T		T							
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	0.26	Vert(LL)	-0.03	7	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(CT)	-0.06	7	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.05	6	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	100000000000000000000000000000000000000					Weight: 73 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD

2x4 SP No.3 WEBS

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

Max Horz 2=245(LC 12)

Max Uplift 6=-177(LC 12), 2=-92(LC 12) Max Grav 6=441(LC 1), 2=521(LC 1)

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

TOP CHORD

2-3=-551/49, 3-4=-397/87

2-8=-186/400, 7-8=-227/605, 6-7=-321/943 **BOT CHORD**

4-8=-252/32, 4-7=-198/715, 4-6=-1066/362 WEBS

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 4-11-0, Exterior(2E) 4-11-0 to 7-5-0, Interior(1) 7-5-0 to 12-0-4 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.
- 6) Bearing at joint(s) 6 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) 2 except (jt=lb) 6=177.

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.

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 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

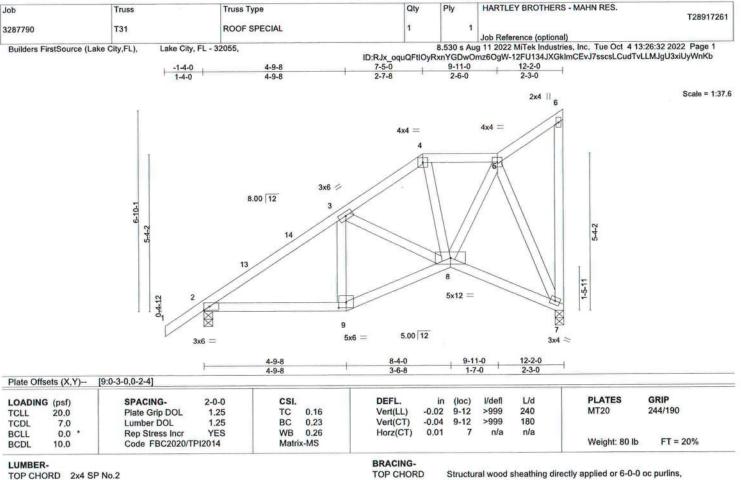
October 5,2022



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





BOT CHORD

except end verticals.

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

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

BOT CHORD

2x4 SP No.3 WEBS

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

Max Horz 2=245(LC 12)

Max Uplift 7=-177(LC 12), 2=-92(LC 12)

Max Grav 7=441(LC 1), 2=521(LC 1)

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

TOP CHORD

2-3=-563/56, 3-4=-406/83, 4-5=-311/84

BOT CHORD WEBS

2-9=-204/420, 8-9=-219/464 5-8=-144/325, 5-7=-463/192

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 7-5-0, Exterior(2E) 7-5-0 to 9-11-0, Interior(1) 9-11-0 to 12-0-4 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.
- 6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=177.

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 Ibe. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

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



HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty Ply T28917262 T32 Roof Special 1 3287790 Job Reference (optional) Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:33 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-VEpsEP5xlas9NLp6sqN594tH21gL4hLSv8oVEwyWnKa

9-11-0

12-5-0

16-7-12

Scale = 1:53.7

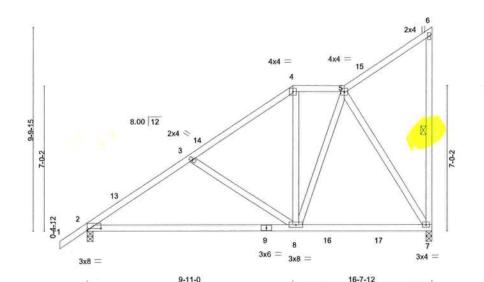


Plate Of	fsets (X,Y)	[2:0-8-0,0-1-0]									T		
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.52	Vert(LL)	-0.20	8-12	>998	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.79	Vert(CT)	-0.40	8-12	>490	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.01	7	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	W 193					Weight: 110 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2

2x4 SP No.3 WEBS

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

Max Horz 2=347(LC 12)

Max Uplift 7=-256(LC 12), 2=-103(LC 12)

Max Grav 7=732(LC 19), 2=758(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-823/89, 3-4=-597/36, 4-5=-442/70

BOT CHORD 2-8=-329/752, 7-8=-117/330

WEBS 3-8=-345/197, 5-8=-139/415, 5-7=-626/223

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 9-11-0, Exterior(2E) 9-11-0 to 12-5-0, Interior(1) 12-5-0 to 16-6-0 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.
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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=256, 2=103.

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. ChesterBeld, MO 63017 Date:

October 5,2022





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

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

except end verticals.

1 Row at midpt

Ply HARTLEY BROTHERS - MAHN RES. Qtv Job Truss Truss Type T28917263 3287790 T33 Half Hip Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:33 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055. ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-VEpsEP5xlas9NLp6sqN594tJP1mt4lwSv8oVEwyWnKa 12-5-0 1-4-0 7-0-0 Scale = 1:51.5 4x8 = 2x4 || 5 15 16 8.00 12 5x6 / 1 8 7 3x6 = 2x4 || 3x4 = 3x6 7-0-0 16-7-12 [3:0-2-12,0-3-0], [4:0-5-12,0-2-0] Plate Offsets (X,Y)-GRIP DEFL. I/defi L/d PLATES SPACING-LOADING (psf) 0.43 Vert(LL) -0.06 9-12 >999 240 MT20 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.43 Vert(CT) -0.13 9-12 >999 180 TCDL 7.0 Lumber DOL 1,25 BC

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

WEBS

0.01

n/a

except end verticals.

1 Row at midpt

n/a

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

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

5-6, 4-6

Weight: 110 lb

FT = 20%

LUMBER-

REACTIONS.

BCLL

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

0.0

10.0

VVEBS 2X4 SF 140.5

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

Max Horz 2=312(LC 12) Max Uplift 6=-208(LC 12), 2=-120(LC 12) Max Grav 6=608(LC 1), 2=685(LC 1)

Rep Stress Incr

Code FBC2020/TPI2014

Max Grav 6=608(LC 1), 2=685(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-788/90, 3-4=-371/60

BOT CHORD 2-9=-270/590, 7-9=-270/593

WEBS 3-9=0/280, 3-7=-496/230, 4-7=-109/409, 4-6=-524/213

NOTES-

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

2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 12-5-0, Exterior(2E) 12-5-0 to 16-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-MS

0.50

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.

YES

- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=208, 2=120.

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.

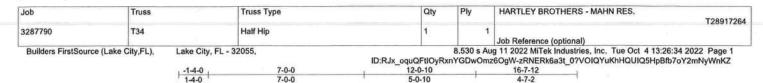
Philip J. O'Regan PE. No. 58126 MiTek Inc. DBA MITek USA FL. Cert 6634 16023 Swingley Ridge Rd. ChesterBeld, MO 63017 Date:

October 5,2022

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 properly 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





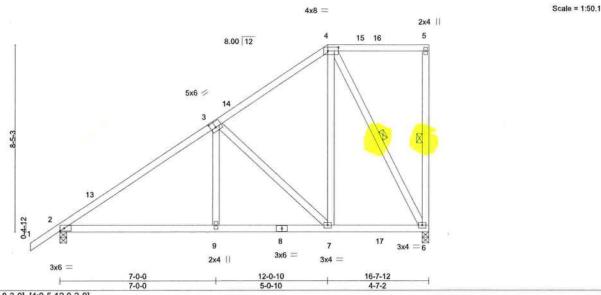


Plate Offsets (X,Y)-[3:0-2-12,0-3-0], [4:0-5-12,0-2-0] LOADING (psf) SPACING-CSI. DEFL. **PLATES** (loc) I/defl L/d 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.42 Vert(LL) -0.08 9-12 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.49 Vert(CT) -0.15 9-12 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.53 Horz(CT) 0.01 n/a n/a BCDL Code FBC2020/TPI2014 Matrix-MS Weight: 109 lb FT = 20% 10.0

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.3 WEBS

REACTIONS. (size) 6=0-3-8, 2=0-3-8 Max Horz 2=304(LC 12)

Max Uplift 6=-202(LC 12), 2=-124(LC 12)

Max Grav 6=676(LC 2), 2=768(LC 19)

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

TOP CHORD 2-3=-856/96, 3-4=-412/72

BOT CHORD 2-9=-266/711, 7-9=-266/716, 6-7=-100/298

3-9=0/272, 3-7=-571/223, 4-7=-110/559, 4-6=-613/208 WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 12-0-10, Exterior(2E) 12-0-10 to 16-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=202, 2=124.

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.

