



RE: Betsy_Soto - Betsy Soto

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

Site Information:

Customer Info: Betsy Soto Project Name: . Model: .

Lot/Block: . Subdivision: .

Address: ., .

City: Ft. White 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: 40.0 psf Floor Load: N/A psf

This package includes 17 individual, Truss Design Drawings and 0 Additional Drawings. With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date
1	T30040007	A1GIR	3/13/23
2	T30040008	A2	3/13/23
3	T30040009	A3	3/13/23
4	T30040010	A4	3/13/23
4 5 6	T30040011	A5	3/13/23
6	T30040012	<u>A6</u>	3/13/23
7	T30040013	A7	3/13/23
8	T30040014	A8GIR	3/13/23
9	T30040015	CJ01	3/13/23
10	T30040016	CJ02	3/13/23
11	T30040017	J1	3/13/23
12 13	T30040018 T30040019	J1A J2	3/13/23
14	T30040019	J2A	3/13/23
15	T30040020	J3	3/13/23 3/13/23
16	T30040021	J4	3/13/23
17	T30040022	J5	3/13/23
17	130040023	33	3/13/23

The truss drawing(s) referenced above have been prepared by MiTek USA, Inc. under my direct supervision based on the parameters provided by Mayo Truss Company, Inc..

Truss Design Engineer's Name: Lee, Julius

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

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

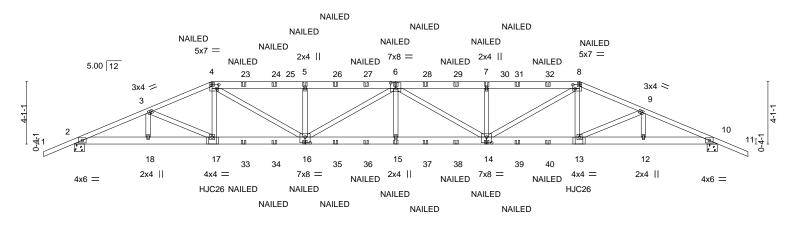


23 Swingley Ridge Rd. Chesterfield, MO 63017 e:

March 14,2023

Job Truss Truss Type Qty Plv Betsy Soto T30040007 A1GIR BETSY SOTO Hip Girder 2 Job Reference (optional) Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Mar 13 09:05:29 2023 Page 1 Mayo Truss Company, Inc. ID:wfjvjYhGQFf696oaYFLUJNzdlt5-AAxOOHNV1CvVBC0jqjsTApPEEtsMVGPSt0ZPyszbOfK 44-0-0 -2-0-0 2-0-0 4-9-14 15-0-14 21-0-0 . 26-11-2 33-0-0 37-2-2 42-0-0 4-9-14 4-2-2 6-0-14 6-0-14 4-2-2 4-9-14 2-0-0

Scale = 1:75.2



	1 4-9	-14 9-0-0	13-0-14	1 21-0-0	20-1	1-2	1	33-0-0	, ,	31-2-2	1 42-1	0-0
	4-9	-14 4-2-2	6-0-14	5-11-2	5-11	-2	1	6-0-14	1	4-2-2	4-9-	-14
Plate Off	sets (X,Y)	[4:0-1-12,0-3-0], [6:0-4-0	,0-4-8], [8:0-1-1	2,0-3-0], [14:0-4-0,0-4-8]	, [16:0-4-0,0-4-8]							
LOADING	C (nof)	SPACING-	2-0-0	CSI.	DEFL.	in	(100)	l/defl	L/d	PLA	TEC	GRIP
LUADIN	u (psi)	SPACING-	2-0-0	Col.	DEFL.	in	(loc)	i/deli	L/u	FLA	IES	GKIF
TCLL	20.0	Plate Grip DOL	1.25	TC 0.19	Vert(LL)	-0.22	15	>999	240	MT2	0	244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.52	Vert(CT)	-0.43	15	>999	180			
BCLL	0.0 *	Rep Stress Incr	NO	WB 0.20	Horz(CT)	0.10	10	n/a	n/a			
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-MS						Weig	ght: 540 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

26-11-2

33-0-0

37-2-2

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

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

42-0-0

21_0_0

LUMBER-

TOP CHORD 2x4 SP No 2 *Except* 4-6.6-8: 2x6 SP No.2

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

1-0-11

REACTIONS.

(size) 2=0-8-0, 10=0-8-0 Max Horz 2=-78(LC 23)

Max Uplift 2=-274(LC 8), 10=-274(LC 8) Max Grav 2=2007(LC 1), 10=2007(LC 1)

a_n_n

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

TOP CHORD 2-3=-4424/562, 3-4=-4071/609, 4-5=-5175/743, 5-6=-5172/742, 6-7=-5172/742,

7-8=-5175/743, 8-9=-4071/609, 9-10=-4424/562

BOT CHORD $2-18 = -450/4057,\ 17-18 = -450/4057,\ 16-17 = -456/3732,\ 15-16 = -647/5582,\ 14-15 = -647/5582,$

15-0-14

13-14=-456/3732, 12-13=-450/4057, 10-12=-450/4057 3-17=-413/47, 4-17=-72/434, 4-16=-195/1758, 5-16=-465/106, 6-16=-547/28,

WEBS 6-15=0/307, 6-14=-547/28, 7-14=-465/106, 8-14=-195/1758, 8-13=-72/434,

9-13=-413/47

NOTES-

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

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

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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) except (jt=lb)
- 10) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 23-11-4 oc max. starting at 9-0-6 from the left end to 32-11-10 to connect truss(es) to front face of bottom chord.

Odn)tinileall வெற்கஒட் where hanger is in contact with lumber.

