



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

RE: carter - Carter

MiTek USA, Inc.

6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:

Customer Info: Mansfield Construction Project Name: . Model: .
Lot/Block: . Subdivision: .
Address: ., .
City: Columbia County 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: FBC2017/TPI2014 Design Program: MiTek 20/20 8.2
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 20 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	T20377876	A1GE	6/4/20
2	T20377877	A2	6/4/20
3	T20377878	A3	6/4/20
4	T20377879	A4	6/4/20
5	T20377880	A5	6/4/20
6	T20377881	A6	6/4/20
7	T20377882	A7	6/4/20
8	T20377883	A8GE	6/4/20
9	T20377884	B1GE	6/4/20
10	T20377885	B2	6/4/20
11	T20377886	C1GE	6/4/20
12	T20377887	C2	6/4/20
13	T20377888	C3	6/4/20
14	T20377889	D1GE	6/4/20
15	T20377890	D2	6/4/20
16	T20377891	E1GE	6/4/20
17	T20377892	E2	6/4/20
18	T20377893	GIR1	6/4/20
19	T20377894	PB1GE	6/4/20
20	T20377895	PB2	6/4/20



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: Finn, Walter

My license renewal date for the state of Florida is February 28, 2021.

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



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

June 4, 2020

Job	Truss	Truss Type	Qty	Ply	Carter	T20377876
CARTER	A1GE	PIGGYBACK BASE STRUC I	1	1		
Job Reference (optional)						

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:37 2020 Page 1

ID: f3RGRpA11KInmp9UuwaavYzOWWI-YwJ_BHgwFwyDS0UGAZroMxd0kidYETveUG?6mKz9joq

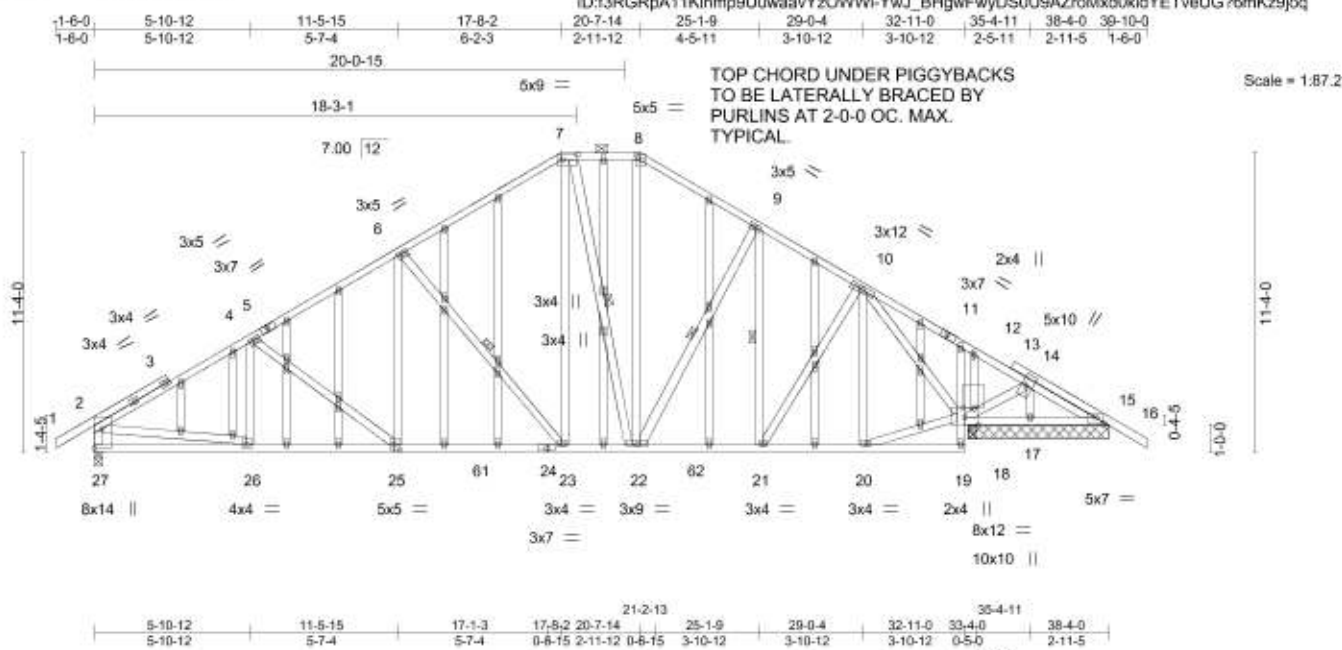


Plate Offsets (X,Y)=[7:0-7.0,0-2.4], [8:0-2.8,0-2.1], [15:0-3.8,0-3.0], [18:0-0.9,0-5.0], [25:0-2.8,0-3.0], [27:Edge,0-3.8], [27:0-0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.45	Vert(LL)	-0.09 23-25	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.48	Vert(CT)	-0.18 23-25	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.91	Horz(CT)	0.04 18	n/a	n/a		
BCDL 10.0	Code FBC2017/TP12014		Matrix-AS						
Weight: 403 lb									FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-8.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 6-23, 7-22, 9-22, 9-21

REACTIONS.

All bearings 5-3-8 except (it=length) 27=0-3-8.
(lb) - Max Horz 27=-220(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 27, 18, 15, 17
Max Grav All reactions 250 lb or less at joint(s) 15, 17, 15 except 27=1381(LC 1), 18=1686(LC 1), 18=1686(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1787/307, 4-6=-1581/342, 6-7=-1170/346, 7-8=-884/334, 8-9=-1068/348, 9-10=-1033/285, 10-12=-6/340, 12-14=-85/332, 2-27=-1317/303
BOT CHORD 26-27=-56/448, 25-26=-162/1593, 23-25=-78/1401, 22-23=0/995, 21-22=0/866, 20-21=0/597
WEBS 4-25=-282/112, 6-25=0/360, 6-23=-638/201, 7-23=-90/608, 7-22=-369/46, 8-22=-90/362, 9-21=-302/67, 10-21=-14/513, 18-20=0/633, 10-18=-1423/240, 2-26=-119/1202

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCPI=0.18; MWFRS (directional) and C-C Exterior(2) 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
- 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/TP1 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 27, 18, 15, 17, 15.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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6904 Parke East Blvd, Tampa FL 33610
Date:

June 4,2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MI-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Carter	T20377877
CARTER	A2	PIGGYBACK BASE	1	1		
Job Reference (optional)						

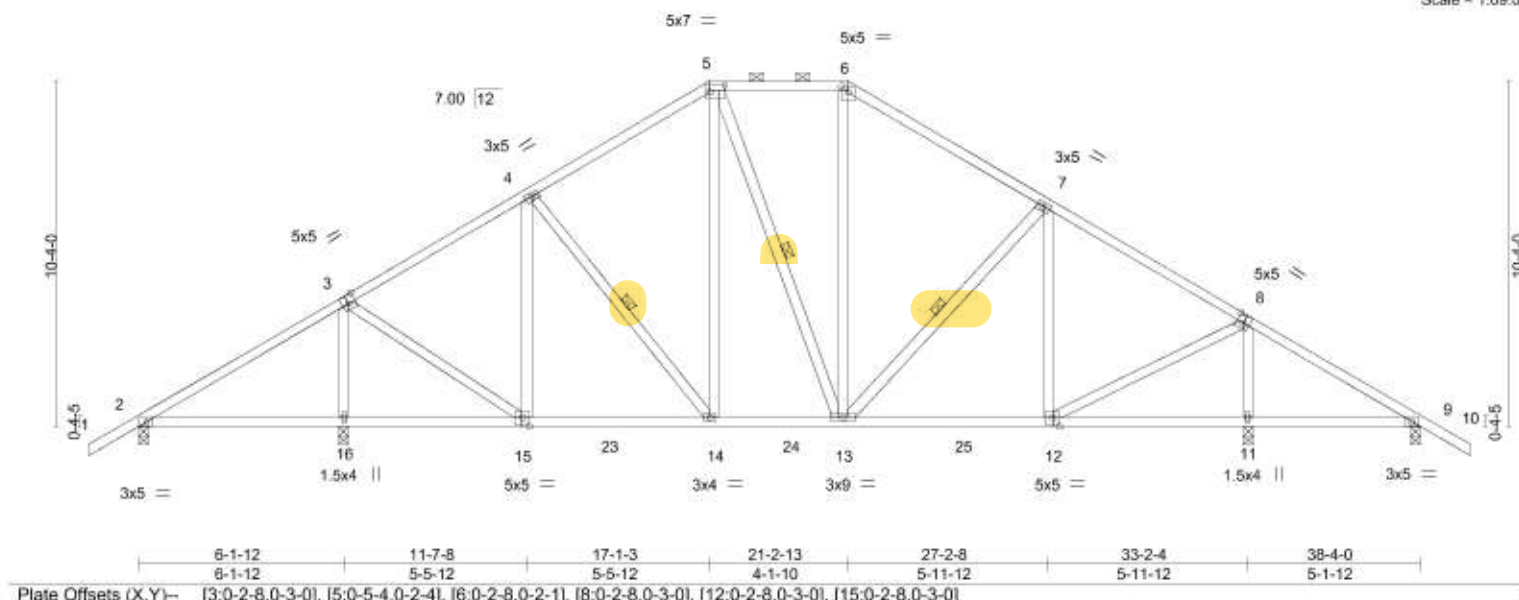
Mayo Truss Company, Inc., Mayo, FL - 32066,