Structural wood sheathing directly applied or 5-11-10 oc purlins,

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

except end verticals.

1 Row at midpt

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

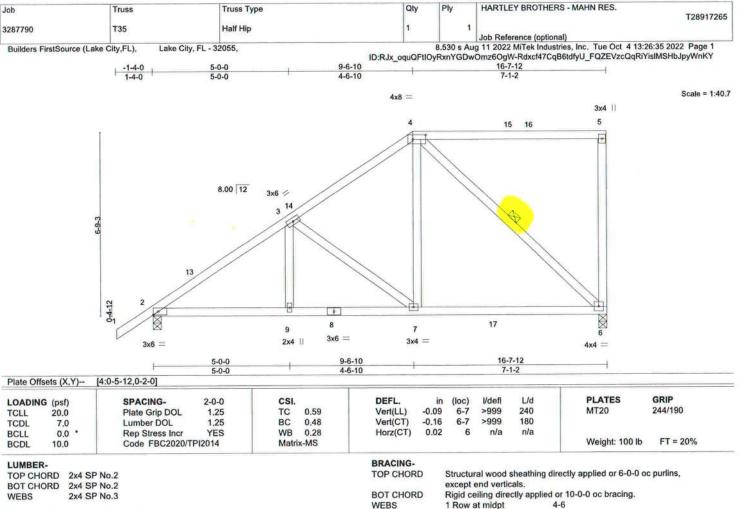
October 5,2022



🛦 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 amage. 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





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

Max Horz 2=246(LC 12)

Max Uplift 6=-161(LC 12), 2=-146(LC 12) Max Grav 6=677(LC 2), 2=759(LC 19)

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

TOP CHORD 2-3=-923/151, 3-4=-601/122

2-9=-279/773, 7-9=-279/773, 6-7=-143/463 **BOT CHORD**

3-7=-401/170, 4-7=-56/506, 4-6=-608/190 WEBS

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 9-6-10, Exterior(2R) 9-6-10 to 13-9-9, Interior(1) 13-9-9 to 16-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) 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) 6=161, 2=146.

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. 88126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

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



Truss Type Qty HARTLEY BROTHERS - MAHN RES. Job Truss T28917266 HALF HIP GIRDER 1 3287790 T36 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:36 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-vpV_sQ7qbVEjEpXhYyxoniVnoEoSH7Tub619rFyWnKX 11-10-3 16-7-12 Scale = 1:34.0 4x8 = 2x4 || 4x4 = 4 5 3 13 14 15 12 8.00 12 16 8 17 19 9 7 4x6 = 2x4 || 3x10 = 3x6 || 7-0-10 11-10-3 16-7-12 4-9-9 [2:0-2-3,Edge], [3:0-5-12,0-2-0] Plate Offsets (X,Y)-SPACING-CSI. **PLATES** GRIP LOADING (psf) 2-0-0 (loc) I/defl L/d 244/190 TCLL 20.0 Plate Grip DOL 1.25 TC 0.62 Vert(LL) 0.05 9-11 >999 240 MT20 Vert(CT) TCDL 7.0 Lumber DOL 1.25 BC 0.44 -0.08 9-11 >999 180 0.0 WB 0.45 Horz(CT) 0.01 6 n/a BCLL Rep Stress Incr NO n/a Code FBC2020/TPI2014 Matrix-MS Weight: 106 lb FT = 20% BCDL 10.0 LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 4-2-4 oc purlins,

BOT CHORD

except end verticals.

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

TOP CHORD 2x4 SP No.2

BOT CHORD 2x6 SP No.2

2x4 SP No.3 WEBS

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

Max Horz 2=189(LC 8)

Max Uplift 6=-509(LC 5), 2=-346(LC 8) Max Grav 6=1053(LC 1), 2=943(LC 1)

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

TOP CHORD 2-3=-1245/493, 3-4=-804/402, 4-5=-804/402, 5-6=-962/499

BOT CHORD 2-9=-467/950, 7-9=-471/964

3-9=-150/547, 4-7=-483/383, 5-7=-561/1123 WEBS

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=509, 2=346.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 111 lb down and 114 lb up at 9-1-6, 111 lb down and 111 lb up at 11-1-6, and 111 lb down and 114 lb up at 13-1-6, and 111 lb down and 116 lb up at 15-1-6 on top chord, and 250 lb down and 163 lb up at 7-0-10, 57 lb down and 27 lb up at 9-1-6, 57 lb down and 27 lb up at 11-1-6, and 57 lb down and 27 lb up at 13-1-6, and 58 lb down and 31 lb up at 15-1-6 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 2-6=-20

Concentrated Loads (lb)

Vert: 9=-242(B) 12=-68(B) 13=-68(B) 14=-68(B) 15=-71(B) 16=-45(B) 17=-45(B) 18=-45(B) 19=-50(B)

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'Regna PE. No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

🔈 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 amage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Ansi/TPH1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



HARTLEY BROTHERS - MAHN RES. Truss Type Qty Ply Job Truss T28917267 3287790 T37 Common Girder Job Reference (optional)

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:37 2022 Page 1

ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-N02N4m8SMoMasz6t5gS1Jw23peBh0Th2pmmiNiyWnKW Builders FirstSource (Lake City,FL), Lake City, FL - 32055, 8-11-15 2-10-15 6-1-0 12-2-0 Scale = 1:36.3 4x6 || 10.00 12 3x6 4 3x6 < 2 5 0-7-7 15 17 7 18 19 6 8 3x8 || 7x8 = 3x8 || 4x8 = 12-2-0 6-1-0 8-11-15 3-2-1 [1:0-5-6,0-2-0], [5:0-5-6,0-2-0], [6:0-5-8,0-1-8], [7:0-4-0,0-5-0], [8:0-5-8,0-1-8] Plate Offsets (X,Y)--PLATES GRIP SPACING-CSI. DEFL in I/def 1/d (loc) LOADING (psf) 244/190 MT20 Plate Grip DOL 1.25 TC 0.15 Vert(LL) -0.04>999 240 TCLL 20.0

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

-0.07

0.01

>999

n/a

5

180

n/a

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

Structural wood sheathing directly applied or 5-8-1 oc purlins.

LUMBER-

TCDL

BCLL

BCDL

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

WEBS 2x4 SP No.3

7.0

0.0

10.0

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

Max Horz 1=112(LC 5)

Max Uplift 1=-817(LC 8), 5=-988(LC 9)

Max Grav 1=4021(LC 2), 5=4880(LC 2)

Lumber DOL

Rep Stress Incr

Code FBC2020/TPI2014

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-4867/1002, 2-3=-3572/782, 3-4=-3572/782, 4-5=-4881/1003

BOT CHORD 1-8=-784/3708, 7-8=-784/3708, 6-7=-735/3720, 5-6=-735/3720

WEBS 3-7=-923/4370, 4-7=-1371/366, 4-6=-327/1683, 2-7=-1353/362, 2-8=-322/1665

1.25

NO

BC

WB 0.83

Matrix-MS

0.19

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) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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)
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1355 lb down and 288 lb up at 1-8-12, 1355 lb down and 288 lb up at 3-8-12, 1355 lb down and 287 lb up at 3-8-12, 1355 lb down and 287 lb up at 7-8-12, and 1350 lb down and 287 lb up at 9-8-12, and 1356 lb down and 281 lb up at 11-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

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.

FT = 20%

Weight: 173 lb

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

October 5,2022

Continued on page 2



Job	Truss	Truss Type	Qty	Ply	HARTLEY BROTHERS - MAHN RES.	7267
3287790	Т37	Common Girder	1	2	Job Reference (optional)	7207

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MTek Industries, Inc. Tue Oct 4 13:26:38 2022 Page 2 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-sCclH69476URU7h3fNzGs7bEZ2XwlwxB2PWGv8yWnKV

LOAD CASE(S) Standard

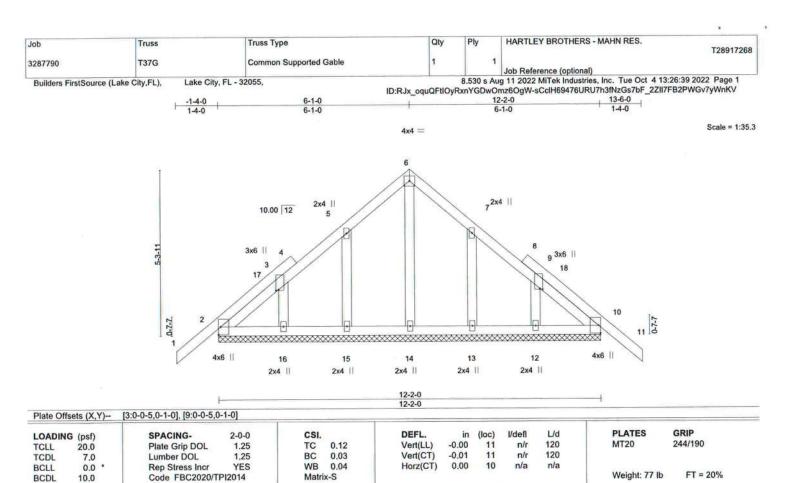
Uniform Loads (plf)

Vert: 1-3=-54, 3-5=-54, 9-12=-20

Concentrated Loads (lb)

Vert: 14=-1233(B) 15=-1226(B) 16=-1226(B) 17=-1226(B) 18=-1227(B) 19=-1227(B)





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

REACTIONS. All bearings 12-2-0.