ON

Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

March 14.2023

🛦 WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

Job	Truss	Truss Type	Qty	Ply	Betsy Soto
DETOV COTO	A4OID	His Ciston	_		T30040007
BETSY_SOTO	A1GIR	Hip Girder	1	2	Job Reference (optional)

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Mar 13 09:05:29 2023 Page 2 ID:wfjvjYhGQFf696oaYFLUJNzdlt5-AAxOOHNV1CvVBC0jqjsTApPEEtsMVGPSt0ZPyszbOfK

NOTES-

12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-8=-60, 8-11=-60, 2-10=-20

Concentrated Loads (lb)

Vert: 17=-83(F) 16=-23(F) 15=-23(F) 14=-23(F) 13=-83(F) 33=-23(F) 34=-23(F) 35=-23(F) 36=-23(F) 37=-23(F) 38=-23(F) 39=-23(F) 40=-23(F)



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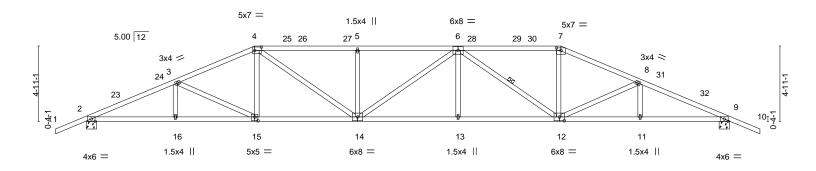
March 14,2023





Job		Truss		Truss Type		Qty	Ply	Betsy So	to		
DETOV. 0070										T30040008	
BETSY_SOTO		A2		Hip		2	1				
								Job Refer	ence (optional)		
Mayo Truss C	ompany, Inc.,	May	o, FL - 32066,			8.	530 s Aug	11 2022 M	iTek Industries, Inc. 1	Mon Mar 13 09:05:32	2023 Page 1
•					ID	:wfjvjYhG	QFf696oa	YFLUJNzd	It5-aldX0JPOK7I32gl	IVrPAoS1aL4nZibPu2	Z_o3ZBzbOfH
-2-0-0	5-9-14		11-0-0	17-8-9	24-3-7	1	31-0-0		36-2-2	42-0-0	44-0-0
2-0-0	5-9-14		5-2-2	6-8-9	6-6-13		6-8-9		5-2-2	5-9-14	2-0-0

Scale = 1:75.2



	5-	9-14 11-0-0	1	17-0-9	24-3-7	31-0-0	30-2-2	42-0-0	
	5-	9-14 5-2-2		6-8-9	6-6-13	6-8-9	5-2-2	5-9-14	
Plate Offsets	s (X,Y)	[4:0-5-4,0-2-12], [7:0-3-8,	0-2-1], [12:0-	3-12,0-3-0], [15:0	-2-8,0-3-0]				
LOADING ((psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d I	PLATES G	RIP
TCLL 2	20.0	Plate Grip DOL	1.25	TC 0.	.84 Vert(LL)	-0.36 13-14 >999	240	MT20 2	44/190
TCDL 1	10.0	Lumber DOL	1.25	BC 1.	.00 Vert(CT)	-0.77 14-15 >652	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.	.31 Horz(CT)	0.23 9 n/a	n/a		
BCDL 1	10.0	Code FBC2020/T	PI2014	Matrix-A	S		'	Weight: 217 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

24-3-7

31-0-0

36-2-2

6-12

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

1 Row at midpt

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 6-7: 2x4 SP No.1

5-0-1/

BOT CHORD 2x4 SP No.2

WEBS 2x4 SP No.2

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

Max Horz 2=-92(LC 10)

Max Uplift 2=-49(LC 12), 9=-49(LC 12) Max Grav 2=1800(LC 1), 9=1800(LC 1)

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

11-0-0

TOP CHORD 2-3=-3767/132, 3-4=-3254/149, 4-5=-3751/180, 5-6=-3751/180, 6-7=-2971/159,

7-8=-3256/150, 8-9=-3763/130

BOT CHORD 2-16=-44/3423, 15-16=-44/3423, 14-15=-4/2948, 13-14=-3/3711, 12-13=-3/3711,

11-12=-60/3419, 9-11=-60/3419

WEBS $3-15=-529/52,\ 4-15=0/404,\ 4-14=-39/1083,\ 5-14=-469/115,\ 6-13=0/325,\ 6-12=-1009/0,$

7-12=0/836, 8-12=-516/48

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=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-2-6, Interior(1) 2-2-6 to 11-0-0, Exterior(2R) 11-0-0 to 16-11-4, Interior(1) 16-11-4 to 31-0-0, Exterior(2R) 31-0-0 to 36-11-4, Interior(1) 36-11-4 to 44-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

17-8-0

- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



42-0-0

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

March 14.2023



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

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Job Truss Truss Type Qty Ply Betsy Soto T30040009 BETSY SOTO A3 2 Hip Job Reference (optional) Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Mar 13 09:05:34 2023 Page 1 ID:wfjvjYhGQFf696oaYFLUJNzdlt5-X8IHR_ReskYnH_vgcGRett7uvuVyAQSB1IHAe3zbOfF

29-0-0

35-2-2

6-2-2

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

21-0-0

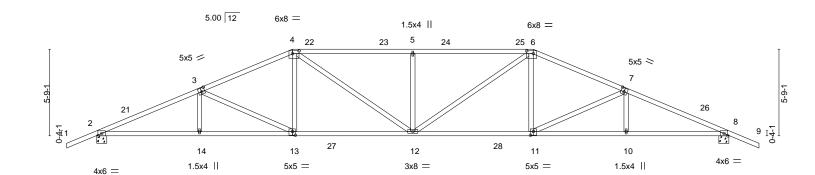
8-0-0

2-0-0

Scale = 1:76.5

42-0-0

6-9-14



		6-9-14	13-0-0	21-0-0	29-0-0	35-2-2	42-0-0							
		6-9-14	6-2-2	8-0-0	8-0-0	6-2-2	6-9-14							
Plate Offse	Plate Offsets (X,Y) [3:0-2-8,0-3-0], [4:0-5-4,0-2-4], [6:0-5-4,0-2-4], [7:0-2-8,0-3-0], [11:0-2-4,0-3-0], [13:0-2-4,0-3-0]													
LOADING	(psf)	SPACING-	2-0-0	CSI.	(/	defl L/d	PLATES GRIP							
TCLL	20.0	Plate Grip DOL	1.25	TC 0.90	Vert(LL) -0.41 12-13 >	999 240	MT20 244/190							
TCDL	10.0	Lumber DOL	1.25	BC 0.81	Vert(CT) -0.78 12-13 >	643 180								
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.60	Horz(CT) 0.20 8	n/a n/a								
BCDL	10.0	Code FBC2020/T	TPI2014	Matrix-AS			Weight: 213 lb FT = 20%							

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 2 2x4 SP No.1

BOT CHORD 2x4 SP No.2 WFBS

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

Max Horz 2=106(LC 11)

6-9-14 6-9-14

13-0-0 6-2-2

Max Uplift 2=-49(LC 12), 8=-49(LC 12) Max Grav 2=1987(LC 17), 8=1987(LC 18)