8/24/2020 4:07:55:38 PM Page 1

ID: f3RGRpA11Klnmp9UuwaavYzOWWI-06tMPdgY0E444A3MkGM1v89Cxb7hz4dojwglmz9jop

1-6-0	6-1-12	11-7-8	17-1-3	21-2-13	27-2-8	33-2-4	38-4-0	39-10-0
1-6-0	6-1-12	5-5-12	5-5-12	4-1-10	5-11-12	5-11-12	5-1-12	1-6-0

Scale = 1:68.0



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 0.35	Vert(LL) 0.06	16-19	>999	240	MT20	244/190
TCCL 10.0	Lumber DOL 1.25		BC 0.36	Vert(CT) -0.10	12-13	>999	180		
BCCL 0.0 *	Rep Stress Incr YES		WB 0.30	Horz(CT) 0.02	11	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 245 lb	FT = 0%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied, except
BOT CHORD 2x4 SP No.2	2-0-0 oc purlins (6-0-0 max.); 5-6.
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied.
	WEBS 1 Row at midpt 4-14, 5-13, 7-13

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=199(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 16, 11, 9 except 2=107(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 9 except 2=281(LC 21), 16=1419(LC 17), 11=1364(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=64/261, 3-4=843/235, 4-5=877/303, 5-6=720/305, 6-7=901/303, 7-8=955/236
 BOT CHORD 14-15=0/745, 13-14=0/749, 12-13=0/754
 WEBS 3-16=1321/253, 3-15=17/896, 4-15=369/101, 7-12=297/108, 8-12=38/915,
 8-11=1252/262

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 11, 9 except (jt=lb) 2=107.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 Date:

June 4, 2020

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6904 Parke East Blvd.
 Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Carler	T20377878
CARTER	A3	PIGGYBACK BASE	3	1		

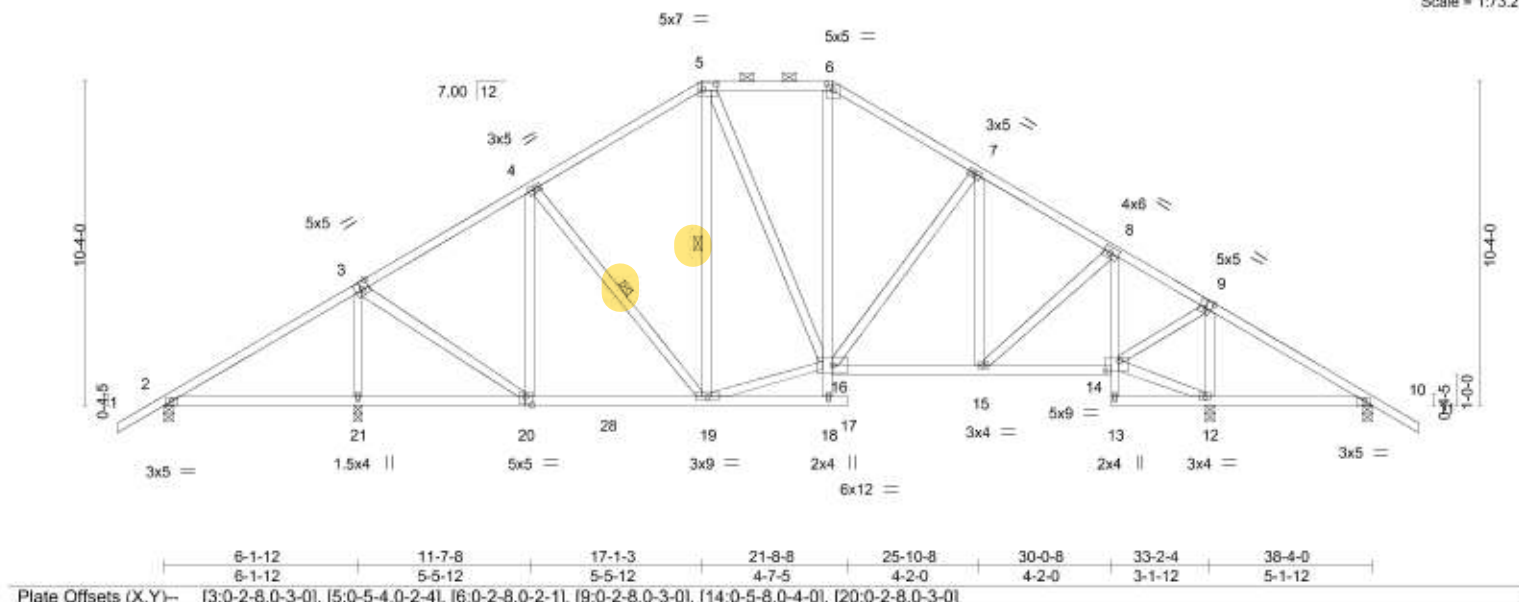
Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:39 2020 Page 1

ID:f3RGRpA11KInmp9UuwaavYzOWWI-UJRkcyhAnXCxhJeYI_uGRMingVLuIX2xxaUDqCz9joo

1-6-0	6-1-12	11-7-8	17-1-3	21-2-13	21-8-8	25-10-8	30-0-8	33-2-4	38-4-0	39-10-0
1-6-0	6-1-12	5-5-12	5-5-12	4-1-10	0-5-11	4-2-0	4-2-0	3-1-12	5-1-12	1-6-0

Scale = 1:73.2



LOADING (psf)	SPACING	2-0-0	CSI	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25		TC 0.35	Vert(LL) 0.06	21-24	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.25		BC 0.29	Vert(CT) -0.08	19-20	>999	180		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.29	Horz(CT) 0.03	12	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 262 lb	FT = 0%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied, except
2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied. Except:
10-0-0 oc bracing: 16-18
WEBS 1 Row at midpt 4-19, 5-19

REACTIONS. All bearings 0-3-8.
(lb) - Max Horz 2=-199(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 21, 12 except 2=-107(LC 12), 10=-107(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 10 except 2=284(LC 21), 21=1371(LC 1), 12=1571(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-4=-802/229, 4-5=-829/296, 5-6=-714/283, 6-7=-897/287, 7-8=-952/242, 8-9=-605/159,
9-10=-13/514
BOT CHORD 19-20=0/688, 15-16=0/771, 14-15=0/487, 8-14=-599/108, 10-12=-374/94
WEBS 3-21=-1230/248, 3-20=-12/810, 4-20=-357/97, 8-15=-0/381, 12-14=-361/87,
9-14=-29/968, 9-12=-1300/212, 16-19=0/675, 5-16=0/255

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=38ft; eave=5ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 12 except (jt=lb) 2=107, 10=107.
 - 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.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

June 4,2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Carter	T20377880
CARTER	A5	PIGGYBACK BASE	2	1		

Mayo Truss Company, Inc., Mayo, FL - 32066,

8 240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:42 2020 Page 1

ID: f3RGRpA11Klnmp9UuwaavYzOWWI-u06AE_j23SaVYnM7z6Rz3_KuwjL2vuWNeYitRXz9jol

1-6-0	6-1-12	11-7-8	17-1-3	21-2-13	27-1-10	33-4-0
1-6-0	6-1-12	5-5-12	5-5-12	4-1-10	5-10-14	6-2-6

