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

RE: 1120836 - PAPKA RES.

MiTek USA, Inc.
6904 Parke East Blvd.
Tampa, FL 33610-4115

Site Information:
Customer Info: Brian Papka Project Name: 1120836 Model: Papka Res.
Lot/Block: Subdivision:
Address: 363 SW Blaylock Court
City: Columbia Cty State: FL

Name Address and License # of Structural Engineer of Record, If there is one, for the building.
Name: Unknown at time of seals License #: Unknown at time of seals
Address: Unknown at time of seals
City: Unknown at time of seals State: Unknown at time of seals

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):
Design Code: FBC2014/TPI2007 Design Program: MiTek 20/20 7.6
Wind Code: ASCE 7-10 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: 55.0 psf

This package includes 50 individual, Truss Design Drawings and 0 Additional Drawings.
With my seal affixed to this sheet, I hereby certify that I am the Truss Design Engineer and this index sheet conforms to 61G15-31.003, section 5 of the Florida Board of Professional Engineers Rules.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T11722472	CJ01	7/31/17	18	T11722489	KW4	7/31/17
2	T11722473	CJ02	7/31/17	19	T11722490	PB01	7/31/17
3	T11722474	CJ03	7/31/17	20	T11722491	PB01G	7/31/17
4	T11722475	EJ01	7/31/17	21	T11722492	T01	7/31/17
5	T11722476	EJ02	7/31/17	22	T11722493	T01G	7/31/17
6	T11722477	EJ03	7/31/17	23	T11722494	T02	7/31/17
7	T11722478	EJ04	7/31/17	24	T11722495	T03	7/31/17
8	T11722479	EJ05	7/31/17	25	T11722496	T04	7/31/17
9	T11722480	F01	7/31/17	26	T11722497	T05	7/31/17
10	T11722481	F02	7/31/17	27	T11722498	T05G	7/31/17
11	T11722482	F03	7/31/17	28	T11722499	T06	7/31/17
12	T11722483	F04	7/31/17	29	T11722500	T07	7/31/17
13	T11722484	F05	7/31/17	30	T11722501	T08	7/31/17
14	T11722485	F06	7/31/17	31	T11722502	T09	7/31/17
15	T11722486	HJ01	7/31/17	32	T11722503	T10	7/31/17
16	T11722487	HJ02	7/31/17	33	T11722504	T11	7/31/17
17	T11722488	KW3	7/31/17	34	T11722505	T12	7/31/17

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

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2019.

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. Any project specific information included is for MiTek's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek 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.

Joaquin Velez PE No.68182
MiTek USA, Inc. FL Cert 6634
6904 Parke East Blvd. Tampa FL 33610
Date:

July 31,2017

RE: 1120836 - PAPKA RES.

Site Information:

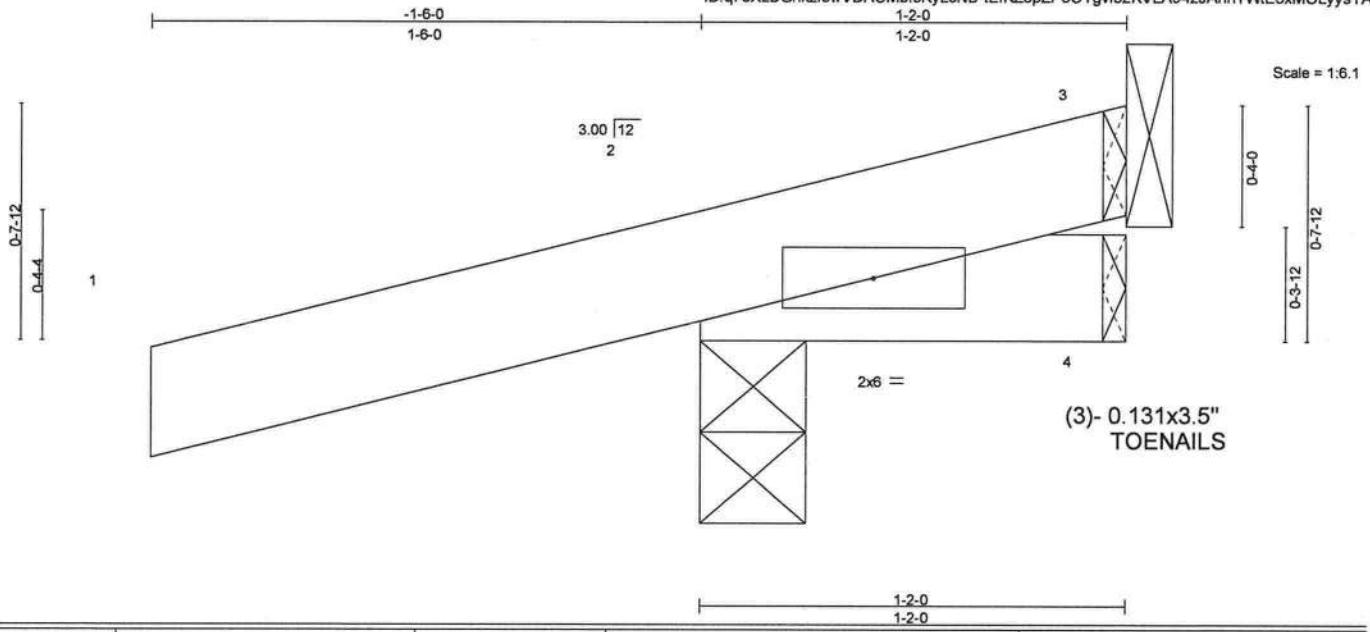
Customer Info: Brian Papka Project Name: 1120836 Model: Papka Res.
Lot/Block: Subdivision:
Address: 363 SW Blaylock Court
City: Columbia Cty State: FL

No.	Seal#	Truss Name	Date
35	T11722506	T13	7/31/17
36	T11722507	T14	7/31/17
37	T11722508	T15	7/31/17
38	T11722509	T15G	7/31/17
39	T11722510	T16	7/31/17
40	T11722511	T17	7/31/17
41	T11722512	T17G	7/31/17
42	T11722513	T18	7/31/17
43	T11722514	T19	7/31/17
44	T11722515	T20	7/31/17
45	T11722516	T21	7/31/17
46	T11722517	T21G	7/31/17
47	T11722518	T22	7/31/17
48	T11722519	T22G	7/31/17
49	T11722520	TFG01	7/31/17
50	T11722521	TFG02	7/31/17

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722472
1120836	CJ01	JACK-OPEN	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:37 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-tEfKZ6pZPoOTgvl02KVLA942JAnhTWtE5xMOLyysYAi



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	0.16	Vert(LL)	0.00	5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.02	Vert(TL)	-0.00	5	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 6 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=-2/Mechanical, 2=168/0-3-8
Max Horz 2=42(LC 8)
Max Uplift 3=-2(LC 1), 2=-165(LC 8)
Max Grav 3=26(LC 8), 2=168(LC 1)

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

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) 3 except (jt=lb) 2=165.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722473
1120836	CJ02	Jack-Open	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:37 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-tEfKZ6pZPoOTgvl02KVLA942JAmaTWtE5xMOLyysYAi

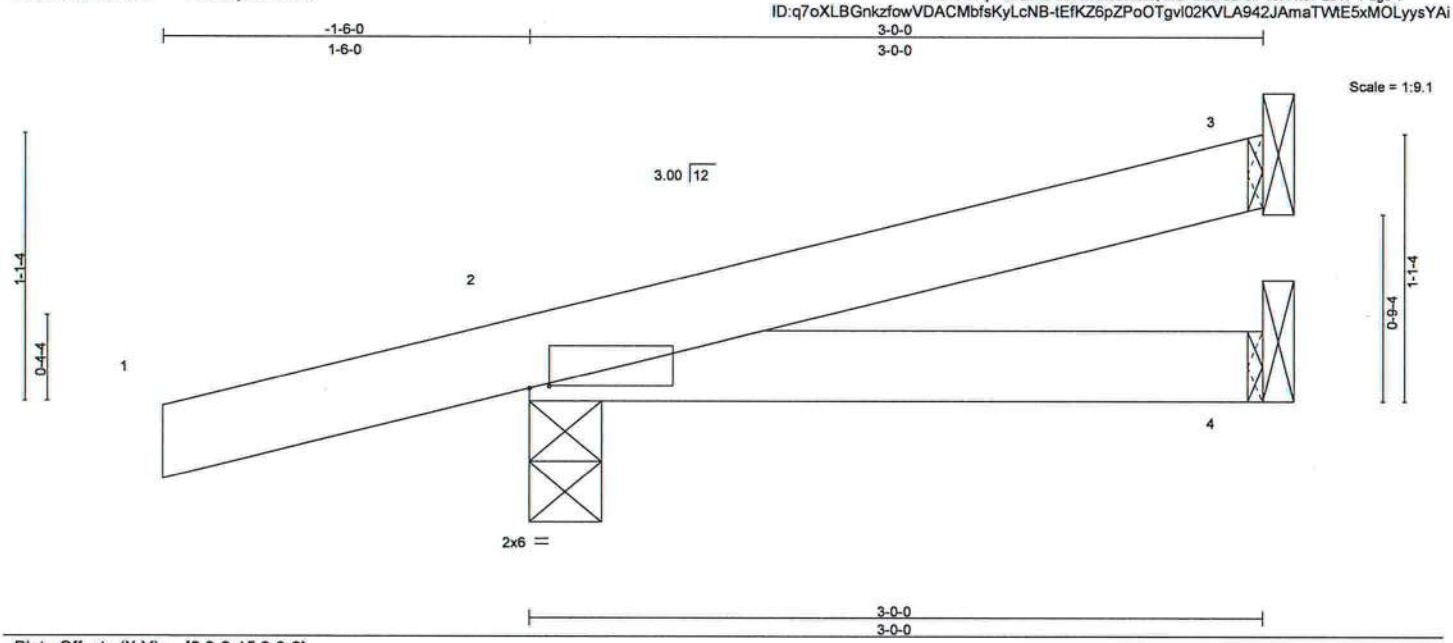


Plate Offsets (X,Y)– [2:0-0-15,0-0-2]

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	0.16	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.09	Vert(TL)	-0.01	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 11 lb	FT = 20%

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

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

REACTIONS. (lb/size) 3=56/Mechanical, 2=213/0-3-8, 4=30/Mechanical
Max Horz 2=66(LC 8)
Max Uplift 3=-49(LC 8), 2=-208(LC 8), 4=-27(LC 8)
Max Grav 3=56(LC 1), 2=213(LC 1), 4=44(LC 3)

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

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) 3, 4 except (jt=lb) 2=208.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

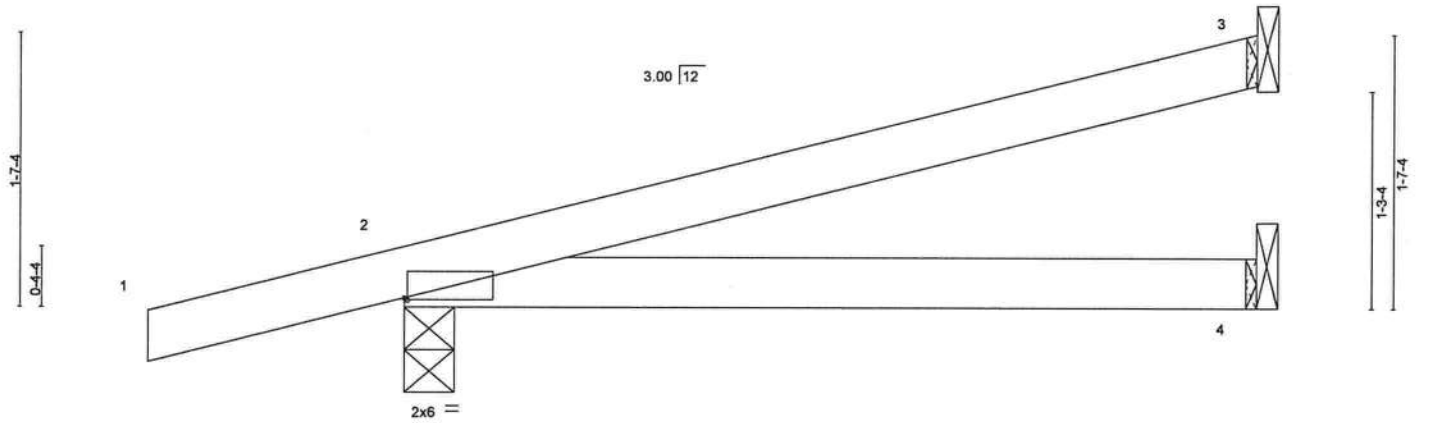
Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722474
1120836	CJ03	Jack-Open	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:38 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-LQDimSqBA6WKI3KCc20aiMcBuZ3ICz7OKb5xtOysYAh

-1-6-0 / 1-6-0 — 5-0-0 / 5-0-0

Scale = 1:13.0



5-0-0 / 5-0-0

Plate Offsets (X,Y)— [2:0-0-3,0-0-2]

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	0.30	Vert(LL)	0.06	4-7	>949	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.29	Vert(TL)	-0.05	4-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 18 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=102/Mechanical, 2=294/0-3-8, 4=50/Mechanical
Max Horz 2=93(LC 8)
Max Uplift 3=-91(LC 8), 2=-274(LC 8), 4=-47(LC 8)
Max Grav 3=102(LC 1), 2=294(LC 1), 4=77(LC 3)

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

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) 3, 4 except (jt=lb) 2=274.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722475
1120836	EJ01	Jack-Partial	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