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

TOP CHORD 2-3=-4107/115, 3-4=-3380/157, 4-5=-3638/168, 5-6=-3638/168, 6-7=-3380/157,

7-8=-4107/115

BOT CHORD 2-14=-19/3797, 13-14=-22/3788, 12-13=0/3136, 11-12=-9/3056, 10-11=-39/3708, 8-10=-36/3717

WEBS 3-14=0/296, 3-13=-723/33, 4-13=0/534, 4-12=-7/821, 5-12=-531/120, 6-12=-7/821,

6-11=0/534, 7-11=-724/33, 7-10=0/296

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-2-6, Interior(1) 2-2-6 to 13-0-0, Exterior(2R) 13-0-0 to 18-11-4, Interior(1) 18-11-4 to 29-0-0, Exterior(2R) 29-0-0 to 35-1-0, Interior(1) 35-1-0 to 44-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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March 14,2023



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Job			Truss		Truss Type		Qty	Ply	Betsy Soto				
												T3004001	0
BETSY_SO	TO		A4		Hip		2	1					
									Job Reference	e (optional)			
Mayo Trus	ss Com	pany, Inc.,	May	yo, FL - 32066,			8.	530 s Aug	11 2022 MiTek	Industries, Inc. Mo	on Mar 13 09:05:36	2023 Page 1	
							ID:wfjvjYhGQFf69	6oaYFLUJ	JNzdlt5-TWs2s	gSuOMoVXH33khU	6yICLmhA8eMTUU	cmGiyzbOfD	
	2-0-0	5-5-	3	10-2-10	15-0-0	21-0-0	27-0-0		31-9-6	36-6-13	42-0-0	44-0-0	
	~ ~ ~		^	400	400	0.00	0.00		400	400		000	

6-0-0

4-9-6

Structural wood sheathing directly applied.

Rigid ceiling directly applied.

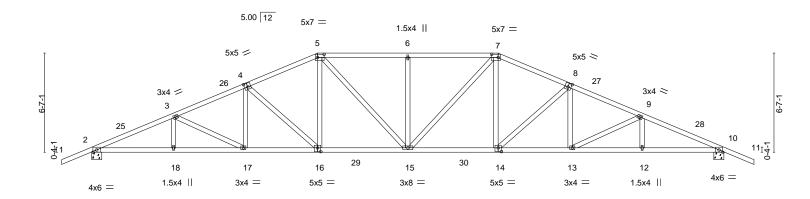
4-9-6

6-0-0

Scale = 1:76.5

2-0-0

5-5-3



		5-5-3 10-2-10) 1:	o-0-0	21-0-0	27-	-0-0	31-9-6	1 36-6-13	42-0-0	
		5-5-3 4-9-6	١ 4	-9-6	6-0-0	6-	0-0	4-9-6	4-9-6	5-5-3	
Plate Offse	ets (X,Y)	[4:0-2-8,0-3-0], [5:0-5-4,0	-2-8], [7:0-5-4	,0-2-8], [8:0-	2-8,0-3-0], [14:0	0-2-8,0-3-0], [16:	0-2-8,0-3-0]				
LOADING	(nef)	SPACING-	2-0-0	CSI		DEFL.	in (loc)	l/defl L	/d PI	LATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.49	Vert(LL)	-0.36 15-16			IT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.89	Vert(CT)	-0.67 15-16	>754 18	30		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.22 10	n/a n	/a		
BCDL	10.0	Code FBC2020/T	PI2014	Mat	rix-AS				W	eight: 238 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD **BOT CHORD**

REACTIONS.

WFBS

2-0-0

2x4 SP No 2 2x4 SP No 2

2x4 SP No.2

(size) 2=0-8-0, 10=0-8-0 Max Horz 2=121(LC 11)

Max Uplift 2=-49(LC 12), 10=-49(LC 12) Max Grav 2=1988(LC 17), 10=1988(LC 18)

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

4-9-6

4-9-6

TOP CHORD 2-3=-4229/133, 3-4=-3701/146, 4-5=-3133/170, 5-6=-3126/177, 6-7=-3126/177,

7-8=-3133/170, 8-9=-3701/146, 9-10=-4229/132

BOT CHORD 2-18=-47/3944, 17-18=-47/3944, 16-17=-8/3424, 15-16=0/2918, 14-15=0/2841,

13-14=-26/3334, 12-13=-64/3855, 10-12=-64/3855

WEBS 3-17=-567/44, 4-17=0/441, 4-16=-688/43, 5-16=0/641, 5-15=-12/530, 6-15=-392/96,

7-15=-12/530, 7-14=0/641, 8-14=-688/43, 8-13=0/442, 9-13=-568/44

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-2-6, Interior(1) 2-2-6 to 15-0-0, Exterior(2R) 15-0-0 to 21-0-0, Interior(1) 21-0-0 to 27-0-0, Exterior(2R) 27-0-0 to 32-11-4, Interior(1) 32-11-4 to 44-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

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



Job Truss Truss Type Qty Ply Betsy Soto T30040011 BETSY SOTO A5 2 Hip Job Reference (optional) Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Mar 13 09:05:38 2023 Page 1 ID:wfjvjYhGQFf696oaYFLUJNzdlt5-Pv_oHMU8vz2DmbCRr6Wa2jHdNVr06DpnywFNnqzbOfB

25-0-0

8-0-0

Scale = 1:76.5

2-0-0

42-0-0

6-1-3

35-10-13

5-5-6

Structural wood sheathing directly applied.

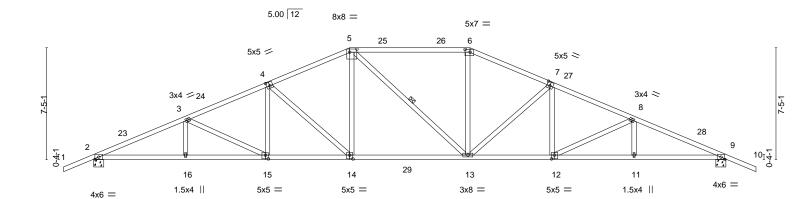
5-13

Rigid ceiling directly applied.