Scale = 1.65:9

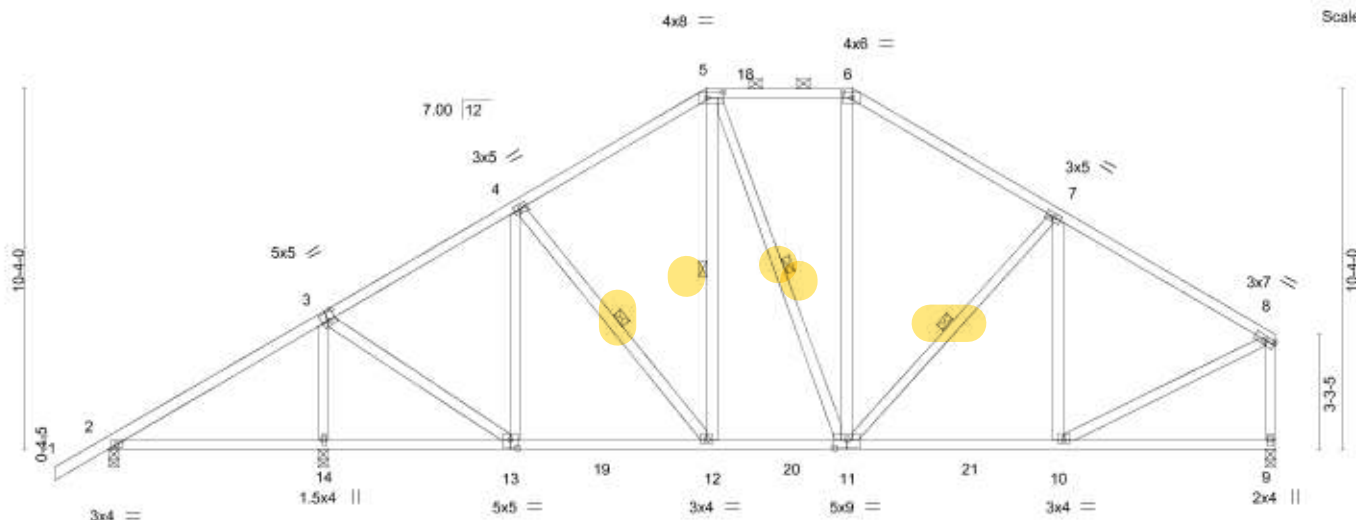


Plate Offsets (X,Y)~	[3:0-2-8,0-3-0], [5:0-5-8,0-2-0], [6:0-3-0,0-1-12], [11:0-4-8,0-3-0], [13:0-2-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.35	Vert(LL)	0.07 14-17	>999	240	MT20	244/190
TCCL 10.0	Lumber DOL	1.25	BC 0.39	Vert(CT)	-0.09 10-11	>999	180		
BCCL 0.0 *	Rep Stress Incr	YES	WB 0.31	Horz(CT)	0.02 9	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 226 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-12, 5-12, 5-11, 7-11

REACTIONS.

(size) 2=0-3-8, 14=0-3-8, 9=0-3-8
Max Horz 2=227(LC 11)
Max Uplift 2=94(LC 12), 14=48(LC 12)
Max Grav 2=281(LC 21), 14=1426(LC 17), 9=1070(LC 18)

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

TOP CHORD 2-3=-80/252, 3-4=-864/217, 4-5=-901/295, 5-6=-745/299, 6-7=-932/298, 7-8=-1031/231, 8-9=-1018/204
BOT CHORD 12-13=-109/745, 11-12=-68/754, 10-11=-141/819
WEBS 3-14=-1328/309, 3-13=-62/905, 4-13=-379/130, 7-10=-251/135, 8-10=-115/860

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Carter	T20377881
CARTER	A6	PIGGYBACK BASE	7	1		

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:43 2020 Page 1

ID: f3RGRpA11Kinmp9UuwaavYzOWWI-M4gFSKkggmIMaxxJXpyCcCsw7ieeFaXsCSRz_z9jck

1-6-0 5-10-12 11-5-15 17-1-3 21-2-13 21-7-8
1-6-0 5-10-12 5-7-4 5-7-4 4-1-10 0-4-11

4x8 = 6x10 MT20HS =

Scale: 3/16"=1'

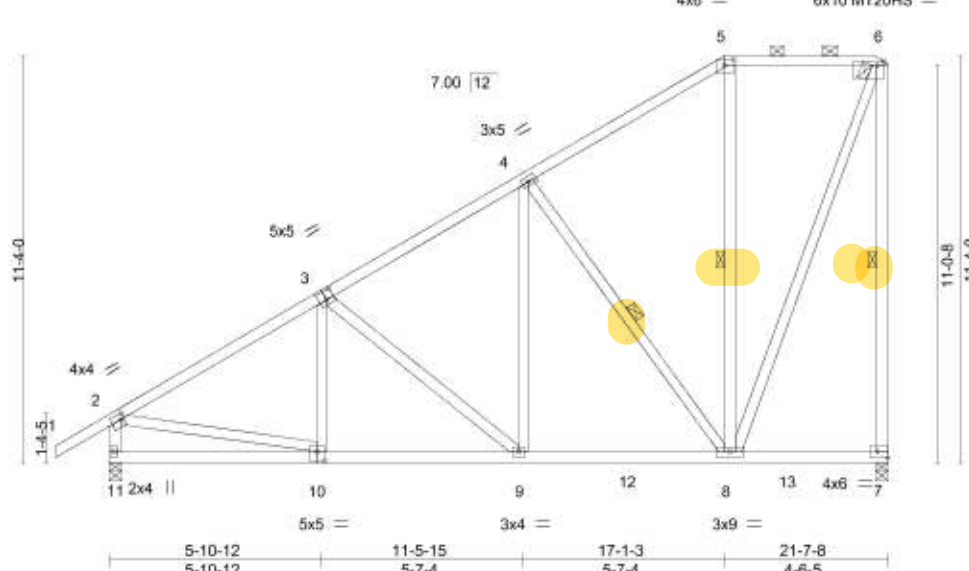


Plate Offsets (X,Y)~ [2:0-1-0,0-1-12], [3:0-2-8,0-3-0], [5:0-3-0,0-1-12], [6:0-2-0,0-1-8], [7:Edge,0-2-0], [10:0-2-8,0-3-0]

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 0.98	Vert(LL)	-0.04	8-9	>999	240	244/190
TCCL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.08	8-9	>999	180	187/143
BCCL 0.0 *	Rep Stress Incr	YES	WB 0.70	Horz(CT)	0.02	7	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 171 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 4-8, 5-8, 6-7

REACTIONS.

(size) 11=0-3-8, 7=0-3-8
Max Horz 11=343(LC 9)
Max Uplift 11=-29(LC 12), 7=-51(LC 9)
Max Grav 11=956(LC 1), 7=950(LC 17)

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

TOP CHORD 2-3=-1044/176, 3-4=-798/208, 4-5=-459/221, 5-6=-395/232, 2-11=-899/230, 6-7=-857/283
BOT CHORD 10-11=-627/686, 9-10=-467/1042, 8-9=-340/769
WEBS 3-9=-353/164, 4-9=-43/368, 4-8=-617/217, 6-8=-286/826, 2-10=-32/717

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

June 4, 2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCS Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Carler	T20377862
CARTER	A7	PIGGYBACK BASE	3	1		

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:45 2020 Page 1

ID:13RGRpA11Klnmp9UuwaavYzOWWI-JTo7i0mxMNY4PE5ieE_gdhdyETwN468lqKwX2sz9joi

1-6-0 1-9-8 3-3-8 7-8-12 12-2-0 17-1-3 21-2-13 21-7-8
1-6-0 1-9-8 1-6-0 4-5-4 4-5-4 4-11-3 4-1-10 0-4-11

5x5 = 6x10 MT20HS =

Scale = 1:69.8

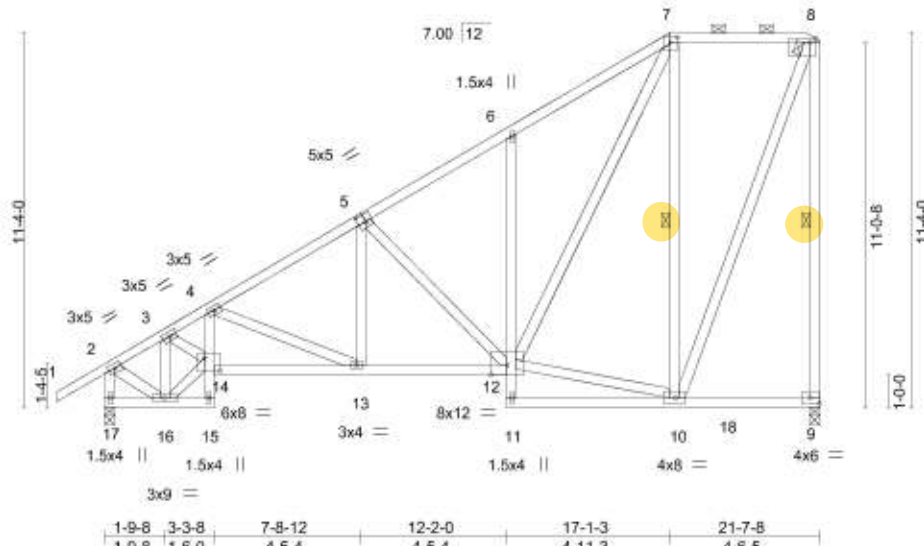


Plate Offsets (X,Y)-- [5:0-2-8,0-3-0], [7:0-2-8,0-2-1], [8:0-2-0,0-1-8], [9:Edge,0-2-0], [14:0-5-8,0-4-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.97	Vert(LL)	-0.04 12-13	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.37	Vert(CT)	-0.10 12-13	>999	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.06 9	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 192 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 7-8.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 7-10, 8-9

REACTIONS.