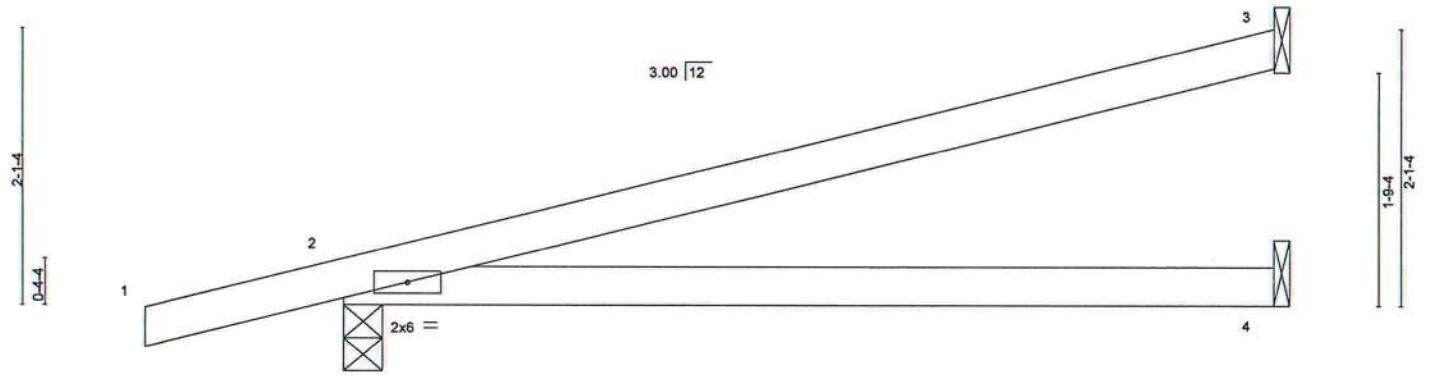
7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:38 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-LQDimSqBA6WKl3KCc20aiMc6YZ?QCz7OKb5xtOysYAh

-1-6-0 7-0-0

1-6-0 7-0-0

Scale = 1:16.8



7-0-0

7-0-0

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	0.64	Vert(LL)	0.22	4-7	>374	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.56	Vert(TL)	0.18	4-7	>463	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 24 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=144/Mechanical, 2=383/0-3-8, 4=67/Mechanical
Max Horz 2=119(LC 8)
Max Uplift 3=-130(LC 8), 2=-347(LC 8), 4=-64(LC 8)
Max Grav 3=144(LC 1), 2=383(LC 1), 4=108(LC 3)

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

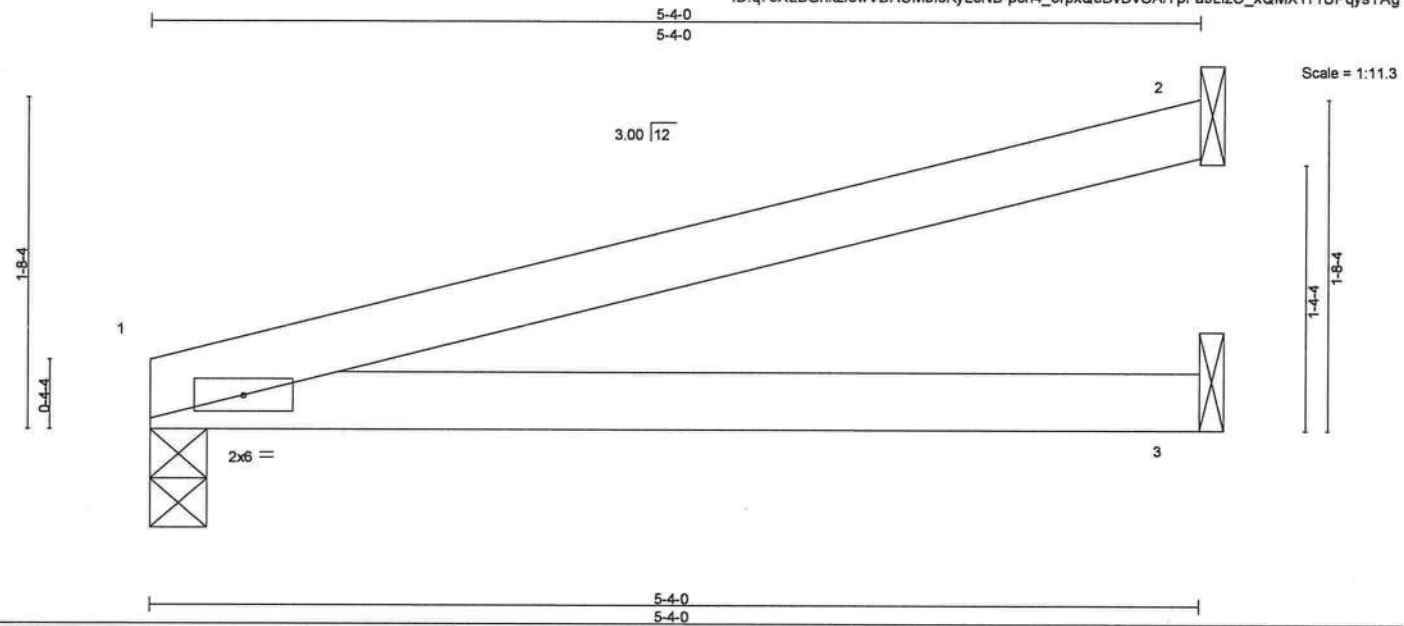
NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) 4 except (jt=lb) 3=130 , 2=347.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722476
1120836	EJ02	Jack-Open	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:39 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-pcn4_orpxQeBvDvOAlYpFa9LizO_xQMXYFrUPqysYAg



5-4-0
5-4-0

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	0.36	Vert(LL)	0.09	3-6	>723	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(TL)	0.07	3-6	>892	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	-0.01	1	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 16 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=221/0-3-8, 2=112/Mechanical, 3=57/Mechanical
Max Horz 1=70(LC 12)
Max Uplift 1=-184(LC 8), 2=-101(LC 8), 3=-54(LC 8)
Max Grav 1=221(LC 1), 2=112(LC 1), 3=83(LC 3)

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

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) 3 except (jt=lb) 1=184 , 2=101.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722477
1120836	EJ03	Jack-Open Girder	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:39 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-pcn4_orpxQeBvDvOAlYpFa9ltzGYxQMXYFrUPqysYAg

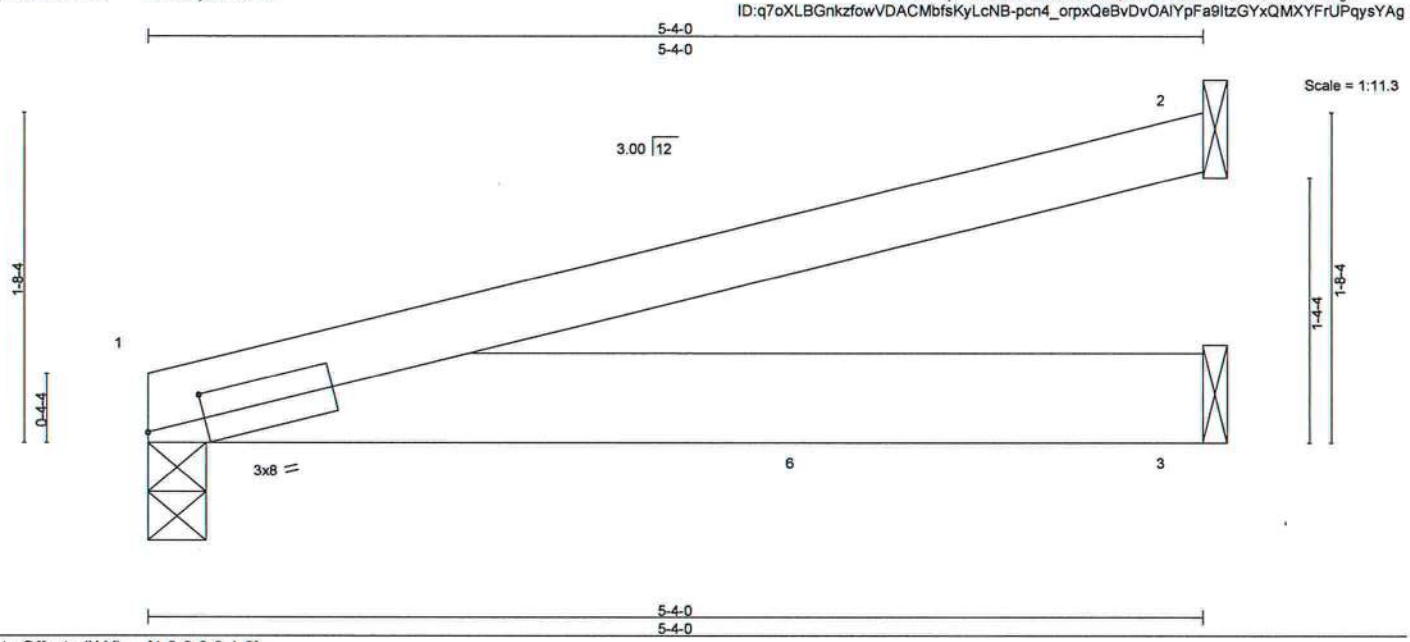


Plate Offsets (X,Y)— [1:0-3-8,0-1-8]

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	0.54	Vert(LL)	0.15	3-5	>429	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.89	Vert(TL)	-0.17	3-5	>364	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.00	3	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 21 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-4-2 oc bracing.

REACTIONS. (lb/size) 1=652/0-3-8, 2=149/Mechanical, 3=461/Mechanical
Max Horz 1=71(LC 4)
Max Uplift 1=-537(LC 4), 2=-130(LC 4), 3=-390(LC 4)

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

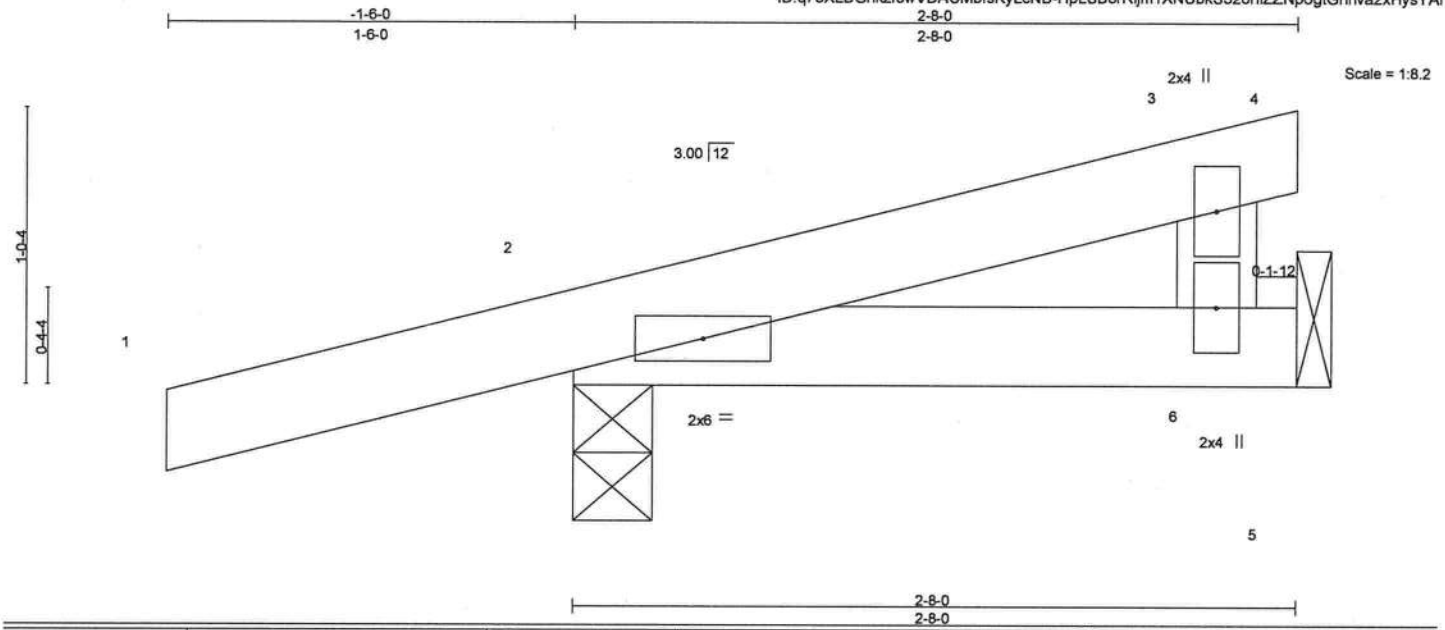
NOTES- (9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss has been designed for a 10.0 psf bottom chord live 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) except (jt=lb) 1=537, 2=130, 3=390.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 436 lb down and 398 lb up at 1-4-12, and 436 lb down and 398 lb up at 3-4-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-2=-54, 1-3=-20
Concentrated Loads (lb)
Vert: 5=-436(B) 6=-436(B)

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722478
1120836	EJ04	JACK	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:40 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-HpLSB8rRijm1XNUbkS32oniZZNp6gtGhnva2xHysYAf



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	0.16	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(TL)	-0.00	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=193/0-3-8, 6=74/Mechanical
Max Horz 2=62(LC 8)
Max Uplift 2=-159(LC 8), 6=-46(LC 12)