1 Row at midpt

30-5-6

5-5-6



	1	6-1-3 ₁	11-6-10 _I	17-0-0	25-0-0	30-5-6	1 35-10-13	42-0-0
		6-1-3	5-5-6	5-5-6	8-0-0	5-5-6	5-5-6	6-1-3
Plate Offs	sets (X,Y)	[4:0-2-8,0-3-0], [5:0-	-5-12,0-2-8], [6:0-4-	0,0-2-4], [7:0-2-8,	,0-3-0], [12:0-2-4,0-3-0], [14:0-	2-8,0-3-0], [15:0-2-4,	0-3-0]	
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d F	PLATES GRIP
TCLL	20.0	Plate Grip D0	OL 1.25	TC 0.7	74 Vert(LL) -0).43 13-14 >999	240 N	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC 0.9	93 Vert(CT) -0).80 13-14 >633	180	
BCLL	0.0 *	Rep Stress Ir	ncr YES	WB 0.7	70 Horz(CT) 0).21 9 n/a	n/a	
BCDL	10.0	Code FBC20	020/TPI2014	Matrix-AS	S		١ ١	Weight: 230 lb FT = 20%

BRACING-

WFBS

TOP CHORD **BOT CHORD**

LUMBER-

TOP CHORD 2x4 SP No 2 *Except* 5-6: 2x4 SP No.1

BOT CHORD 2x4 SP No.2 *Except*

12-14: 2x4 SP No.1

WEBS 2x4 SP No.2

REACTIONS.

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

Max Horz 2=-135(LC 10) Max Uplift 2=-49(LC 12), 9=-49(LC 12)

Max Grav 2=1983(LC 17), 9=1977(LC 18)

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

TOP CHORD $2\text{-}3\text{--}4193/132,\ 3\text{-}4\text{--}3541/157,\ 4\text{-}5\text{--}2900/180,\ 5\text{-}6\text{--}2678/181,\ 6\text{-}7\text{--}2907/169,}$ 7-8=-3527/157, 8-9=-4179/132

11-6-10

5-5-6

17-0-0

5-5-6

BOT CHORD 2-16=-42/3918, 15-16=-42/3918, 14-15=-8/3261, 13-14=0/2709, 12-13=-25/3149,

11-12=-59/3805, 9-11=-59/3805

WEBS 3-15=-704/40, 4-15=0/486, 4-14=-748/52, 5-14=0/751, 6-13=0/746, 7-13=-713/64,

7-12=0/447, 8-12=-705/40

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-2-6, Interior(1) 2-2-6 to 17-0-0, Exterior(2R) 17-0-0 to 22-11-4, Interior(1) 22-11-4 to 25-0-0, Exterior(2R) 25-0-0 to 30-11-4, Interior(1) 30-11-4 to 44-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Julius Lee PE No. 34869 MiTek Inc. DBA MiTek USA FL Cert 6634 16023 Swingley Ridge Rd. Chesterfield, MO 63017

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Job Truss Truss Type Qty Ply Betsy Soto T30040012 BETSY SOTO A6 2 Hip Job Reference (optional) Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Mar 13 09:05:40 2023 Page 1 ID:wfjvjYhGQFf696oaYFLUJNzdlt5-LI6Yh2VPRalx0vMqzXY278MxEIY3aBF4PEkUrjzbOf9

23-0-0

4-0-0

29-1-6

29-1-6

35-2-13

6-1-6

35-2-13

Structural wood sheathing directly applied.

4-14, 5-13, 7-13

Rigid ceiling directly applied.

1 Row at midpt

19-0-0

6-1-6

19-0-0

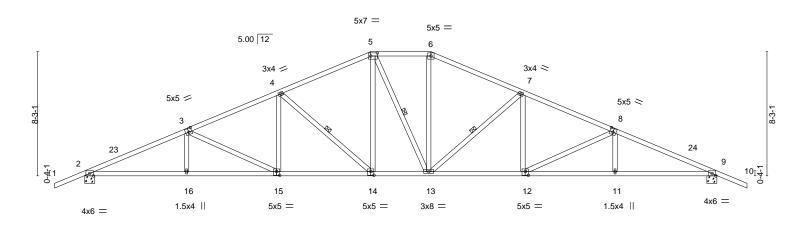
Scale = 1:76.5

2-0-0

42-0-0

6-9-3

42-0-0



		6-9-3	6-1-6	6-1-6	4-0-0	6-1-6	6-1-6	6-9-3					
Plate Offs	Plate Offsets (X,Y) [3:0-2-8,0-3-0], [5:0-5-4,0-2-8], [8:0-2-8,0-3-0], [12:0-2-8,0-3-0], [14:0-2-8,0-3-0], [15:0-2-8,0-3-0]												
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 0.84	Vert(LL) -0.26 14	>999 240	MT20	244/190				
TCDL	10.0	Lumber DOL	1.25	BC 0.89	Vert(C7) -0.60 14-15	>836 180						
BCLL	0.0 *	Rep Stress Incr	r YES	WB 0.45	Horz(C	T) 0.20 9	n/a n/a						
BCDL	10.0	Code FBC2020	0/TPI2014	Matrix-AS				Weight: 237 II	FT = 20%				

BRACING-

TOP CHORD

BOT CHORD

WFBS

LUMBER-

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

2x4 SP No.2 WFBS

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

Max Horz 2=149(LC 11)

6-9-3

Max Uplift 2=-49(LC 12), 9=-49(LC 12) Max Grav 2=1800(LC 1), 9=1800(LC 1)