(size) 17=0-3-8, 9=0-3-8
Max Horz 17=343(LC 9)
Max Uplift 17=-29(LC 12), 9=-51(LC 9)
Max Grav 17=956(LC 1), 9=898(LC 17)

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

TOP CHORD 2-3=-709/112, 3-4=-1521/437, 4-5=-1150/206, 5-6=-795/213, 6-7=-833/336, 7-8=-390/231, 2-17=-922/209, 8-9=-813/282
BOT CHORD 16-17=-595/578, 4-14=-270/455, 13-14=-930/1883, 12-13=-511/1166, 6-12=-303/190
WEBS 3-16=-1042/444, 14-16=-666/1158, 3-14=-430/1036, 4-13=-764/448, 5-13=-62/293, 5-12=-516/212, 10-12=-190/351, 7-12=-342/896, 7-10=-750/414, 8-10=-282/776, 2-16=-63/674

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
- Provide adequate drainage to prevent water ponding.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) to bearing plate capable of withstanding 100 lb uplift at joint(s) 17, 9.
- 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.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Date:

June 4,2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



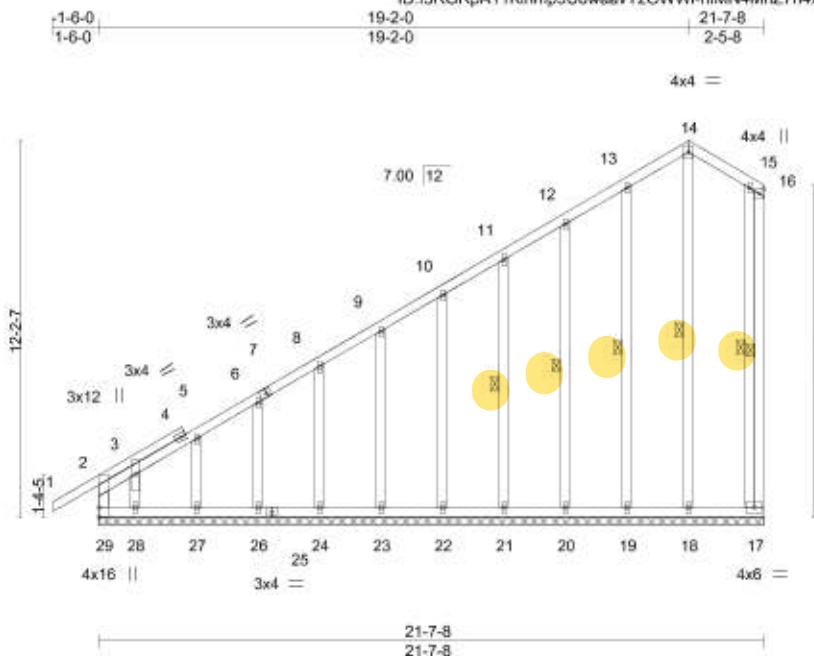
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Carter	T20377883
CARTER	A8GE	Common Supported Gable	1	1		
Job Reference (optional)						

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:46 2020 Page 1

ID: f3RGRpA11KInmp9UuwaavYzOWWl-nfMN4MnZ7h4x1OguCyWvDqUT2Kj1rksZyAg5alz9joh



Scale = 1:75.0

Plate Offsets (X,Y)=[2:0-1-0,0-1-12], [29:0-0-0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.73	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.33	Vert(CT)	-0.01	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.00	17	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-R						
									Weight: 204 lb FT = 0%

LUMBER-

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

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 16-17, 14-18, 13-19, 12-20, 11-21, 15-17

REACTIONS.

All bearings 21-7-8.
(lb) - Max Horz 29=350(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 17, 18, 19, 20, 21, 22, 23, 24, 26 except 29=-149(LC 10), 28=-288(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 17, 18, 19, 20, 21, 22, 23, 24, 26, 27, 28 except 29=404(LC 18)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-29=-460/325, 2-3=-631/556, 3-5=-456/421, 5-6=-428/396, 6-8=-378/355, 8-9=-329/314, 9-10=-279/273, 14-15=-241/263, 15-16=-283/311, 16-17=-293/319
WEBS 3-28=-316/340

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 17, 18, 19, 20, 21, 22, 23, 24, 26 except (jt=lb) 29=149, 28=288.



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

June 4, 2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Carter	T20377884
CARTER	B1GE	Common Girder	1	1		
Job Reference (optional)						

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:48 2020 Page 1

ID: f3RGRpA11Klnmp9UuwaavYzOWWl-j2U8V1opflKIGiQHKYNYJFaxs8T0JegG0U9BfBz9jof

1-6-0 16-8-0 33-4-0 34-10-0
1-6-0 16-8-0 16-8-0 1-6-0

Scale = 1:79.7

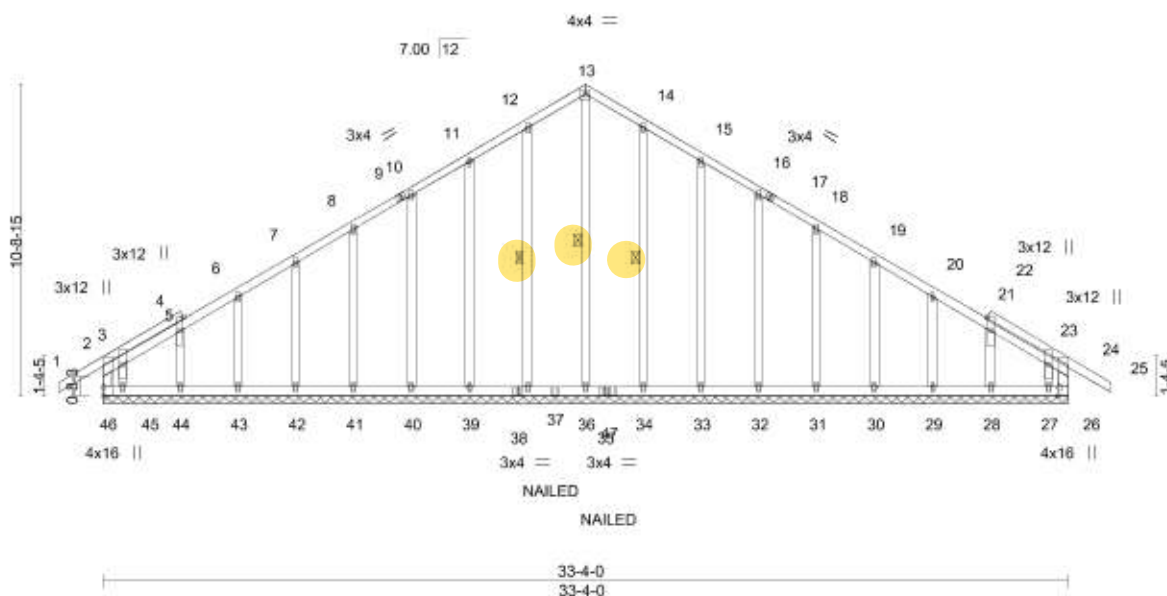


Plate Offsets (X,Y)-- [2:0-1-0,0-1-12], [24:0-1-0,0-1-12], [26:0-0-0,0-1-12], [26:0-3-8,Edge], [46:0-0-0,0-1-12]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.20	Vert(LL)	0.00	25	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.10	Vert(CT)	-0.00	25	n/r		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.14	Horz(CT)	-0.00	26	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-R					Weight: 257 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 13-36, 12-37, 14-34

REACTIONS.

- All bearings 33-4-0.
(lb) - Max Horz 46=-209(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 26, 37, 39, 40, 41, 42, 43, 44, 34, 33, 32, 31, 30, 29, 28 except 46=-182(LC 6), 45=-170(LC 24), 27=-106(LC 21)
Max Grav All reactions 250 lb or less at joint(s) 37, 39, 40, 41, 42, 43, 44, 45, 34, 33, 32, 31, 30, 29, 28, 27 except 46=336(LC 30), 26=266(LC 29), 36=251(LC 23)

FORCES.

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

TOP CHORD 2-46=-254/80

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=2ft; 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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 26, 37, 39, 40, 41, 42, 43, 44, 34, 33, 32, 31, 30, 29, 28 except (jt=lb) 46=182, 45=170, 27=106.
- "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
- 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: 1-2=-60, 2-13=-60, 13-24=-60, 24-25=-60, 26-46=-20



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

June 4, 2020

Continued on page 2

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Cartel	T20377884
CARTER	B1GE	Common Girder	1	1	Job Reference (optional)	

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 35=-16(B) 47=-16(B)

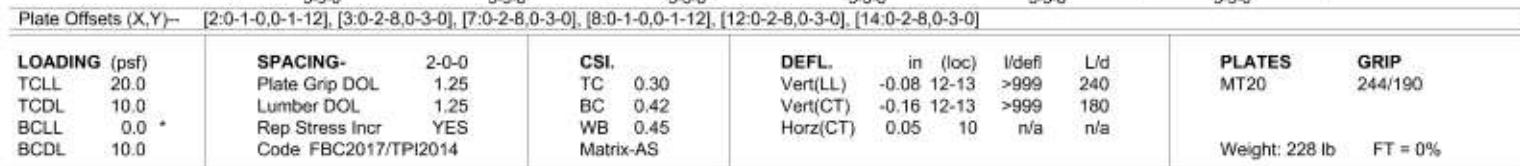
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

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6904 Parke East Blvd.
Tampa, FL 36610