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

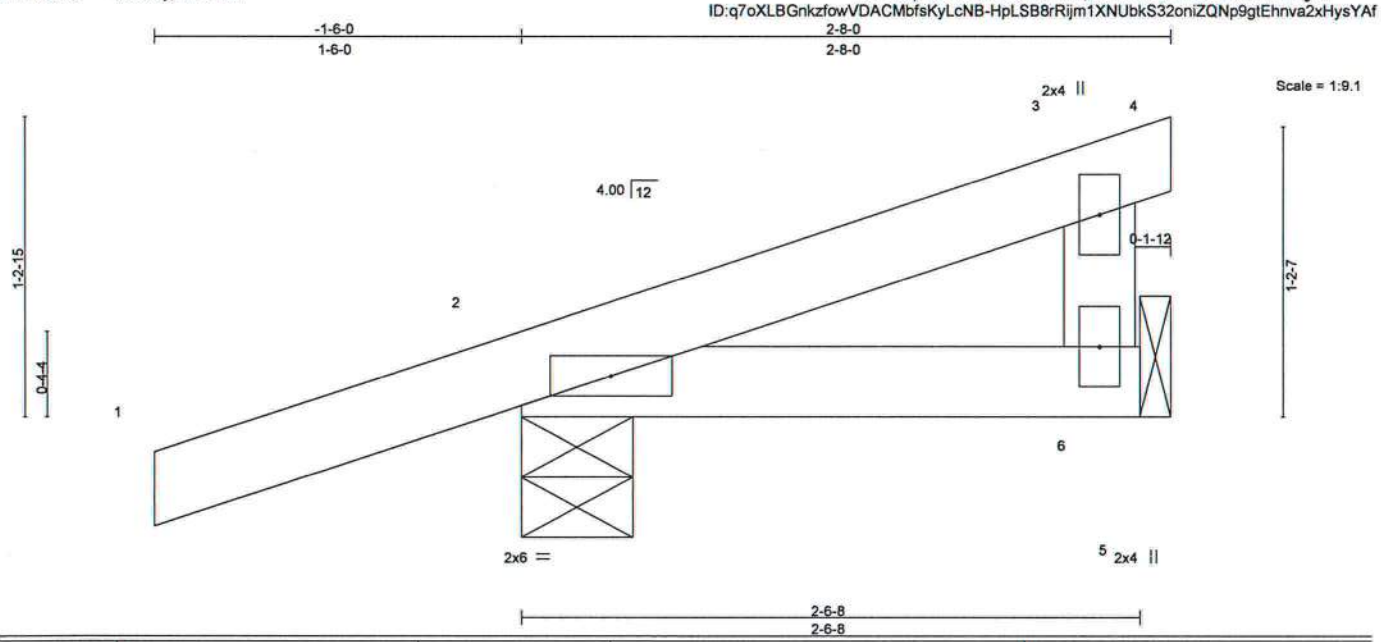
NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) This truss 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) 6 except (jt=lb) 2=159.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722479
1120836	EJ05	Monopitch	6	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:40 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-HpLSB8rRijm1XNUbkS32oniZQNp9gtEhnva2xHysYAf



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	0.17	Vert(LL)	-0.00	9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.03	Vert(TL)	-0.00	9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=193/0-5-8, 6=71/Mechanical
Max Horz 2=82(LC 8)
Max Uplift 2=-155(LC 8), 6=-50(LC 12)

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

NOTES- (7)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;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) 6 except (jt=lb) 2=155.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	PAPKA RES. T11722480
1120836	F01	Floor	3	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:41 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-l?vqPUs4T1uu9X3nHAaHK?EYan_pPCSq0ZKbUjysYAe

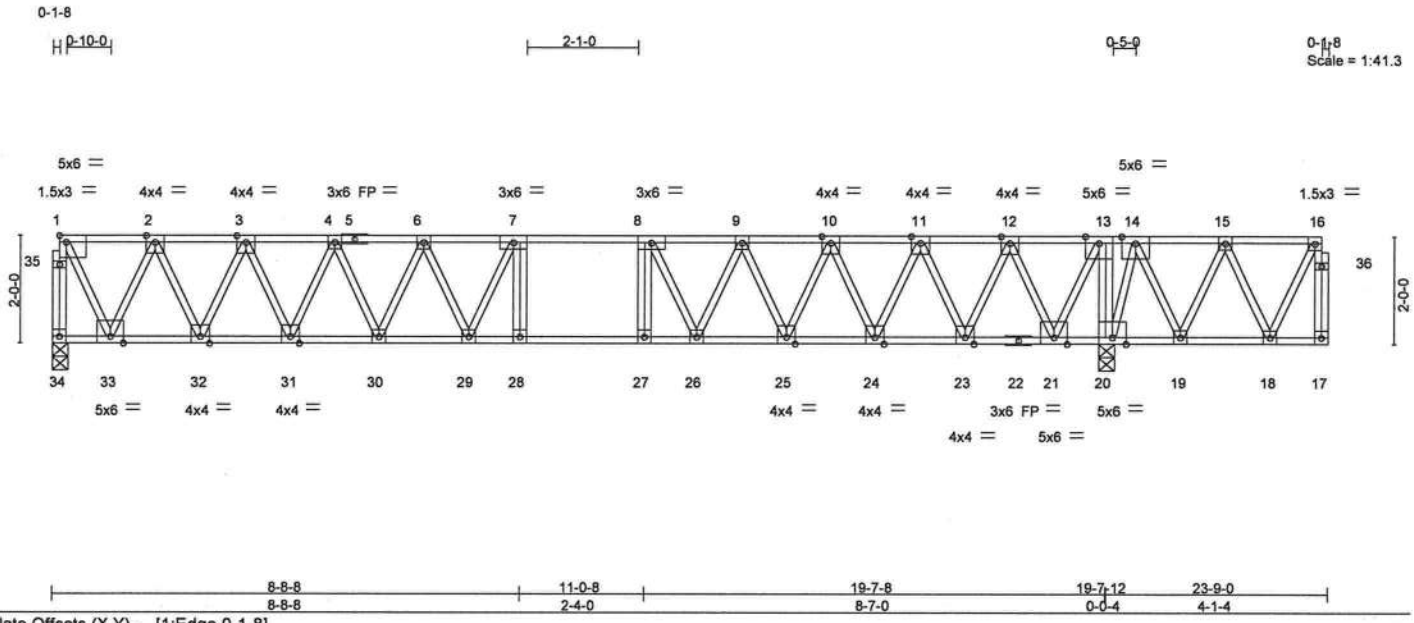


Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.84	Vert(LL)	-0.17	28-29	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(TL)	-0.25	28-29	>929	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.54	Horz(TL)	0.05	20	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix)							Weight: 168 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 34=1014/0-3-8, 20=1637/0-3-8
Max Grav 34=1052(LC 3), 20=1637(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 34-35=-1046/0, 1-35=-1046/0, 1-2=-501/0, 2-3=-1274/0, 3-4=-1873/0, 4-5=-2312/0, 5-6=-2312/0, 6-7=-2589/0, 7-8=-2693/0, 8-9=-2557/0, 9-10=-2255/0, 10-11=-1791/0, 11-12=-1165/112, 12-13=-370/371, 13-14=0/529
BOT CHORD 32-33=0/930, 31-32=0/1609, 30-31=0/2130, 29-30=0/2488, 28-29=0/2693, 27-28=0/2693, 26-27=0/2693, 25-26=0/2440, 24-25=0/2061, 23-24=0/1514, 22-23=-234/807, 21-22=-234/807, 20-21=-529/0, 19-20=-390/0
WEBS 13-20=-1144/0, 1-33=0/1082, 13-21=0/1131, 2-33=-1057/0, 12-21=-1116/0, 2-32=0/846, 12-23=0/924, 3-32=-825/0, 11-23=-900/0, 3-31=0/651, 11-24=0/722, 4-31=-633/0, 10-24=-708/0, 4-30=0/449, 10-25=0/517, 6-30=-431/0, 9-25=-490/0, 6-29=0/377, 9-26=0/463, 7-29=-540/246, 8-26=-704/82, 7-28=-307/241, 8-27=-203/344, 15-19=-373/0, 14-19=0/379, 14-20=-502/0

NOTES- (7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 17-34=-10, 1-13=-100, 13-16=-120(F=-20)

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722481
1120836	F02	Floor	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:42 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-DBSDcptiEL0lmhezrt5WtCnnyBM48fyzED3909ysYAd

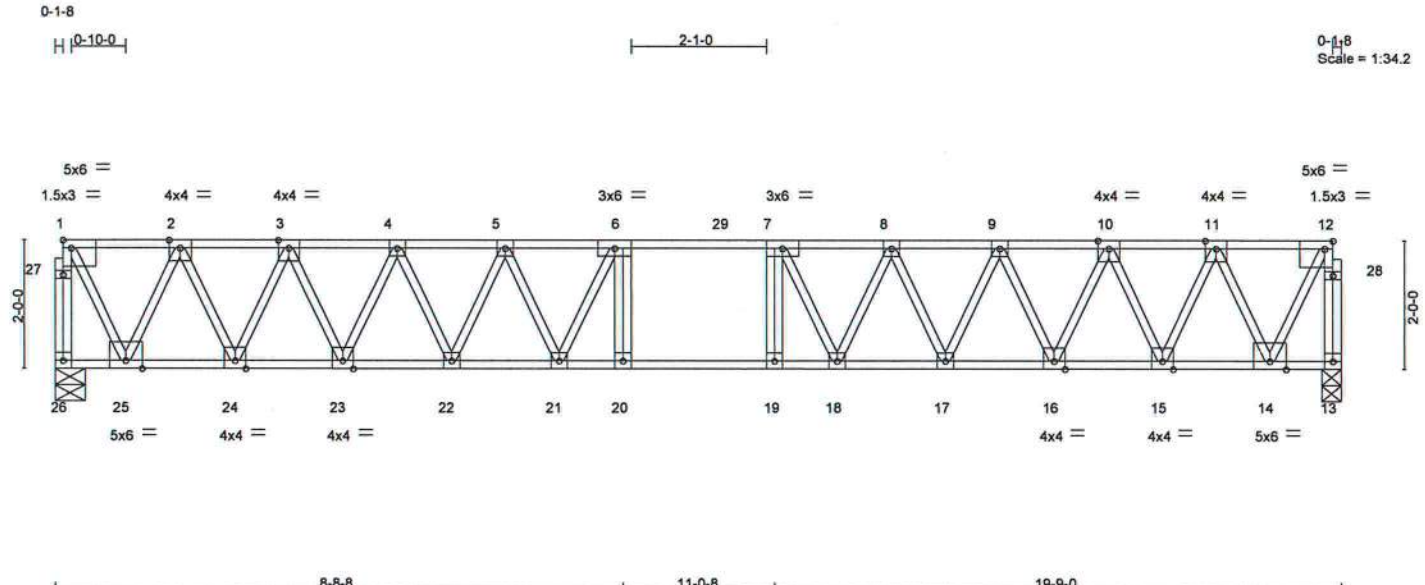


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.61	Vert(LL)	-0.16	20-21	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(TL)	-0.24	20-21	>964	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(TL)	0.05	13	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix)							Weight: 136 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 26=1066/0-5-8, 13=1066/0-3-8

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

TOP CHORD 26-27=-1060/0, 1-27=-1060/0, 13-28=-1060/0, 12-28=-1060/0, 1-2=-508/0, 2-3=-1294/0, 3-4=-1906/0, 4-5=-2358/0, 5-6=-2647/0, 6-29=-2767/0, 7-29=-2767/0, 7-8=-2647/0, 8-9=-2358/0, 9-10=-1906/0, 10-11=-1294/0, 11-12=-508/0

BOT CHORD 24-25=0/944, 23-24=0/1635, 22-23=0/2169, 21-22=0/2538, 20-21=0/2767, 19-20=0/2767, 18-19=0/2767, 17-18=0/2538, 16-17=0/2169, 15-16=0/1635, 14-15=0/944

WEBS 1-25=0/1097, 12-14=0/1097, 2-25=-1072/0, 11-14=-1072/0, 2-24=0/861, 11-15=0/861, 3-24=-840/0, 10-15=-840/0, 3-23=0/667, 10-16=0/667, 4-23=-649/0, 9-16=-649/0, 4-22=0/463, 9-17=0/463, 5-22=-444/0, 8-17=-444/0, 5-21=0/396, 8-18=0/396, 6-21=-576/117, 7-18=-576/117, 6-20=-226/263, 7-19=-226/263

NOTES- (5)

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722482
1120836	F03	Floor	8	1	Job Reference (optional)	

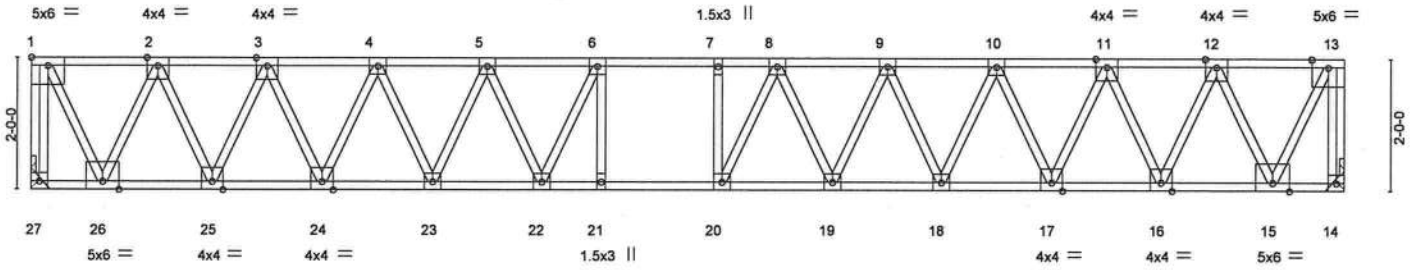
Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:43 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-iO0bq9uK?e8cOqD9PbclPQKzhajxt6?7TtpiYcysYAc