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

TOP CHORD 2-3=-3678/99, 3-4=-3082/158, 4-5=-2456/176, 5-6=-2203/178, 6-7=-2455/170,

12-10-10

6-1-6

12-10-10

7-8=-3082/158. 8-9=-3678/99

BOT CHORD 2-16=-5/3322, 15-16=-7/3317, 14-15=-4/2798, 13-14=0/2192, 12-13=-20/2798,

11-12=-24/3317, 9-11=-22/3322

WEBS 3-16=0/288, 3-15=-572/6, 4-15=0/435, 4-14=-808/83, 5-14=-7/616, 6-13=0/635,

7-13=-801/90, 7-12=0/413, 8-12=-572/6, 8-11=0/288

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-2-6, Interior(1) 2-2-6 to 19-0-0, Exterior(2E) 19-0-0 to 23-0-0, Exterior(2R) 23-0-0 to 29-1-6, Interior(1) 29-1-6 to 44-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) Provide adequate drainage to prevent water ponding.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
- 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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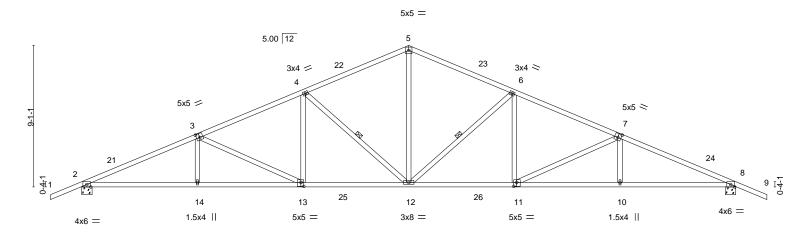
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Job Truss Truss Type Qty Ply Betsy Soto T30040013 BETSY SOTO Α7 5 Common Job Reference (optional) Mayo Truss Company, Inc., Mayo, FL - 32066, 8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Mar 13 09:05:42 2023 Page 1 ID:wfjvjYhGQFf696oaYFLUJNzdlt5-lgDJ6kXfzCYfFCWD4ybWCZSla6Bq203MsYDbwczbOf7 2-0-0 14-2-10 21-0-0 27-9-6 34-6-13 42-0-0 44-0-0 6-9-6 6-9-6 6-9-6 6-9-6 2-0-0

Scale = 1:74.0



		1-5-5	0-3-0	0-3-0	0-3-0	0-3-0	1-0-0
Plate Offs	ets (X,Y)	[3:0-2-8,0-3-0], [7:0-2-8,0)-3-0], [11:0-2-	4,0-3-0], [13:0-2-4,0-3-0]			
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 0.79	Vert(LL) -0.35 12-13	>999 240	MT20 244/190
TCDL	10.0	Lumber DOL	1.25	BC 1.00	Vert(CT) -0.66 12-13	>768 180	
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.75	Horz(CT) 0.20 8	n/a n/a	
BCDL	10.0	Code FBC2020/T	PI2014	Matrix-AS			Weight: 222 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

27-9-6

34-6-13

Structural wood sheathing directly applied.

6-12, 4-12

Rigid ceiling directly applied.

1 Row at midpt

21-0-0

LUMBER-

TOP CHORD 2x4 SP No 2 *Except* 1-3,7-9: 2x4 SP No.1

2x4 SP No.1 *Except* **BOT CHORD** 11-13: 2x4 SP No.2

WEBS 2x4 SP No.2

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

Max Horz 2=-163(LC 10)

Max Uplift 2=-49(LC 12), 8=-49(LC 12)

Max Grav 2=1988(LC 17), 8=1988(LC 18)

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

TOP CHORD 2-3=-4059/81, 3-4=-3273/146, 4-5=-2505/171, 5-6=-2505/171, 6-7=-3273/146,

7-8=-4060/81

BOT CHORD $2\text{-}14\text{=}0/3790,\ 13\text{-}14\text{=}0/3781,\ 12\text{-}13\text{=}0/3065,\ 11\text{-}12\text{=}0/2950,\ 10\text{-}11\text{=}-2/3659,\ 8\text{-}10\text{=}0/3668}$ **WEBS** $5-12 = -7/1561, \ 6-12 = -1022/97, \ 6-11 = 0/548, \ 7-11 = -780/7, \ 7-10 = 0/324, \ 4-12 = -1021/97, \ 7-10 = 0/324, \ 7-10 = 0/3$

14-2-10

4-13=0/548, 3-13=-780/7, 3-14=0/324

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=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 2-2-6, Interior(1) 2-2-6 to 21-0-0, Exterior(2R) 21-0-0 to 25-2-6, Interior(1) 25-2-6 to 44-0-0 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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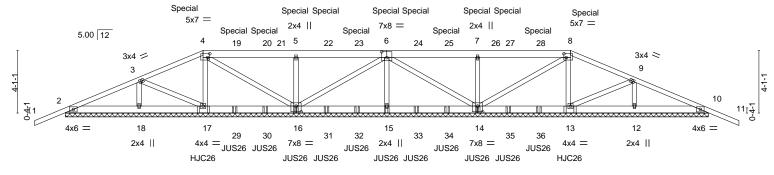
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ABSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Scale = 1:75.2



"Special" indicates special hanger(s) or other connection device(s) required at location(s) shown. The design/selection of such special connection device(s) is the responsibility of others. This applies to all applicable truss designs in this job.

33-0-0

37-2-2

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

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

42-0-0

26-11-2

BRACING-

TOP CHORD

BOT CHORD

 3-1	7 3-0-0	13-0-14	21-0-0	20-11-2	33-0-0	31-2-2	72-0-0	
4-9-1	4 4-2-2	6-0-14	5-11-2	5-11-2	6-0-14	4-2-2	4-9-14	
Plate Offsets (X,Y) [4:0-1-12,0-3-0], [6:0-4-0),0-4-8], [8:0-1-12,0-3-0]	, [14:0-4-0,0-4-8], [16	:0-4-0,0-4-8]				

21-0-0

LOADING	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	0.17	Vert(LL)	0.00	11	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.25	BC	0.13	Vert(CT)	0.00	10	n/r	120		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.04	Horz(CT)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2020/T	PI2014	Matri	x-S						Weight: 540 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*

1-0-11

4-6,6-8: 2x6 SP No.2

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

REACTIONS. All bearings 42-0-0.

(lb) - Max Horz 2=77(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 15, 12, 10 except 17=-200(LC 8), 16=-261(LC 8),

15-0-14

14=-261(LC 8), 13=-200(LC 8)

a_n_n

Max Grav All reactions 250 lb or less at joint(s) except 2=336(LC 17), 18=351(LC 13), 17=1727(LC 1), 16=1296(LC

18), 15=1255(LC 17), 14=1296(LC 17), 13=1727(LC 1), 12=348(LC 14), 10=336(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-18=-274/51, 4-17=-298/79, 5-16=-606/213, 6-15=-302/91, 7-14=-606/213,

8-13=-298/79, 9-12=-274/51

NOTES-

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

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

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

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

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=42ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 6) Provide adequate drainage to prevent water ponding.
- 7) Gable requires continuous bottom chord bearing.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 15, 12, 10 except (jt=lb) 17=200, 16=261, 14=261, 13=200.
- 11) Use MiTek HJC26 (With 16-16d nails into Girder & 10d nails into Truss) or equivalent spaced at 23-11-4 oc max. starting at 9-0-6 from the left end to 32-11-10 to connect truss(es) to back face of bottom chord.
- 12) Use MiTek JUS26 (With 4-10d nails into Girder & 2-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 11-0-12 from the left end to 30-11-4 to connect truss(es) to back face of bottom chord.