(lb) - Max Horz 2=128(LC 11)

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

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

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

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 6-1-0, Corner(3R) 6-1-0 to 9-1-0, Exterior(2N) 9-1-0 to 13-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 5) Gable requires continuous bottom chord bearing.
- 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, 15, 16, 13, 12
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.

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

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 Mil'ek Inc. DBA Mil'ek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022



HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty Ply T28917269 3287790 T38 Monopitch 1 Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:39 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-KOA7VSAitQdI5GGFD5UVOL7N0RruUWEKH3FpSayWnKU

10-7-8

Scale = 1:52.4

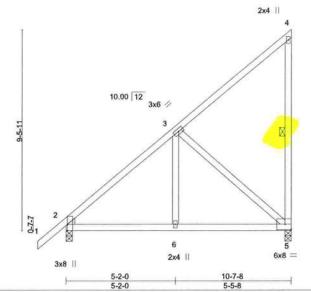


Plate Of	fsets (X,Y)	[2:0-3-8,Edge]										<u> </u>	
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defi	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.30	Vert(LL)	0.04	5-6	>999	240	MT20	244/190	
TCDL	7.0	Lumber DOL	1,25	BC	0.27	Vert(CT)	-0.04	5-6	>999	180			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.32	Horz(CT)	-0.01	2	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-MS	1					Weight: 69 lb	FT = 20%	

LUMBER-

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

WEBS 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 8-11-7 oc bracing. **WEBS**

1 Row at midpt

REACTIONS.

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

Max Horz 2=333(LC 12)

Max Uplift 2=-46(LC 9), 5=-236(LC 12) Max Grav 2=464(LC 1), 5=383(LC 1)

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

TOP CHORD 2-3=-409/187

BOT CHORD 2-6=-400/261, 5-6=-400/261

WEBS 3-6=-316/238, 3-5=-339/520

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-4-0 to 1-8-0, Interior(1) 1-8-0 to 10-5-12 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=236

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'Rogan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chostorfield, MO 63017

October 5,2022

HARTLEY BROTHERS - MAHN RES. Qty Ply Job Truss Truss Type T28917270 GABLE 3287790 T38G Job Reference (optional)

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:40 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-obkVioBKejl9jQrSno?kxYgaMrFkD0cUWj?M_0yWnKT





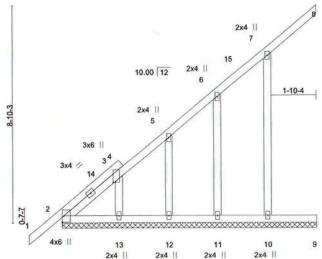


Plate Offs	sets (X,Y)	[3:0-0-5,0-1-0]				_						
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.13	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	-0.00	8	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S						Weight: 67 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS. All bearings 10-4-0.

(lb) - Max Horz 2=317(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 10, 11, 12, 13 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 9, 10, 11, 12, 13

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

2-3=-500/248, 3-5=-393/183, 5-6=-302/139 TOP CHORD

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-4-0 to 1-8-0, Exterior(2N) 1-8-0 to 10-4-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 10, 11, 12, 13.

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

October 5,2022



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



HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty T28917271 3287790 T41 Roof Special Girder 1 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:42 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-kzsG7UCbAL?tyk?quD2C0zlvbfsJhrHnz1UT3vyWnKR 12-3-8 15-3-8 18-7-0 Scale = 1:32.6 2x4 || 3x4 = 3x4 = 5x6 = 3x4 = 3x6 = 1 3x6 = 2 4 5 6 7 3 17 18 19 20 21 22 2-1-2 2-1-2 9 13 12 11 10 9 3×6 = 23 25 26 28 316 3x4 4x4 7x8 = 4x4 = 3x4 2x4 || 2x4 || 6.00 12 15 2x4 = 16 2x4 = 3-0-0 3-0-0 3-3-8 [5:0-3-0,0-3-0], [10:0-2-0,0-3-15], [11:0-4-0,0-4-8], [12:0-2-0,0-1-15] Plate Offsets (X,Y)-LOADING (psf) SPACING-2-0-0 CSI. DEFL l/defl L/d PLATES GRIP (loc) TCLL 20.0 Plate Grip DOL 1.25 TC 0.21 Vert(LL) -0.0711 >999 240 MT20 244/190 TCDL Lumber DOL 1.25 BC 0.35 Vert(CT) -0.147.0 >999 180 11 WB 0.43 0.14 BCLL 0.0 Rep Stress Incr NO Horz(CT) 16 n/a n/a Code FBC2020/TPI2014 BCDL Weight: 148 lb FT = 20%10.0 Matrix-MS LUMBER-**BRACING-**TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-4-1 oc purlins,

BOT CHORD

JOINTS

except end verticals.

1 Brace at Jt(s): 13, 9

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

BOT CHORD

2x6 SP No.2 *Except* 12-15,10-16: 2x4 SP No.3 2x4 SP No.3 *Except*

WEBS 1-15,7-16: 2x6 SP No.2

REACTIONS.

(size) 15=0-3-0, 16=0-3-0

Max Uplift 15=-223(LC 4), 16=-226(LC 4) Max Grav 15=691(LC 1), 16=694(LC 1)

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

TOP CHORD 14-15=-691/223, 1-14=-630/220, 1-2=-1028/333, 2-3=-1639/530, 3-4=-1798/581,

4-5=-1798/581, 5-6=-1632/526, 6-7=-1031/334, 8-16=-694/226, 7-8=-631/223

12-13=-333/1028, 11-12=-530/1639, 10-11=-537/1654, 9-10=-334/1031 BOT CHORD

WEBS 1-13=-360/1116, 2-13=-506/208, 2-12=-225/696, 3-12=-263/124, 5-10=-259/121,

6-10=-219/685, 6-9=-507/209, 7-9=-362/1119

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 15, 16 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)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 62 lb down and 20 lb up at 1-6-4, 62 lb down and 20 lb up at 3-6-4, 62 lb down and 20 lb up at 5-6-4, 62 lb down and 20 lb up at 7-6-4, 62 lb down and 20 lb up at 9-6-4, 62 lb down and 20 lb up at 11-6-4, 62 lb down and 20 lb up at 13-6-4, and 62 lb down and 20 lb up at 15-6-4, and 60 Ib down and 22 lb up at 17-6-4 on top chord, and 22 lb down at 1-6-4, 22 lb down at 3-6-4, 22 lb down at 5-6-4, 22 lb down at 7-6-4, 22 lb down at 9-6-4, 22 lb down at 11-6-4, 22 lb down at 13-6-4, and 22 lb down at 15-6-4, and 23 lb down at 17-6-4 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

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. S\$126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 5,2022

Continued on page 2

MARNING - 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 MiTeke 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 property 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 Waklorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	HARTLEY BROTHERS - MAHN RES.	T28917271
3287790	T41	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource (Lake City,FL),

Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:42 2022 Page 2 ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-kzsG7UCbAL?tyk?quD2C0zlvbfsJhrHnz1UT3vyWnKR

LOAD CASE(S) Standard

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

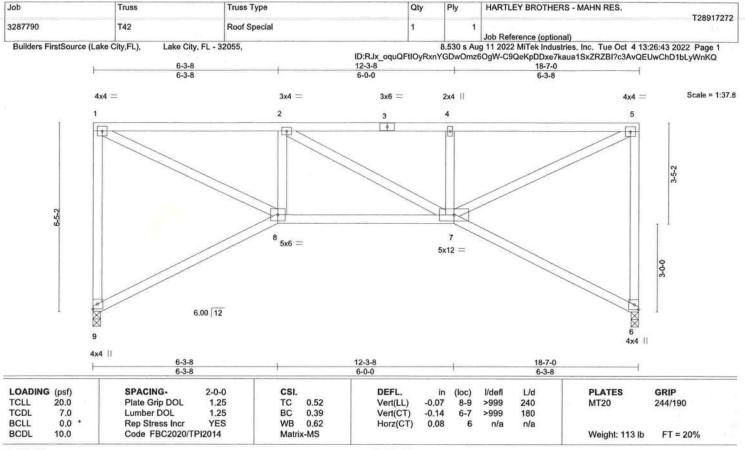
Uniform Loads (plf)

Vert: 1-7=-54, 12-14=-20, 10-12=-20, 8-10=-20

Concentrated Loads (lb)

Vert: 13=-3(F) 2=-2(F) 11=-3(F) 4=-2(F) 9=-3(F) 17=-2(F) 18=-2(F) 19=-2(F) 20=-2(F) 21=-2(F) 22=-3(F) 23=-3(F) 24=-3(F) 25=-3(F) 26=-3(F) 27=-3(F)

28=-5(F)



LUMBER-

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

2x4 SP No.3 WEBS

BRACING-

TOP CHORD

Structural wood sheathing directly applied or 5-3-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 7-6-1 oc bracing.