0-10-0 1-7-12

Scale = 1:33.6



19-10-12

19-10-12

Plate Offsets (X,Y)-- [1:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.15	20	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(TL)	-0.24	20	>977	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.54	Horz(TL)	0.05	14	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix)							Weight: 135 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 27=1081/Mechanical, 14=1081/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-27=-1074/0, 13-14=-1074/0, 1-2=-512/0, 2-3=-1305/0, 3-4=-1924/0, 4-5=-2383/0, 5-6=-2679/0, 6-7=-2811/0, 7-8=-2811/0, 8-9=-2681/0, 9-10=-2383/0, 10-11=-1924/0, 11-12=-1305/0, 12-13=-512/0
BOT CHORD 25-26=0/953, 24-25=0/1649, 23-24=0/2192, 22-23=0/2565, 21-22=0/2811, 20-21=0/2811, 19-20=0/2777, 18-19=0/2570, 17-18=0/2191, 16-17=0/1650, 15-16=0/952
WEBS 13-15=0/1125, 1-26=0/1125, 12-15=-1085/0, 2-26=-1085/0, 12-16=0/868, 2-25=0/868, 11-16=-848/0, 3-25=-847/0, 11-17=0/675, 3-24=0/676, 10-17=-657/0, 4-24=-660/0, 10-18=0/473, 4-23=0/471, 9-18=-460/0, 5-23=-448/0, 9-19=0/292, 5-22=0/404, 8-19=-339/0, 6-22=-566/83, 8-20=-230/426, 6-21=-166/264

NOTES- (6)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722483
1120836	F04	Floor	5	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:44 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-Aaaz1VvymyGT0_oMzI7_ydsAm_?_cbFGiXYF42ysYAb

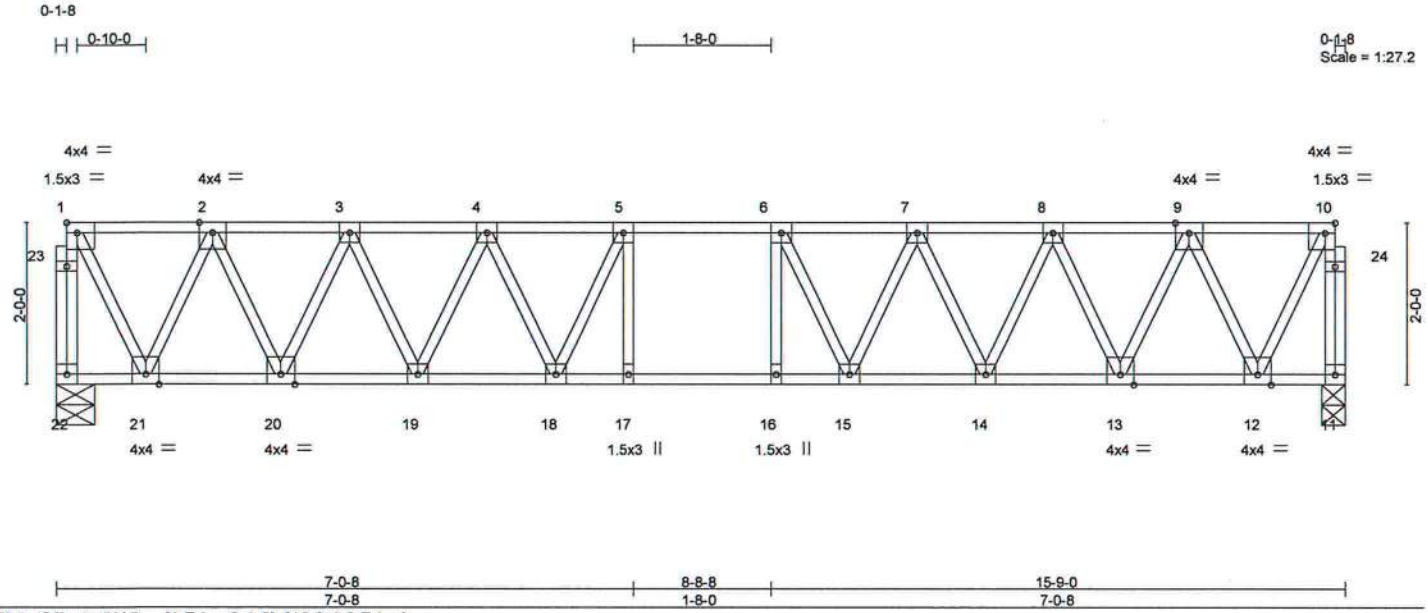


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.40	Vert(LL)	-0.08	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(TL)	-0.12	17-18	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(TL)	0.03	11	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix)							Weight: 108 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 22=846/0-5-8, 11=846/0-3-8

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

TOP CHORD 22-23=-842/0, 1-23=-841/0, 11-24=-842/0, 10-24=-841/0, 1-2=-397/0, 2-3=-986/0, 3-4=-1403/0, 4-5=-1659/0, 5-6=-1750/0, 6-7=-1659/0, 7-8=-1403/0, 8-9=-986/0, 9-10=-397/0

BOT CHORD 20-21=0/734, 19-20=0/1230, 18-19=0/1569, 17-18=0/1750, 16-17=0/1750, 15-16=0/1750, 14-15=0/1569, 13-14=0/1230, 12-13=0/734

WEBS 1-21=0/855, 10-12=0/855, 2-21=-831/0, 9-12=-831/0, 2-20=0/620, 9-13=0/620, 3-20=-600/0, 8-13=-600/0, 3-19=0/427, 8-14=0/427, 4-19=-408/0, 7-14=-408/0, 4-18=0/316, 7-15=0/316, 5-18=-412/56, 6-15=-412/56

NOTES- (5)

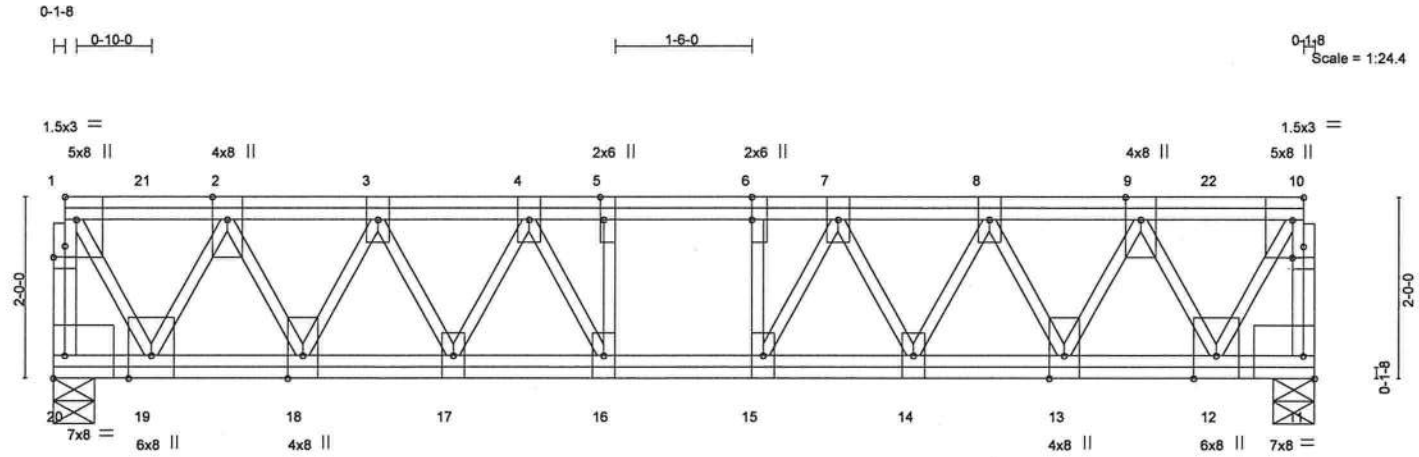
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722484
1120836	F05	Floor	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:45 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-em8LErvaXGOKd8NYW0eDVrPMnORVLyyQxAlpdUysYAa



1-1-0	6-2-8	7-8-8	13-11-0
1-1-0	5-1-8	1-6-0	6-2-8

Plate Offsets (X,Y)— [1:Edge,0-1-8], [1:0-1-8,0-1-8], [5:0-3-0,Edge], [6:0-3-0,Edge], [10:0-1-8,0-1-8], [10:0-3-0,Edge], [11:Edge,0-3-0], [20:Edge,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.38	Vert(LL)	-0.09	15-16	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.34	Vert(TL)	-0.14	15-16	>999	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.83	Horz(TL)	0.03	11	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix)							Weight: 131 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP M 31(flat)
WEBS 2x4 SP No.3(flat) *Except*
10-12,1-19: 2x4 SP No.2(flat)

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 20=2460/0-5-8, 11=2460/0-5-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-2417/0, 10-11=-2417/0, 1-21=-1207/0, 2-21=-1204/0, 2-3=-2954/0, 3-4=-4094/0, 4-5=-4738/0, 5-6=-4738/0, 6-7=-4738/0, 7-8=-4094/0, 8-9=-2954/0, 9-22=-1204/0, 10-22=-1207/0
BOT CHORD 18-19=0/2220, 17-18=0/3644, 16-17=0/4504, 15-16=0/4738, 14-15=0/4504, 13-14=0/3644, 12-13=0/2220
WEBS 10-12=0/2485, 1-19=0/2485, 9-12=-2362/0, 2-19=-2362/0, 9-13=0/1707, 2-18=0/1735, 8-13=-1604/0, 3-18=-1633/0, 8-14=0/1047, 3-17=0/1050, 7-14=-965/0, 4-17=-965/0, 7-15=-161/1092, 4-16=-161/1092, 5-16=-638/0, 6-15=-638/0

NOTES- (6)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x6 MT20 unless otherwise indicated.
3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 11-20=-50(F=-40), 1-10=-310

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	
1120836	F06	Floor	5	1	Job Reference (optional)	T11722485

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:45 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-em8LErvaXGOKd8NYW0eDVrPM3OPIL3KQxAlpdUysYAa

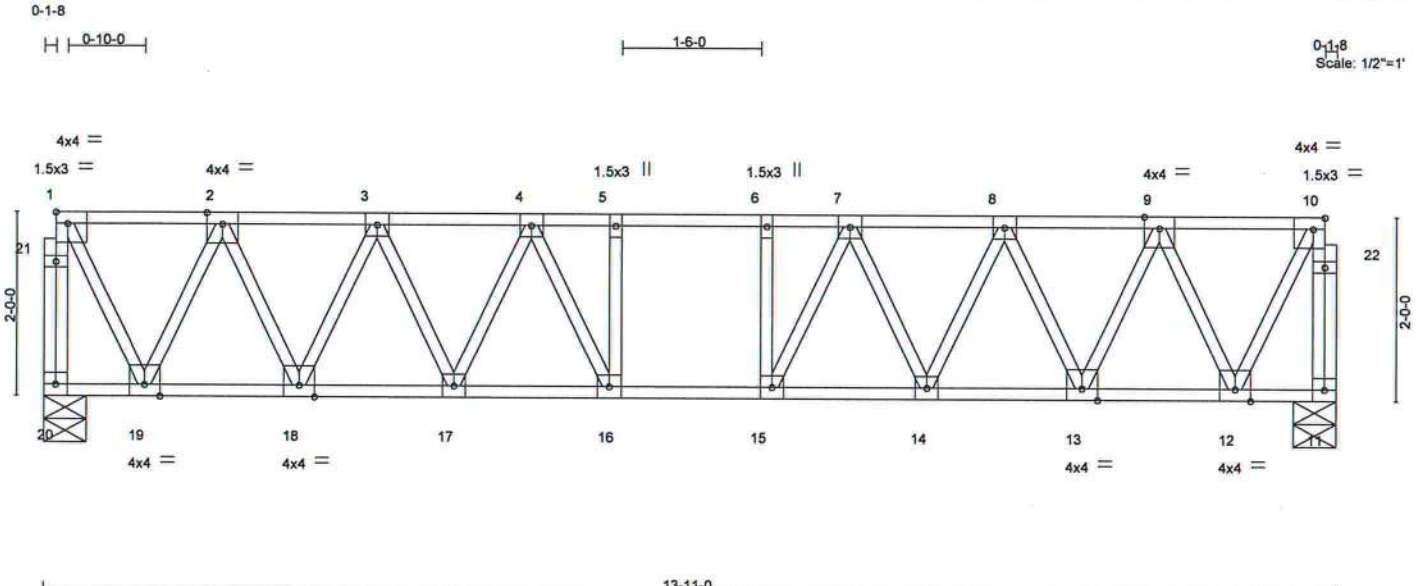


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [10:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.36	Vert(LL)	-0.06	16-17	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.48	Vert(TL)	-0.08	16-17	>999	240		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(TL)	0.02	11	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix)							Weight: 96 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD 2x4 SP No.2(flat)
BOT CHORD 2x4 SP No.2(flat)
WEBS 2x4 SP No.3(flat)

BRACING-

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

REACTIONS. (lb/size) 20=745/0-5-8, 11=745/0-5-8

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

TOP CHORD 20-21=-741/0, 1-21=-741/0, 11-22=-741/0, 10-22=-741/0, 1-2=-345/0, 2-3=-845/0, 3-4=-1171/0, 4-5=-1358/0, 5-6=-1358/0, 6-7=-1358/0, 7-8=-1171/0, 8-9=-845/0, 9-10=-345/0

BOT CHORD 18-19=0/638, 17-18=0/1045, 16-17=0/1290, 15-16=0/1358, 14-15=0/1290, 13-14=0/1045, 12-13=0/638

WEBS 10-12=0/743, 1-19=0/743, 9-12=-720/0, 2-19=-720/0, 9-13=0/511, 2-18=0/511, 8-13=-492/0, 3-18=-492/0, 8-14=0/310, 3-17=0/310, 7-14=-291/0, 4-17=-291/0, 7-15=-61/355, 4-16=-61/355

NOTES- (5)