Mayo Truss Company, Inc., Mayo, FL - 32066, 8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:50 2020 Page 1
ID: f3RGRpA11Klnmp9UuwaavYzOWWl-IQbuwjq3BwbNW0zfRnarOgfGix4UnTEZToel4z9jcd
1-6-0 5-9-0 11-2-8 16-9-0 22-1-8 27-7-0 33-4-0 34-10-0
1-6-0 5-9-0 5-5-8 5-5-8 5-5-8 5-5-8 5-9-0 1-6-0
4x4 — Scale = 1:69



REACTIONS. (size) 16=0-3-8, 10=0-3-8
 Max Horz 16=-220(LC 10)
 Max Uplift 16=-40(LC 12), 10=-40(LC 12)
 Max Grav 16=1420(LC 1), 10=1420(LC 1)

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

TOP CHORD	2-3=-1729/303, 3-4=-1586/348, 4-5=-1269/362, 5-6=-1269/362, 6-7=-1586/348, 7-8=-1729/303, 2-16=-1360/309, 8-10=-1360/310
BOT CHORD	15-16=-144/294, 14-15=-154/1513, 13-14=-74/1387, 12-13=-72/1303, 11-12=-146/1419
WEBS	5-13=-221/923, 6-13=-529/180, 6-12=-4/292, 4-13=-528/180, 4-14=-4/292, 2-15=-138/1306, 8-11=-138/1306

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=33ft; eave=4ft; Cat. II; Exp B; Encl., C_p=0.18; MWFRS (directional) and C-C exterior(2) zone; cantilever left and right exposed ; end vertical left and right exposed; G-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10.
- 6) 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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Date:

June 4, 2020



WARNING - verify design parameters and READ NOTES on this and INCLUDED MITER reference page MR-4173 rev. 10/03/2013 before use.
Design valid for use only with MITeX® 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-88 and BCSI Building Component**
Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314



6904 Parke East Blvd
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Cartier	T20377886
CARTER	C1GE	Roof Special Structural Gable	1	1		
Job Reference (optional)						

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:52 2020 Page 1

ID: f3RGRpA11KInmp9UuwaavYzOWWI-cpielPrKjXr5IJ72ZCcJT5kcOlnsFPpsx57Poyz9job

5-6-4	10-7-10	15-9-0	20-3-0	24-11-1	30-0-0	31-6-0
5-6-4	5-1-6	5-1-6	4-6-0	4-8-1	5-0-15	1-6-0

7x6 ||

Scale = 1:67.5

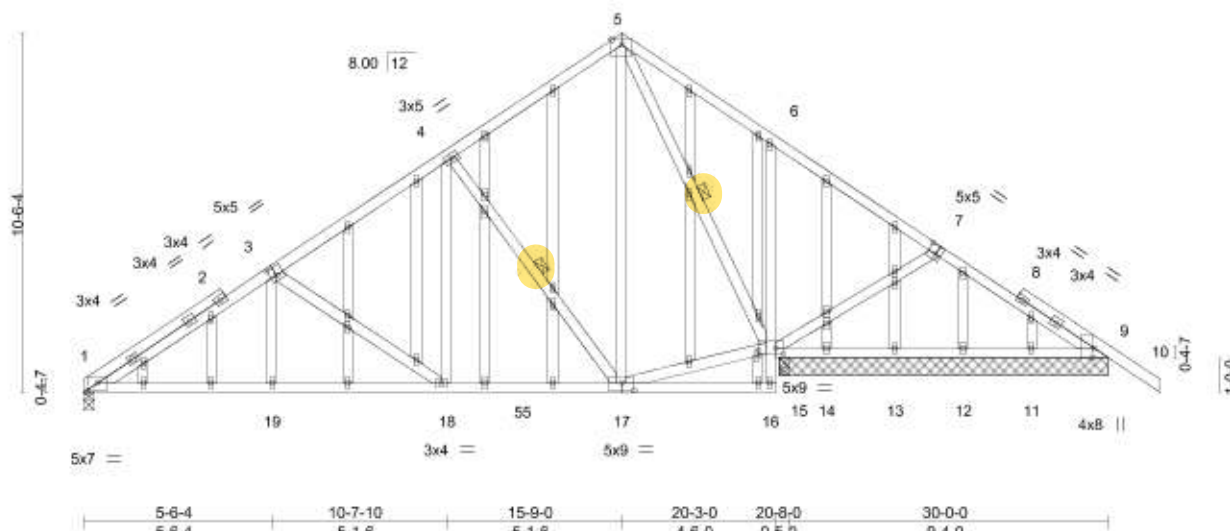


Plate Offsets (X,Y)~ [1:0-3-8,0-3-2], [3:0-2-8,0-3-0], [7:0-2-8,0-3-0], [9:0-3-8,Edge], [15:0-3-0,0-2-0], [15:0-2-0,0-0-0], [17:0-4-8,0-3-0]

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 0.29	Vert(LL)	-0.03	17-18	>999	240	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.30	Vert(CT)	-0.06	17-18	>999	180	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.01	51	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
Weight: 281 lb									FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied,
WEBS 1 Row at midpt 4-17, 5-15

REACTIONS.

All bearings 9-7-8 except (it=length) 1=0-3-8.
(lb) - Max Horz 1=-195(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 15, 9
Max Grav All reactions 250 lb or less at joint(s) 14, 13, 12, 11, 9 except 1=736(LC 21), 15=1305(LC 1), 15=1305(LC 1), 9=277(LC 22)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1057/154, 3-4=-702/164, 4-5=-336/177, 5-6=0/292, 6-7=-46/301
BOT CHORD 1-19=-59/968, 18-19=-60/967, 17-18=0/613, 6-15=-304/192
WEBS 3-18=-443/145, 4-18=-18/402, 4-17=-610/196, 5-17=-138/554, 15-17=0/266, 5-15=-864/110, 7-15=-280/175

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl. GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 9, 9.
- 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.



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

June 4, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Carter	T20377887
CARTER	C2	Roof Special	3	1		

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:53 2020 Page 1

ID: f3RGRpA11Klnmp9UuwaavYzOWWI-47H1YlsyUrzxNTIE6w8Y0JHnX96I_m?AltyKoz9ja

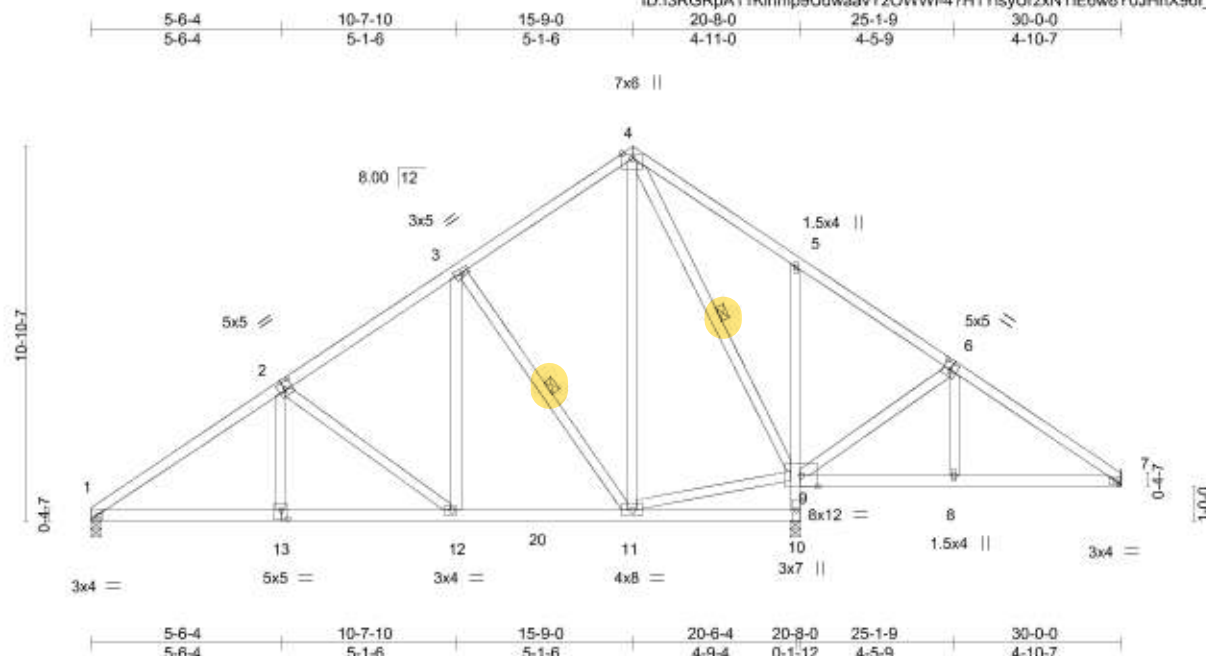


Plate Offsets (X,Y)~ [2:0-2-8,0-3-0], [6:0-2-8,0-3-0], [13:0-2-8,0-3-0]

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 0.27	Vert(LL)	-0.03 11-12	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.35	Vert(CT)	-0.07 13-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.40	Horz(CT)	0.02 10	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS					Weight: 196 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied,
WEBS 1 Row at midpt 3-11, 4-9

REACTIONS.