REACTIONS.

(size) 9=0-3-0, 6=0-3-0 Max Uplift 9=-183(LC 8), 6=-183(LC 8) Max Grav 9=677(LC 1), 6=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-9=-623/456, 1-2=-941/611, 2-4=-957/627, 4-5=-941/611, 5-6=-623/456

TOP CHORD **BOT CHORD** 7-8=-627/957

WEBS 1-8=-677/1041, 2-8=-344/343, 4-7=-343/343, 5-7=-676/1040

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat, II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=183, 6=183.

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

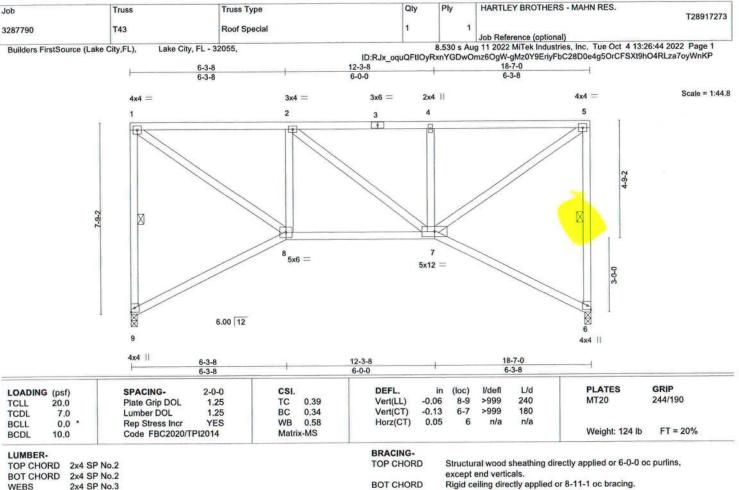
October 5,2022



MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITER REFERENCE PAGE MIL7473 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 Waktorf, MD 20601





WEBS

1 Row at midpt

1-9.5-6

2x4 SP No.3 WEBS

REACTIONS. (size) 9=0-3-0, 6=0-3-0

Max Uplift 9=-183(LC 8), 6=-183(LC 8) Max Grav 9=677(LC 1), 6=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 1-9=-622/455, 1-2=-662/430, 2-4=-673/441, 4-5=-661/430, 5-6=-622/455

BOT CHORD

WEBS 1-8=-524/805, 2-8=-345/345, 4-7=-345/344, 5-7=-523/805

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=183, 6=183,

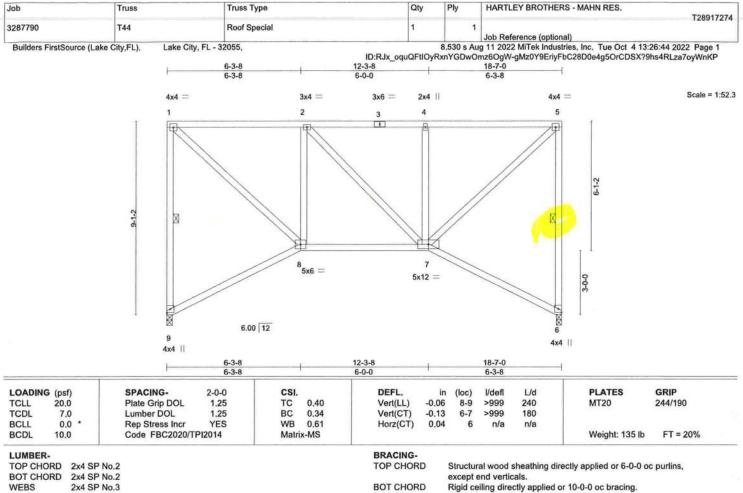
This item has been electronically signed and sealed by ORegan, Philip, PE using a Digital Signature. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

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

October 5,2022







BOT CHORD WEBS

1 Row at midpt

1-9, 5-6

2x4 SP No.2

2x4 SP No.3 WERS

(size) 9=0-3-0, 6=0-3-0

Max Uplift 9=-183(LC 8), 6=-183(LC 8) Max Grav 9=677(LC 1), 6=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-9=-622/454, 1-2=-510/332, 2-4=-519/340, 4-5=-510/331, 5-6=-621/454 TOP CHORD

BOT CHORD 7-8=-340/519

WEBS 1-8=-449/691, 2-8=-346/345, 4-7=-346/345, 5-7=-449/690

NOTES-

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4,2psf; BCDL=3,0psf; h=20ft; Cat, II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=183, 6=183.

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 Ceri 6634 16025 Swingley Ridge Rd. Chosterfield, MO 63017

October 5,2022



🛦 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 anage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

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



HARTLEY BROTHERS - MAHN RES. Ply Qty Job Truss Truss Type T28917275 Roof Special T45 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:45 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-8YXOIVETTGNSqBjPZLbvecNMwssRu7vDf?i7fEyWnKO Scale = 1:59.9 3x4 = 3x4 = 3x6 =2x4 || 3x4 = 2 4 5 0-5-2 10 5x6 = 5x12 = 6.00 12 4x4 || 4x4 || 12-3-8 18-7-0 GRIP L/d PLATES SPACING-2-0-0 CSI. DEFL. (loc) I/def LOADING (psf) 244/190 -0.07 7-8 >999 240 MT20 Plate Grip DOL TC 0.40 Vert(LL) 1.25 TCLL 20,0 -0.13 0.39 >999 180 Lumber DOL 1.25 BC Vert(CT) 6-7 TCDL 7.0 Horz(CT) 0.04 Rep Stress Incr YES WB 0.69 n/a BCLL 0.0 FT = 20% Weight: 148 lb Code FBC2020/TPI2014 Matrix-MS BCDL 10.0 BRACING-LUMBER-Structural wood sheathing directly applied or 6-0-0 oc purlins, TOP CHORD 2x4 SP No.2 TOP CHORD except end verticals.

BOT CHORD

WEBS

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

2x4 SP No.3 WEBS

REACTIONS. (size) 9=0-3-0, 6=0-3-0

Max Uplift 9=-183(LC 8), 6=-183(LC 8) Max Grav 9=747(LC 2), 6=739(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 1-9=-650/454, 1-2=-464/270, 2-4=-463/276, 4-5=-457/269, 5-6=-643/454

BOT CHORD

1-8=-407/700, 2-8=-347/346, 4-7=-346/345, 5-7=-407/689 WEBS

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=183, 6=183,

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.

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

1 Row at midpt

1-9, 5-6, 2-7

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

October 5,2022

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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIL-7473 fev. 3-19/2/02/0 BET URE 1982.

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/TP11 Quality Criteria, DSB-89 and BCSI Building Compoints of the property of the prop



Truss Type HARTLEY BROTHERS - MAHN RES. Job Truss Qty T28917276 3287790 T46 Roof Special 1 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:46 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-dk5mzrF5EZVJRLIc7368BpwWeGCRdYRMufShCgyWnKN 18-7-0 Scale = 1:67.4 3x6 = 2x4 11 3x4 = 3x4 = 3x4 = 5 2 4 1-9-2 10 5x6 = 5x12 = 6.00 12 4x4 || 4x4 || 6-3-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d PLATES GRIP in (loc) Plate Grip DOL TC 0.47 Vert(LL) -0.07 244/190 TCLL 20.0 1.25 7-8 >999 240 MT20 TCDL 7.0 Lumber DOL 1.25 BC 0.40 Vert(CT) -0.136-7 >999 180 0.0 Rep Stress Incr YES WB 0.80 0.04 BCLL Horz(CT) 6 n/a n/a Code FBC2020/TPI2014 Weight: 160 lb FT = 20% BCDL 10.0 Matrix-MS LUMBER-**BRACING-**TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD

WEBS

except end verticals.