1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x3 MT20 unless otherwise indicated.
3) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

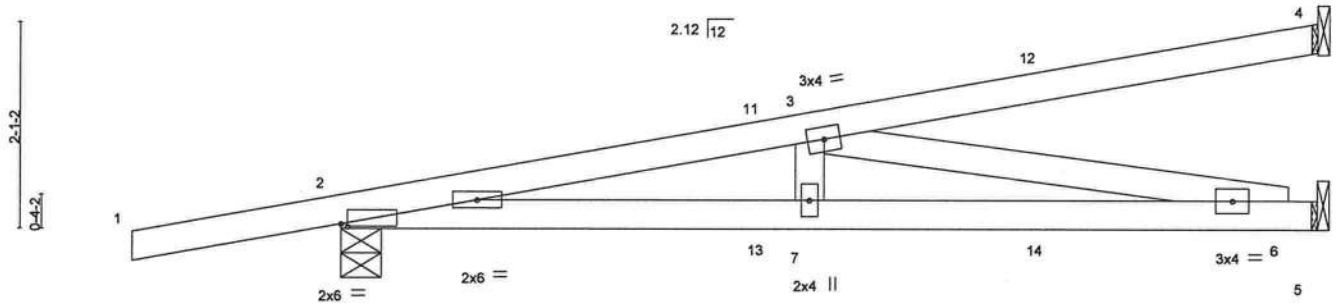
Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722486
1120836	HJ01	Diagonal Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:46 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-6yijSBwCIZWBFIxk4jAT12xURojK4SbZ9q1M9wysYAZ

-2-1-7 / 2-1-7 | 4-9-0 / 4-9-0 | 9-10-13 / 5-1-13

Scale = 1:22.5



4-9-0 / 4-9-0 | 9-10-1 / 5-1-1 | 9-10-13 / 0-0-12

Plate Offsets (X,Y)-- [2:0-0-13,0-0-5]

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	0.52	Vert(LL)	0.15	6-7	>783	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.63	Vert(TL)	-0.17	6-7	>696	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.61	Horz(TL)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 41 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-15 oc purlins.
BOT CHORD Rigid ceiling directly applied or 5-3-9 oc bracing.

REACTIONS. (lb/size) 4=142/Mechanical, 2=519/0-4-15, 5=273/Mechanical
Max Horz 2=120(LC 22)
Max Uplift 4=-128(LC 8), 2=-492(LC 4), 5=-252(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-11=-1214/1024, 3-11=-1185/1025
BOT CHORD 2-13=-1074/1183, 7-13=-1074/1183, 7-14=-1074/1183, 6-14=-1074/1183
WEBS 3-6=-1203/1091

NOTES- (9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; 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) except (jt=lb) 4=128, 2=492, 5=252.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 26 lb down and 41 lb up at 4-3-11, 26 lb down and 41 lb up at 4-3-11, and 45 lb down and 88 lb up at 7-1-10, and 45 lb down and 88 lb up at 7-1-10 on top chord, and 70 lb down and 10 lb up at 1-5-12, 70 lb down and 10 lb up at 1-5-12, 17 lb down and 38 lb up at 4-3-11, 17 lb down and 38 lb up at 4-3-11, and 34 lb down and 62 lb up at 7-1-10, and 34 lb down and 62 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 5-8=-20
Concentrated Loads (lb)
Vert: 10=15(F=7, B=7) 12=-51(F=-25, B=-25) 13=-13(F=-6, B=-6) 14=-44(F=-22, B=-22)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722487
1120836	HJ02	Diagonal Hip Girder	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:47 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-a9G6fXxq3te2tSWxeRhiaGUdqC4Mp2LjOUnwhNysYAY

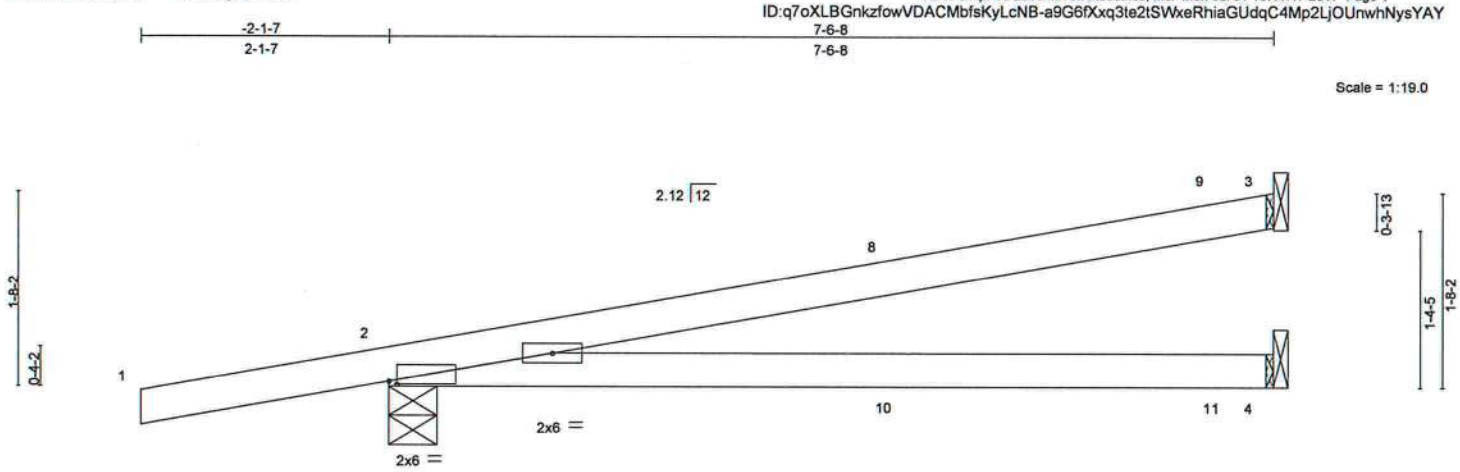


Plate Offsets (X,Y)-- [2:0-0-13,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.67	Vert(LL)	0.22	4-7	>414	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(TL)	-0.25	4-7	>353	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.01	2	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 26 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-6-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=254/Mechanical, 2=445/0-4-15, 4=140/Mechanical
Max Horz 2=97(LC 22)
Max Uplift 3=-232(LC 4), 2=-427(LC 4), 4=-132(LC 8)
Max Grav 3=254(LC 1), 2=445(LC 1), 4=193(LC 3)

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

NOTES- (9)
1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; 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) except (jt=lb) 3=232, 2=427, 4=132.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 26 lb down and 41 lb up at 4-3-11, 26 lb down and 41 lb up at 4-3-11, and 54 lb down and 92 lb up at 7-1-10, and 54 lb down and 92 lb up at 7-1-10 on top chord, and 70 lb down and 10 lb up at 1-5-12, 70 lb down and 10 lb up at 1-5-12, 17 lb down and 38 lb up at 4-3-11, 17 lb down and 38 lb up at 4-3-11, and 42 lb down and 62 lb up at 7-1-10, and 42 lb down and 62 lb up at 7-1-10 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 4-5=-20
Concentrated Loads (lb)
Vert: 7=15(F=7, B=7) 9=-108(F=-54, B=-54) 10=-13(F=-6, B=-6) 11=-65(F=-33, B=-33)

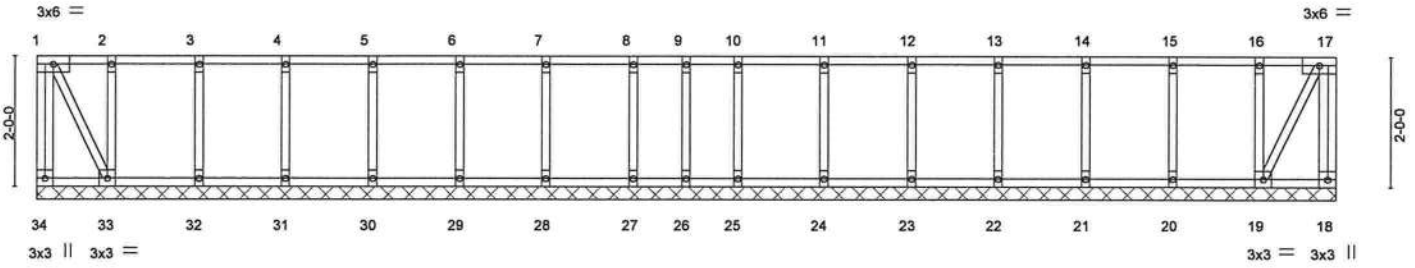
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES. T11722488
1120836	KW3	GABLE	1	1	Job Reference (optional)

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:47 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-a9G6fXxq3te2tSWxeRhiaGUm0CBCp2rjOUnwhNysYAY

Scale = 1:34.0



1-1-12	2-5-12	3-9-12	5-1-12	6-5-12	7-9-12	9-1-12	9-11-6	10-9-0	12-1-0	13-5-0	14-9-0	16-1-0	17-5-0	18-9-0	19-10-12
1-1-12	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-9-10	0-9-10	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-1-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	-0.00	18	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix)							Weight: 114 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 10-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing, Except: 10-0-0 oc bracing: 33-34,18-19.

REACTIONS. All bearings 19-10-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 19, 26, 20, 21, 22, 23, 24, 25, 32, 31, 30, 29, 28, 27

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

NOTES- (7)
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

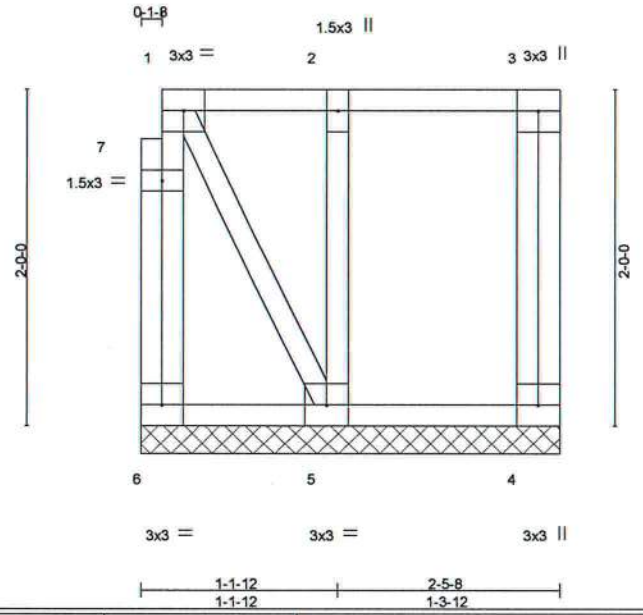
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722489
1120836	KW4	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:48 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-2LqUttyTpBmvUc57C8Cx6T1xubXRYV5sd8WTDpysYAX



LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(TL)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(TL)	0.00	4	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix)							Weight: 23 lb	FT = 20%F, 11%E

LUMBER-

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-5-8 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=35/2-5-8, 4=52/2-5-8, 5=150/2-5-8

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

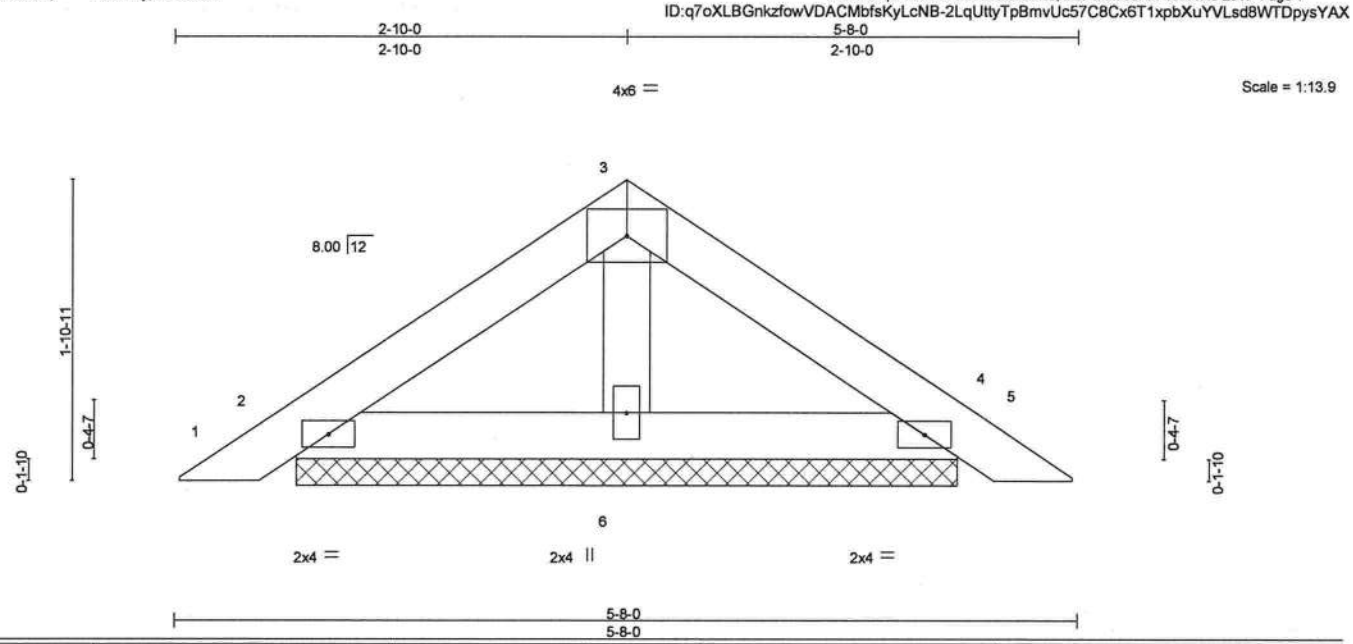
NOTES- (7)