(size) 1=0-3-8, 10=0-3-8, 7=Mechanical
Max Horz 1=-189(LC 10)
Max Uplift 10=-132(LC 12), 7=-47(LC 12)
Max Grav 1=772(LC 1), 10=1355(LC 1), 7=301(LC 22)

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

TOP CHORD 1-2=-1101/145, 2-3=-734/155, 3-4=-388/169, 6-7=-298/140
BOT CHORD 1-13=-75/970, 12-13=-76/968, 11-12=0/638, 9-10=-1310/513, 5-9=-299/187
WEBS 2-12=-434/153, 3-12=-27/401, 3-11=-599/197, 4-11=-124/554, 9-11=0/292,
4-9=-820/119, 6-9=-374/322

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=30ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) zone; cantilever left and right exposed; end vertical left and right exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7 except (jt=lb) 10=132.
- 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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6904 Parke East Blvd, Tampa FL 33610
Date:

June 4, 2020

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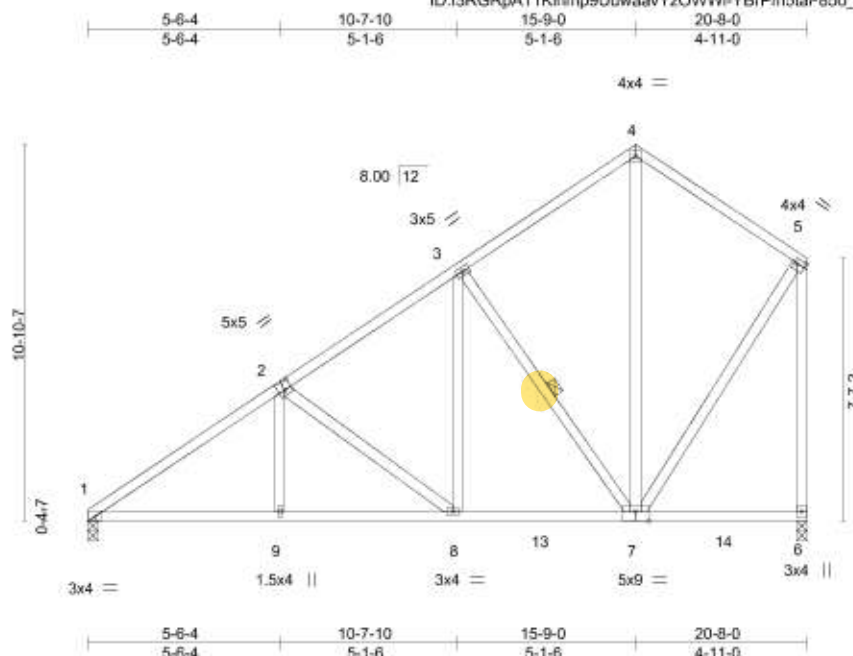
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Carter	T20377888
CARTER	C3	Common	6	1		

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:54 2020 Page 1

ID:13RGRpA11Klnmp9UuwaavYzOWWI-YBrPm5taF85o_dHQgdfnYWqrkYSMjKh8OPcWsrz9joZ



Scale = 1:66.3

Plate Offsets (X,Y)~ [2:0-2-8,0-3-0], [5:Edge,0-1-12], [7:0-4-8,0-3-0]

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 0.75	Vert(LL)	-0.03	9-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.36	Vert(CT)	-0.07	9-12	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.29	Horz(CT)	0.02	6	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS						
								Weight: 144 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied,
WEBS 1 Row at midpt 3-7

REACTIONS.

(size) 1=0-3-8, 6=0-3-8
Max Horz 1=281(LC 11)
Max Uplift 6=-5(LC 12)
Max Grav 1=821(LC 1), 6=877(LC 17)

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

TOP CHORD 1-2=-1188/203, 2-3=-821/213, 3-4=-482/229, 4-5=-482/235, 5-6=-784/210
BOT CHORD 1-9=-391/1065, 8-9=-392/1063, 7-8=-270/716
WEBS 2-8=-433/153, 3-8=-32/397, 3-7=-592/197, 4-7=-130/263, 5-7=-149/589

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; 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; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6.
- 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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Date:

June 4, 2020

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6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Carter	T20377889
CARTER	D1GE	Common Supported Gable	1	1		
Job Reference (optional)						

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:56 2020 Page 1

ID: f3RGRpA11KInmp9UuwaavYzOWWI-Uay9BmuqmmLWExRpo2hFdxvKeMDiBGIRsj6dxjz9joX

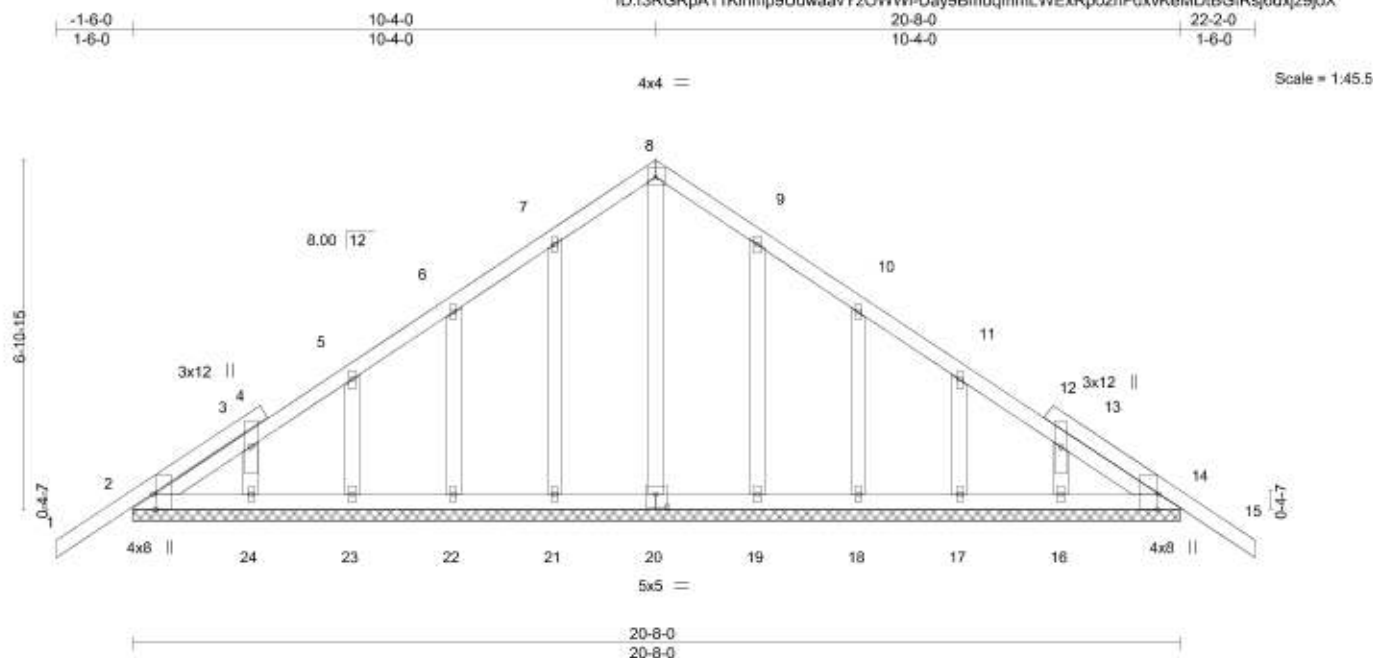


Plate Offsets (X,Y)~ [2:0-3-8,Edge], [14:0-3-8,Edge], [20:0-2-8,0-3-0]

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 0.15	Vert(LL)	-0.01	15	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.01	15	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.00	14	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-S						Weight: 126 lb	FT = 0%

LUMBER-

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

BRACING-

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

REACTIONS.