13) Fill all nail holes where hanger is in contact with lumber.



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Continued on page 2 design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

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



Job	Truss	Truss Type	Qty	Ply	Betsy Soto
DETOX OCTO	40010				T30040014
BETSY_SOTO	A8GIR	Hip Girder	1	2	Job Reference (optional)

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.530 s Aug 11 2022 MiTek Industries, Inc. Mon Mar 13 09:05:47 2023 Page 2 ID:wfjvjYhGQFf696oaYFLUJNzdlt5-ee1C9RbookBxLzOAtVAhvc9Jx76hjSL50qwMbpzbOf2

NOTES-

14) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 78 lb down and 71 lb up at 9-0-0, 78 lb down and 68 lb up at 11-0-12, 78 lb down and 68 lb up at 13-0-12, 78 lb down and 68 lb up at 15-0-12, 78 lb down and 68 lb up at 15-0-12, 78 lb down and 68 lb up at 19up at 21-0-0, 78 lb down and 68 lb up at 22-11-4, 78 lb down and 68 lb up at 24-11-4, 78 lb down and 68 lb up at 26-11-4, 78 lb down and 68 lb up at 28-11-4, and 78 lb down and 68 lb up at 30-11-4, and 78 lb down and 71 lb up at 33-0-0 on top chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-8=-60, 8-11=-60, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-45(B) 8=-45(B) 17=-963(B) 16=-219(B) 5=-45(B) 6=-45(B) 15=-219(B) 14=-219(B) 7=-45(B) 13=-963(B) 19=-45(B) 20=-45(B) 22=-45(B) 23=-45(B)

24=-45(B) 25=-45(B) 27=-45(B) 28=-45(B) 29=-219(B) 30=-219(B) 31=-219(B) 32=-219(B) 33=-219(B) 34=-219(B) 35=-219(B) 36=-219(B)

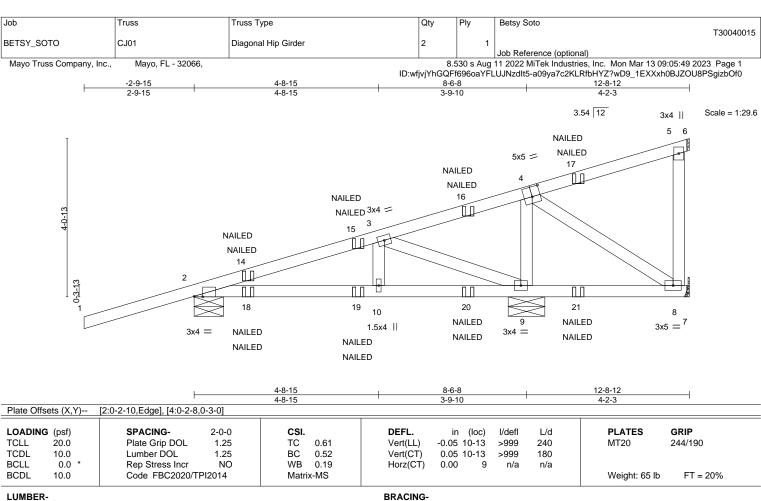


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TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

REACTIONS.

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

WFBS

(size) 2=0-9-2, 9=0-11-5, 8=Mechanical

Max Horz 2=118(LC 23)

Max Uplift 2=-203(LC 8), 9=-236(LC 5), 8=-72(LC 8) Max Grav 2=438(LC 28), 9=931(LC 29), 8=89(LC 1)

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

TOP CHORD 2-3=-481/75 3-4=-88/284

BOT CHORD 2-10=-108/400, 9-10=-108/400, 8-9=-250/48 WFBS 3-9=-674/127, 4-9=-557/163, 4-8=-32/291

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=203, 9=236,
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-5=-60, 5-6=-20, 7-11=-20

Concentrated Loads (lb)

Vert: 14=71(F=35, B=35) 16=-70(F=-35, B=-35) 17=-180(F=-84, B=-96) 18=83(F=42, B=42) 19=3(F=2, B=2) 20=-50(F=-25, B=-25) 18=83(F=42, B=42) 19=3(F=2, B=2) 19 B=-25) 21=70(F=121, B=-51)



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

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

except end verticals.

6-0-0 oc bracing: 8-9.

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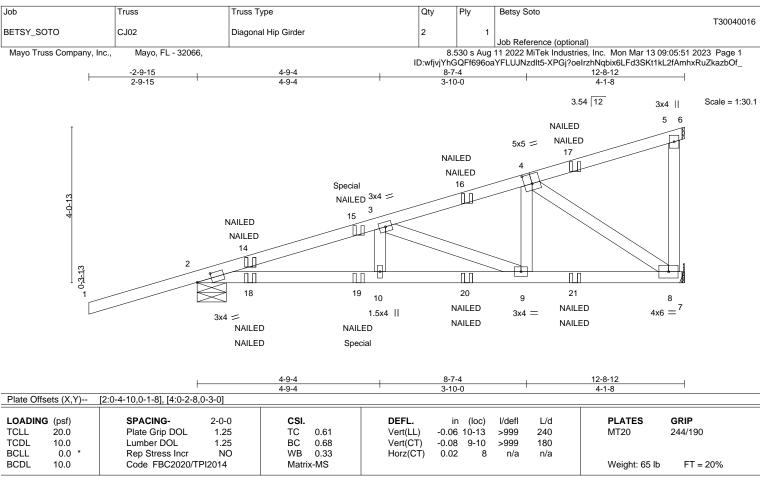


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Chesterfield, MO 63017



LUMBER-TOP CHORD

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

2x4 SP No 2 WFBS

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-9-1 oc purlins,

except end verticals.