1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) CAUTION, Do not erect truss backwards.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722490
1120836	PB01	PIGGYBACK	15	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:48 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-2LqUttyTpBmvUc57C8Cx6T1xpbXuYVLsd8WTDpysYAX



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	0.08	Vert(LL)	0.00	5	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.04	Vert(TL)	0.00	5	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.02	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 18 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=111/4-1-12, 4=111/4-1-12, 6=137/4-1-12
Max Horz 2=58(LC 11)
Max Uplift 2=-67(LC 12), 4=-75(LC 13), 6=-29(LC 12)
Max Grav 2=111(LC 1), 4=111(LC 20), 6=137(LC 1)

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

NOTES- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Gable requires continuous bottom chord bearing.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 2, 75 lb uplift at joint 4 and 29 lb uplift at joint 6.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	
1120836	PB01G	GABLE	2	1	Job Reference (optional)	T11722491

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:49 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-WXOs4Dy5aUum6lgJlrjAfhZ74?s1Hyr?roG0mFysYAW

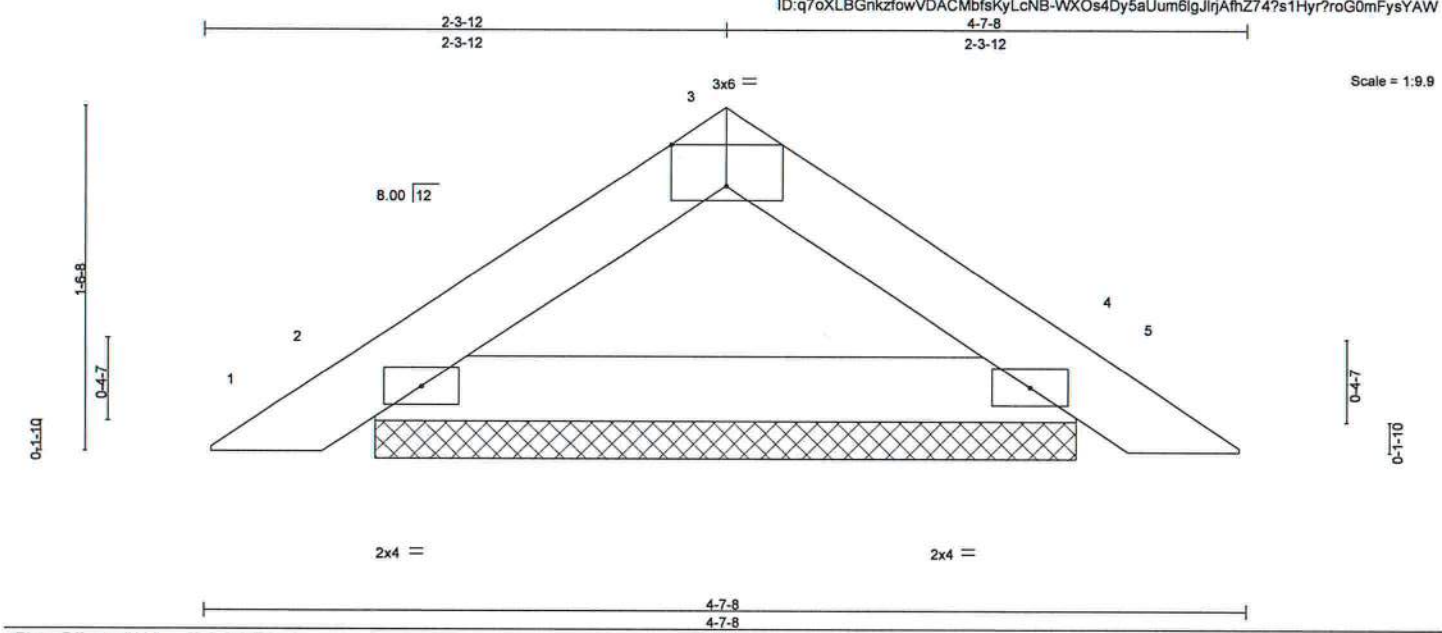


Plate Offsets (X,Y)-- [3:0-3-0,Edge]

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	0.04	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.11	Vert(TL)	0.00	4	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 13 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-7-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=141/3-1-4, 4=141/3-1-4
Max Horz 2=-46(LC 10)
Max Uplift 2=-66(LC 12), 4=-66(LC 13)

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

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Gable requires continuous bottom chord bearing.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 2 and 66 lb uplift at joint 4.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722492
1120836	T01	Common	8	1	Job Reference (optional)	

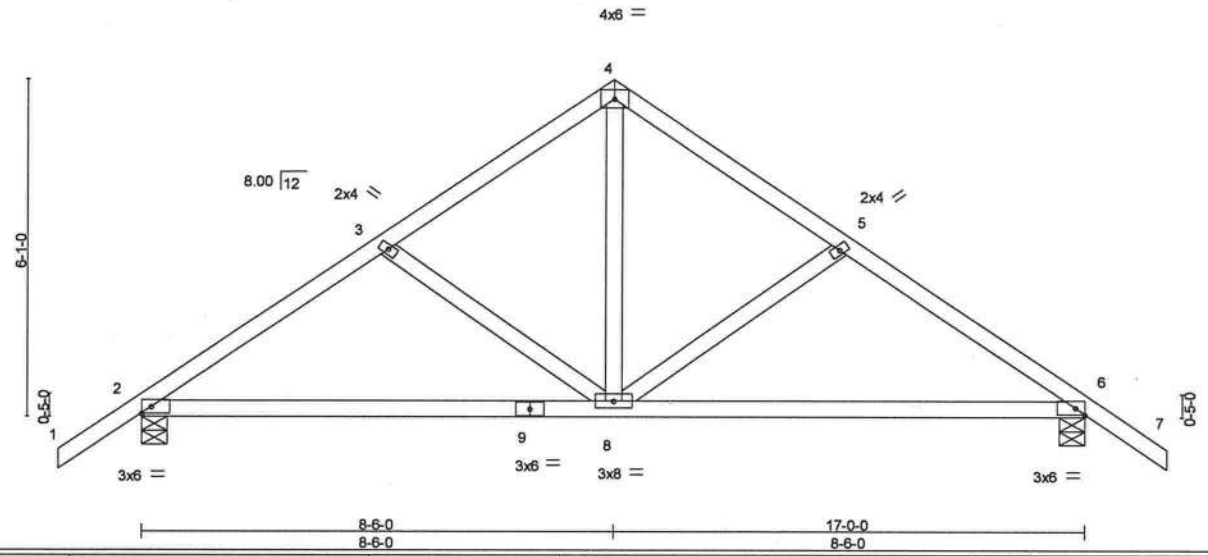
Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:50 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-_kxElYzjLo0dkvFWJZEPCu6F4P4?0NW94S?aliysYAV

-1-6-0	4-5-3	8-6-0	12-6-13	17-0-0	18-6-0
1-6-0	4-5-3	4-0-13	4-0-13	4-5-3	1-6-0

Scale = 1:39.9



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	0.22	Vert(LL)	-0.07	8-15	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.58	Vert(TL)	-0.19	8-15	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(TL)	0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 84 lb	FT = 20%

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

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. (lb/size) 2=710/0-5-8, 6=710/0-5-8
Max Horz 2=228(LC 11)
Max Uplift 2=-318(LC 12), 6=-318(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-829/435, 3-4=-685/366, 4-5=-685/366, 5-6=-829/435
BOT CHORD 2-9=-313/721, 8-9=-313/721, 6-8=-235/657
WEBS 4-8=-230/527, 5-8=-309/271, 3-8=-310/270

NOTES- (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 318 lb uplift at joint 2 and 318 lb uplift at joint 6.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722493
1120836	T01G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:51 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-TwVcVu_L668UL3qitGlek6fOWpV2lrOIJ6l7q8ysYAU

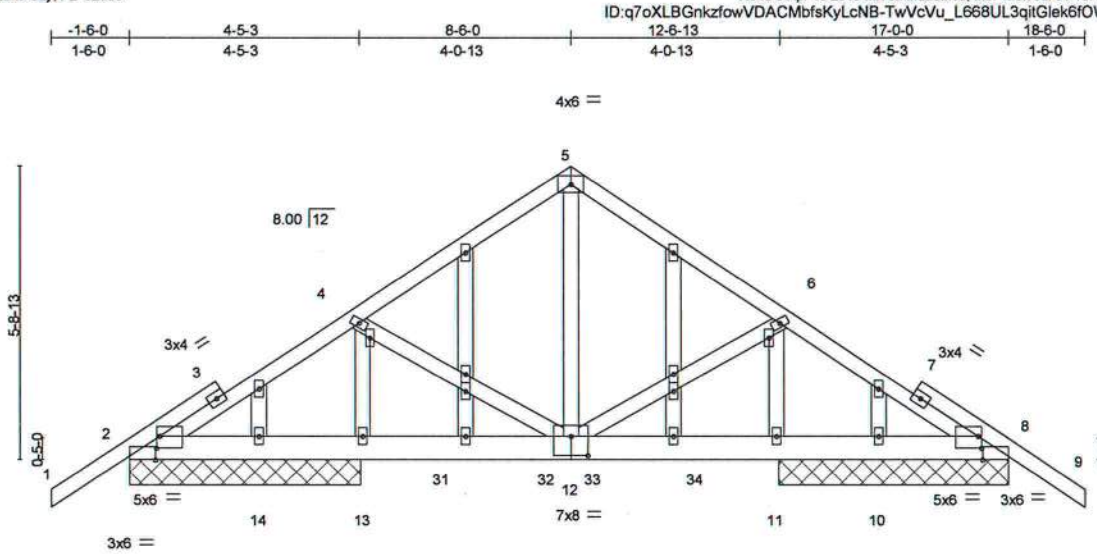


Plate Offsets (X,Y)-- [2:0-0-12,0-2-13], [2:0-1-0,Edge], [4:0-0-0,0-0-0], [6:0-0-0,0-0-0], [8:0-1-1,Edge], [8:0-0-12,0-2-13], [12:0-4-0,0-4-8]

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	0.37	Vert(LL)	0.03	12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.27	Vert(TL)	-0.04	12	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.13	Horz(TL)	0.01	8	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 121 lb	FT = 20%

LUMBER-

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

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 4-5-8.

(lb) - Max Horz 2=216(LC 7)

Max Uplift All uplift 100 lb or less at joint(s) 14, 10 except 2=-322(LC 8), 8=-327(LC 9), 13=-113(LC 8), 11=-118(LC 8)

Max Grav All reactions 250 lb or less at joint(s) 14, 10 except 2=551(LC 1), 8=551(LC 1), 13=263(LC 1), 11=263(LC 1), 2=551(LC 1), 8=551(LC 1)

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

TOP CHORD	2-3=-659/375, 3-4=-693/419, 4-5=-530/360, 5-6=-530/352, 6-7=-693/428, 7-8=-659/383
BOT CHORD	2-14=-380/618, 13-14=-380/618, 13-31=-380/618, 31-32=-380/618, 12-32=-380/618, 12-33=-260/577, 33-34=-260/577, 11-34=-260/577, 10-11=-260/577, 8-10=-260/577
WEBS	5-12=-239/301, 6-12=-269/278, 4-12=-267/276

NOTES- (12)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 10 except (jt=lb) 2=322, 8=327, 13=113, 11=118, 2=322, 8=327.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 54 lb down and 64 lb up at 6-0-12, 54 lb down and 64 lb up at 8-0-12, and 54 lb down and 64 lb up at 8-11-4, and 54 lb down and 64 lb up at 10-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

MiTek

6904 Parke East Blvd.
Tampa, FL 36610

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-5=-54, 5-9=-54, 23-27=-20
   Concentrated Loads (lb)
   Vert: 31=-54(F) 32=-54(F) 33=-54(F) 34=-54(F)

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722494
1120836	T02	Scissor	7	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:52 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-x63?iE?ztPHLzDPuR_HtHJBZaDILUEwSYmUhNaysYAT

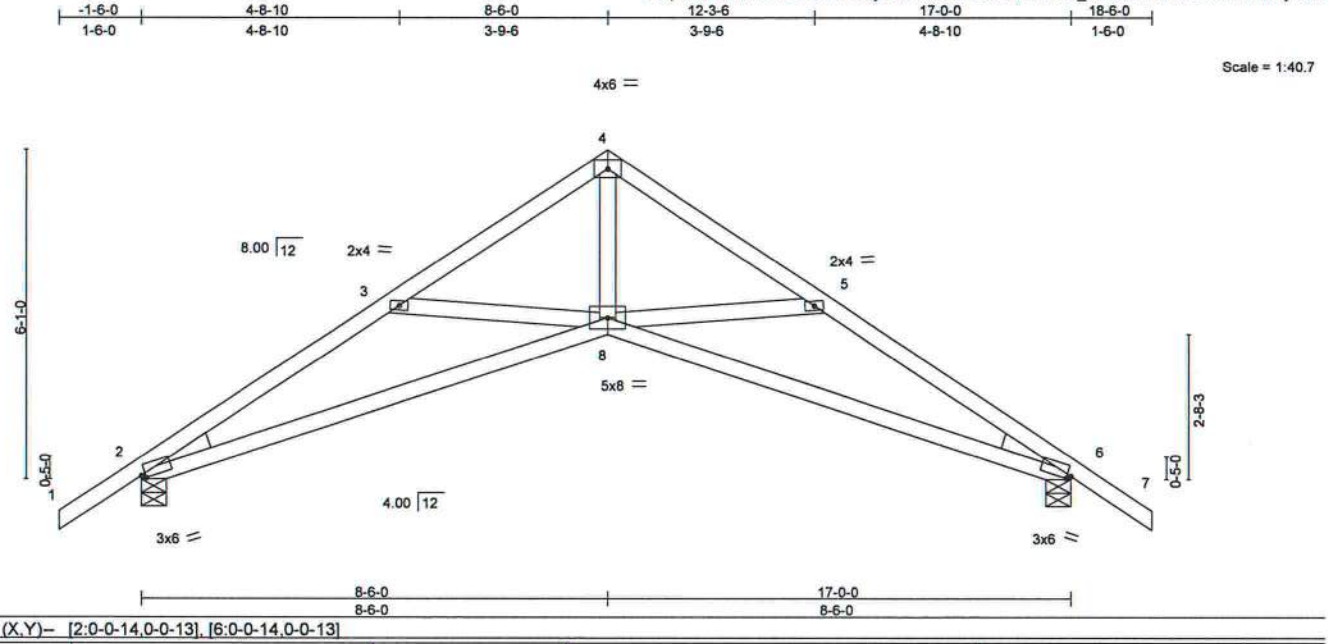


Plate Offsets (X,Y)-- [2:0-0-14,0-0-13], [6:0-0-14,0-0-13]

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)	-0.13	8-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(TL)	-0.34	8-14	>605	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.36	Horz(TL)	0.14	6	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 82 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-9 oc bracing.