All bearings 20-8-0.
(lb) - Max Horz 2=-139(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 21, 22, 23, 19, 18, 17
Max Grav All reactions 250 lb or less at joint(s) 2, 14, 20, 21, 22, 23, 24, 19, 18, 17, 16

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
- 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.
- All plates are 1.5x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 2, 14, 21, 22, 23, 19, 18, 17.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date:

June 4, 2020

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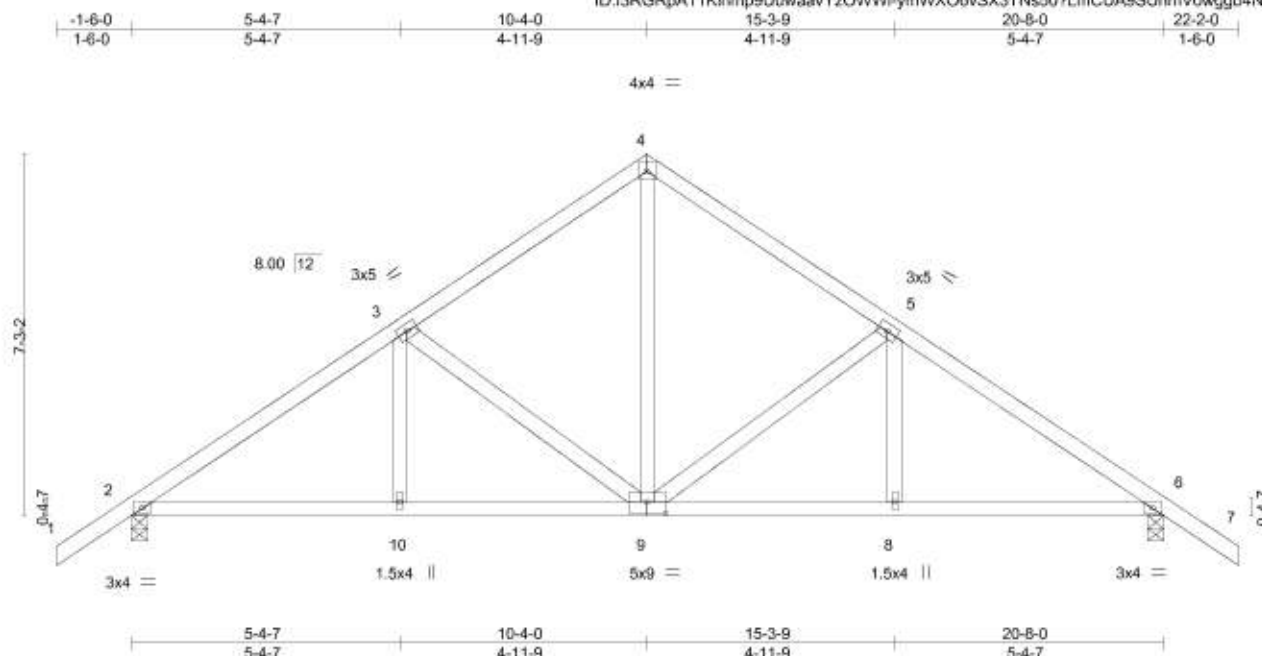
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Carter	T20377890
CARTER	D2	Common	2	1		

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:57 2020 Page 1

ID: f3RGRpA11Klnmp9UuwaavYzOWWl-ymWxO6vSX3TNs507LmCUA9SUnmVowgg4NrATAz9joW



Scale = 1:46.2

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

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.25	Vert(LL)	-0.03	9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.31	Vert(CT)	-0.07	9-10	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.03	6	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-AS							
									Weight: 111 lb	FT = 0%

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 2=0-3-8, 6=0-3-8
Max Horz 2=145(LC 11)
Max Uplift 2=-37(LC 12), 6=-37(LC 12)
Max Grav 2=917(LC 1), 6=917(LC 1)

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

TOP CHORD 2-3=-1200/199, 3-4=-838/212, 4-5=-838/212, 5-6=-1200/199
BOT CHORD 2-10=-46/938, 9-10=-46/938, 8-9=-54/938, 6-8=-54/938
WEBS 4-9=-104/590, 5-9=-434/144, 3-9=-435/145

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 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.



Walter P. Finn PE No.22839
MiTek USA, Inc. FL Cert 6634
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6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	Carter	T20377891
CARTER	E1GE	Monopitch Supported Gable	2	1		
Job Reference (optional)						

Mayo Truss Company, Inc.,

Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:58 2020 Page 1

ID:13RGRpA11Klnmp9UuwaavYzOWWI-Qz4wbSw5INbETEBcVtjM_gAAuMfBGk11b7cz9joV



Scale = 1:12.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.14	Vert(LL)	0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.04	Vert(CT)	-0.01	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P							
									Weight: 11 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 4=2-0-0, 2=2-0-0
Max Horz 2=45(LC 9)
Max Uplift 4=-1(LC 9), 2=-57(LC 12)
Max Grav 4=43(LC 3), 2=201(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) 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) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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) 4, 2.
- 8) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



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MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd, Tampa FL 33610
Date:

June 4, 2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



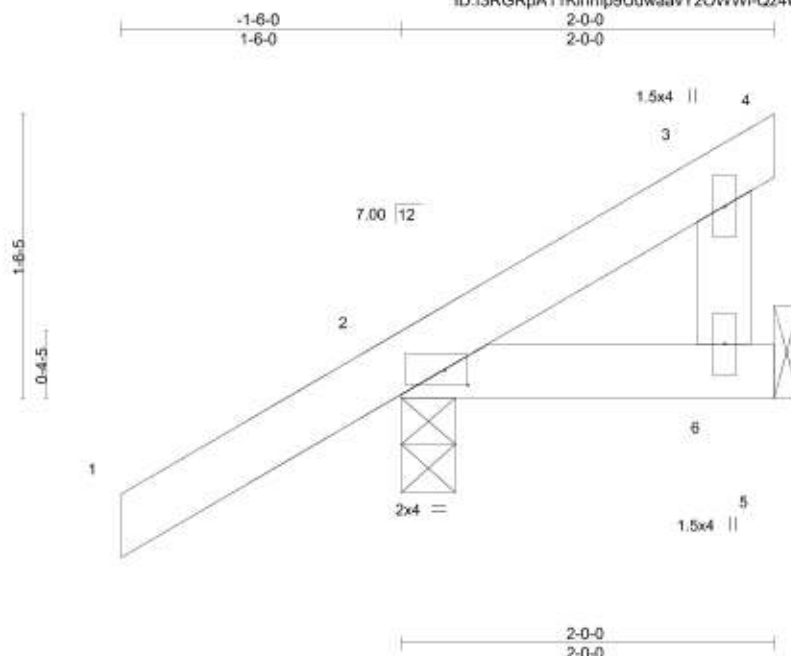
6904 Parke East Blvd.
Tampa, FL 33610

Job	Truss	Truss Type	Qty	Ply	Carter	T20377892
CARTER	E2	Jack-Closed	2	1		

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:55:58 2020 Page 1

ID: f3RGRpA11Klnmp9UuwaavYzOWWI-Qz4wbSw5INbETEBcVtJijM_g9AuDfBGk11bj?cz9joV



Scale = 1:12.3

Plate Offsets (X,Y)~ [2:0-1-7,0-1-0]

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.14	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.05	Vert(CT)	-0.00	9	>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 FBC2017/TPI2014		Matrix-MP						Weight: 10 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 2-0-0 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=45(LC 11)
Max Uplift 2=54(LC 12)
Max Grav 2=203(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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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) 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.



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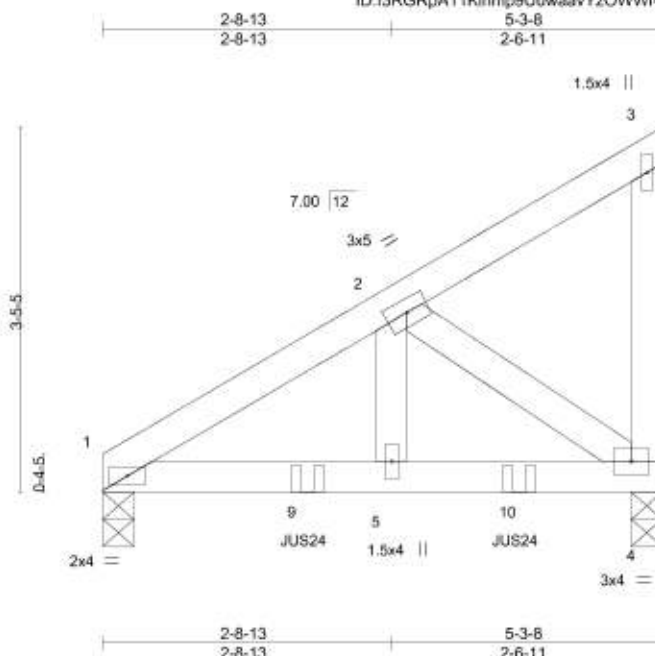
Job	Truss	Truss Type	Qty	Ply	Carter
CARTER	GIR1	Monopitch Girder	1	2	

T20377893

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:56:06 2020 Page 1

ID:f3RGRpA11Klnmp9UuwaavYzOWWI-BVZxH06Qgc5RTCkN9tb12J3aOaYXpQv9HX8H6z9joN



Scale = 1:21.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.05	Vert(LL)	-0.00	4-5	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.21	Vert(CT)	-0.01	4-5	>999	180		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code FBC2017/TP12014		Matrix-MP							
									Weight: 55 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 1=0-3-8, 4=0-3-8
 Max Horz 1=92(LC 20)
 Max Uplift 1=47(LC 8), 4=78(LC 5)
 Max Grav 1=447(LC 1), 4=527(LC 1)

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

TOP CHORD 1-2=-620/86
 BOT CHORD 1-5=-90/525, 4-5=-90/525
 WEBS 2-5=-56/476, 2-4=-635/110

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x4 - 1 row 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 7-10; 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; 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 4.
- Use USP JUS24 (With 4-10d nails into Girder & 4-10d nails into Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-11-4 from the left end to 3-11-4 to connect truss(es) to back face of bottom chord.
- Fill all nail holes where hanger is in contact with lumber.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced); Lumber Increase=1.25, Plate Increase=1.25
 Uniform Loads (plf)
 Vert: 1-3=-60, 4-6=-20
 Concentrated Loads (lb)
 Vert: 9=-281(B) 10=-281(B)