1 Row at midpt

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

1-9, 5-6, 2-8, 2-7, 4-7

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

(size) 9=0-3-0, 6=0-3-0

Max Uplift 9=-183(LC 8), 6=-183(LC 8) Max Grav 9=750(LC 2), 6=743(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown TOP CHORD 1-9=-654/453, 1-2=-394/227, 2-4=-393/233, 4-5=-388/227, 5-6=-646/453

BOT CHORD

1-8=-382/660, 2-8=-348/347, 4-7=-347/346, 5-7=-381/650 WEBS

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=183, 6=183.

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 16025 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022



MARNING - 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 ocllapse 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



T28917277 T47 Roof Special 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:48 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-5xf9ABGj?tdA3VtohmdNj1TlDgXxM2yW7JBEk6yWnKM 12-3-8 14-7-8 18-7-0 9-3-8 3-11-8 Scale = 1:42.2 4x4 = 8.00 12 3x6 > 3x6 / 3 4x4 = 3x6 = 3x6 = 4x4 = 7 6-11-7 10 12 11 5x6 = 5x6 = 3-4-12 3x8 = 3-4-12 13 4x4 > 4x4 = 6.00 12 8 14 2x4 || 2x4 || PLATES GRIP DEFL. I/def 1/d LOADING (psf) SPACING-2-0-0 CSI. 244/190 MT20 Plate Grip DOL TC 0.22 Vert(LL) -0.11 >999 240 1.25 20.0 TCLL 1.25 BC 0.45 Vert(CT) -0.21 10-11 >999 180 TCDL 7.0 Lumber DOL WB 0.59 Horz(CT) 0.24 8 n/a n/a 0.0 Rep Stress Incr YES BCLL Weight: 109 lb FT = 20% Code FBC2020/TPI2014 Matrix-MS BCDL 10.0 BRACING-LUMBER-

TOP CHORD

BOT CHORD

Qty

Ply

REACTIONS.

BOT CHORD

WEBS

TOP CHORD 2x4 SP No.2

2x4 SP No.2

2x4 SP No.3

Job

(size) 14=0-3-8, 8=0-3-8

Max Horz 14=78(LC 9)

Truss

Max Uplift 14=-135(LC 12), 8=-135(LC 13) Max Grav 14=677(LC 1), 8=677(LC 1)

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

1-14=-638/169, 1-2=-1476/334, 2-3=-2038/461, 3-4=-1073/237, 4-5=-1073/246, 5-6=-2038/399, 6-7=-1476/273, 7-8=-638/144 TOP CHORD

Truss Type

12-13=-476/1810, 11-12=-391/1610, 10-11=-297/1610, 9-10=-342/1810 BOT CHORD

1-13=-350/1551, 2-13=-1273/329, 3-12=-197/838, 3-11=-866/282, 4-11=-205/985, WEBS

5-11=-866/228, 5-10=-136/838, 6-9=-1273/273, 7-9=-286/1551

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-3-8, Exterior(2R) 9-3-8 to 12-1-12, Interior(1) 12-1-12 to 18-5-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate arip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.

4) Provide adequate drainage to prevent water ponding.

- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 14, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=135, 8=135.

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'Rogan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

MiTek

16023 Swingley Ridge Rd Chesterfield, MO 63017

October 5,2022



Structural wood sheathing directly applied or 4-0-12 oc purlins,

Rigid ceiling directly applied or 8-6-15 oc bracing.

except end verticals.

HARTLEY BROTHERS - MAHN RES.

Truss Type Qty Ply HARTLEY BROTHERS - MAHN RES. Job Truss T28917278 TAR Roof Special 3287790 Job Reference (optional) Lake City, FL - 32055, 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:49 2022 Page 1 Builders FirstSource (Lake City,FL), ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-1Jnvbtl_XUttlp1AoBgroSY?bTDdqwhpadgLo?yWnKK 12-7-8 3-4-0 18-7-0 Scale = 1:42 2 4x4 = 8.00 12 12 4x12 = 4x12 = 6x8 = 6x8 = 5 6-11-7 4-8-12 8 3x8 = 5x12 = 5x12 = 6.00 12 10 2x4 || 2x4 || 18-7-0 6-3-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** GRIP in (loc) Plate Grip DOL 1.25 TC 0.61 Vert(LL) -0.15 8-9 >999 240 MT20 244/190 TCLL 20.0 TCDL 7.0 Lumber DOL 1.25 BC 0.43 Vert(CT) -0.278-9 >823 180 0.0 Rep Stress Incr YES WB 0.77 Horz(CT) 0.28 6 n/a BCLL n/a Code FBC2020/TPI2014 Matrix-MS Weight: 109 lb FT = 20% BCDL 10.0

LUMBER-

WEBS

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

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

TOP CHORD

Structural wood sheathing directly applied or 3-2-2 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-11-7 oc bracing.

REACTIONS.

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

Max Horz 10=-48(LC 10)

Max Uplift 10=-139(LC 12), 6=-139(LC 13) Max Grav 10=677(LC 1), 6=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-10=-621/174, 1-2=-1988/431, 2-3=-1090/227, 3-4=-1090/234, 4-5=-1988/388,

TOP CHORD 5-6=-621/158

BOT CHORD 8-9=-436/1902, 7-8=-359/1902

1-9=-437/2014, 2-9=-379/128, 2-8=-1126/298, 3-8=-176/968, 4-8=-1126/255, WEBS

4-7=-379/128, 5-7=-394/2014

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 3-1-12, Interior(1) 3-1-12 to 9-3-8, Exterior(2R) 9-3-8 to 12-3-8, Interior(1) 12-3-8 to 18-5-4 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.
- 7) Bearing at joint(s) 10, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=139, 6=139.

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.38126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

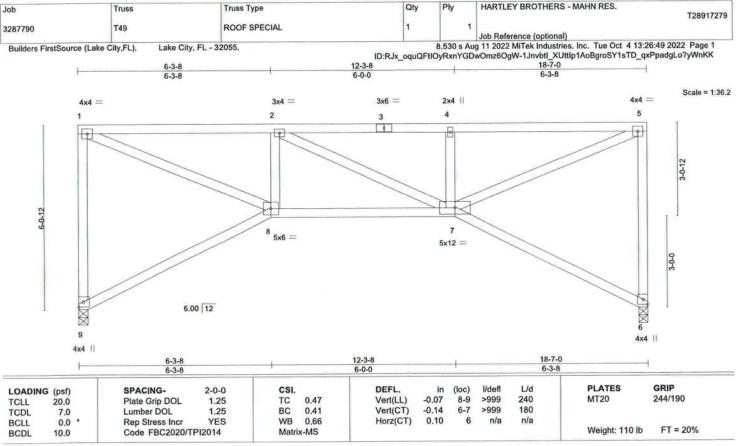
MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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 anage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITPH Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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





LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 2x4 SP No.3 BRACING-

Structural wood sheathing directly applied or 4-10-14 oc purlins, TOP CHORD

except end verticals.

Rigid ceiling directly applied or 7-0-12 oc bracing. **BOT CHORD**

REACTIONS.

(size) 9=0-3-8, 6=0-3-8 Max Uplift 9=-183(LC 8), 6=-183(LC 8) Max Grav 9=677(LC 1), 6=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten, - All forces 250 (lb) or less except when shown. 1-9=-623/456, 1-2=-1063/690, 2-4=-1080/708, 4-5=-1062/690, 5-6=-623/456 TOP CHORD

BOT CHORD 7-8=-709/1081

1-8=-747/1149, 2-8=-343/343, 4-7=-343/343, 5-7=-747/1148 WEBS

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=183, 6=183.

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

October 5,2022

ers 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 data interests the restriction of the second of the second



Truss Type HARTLEY BROTHERS - MAHN RES. Plv Job Truss Qtv T28917280 3287790 T50 ROOF SPECIAL Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:50 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-VWLHoDlclo?kwzcNMvB4Lf59yta8ZPrypHQuLRyWnKJ Lake City, FL - 32055, Builders FirstSource (Lake City,FL), 12-3-8 Scale = 1:42.7 2x4 || 4x4 = 3x4 = 3x6 = 4x4 = 2 4-4-12 ⁸ 5x6 = 5x12 = 6.00 12 9 4x4 || 4x4 || 12-3-8 18-7-0 SPACING-LOADING (psf) 2-0-0 CSI. DEFL (loc) l/defl L/d PLATES GRIP Plate Grip DOL 0.70 TCLL 20.0 1.25 TC Vert(LL) -0.06 8-9 >999 240 MT20 244/190 BC TCDL 7.0 Lumber DOL 1 25 0.35 Vert(CT) -0.136-7 >999 180 BCLL 0.0 Rep Stress Incr YES WB 0.58 Horz(CT) 0.06 6 n/a n/a Code FBC2020/TPI2014 Weight: 121 lb FT = 20% BCDL 10.0 Matrix-MS

LUMBER-

TOP CHORD 2x4 SP No.2

BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 **BRACING-**

TOP CHORD Str

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

except end verticals.