REACTIONS. (lb/size) 2=710/0-5-8, 6=710/0-5-8
Max Horz 2=-228(LC 10)
Max Uplift 2=-317(LC 12), 6=-317(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1460/641, 3-4=-1120/400, 4-5=-1123/406, 5-6=-1485/641
BOT CHORD 2-8=-579/1379, 6-8=-424/1282
WEBS 4-8=-293/1014, 5-8=-426/379, 3-8=-433/365

NOTES- (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-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.
5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=317, 6=317.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722495
1120836	T03	Scissor	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:52 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-x63?iE?ztPHLzDPuR_HtHJBaPDIMUEjSYmUhNaysYAT

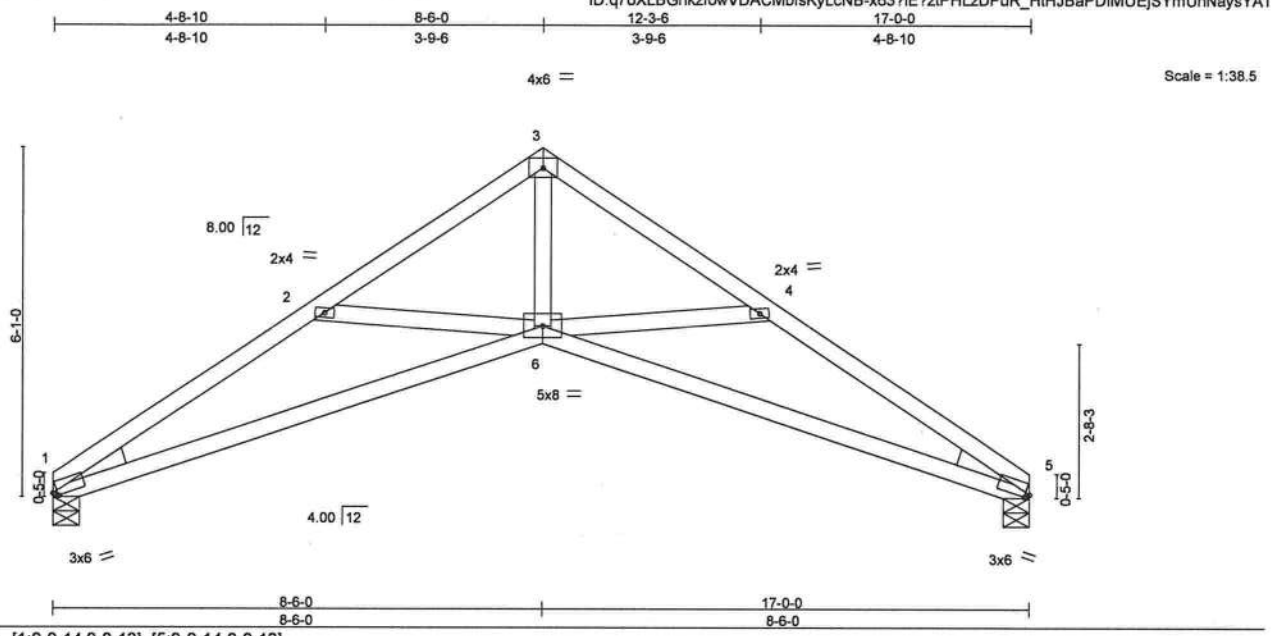


Plate Offsets (X,Y)-- [1:0-0-14,0-0-13], [5:0-0-14,0-0-13]

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)	-0.13	6-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.65	Vert(TL)	-0.34	6-12	>597	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(TL)	0.14	5	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 76 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-13 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-3-11 oc bracing.

REACTIONS. (lb/size) 1=629/0-5-8, 5=629/0-5-8
Max Horz 1=194(LC 9)
Max Uplift 1=-259(LC 12), 5=-259(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1487/727, 2-3=-1142/479, 3-4=-1142/479, 4-5=-1487/727
BOT CHORD 1-6=-653/1382, 5-6=-547/1267
WEBS 3-6=-361/986, 4-6=-419/391, 2-6=-419/378

NOTES- (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-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.
5) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=259, 5=259.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

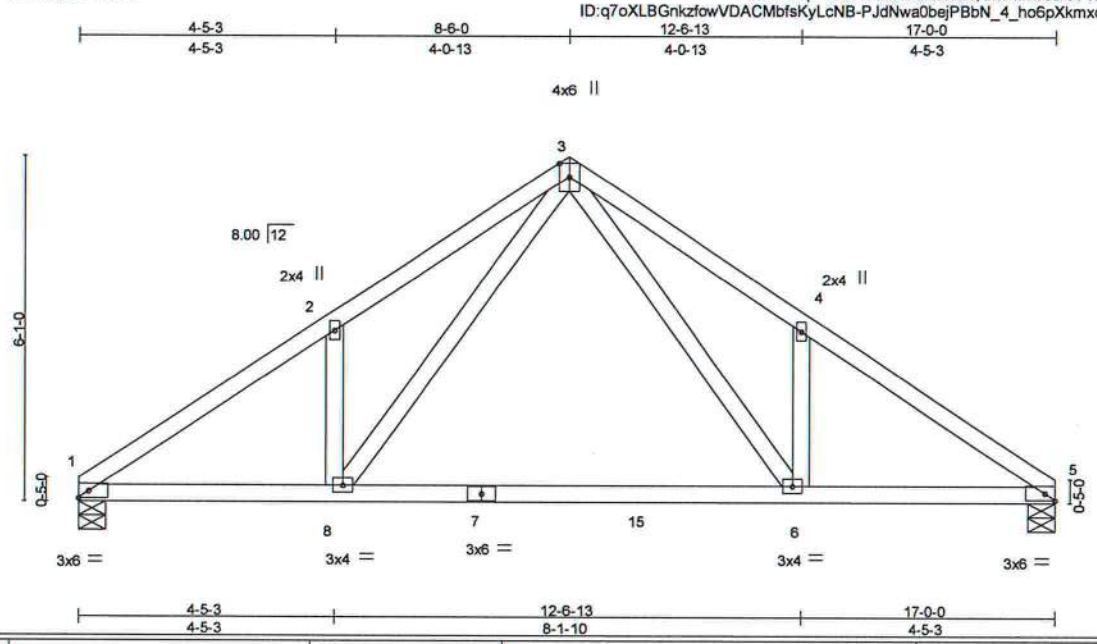
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722496
1120836	T04	Common	4	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:53 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-PJdNwa0bejPBbN_4_ho6pXkmxc7KDiwbmQEEv0ysYAS



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	0.24	Vert(LL)	-0.12	6-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.54	Vert(TL)	-0.29	6-8	>707	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(TL)	0.02	5	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 85 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-7-9 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=629/0-5-8, 5=629/0-5-8
Max Horz 1=194(LC 9)
Max Uplift 1=-262(LC 12), 5=-262(LC 13)
Max Grav 1=630(LC 19), 5=629(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-925/416, 2-3=-1046/592, 3-4=-1046/592, 4-5=-922/416
BOT CHORD 1-8=-316/850, 7-8=-124/510, 7-15=-124/510, 6-15=-124/510, 5-6=-262/717
WEBS 3-6=-334/585, 4-6=-316/309, 3-8=-334/589, 2-8=-316/309

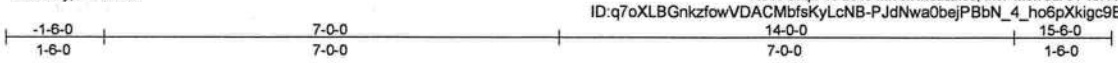
NOTES- (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for 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) except (jt=lb) 1=262, 5=262.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722497
1120836	T05	Common	12	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:53 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-PJdNwa0bejPBbN_4_ho6pXkigc9EDl4bmQEEv0ysYAS



Scale = 1:34.1

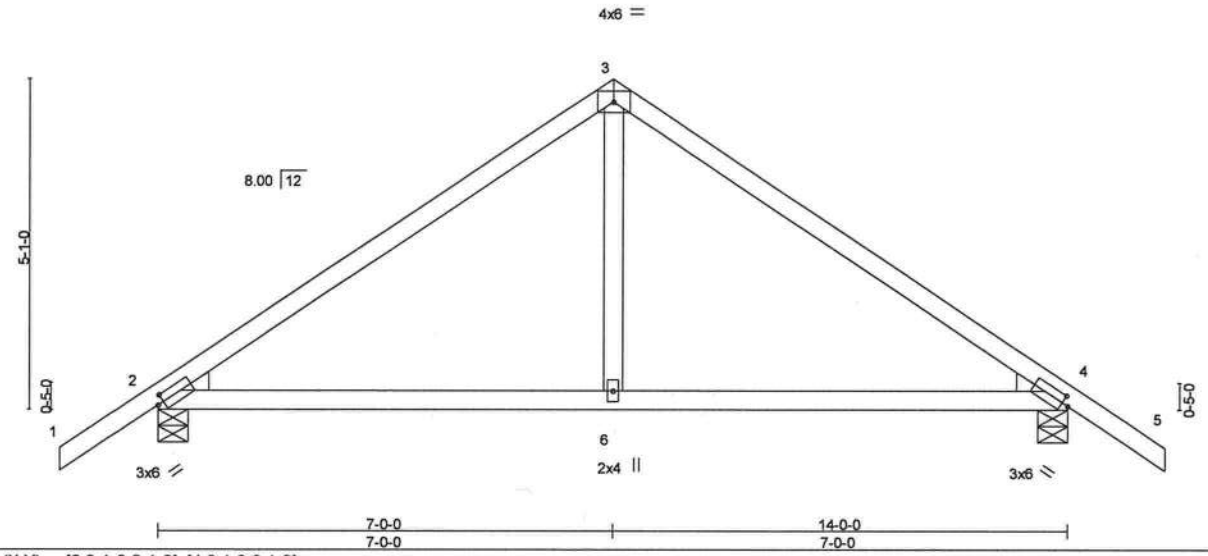


Plate Offsets (X,Y)-- [2:0-1-3,0-1-8], [4:0-1-3,0-1-8]

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	0.45	Vert(LL)	0.06	6-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.42	Vert(TL)	-0.10	6-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.01	4	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 60 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=599/0-5-8, 4=599/0-5-8
Max Horz 2=-194(LC 10)
Max Uplift 2=-280(LC 12), 4=-280(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-568/255, 3-4=-568/255
BOT CHORD 2-6=-72/417, 4-6=-72/417
WEBS 3-6=0/295

NOTES- (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-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.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=280, 4=280.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	
1120836	T05G	Common Supported Gable	1	1	Job Reference (optional)	T11722498

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:54 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-tVBI7w0DP1X2CXZHYPJLMkHym0a4yDNk?4znRTysYAR

-1-6-0 | 7-0-0 | 14-0-0 | 15-6-0

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

Scale = 1:31.7

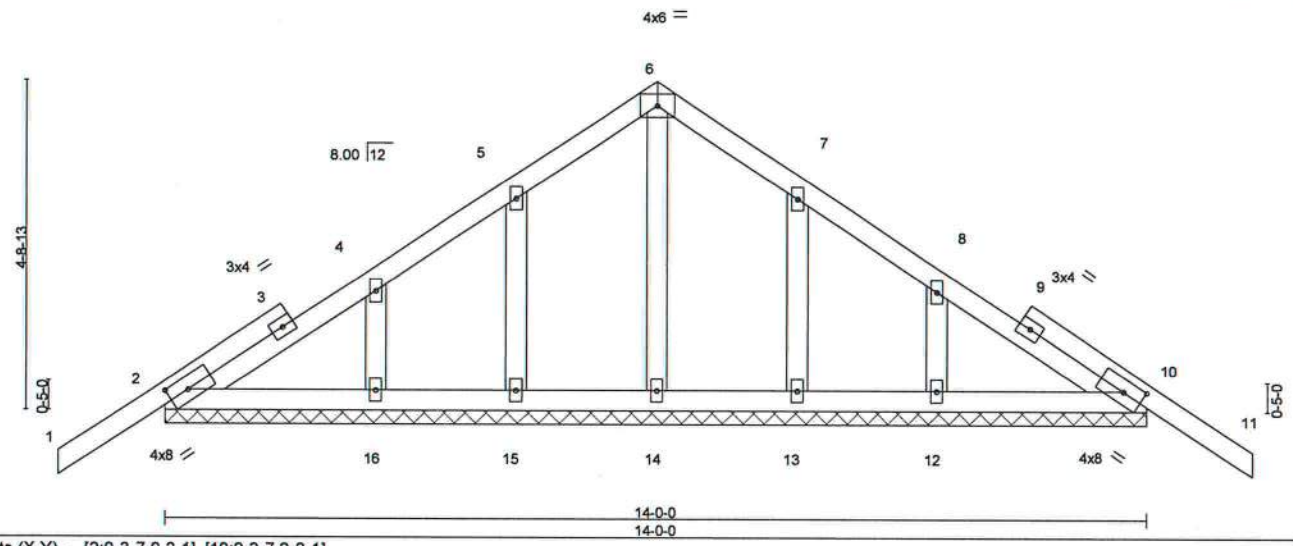


Plate Offsets (X,Y)-- [2:0-3-7,0-2-1], [10:0-3-7,0-2-1]