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Job	Truss	Truss Type	Qty	Ply	Carter	T20377894
CARTER	PB1GE	GABLE	1	1		

Mayo Truss Company, Inc., Mayo, FL - 32066,

8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:56:07 2020 Page 1

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2-0-13

2-0-13

4-1-10

2-0-13

Scale = 1:6.4

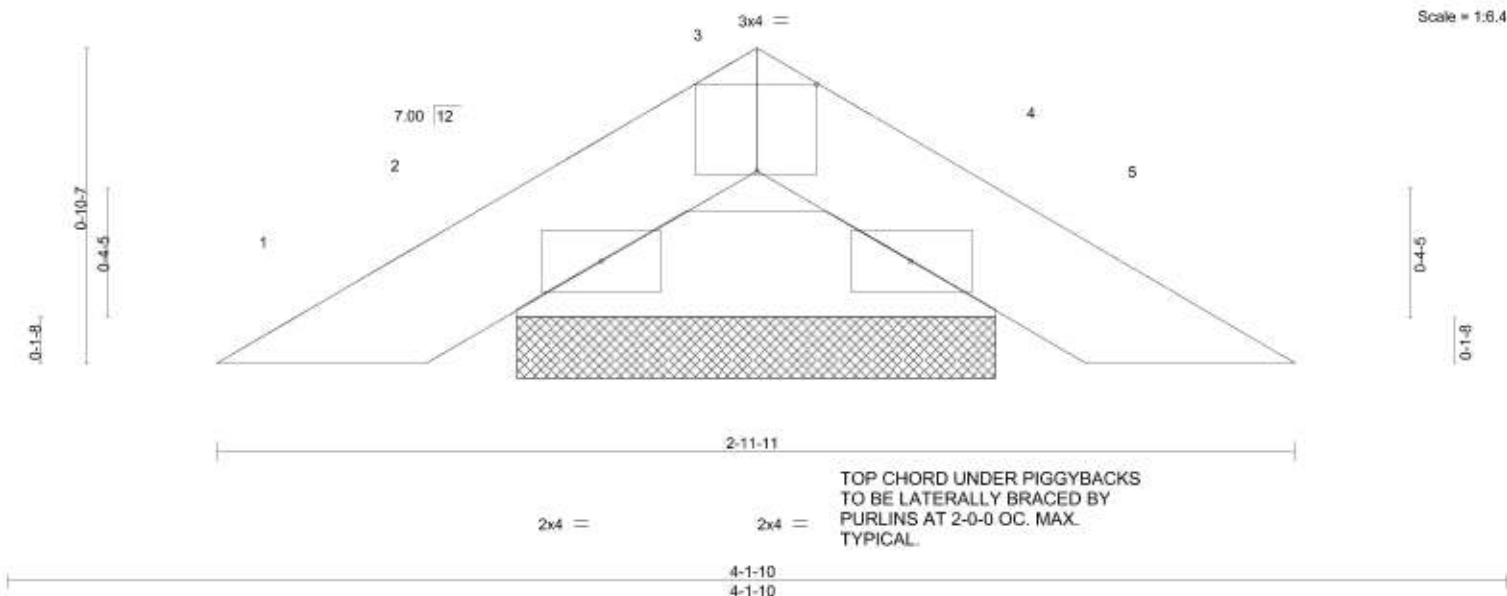


Plate Offsets (X,Y)-- [3:0-2-0,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.02	Vert(LL)	-0.00	4	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.25	BC 0.02	Vert(CT)	-0.00	4	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P					Weight: 7 lb	FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=1-3-13, 4=1-3-13
Max Horz 2=-12(LC 10)
Max Uplift 2=-13(LC 12), 4=-13(LC 12)
Max Grav 2=85(LC 1), 4=85(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=2ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
- 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in 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) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job	Truss	Truss Type	Qty	Ply	Carter	T20377895
CARTER	PB2	Piggyback	19	1		

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8.240 s Mar 9 2020 MiTek Industries, Inc. Thu Jun 4 07:56:08 2020 Page 1

ID: f3RGRpA11Klnmp9UuwaavYzOWWI-8uhit2MySspgnL7VZv37TPPZCI9?jCcb0FM1z9j0L

2-0-13 2-0-13 4-1-10 2-0-13

Scale = 1:8.2

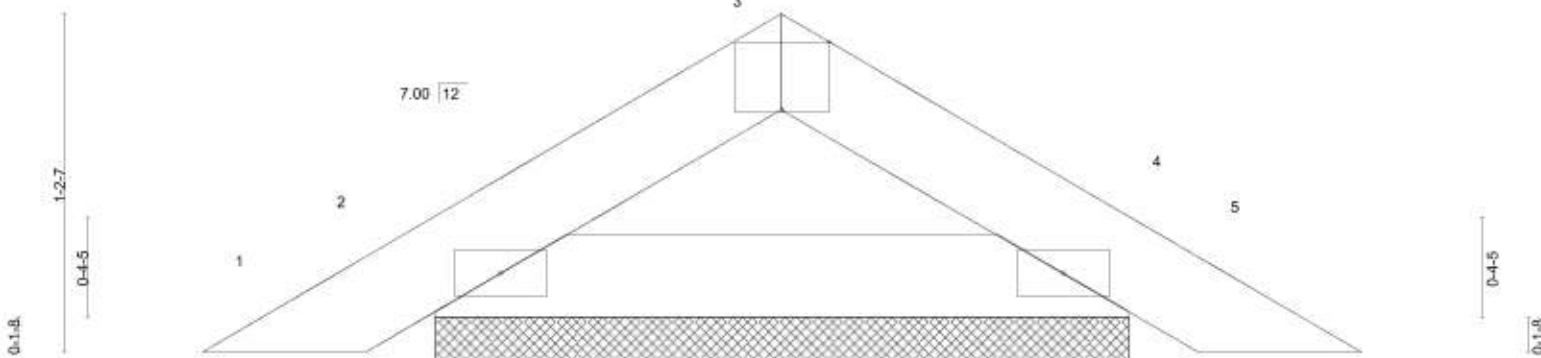


Plate Offsets (X,Y)~ [3:0-2-0,Edge] 4-1-10 4-1-10

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 0.02	Vert(LL)	0.00	4	n/r	120	MT20
TCDL 10.0	Lumber DOL	1.25	BC 0.07	Vert(CT)	0.00	4	n/r	120	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a	
BCDL 10.0	Code FBC2017/TPI2014		Matrix-P						

Weight: 11 lb FT = 0%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-1-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=2-5-11, 4=2-5-11
Max Horz 2=18(LC 11)
Max Uplift 2=13(LC 12), 4=13(LC 12)
Max Grav 2=131(LC 1), 4=131(LC 1)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; B=45ft; L=24ft; eave=4ft; Cat. II; Exp B; Encl., GCpi=0.18; MWFRS (directional) and C-C Exterior(2) 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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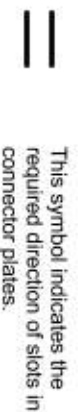
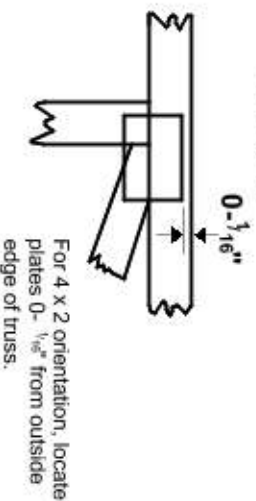
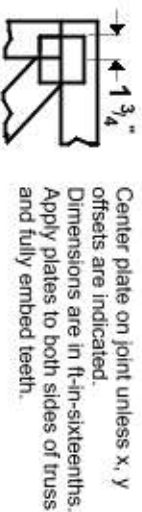
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Tampa, FL 33610

Symbols

PLATE LOCATION AND ORIENTATION



* Plate location details available in **MiTek 20120** software or upon request.

PLATE SIZE

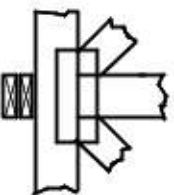
4 X 4

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

LATERAL BRACING LOCATION



BEARING

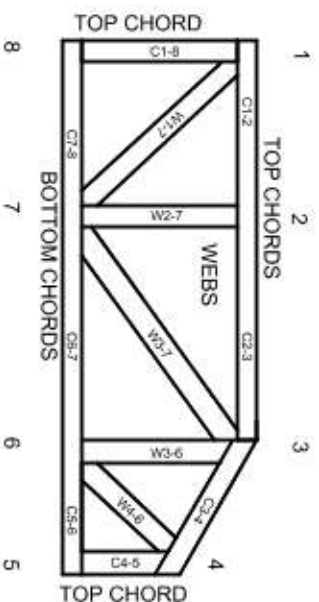


Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8 dimensions shown in ft-in-sixteenths (Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor 1 bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.