BOT CHORD Rigid ceiling directly applied or 8-6-11 oc bracing.

REACTIONS.

(size) 9=0-3-8, 6=0-3-8

Max Uplift 9=-183(LC 8), 6=-183(LC 8) Max Grav 9=677(LC 1), 6=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-9=-622/455, 1-2=-720/468, 2-4=-732/480, 4-5=-720/467, 5-6=-622/455

BOT CHORD 7-8=-480/732

WEBS 1-8=-554/852, 2-8=-345/344, 4-7=-345/344, 5-7=-554/852

NOTES-

- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=183, 6=183.

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.

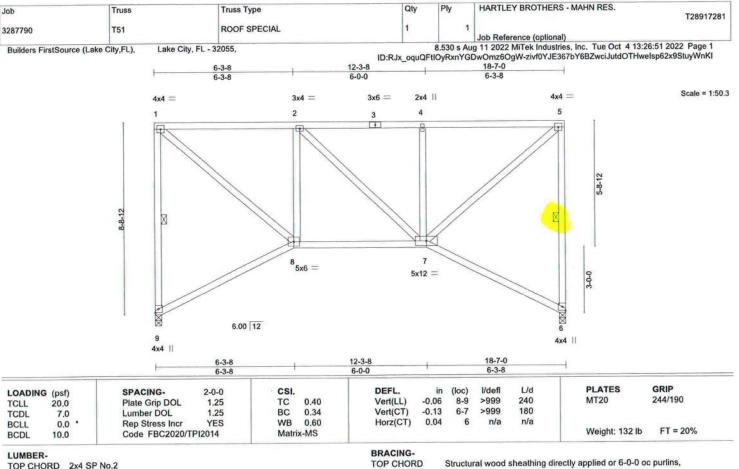
Philip J. O'Regan PE No.58126 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

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

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





BOT CHORD

WEBS

except end verticals.

1 Row at midpt

Rigid ceiling directly applied or 9-9-15 oc bracing.

1-9, 5-6

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

(size) 9=0-3-8, 6=0-3-8

Max Uplift 9=-183(LC 8), 6=-183(LC 8) Max Grav 9=677(LC 1), 6=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 1-9=-622/454, 1-2=-544/354, 2-4=-553/362, 4-5=-544/353, 5-6=-622/454 TOP CHORD

BOT CHORD

1-8=-465/715, 2-8=-346/345, 4-7=-346/345, 5-7=-465/715 WEBS

WEBS

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=183, 6=183.

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

October 5,2022

sters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MIJ-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 properly 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



HARTLEY BROTHERS - MAHN RES. Job Truss Truss Type Qty T28917282 ROOF SPECIAL 3287790 T52 Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:52 2022 Page 1 Lake City, FL - 32055. Builders FirstSource (Lake City.FL). ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-RuS2DuKspPFS9GmlUKDYQ4AZAhGB1l0FGbv?PKyWnKH 12-3-8 Scale = 1:57.8 2x4 || 3x4 = 3x4 = 3x6 = 3x4 = 2 4 5 5x6 = 5x12 = 6.00 12 4x4 || 4x4 LOADING (psf) SPACING-CSI. DEFL. L/d PLATES GRIP 2-0-0 in (loc) **V**defl Vert(LL) 244/190 20.0 Plate Grip DOL 1.25 TC 0.40 -0.06 7-8 >999 240 MT20 TCLL Lumber DOL 1.25 BC 0.38 Vert(CT) -0.13 6-7 >999 180 TCDL 7.0 WB 0.67 0.04 0.0 Rep Stress Incr YES Horz(CT) 6 n/a BCLL n/a Code FBC2020/TPI2014 FT = 20% Weight: 144 lb BCDL 10.0 Matrix-MS **BRACING-**LUMBER-TOP CHORD TOP CHORD 2x4 SP No.2 Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD

WEBS

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

1-9, 5-6, 2-7

1 Row at midpt

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

2x4 SP No.3 WEBS

(size) 9=0-3-8, 6=0-3-8

Max Uplift 9=-183(LC 8), 6=-183(LC 8) Max Grav 9=746(LC 2), 6=738(LC 2)

FORCES. (lb) - Max, Comp./Max, Ten. - All forces 250 (lb) or less except when shown. 1-9=-649/454, 1-2=-487/284, 2-4=-486/291, 4-5=-480/284, 5-6=-641/454 TOP CHORD

BOT CHORD 7-8=-292/493

WEBS 1-8=-417/714, 2-8=-347/346, 4-7=-346/345, 5-7=-416/703

REACTIONS.

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 9, 6 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)

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

October 5,2022



▲ 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 properly 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



HARTLEY BROTHERS - MAHN RES. Qty Ply Job Truss Truss Type T28917283 ROOF SPECIAL T53 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MiTok Industries, Inc. Tue Oct 4 13:26:53 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz60gW-v50QRELUajNJnQLy11knzHikH5b7mkhOVFeYxmyWnKG Builders FirstSource (Lake City,FL), Lake City, FL - 32055, Scale = 1:65.3 3x4 = 3x6 = 2x4 || 3x4 = 2 4 5 10 5x12 = 6.00 12 4x4 || 4x4 || PLATES GRIP SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d LOADING (psf) -0.07 7-8 >999 240 MT20 244/190 Plate Grip DOL 1.25 TC 0.44 Vert(LL) TCLL 20.0 -0.13 >999 180 Lumber DOL 1.25 BC 0.40 Vert(CT) 6-7 TCDL 7.0 0.04 Rep Stress Incr YES WB 0.77 Horz(CT) BCLL 0.0 Code FBC2020/TPI2014 Matrix-MS Weight: 157 lb FT = 20% BCDL 10.0 BRACING-LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

BOT CHORD

WEBS

BOT CHORD 2x4 SP No.2

2x4 SP No.3 WEBS

REACTIONS.

(size) 9=0-3-8, 6=0-3-8

Max Uplift 9=-183(LC 8), 6=-183(LC 8) Max Grav 9=749(LC 2), 6=742(LC 2)

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

TOP CHORD **BOT CHORD**

1-9=-653/453, 1-2=-411/238, 2-4=-409/243, 4-5=-404/237, 5-6=-645/453

7-8=-244/415

WEBS

1-8=-388/669, 2-8=-347/346, 4-7=-347/346, 5-7=-387/659

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=183, 6=183.

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.

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

1-9, 5-6, 2-7

1 Row at midpt

Philip J. U'Regan PE No.58126 Mil'ek Inc. DBA Mil'ek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022

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

Design valid for use only with MTek® 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 protoperly incorporate this design into the overall building designer must verify the applicability of design parameters and protoperly incorporate this design into the overall building designer must verify the applicability of design parameters and protoperly demonsters only. Additional temporary and permanent bracing is always required for stability and to prevent tocklapse with possible personal injury and properly damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see
ANSUTP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Wakdorf, MD 20601

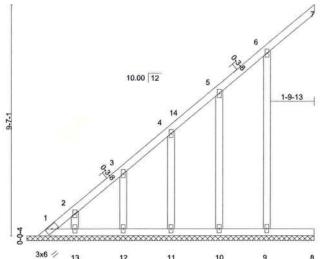


Job	Truss	Truss Type	Qty	Ply	HARTLEY BROTHERS - MAHN RES.	T28917284
3287790	V01	GABLE	1	1		120011201
Last	11000270-	The state of the s			Job Reference (optional)	

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:53 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz60gW-v50QRELUajNJnQLy11knzHiqM5hrmtQOVFeYxmyWnKG

11-11-9 Scale = 1:46.2



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	0.05	Vert(LL)	n/a		n/a	999	MT20	244/190	
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(CT)	n/a		n/a	999	N		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	-0.00	7	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S	20.05					Weight: 69 lb	FT = 20%	

LUMBER-

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

REACTIONS. All bearings 11-11-9.

(lb) - Max Horz 1=271(LC 12)

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

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

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

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.