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

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

Max Horz 2=118(LC 7)

Max Uplift 2=-240(LC 8), 8=-97(LC 5) Max Grav 2=750(LC 28), 8=785(LC 30)

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

TOP CHORD 2-3=-1539/209 3-4=-945/110

BOT CHORD 2-10=-242/1409, 9-10=-242/1409, 8-9=-98/807 WFBS 3-9=-632/157, 4-9=0/453, 4-8=-939/114

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional); cantilever left and right exposed; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=240
- 7) "NAILED" indicates 3-10d (0.148"x3") or 2-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Vert: 1-5=-60, 5-6=-20, 7-11=-20

Concentrated Loads (lb)

Vert: 14=71(F=35, B=35) 16=-70(F=-35, B=-35) 17=-192(F=-96, B=-96) 18=83(F=42, B=42) 19=3(F=2, B=2) 20=-50(F=-25, B=-25) 18=83(F=42, B=-25) 21=-102(F=-51, B=-51)



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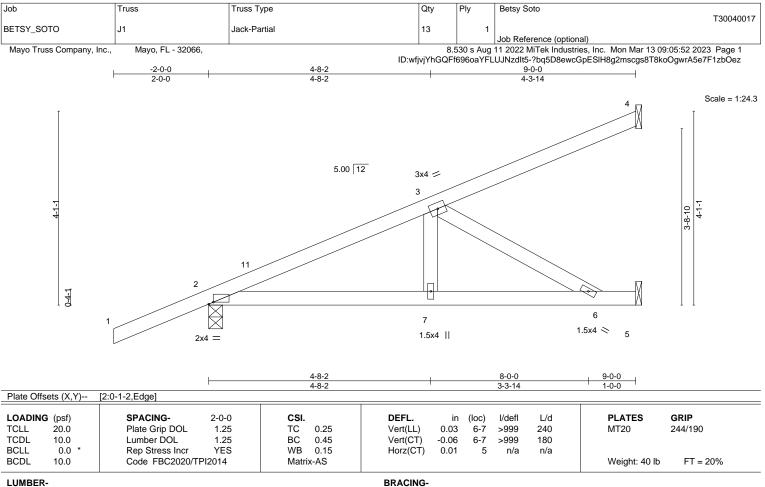
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TOP CHORD

BOT CHORD

LUMBER-

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

2x4 SP No 2 WFBS

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

Max Horz 2=155(LC 12)

Max Uplift 4=-47(LC 12), 2=-72(LC 12), 5=-14(LC 12) Max Grav 4=111(LC 17), 2=491(LC 1), 5=251(LC 17)

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

TOP CHORD 2-3=-534/73

BOT CHORD 2-7=-199/483, 6-7=-199/483

WFBS 3-6=-552/228

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 8-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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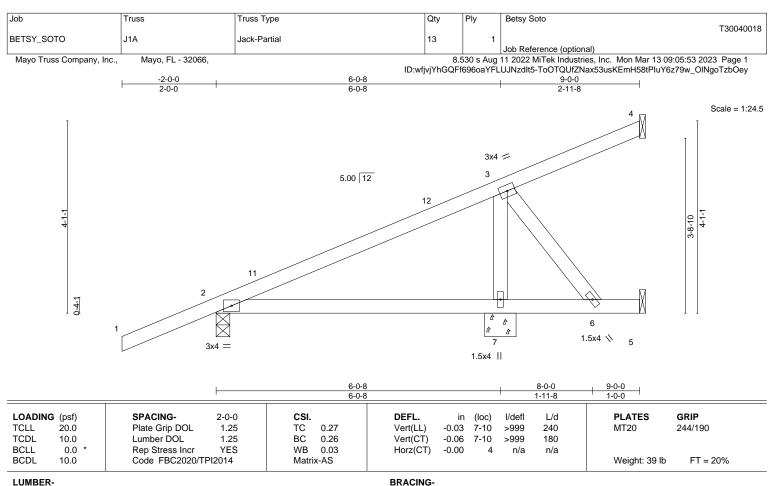


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LUMBER-TOP CHORD

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

2x4 SP No.2 WFBS

TOP CHORD BOT CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied.

REACTIONS. All bearings Mechanical except (jt=length) 2=0-3-8, 7=0-8-0.

Max Horz 2=155(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 4, 2, 5, 7

Max Grav All reactions 250 lb or less at joint(s) 4, 5 except 2=363(LC 1), 7=412(LC 17)

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=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 8-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2, 5, 7.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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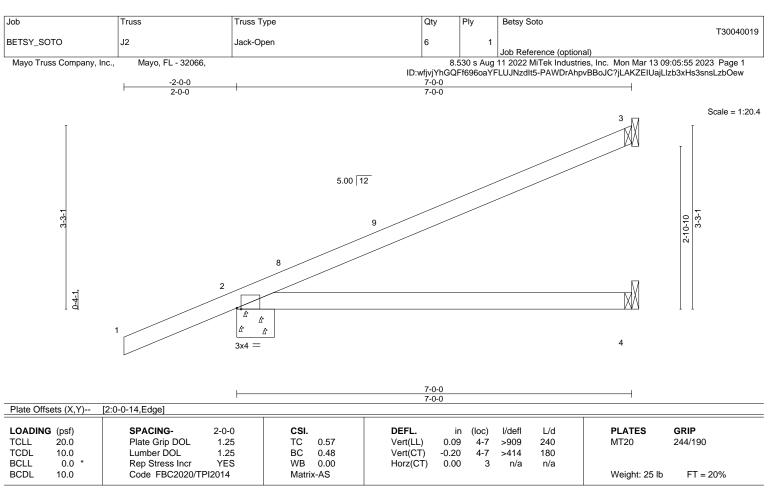


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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-

Structural wood sheathing directly applied. TOP CHORD **BOT CHORD** Rigid ceiling directly applied.

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

Max Horz 2=127(LC 12)

Max Uplift 3=-69(LC 12), 2=-70(LC 12)

Max Grav 3=192(LC 17), 2=415(LC 1), 4=122(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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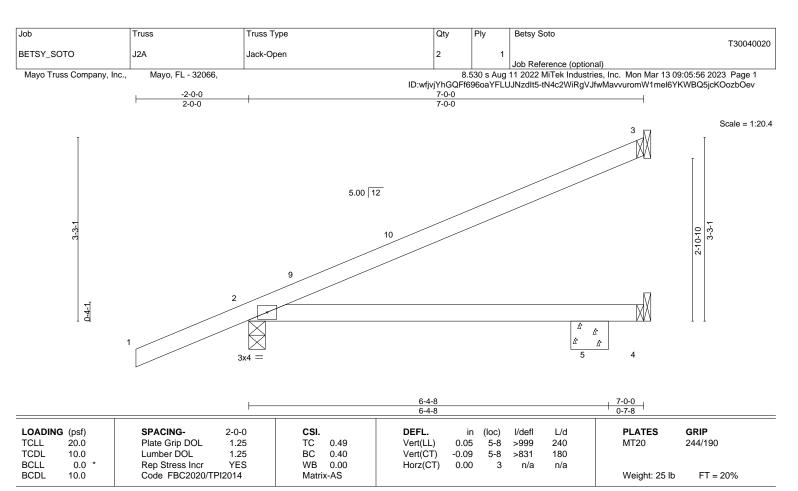
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TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied.