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 1-2=-427/201, 2-3=-368/172, 3-4=-294/135

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-10-5 to 4-0-0, Interior(1) 4-0-0 to 11-11-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 13, 12, 11, 10, 9.

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 Mil'ek lor. DBA Mil'ek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022



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

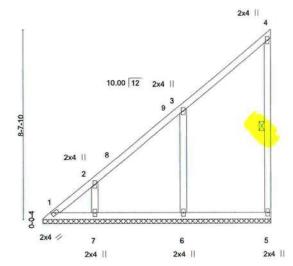


Qty HARTLEY BROTHERS - MAHN RES. Ply Job Truss Truss Type T28917285 V02 Valley 3287790 Job Reference (optional)

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

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:54 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-OHaoeaL6L1VAPav8bkF0VVFz3U?yVLzYkvO6UDyWnKF

Scale = 1:50.3



OADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	Vdefl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.18	Vert(LL)	n/a		n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	n/a		n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.12	Horz(CT)	0.00	5	n/a	n/a	6000 20000000000000000000000000000000	
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S	0 = = 1,000					Weight: 56 lb	FT = 20%

LUMBER-

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

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

2x4 SP No.3

BRACING-

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

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

WEBS 1 Row at midpt 4-5

REACTIONS. All bearings 10-4-1.

(lb) - Max Horz 1=245(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 6=-145(LC 12), 7=-153(LC 12) Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 6=457(LC 19), 7=307(LC 19)

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

TOP CHORD

1-2=-393/188, 2-3=-282/131

WEBS 3-6=-265/270

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 10-2-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 6=145, 7=153.

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

October 5,2022





Job	Truss	Truss Type	Qty	Ply	HARTLEY BROTHERS - MAHN RES. T28917286
3287790	V03	Valley	1	1	Job Reference (optional)

Builders FirstSource (Lake City.FL).

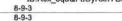
Lake City, FL - 32055,

8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:55 2022 Page 1 ID:RJx_oquQFtlOyRxnYGDwOmz6OgW-sT8ArwMl6Ke10kUK9SmF2io7BuKlEohhyZ7f0fyWnKE

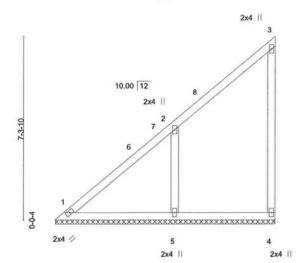
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.







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)	n/a		n/a	999	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.20	Vert(CT)	n/a		n/a	999	20000000	
BCLL	0.0	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S	100000000000000000000000000000000000000					Weight: 44 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 WERS **OTHERS**

2x4 SP No.3

(size) 1=8-8-14, 4=8-8-14, 5=8-8-14

Max Horz 1=213(LC 12)

Max Uplift 4=-38(LC 14), 5=-203(LC 12)

Max Grav 1=170(LC 21), 4=161(LC 19), 5=513(LC 19)

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

TOP CHORD WEBS

REACTIONS.

1-2=-317/152 2-5=-296/317

- NOTES-1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 8-7-7 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb)

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 FE No.58126 MITek Inc. DBA MITek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

October 5,2022



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 ocllapse with possible personal injury and properly anage. 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 Components and the property of the property of the possible personal injury and property design.



HARTLEY BROTHERS - MAHN RES. Job Truss Type Qty Ply T28917287 Valley V04 3287790 Job Reference (optional)

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

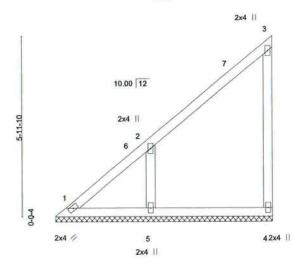
8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:56 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-KgiY3GNNtemueu3Xj9IUbwKJmlhJzF?rBDtDY5yWnKD

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

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

except end verticals.

Scale = 1:36.5



LOADING TCLL TCDL		SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code FBC2020/TF	ncr YES BC	TC 0.17		DEFL. Vert(LL) Vert(CT) Horz(CT)	in (n/a n/a 0.00	(loc) -	l/defl n/a n/a	999 999	PLATES MT20	GRIP 244/190
BCLL BCDL	0.0 * 10.0			0.09 ix-S	4			n/a	Weight: 35 lb		FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No.3 WEBS 2x4 SP No.3

OTHERS REACTIONS.

(size) 1=7-1-11, 4=7-1-11, 5=7-1-11

Max Horz 1=181(LC 12)

Max Uplift 1=-5(LC 10), 4=-56(LC 12), 5=-174(LC 12) Max Grav 1=109(LC 21), 4=129(LC 19), 5=324(LC 19)

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

TOP CHORD 1-2=-309/139

WEBS 2-5=-241/303

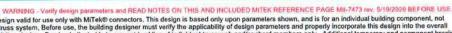
NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-2-0, Interior(1) 3-2-0 to 7-0-4 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) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4 except (jt=lb) 5=174

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 16923 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 5,2022



Design valid for use only with MITE® 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/TP/1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information

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



HARTLEY BROTHERS - MAHN RES. Truss Truss Type Qty Ply Job T28917288 3287790 V05 Valley Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:56 2022 Page 1 Builders FirstSource (Lake City,FL), Lake City, FL - 32055, ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-KgiY3GNNtemueu3Xj9IUbwKGIleyzFArBDtDY5yWnKD Scale = 1:28.4 4x6 = 2 10.00 12 3x6 3x6 / 2x4 PLATES GRIP LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defl 1 /d Plate Grip DOL TC BC 0.33 Vert(LL) 999 244/190 TCLL 20.0 1.25 n/a n/a MT20 999 TCDL 7.0 Lumber DOL 1.25 0.26 Vert(CT) n/a n/a 0.0 * 0.00 BCLL Rep Stress Incr YES WB 0.08 Horz(CT) 3 n/a n/a Code FBC2020/TPI2014 Weight: 42 lb FT = 20%BCDL 10.0 Matrix-S BRACING-LUMBER-

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

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

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

REACTIONS.

(size) 1=11-0-15, 3=11-0-15, 4=11-0-15

Max Horz 1=-95(LC 8)

Max Uplift 1=-48(LC 13), 3=-60(LC 13), 4=-46(LC 12) Max Grav 1=201(LC 1), 3=201(LC 1), 4=362(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl.. GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 5-6-12, Exterior(2R) 5-6-12 to 8-6-12, Interior(1) 8-6-12 to 10-8-11 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) 1, 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

October 5,2022



🔬 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 anage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see Ansirpti Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



HARTLEY BROTHERS - MAHN RES. Qty Ply Job Truss Truss Type T28917289 Valley V06 3287790 Job Reference (optional) 8.530 s Aug 11 2022 MTek Industries, Inc. Tue Oct 4 13:26:57 2022 Page 1 ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-osGwGcO?eyuIG2ejGtpj77tUni1Kij6_Qtcm4XyWnKC Lake City, FL - 32055, Builders FirstSource (Lake City,FL), Scale = 1:21.8 4x4 = 2 10.00 12 6 -0-0 40 2x4 > 2x4 / 2x4 || 7-10-13 PLATES GRIP SPACING-CSI. DEFL. in (loc) Vdefl L/d LOADING (psf) 2-0-0 244/190 999 MT20 Plate Grip DOL TC 0.15 Vert(LL) n/a n/a 1.25 TCLL 20.0 n/a 999 Lumber DOL 1.25 BC 0.13 Vert(CT) n/a TCDL 7.0 0.00 3 0.0 Rep Stress Incr WB 0.03 Horz(CT) n/a YES BCLL Weight: 30 lb FT = 20%Code FBC2020/TPI2014 Matrix-S BCDL 10.0 BRACING-LUMBER-Structural wood sheathing directly applied or 6-0-0 oc purlins. TOP CHORD TOP CHORD 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. BOT CHORD 2x4 SP No.2 2x4 SP No.3 OTHERS

REACTIONS.

(size) 1=7-10-9, 3=7-10-9, 4=7-10-9

Max Horz 1=-65(LC 10)

Max Uplift 1=-33(LC 13), 3=-41(LC 13), 4=-32(LC 12) Max Grav 1=139(LC 1), 3=139(LC 1), 4=250(LC 1)

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

NOTES

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 3-4-13, Interior(1) 3-4-13 to 3-11-9, Exterior(2R) 3-11-9 to 6-11-9, Interior(1) 6-11-9 to 7-6-5 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) 1, 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 16025 Swingley Ridge Rd. Chesterfield, MO 63017 Date:

October 5,2022



HARTLEY BROTHERS - MAHN RES. Truss Truss Type Qty Job T28917290 3287790 V07 Valley Job Reference (optional) 8.530 s Aug 11 2022 MiTek Industries, Inc. Tue Oct 4 13:26:58 2022 Page 1 Lake City, FL - 32055, Builders FirstSource (Lake City,FL), ID:RJx_oquQFtIOyRxnYGDwOmz6OgW-G2qJUyPdPF0ctBDvqaKygLQge6OvRAf7fXMJd_yWnKB 2 4x4 = Scale = 1:12.6 10.00 12 3 200 200 2x4 2x4 / 2x4 || SPACING-DEFL PLATES GRIP LOADING (psf) 2-0-0 CSL in (loc) l/defl 1/d Plate Grip DOL TC 0.08 Vert(LL) 244/190 TCLL 20.0 1.25 n/a n/a 999 MT20 1.25 BC 0.04 999 TCDL 7.0 Lumber DOL Vert(CT) n/a n/a 0.0 * WB 0.02 0.00 BCLL Rep Stress Incr YES Horz(CT) 3 n/a n/a Code FBC2020/TPI2014 Weight: 17 lb FT = 20% BCDL 10.0 Matrix-P BRACING-LUMBER-TOP CHORD 2x4 SP No.2 TOP CHORD Structural wood sheathing directly applied or 4-8-12 oc purlins.

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

BOT CHORD

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

REACTIONS.

(size) 1=4-8-2, 3=4-8-2, 4=4-8-2

Max Horz 1=-36(LC 8)

Max Uplift 1=-23(LC 13), 3=-28(LC 13), 4=-8(LC 12) Max Grav 1=82(LC 1), 3=82(LC 1), 4=125(LC 1)

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

NOTES-

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

October 5,2022



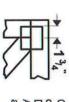
🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

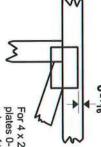


Symbols

PLATE LOCATION AND ORIENTATION



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



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

00

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

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

PLATE SIZE

4 × 4

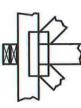
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



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

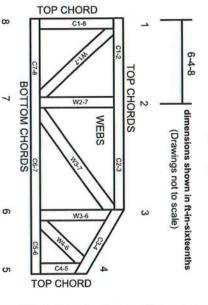
ANSI/TPI1: Industry Standards:

National Design Specification for Metal **Building Component Safety Information** Plate Connected Wood Truss Construction Design Standard for Bracing

DSB-89:

Guide to Good Practice for Handling, Connected Wood Trusses. Installing & Bracing of Metal Plate

Numbering System



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

NUMBERS/LETTERS CHORDS AND WEBS ARE IDENTIFIED BY END JOINT

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

© 2012 MiTek® All Rights Reserved



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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- 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.
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.

4

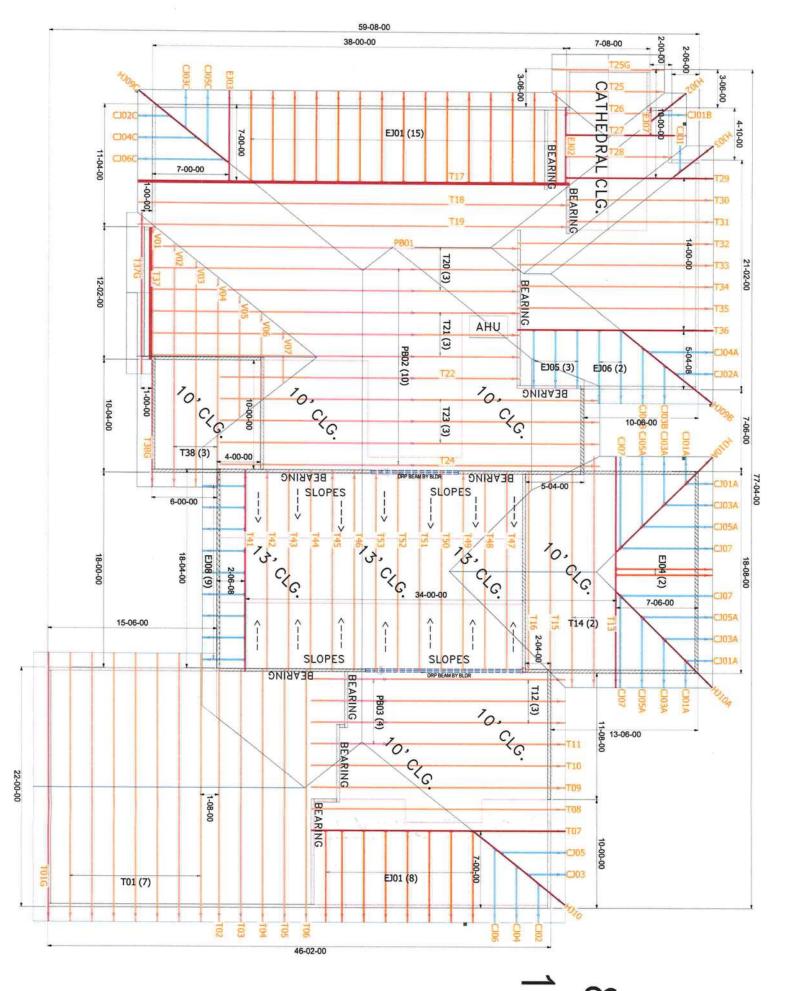
Cut members to bear tightly against each other

Ç

- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. oint and embed fully. Knots and wane at joint
- 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.
- 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 camber for dead load deflection. responsibility of truss fabricator. General practice is to
- 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
- 13. 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.

Connections not shown are the responsibility of others

- Do not cut or after truss member or plate without prior approval of an engineer
- Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone
- 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.



PITCH PITCH 0/H

Hatch Legend 9 13' 1-1/8" 0' 1-1/8" 1-1/8"

THE ARROW HEAD AT THE END OF THE TRUSS ON THE TRUSS ON THE TRUSS PLACEMENT PLAN (AAVOUT) CORRESPONDS WITH THE LEFT SIDE OF THE INDIVIDUAL TRUSS DRAWING, USE THIS AS AN ORIENTATION GUIDE WHEN SETTING THE TRUSSES ON THE STRUCTURE. ٥

eral Notes:

Per ANSI/TPI 1-2002 all "Truss to Wall" connections are the responsibility of the Building Designer, not the Truss Manufacturer.

Use Manufacturer's specifications for all hanger connections unless noted otherwise.

Trusses are to be 24" o.c. U.N.O.

All hangers are to be Simpson or equivalent U.N.O.

Use 10d x 1 1/2" Nails in hanger connections to single ply

rder trusses.

Trusses are not designed to support brick U.N.O.

Dimensions are Feet-Inches- Sixteenths

No back charges will be accepted by Builders FirstSource unless approved in writing first. 850-835-4541

ACQ lumber is corrisive to truss plates. Any ACQ lumber that comes in contact with truss plates (i.e. scabbed on tails) must have an approved barrier applied first.

It is the responsibility of the Contractor to ensure of the proper orientation of the truss placement plans as to the construction documents and field conditions of the structure orientation. If a reversed or flipped layout is required, it will be supplied at no extra cost by Builders required, it will be supplied at no extra cost by Builders Refer to BCSI-B1 Summary Sheet-Guide for handling, Installing and Bracing of Metal Plate Connected Wood Truss prior to and during truss installation.

It is the responsibility of the Contractor to make sure the placement of trusses are adjusted for plumbing drops, can lights, cet..., so the trusses do not interfere with these type of items.

All common framed roof or floor systems must be designed as to NOT impose any loads on the floor trusses below. The floor trusses have not been designed to carry any additional loads from above.

This truss placement plan was not created by an engineer, but rather by the Builders FirstSource staff and is solely to be used as an installation guide and does not require a seal. Complete truss engineering and analysis can be found on the truss design drawings which may be sealed by the truss design engineer.

Gable end trusses require continuous bottom chord bearing. Refer to local codes for wall framing

Although all attempts have been made to do so, trusses may not be designed symmetrically, Please refer to the individual truss drawings and truss placement plans for proper orientation and placement.

FIRSTSOURCE Builders

Lake City PHONE: 386-755-6894 FAX: 386-755-7973

Jacksonville PHONE: 904-772-6100 FAX: 904-772-1973

HARTLEY BROTHERS

Tallahassee PHONE: 850-576-5177

Mahn Res.

Oakland II Modified

Floor 1 Job# N/A 9 - 12 - 22KLH
Floor 2 Job#:
N/A 3287790 Roof Job #: Original Ref#: 3287790

TNOYAL 22NAT