REACTIONS. All bearings Mechanical except (jt=length) 2=0-3-8, 5=0-8-0.

Max Horz 2=127(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 3, 2 except 4=-165(LC 17)

Max Grav All reactions 250 lb or less at joint(s) 3, 4 except 2=378(LC 1), 5=335(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=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 6-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2 except (jt=lb) 4=165.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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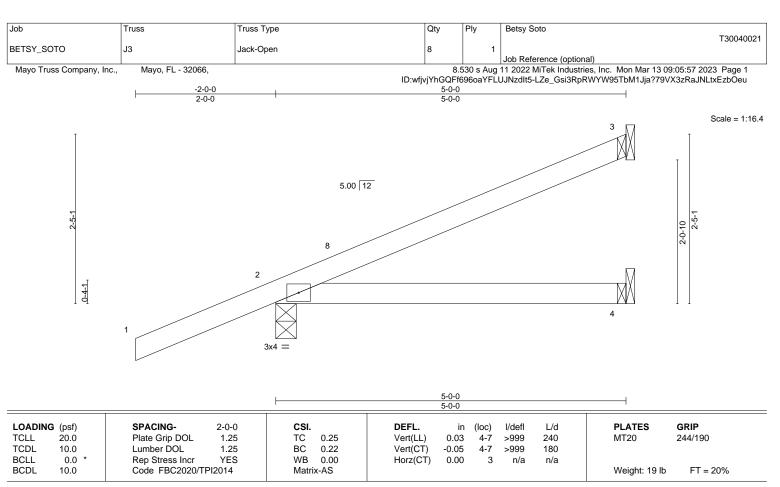


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TOP CHORD 2x4 SP No.2 **BOT CHORD** 2x4 SP No.2 BRACING-

TOP CHORD BOT CHORD Structural wood sheathing directly applied.

Rigid ceiling directly applied.

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

Max Horz 2=99(LC 12)

Max Uplift 3=-45(LC 12), 2=-70(LC 12)

Max Grav 3=129(LC 17), 2=342(LC 1), 4=86(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=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 4-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
- 7) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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March 14,2023



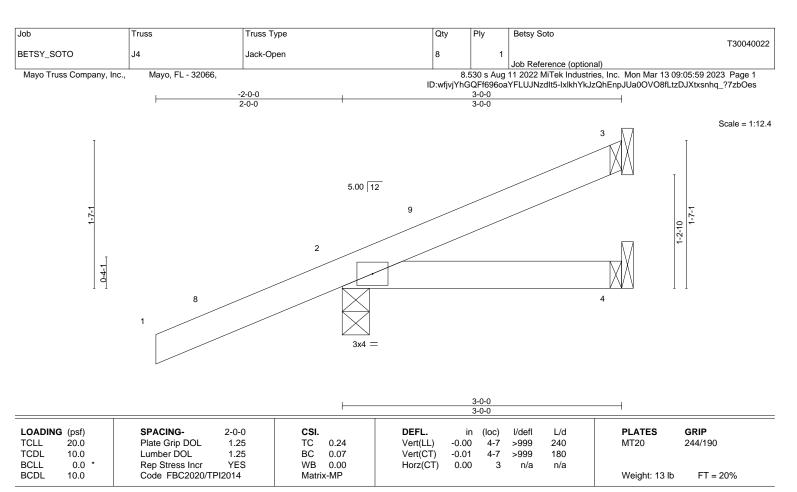
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.

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

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



Chesterfield, MO 63017



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

TOP CHORD BOT CHORD Structural wood sheathing directly applied or 3-0-0 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=71(LC 12)

Max Uplift 3=-19(LC 12), 2=-75(LC 12)

Max Grav 3=63(LC 17), 2=278(LC 1), 4=46(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=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) -2-0-0 to 1-0-0, Interior(1) 1-0-0 to 2-11-4 zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



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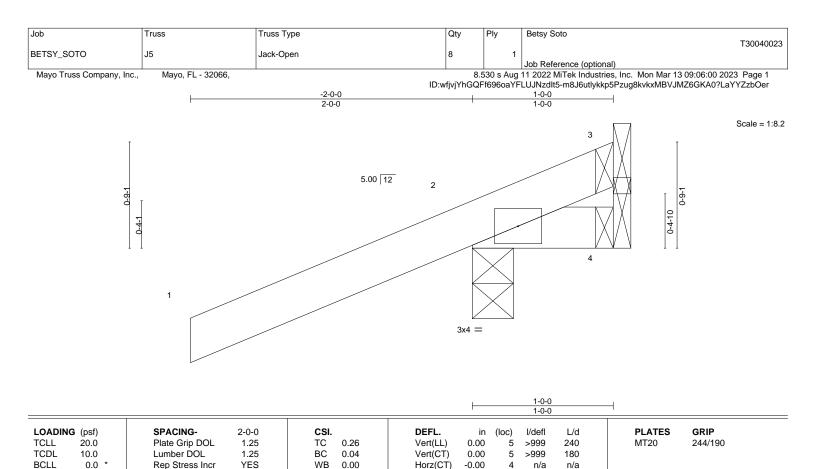


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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

BCDL

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

10.0

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

Max Horz 2=44(LC 12)

Max Uplift 3=-28(LC 1), 2=-112(LC 12), 4=-54(LC 1) Max Grav 3=19(LC 12), 2=281(LC 1), 4=35(LC 12)

Code FBC2020/TPI2014

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=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Part. Encl., GCpi=0.55; MWFRS (directional) and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

Matrix-MP

- 2) Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4 except (jt=lb) 2=112.



Weight: 7 lb

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

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

FT = 20%

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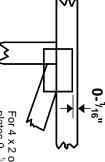


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

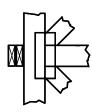
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

BEARING



Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur.

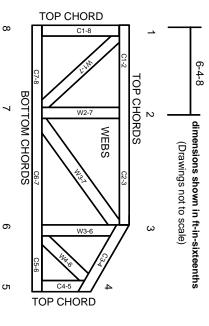
Min size shown is for crushing only

Industry Standards:

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

ANSI/TPI1: DSB-89:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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

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

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

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- Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
- 15. Connections not shown are the responsibility of others.
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
- Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
- 20. Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21.The design does not take into account any dynamic or other loads other than those expressly stated.