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	0.17	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.06	Vert(TL)	-0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(TL)	0.00	10	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 76 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

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 14-0-0.
(lb) - Max Horz 2=-182(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 10 except 15=-131(LC 12), 16=-132(LC 12), 13=-129(LC 13), 12=-137(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10 except (jt=lb) 15=131, 16=132, 13=129, 12=137.
10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722499
1120836	T06	Monopitch Girder	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:55 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-Lhl7LG1sAKfvqh7T66qauyp_xQpzhV1uEkjLzvysYAQ

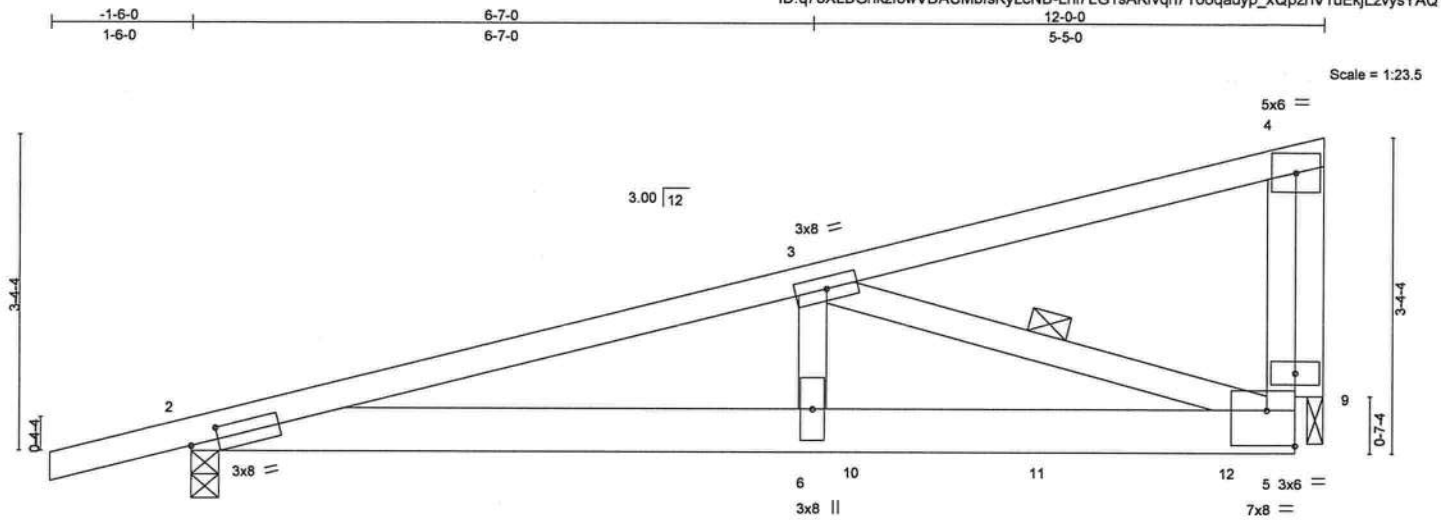


Plate Offsets (X,Y)-- [2:0-3-8,0-1-8], [5:Edge,0-4-8]

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	0.72	Vert(LL)	0.19	5-6	>770	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.46	Vert(TL)	-0.22	5-6	>650	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.66	Horz(TL)	0.02	9	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 65 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2
BOT CHORD	2x6 SP M 26
WEBS	2x4 SP No.3 *Except*
	4-5: 2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-0-2 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-10-9 oc bracing.
WEBS	1 Row at midpt 3-5

REACTIONS. (lb/size) 2=1014/0-3-8, 9=1666/0-2-0
Max Horz 2=181(LC 4)
Max Uplift 2=-774(LC 4), 9=-1421(LC 8)

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

TOP CHORD	2-3=-3054/2410, 3-4=-371/262, 4-5=-1369/1612
BOT CHORD	2-6=-2433/2932, 6-10=-2367/2858, 10-11=-2428/2926, 11-12=-2458/2959, 5-12=-2489/2995
WEBS	3-6=-843/1032, 3-5=-2683/2216

NOTES- (10)

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; 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) Bearing at joint(s) 9 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 9.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=774, 9=1421.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 862 lb down and 826 lb up at 7-0-12, and 438 lb down and 430 lb up at 9-0-12, and 443 lb down and 430 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-4=-54, 2-5=-20

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

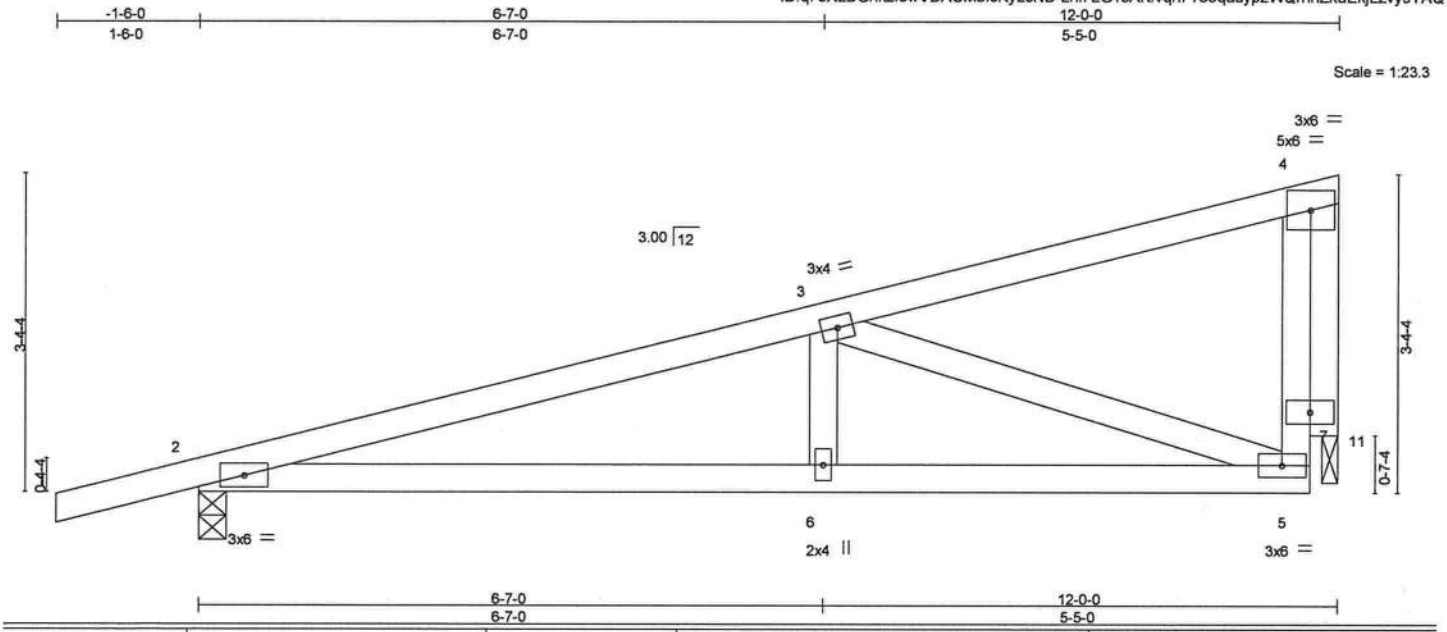
LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 10=-862(F) 11=-438(F) 12=-443(F)

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	
1120836	T07	Monopitch	21	1	Job Reference (optional)	T11722500

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:55 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-Lhl7LG1sAKfvqh7T66qauyp2WQrnhZkuEkjLzvysYAQ



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	0.49	Vert(LL)	0.13	6-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(TL)	-0.11	6-10	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(TL)	-0.02	11	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 55 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-10-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-7-2 oc bracing.

REACTIONS. (lb/size) 2=540/0-3-8, 11=397/0-2-0
Max Horz 2=181(LC 8)
Max Uplift 2=-476(LC 8), 11=-363(LC 8)

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

TOP CHORD	2-3=-879/1314, 5-7=-575/300, 4-7=-575/300
BOT CHORD	2-6=-1403/820, 5-6=-1403/820
WEBS	3-6=-385/238, 3-5=-790/1355

NOTES- (8)

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 11.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=476, 11=363.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722501
1120836	T08	Half Hip	2	1	Job Reference (optional)	

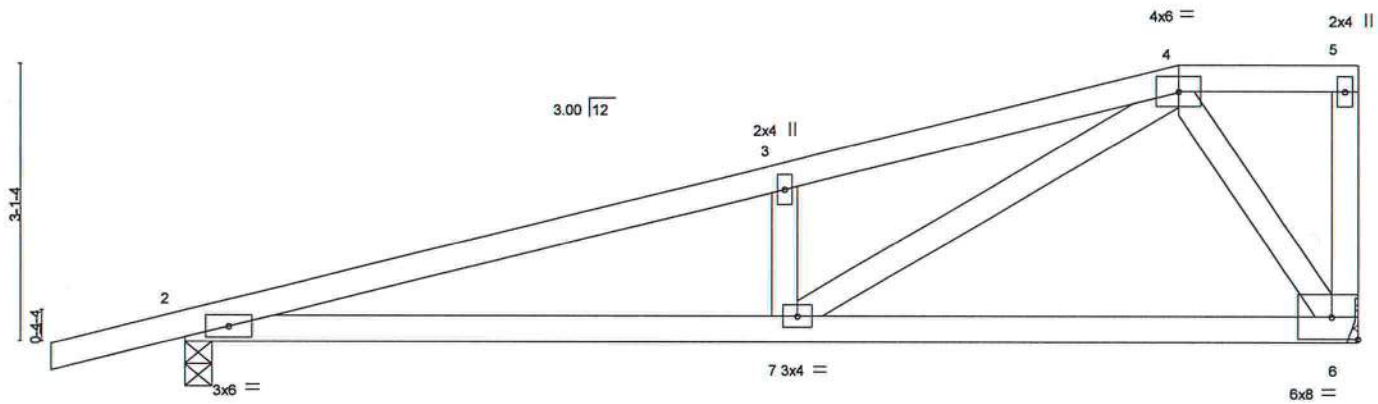
Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:56 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-puJVYc2UxenmSqifgpLpR9MCsqAkQxo1SOSuWLysYAP

-1-6-0	6-7-8	11-0-0	13-0-0
1-6-0	6-7-8	4-4-8	2-0-0

Scale = 1:24.7



6-7-8	13-0-0
6-7-8	6-4-8

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	0.52	Vert(LL)	0.13	6-7	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.43	Vert(TL)	-0.12	6-7	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.75	Horz(TL)	-0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 59 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-4-8 oc bracing.

REACTIONS. (lb/size) 2=574/0-3-8, 6=458/Mechanical
Max Horz 2=174(LC 8)
Max Uplift 2=-508(LC 8), 6=-414(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1006/1534, 3-4=-1005/1626
BOT CHORD 2-7=-1602/942, 6-7=-392/253
WEBS 3-7=-302/343, 4-7=-1440/819, 4-6=-437/648

NOTES- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=508, 6=414.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

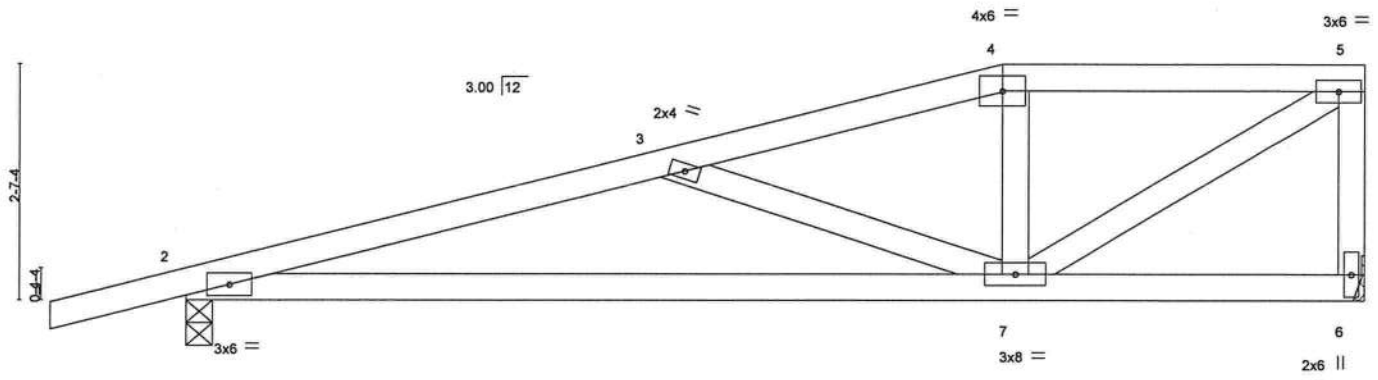
Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722502
1120836	T09	Half Hip	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:57 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-H4stmy36iyvd4_HsDXs2_NvMoET39TVBh2CR2oysYAO

-1-6-0	5-5-15	9-0-0	13-0-0
1-6-0	5-5-15	3-6-1	4-0-0

Scale = 1:24.5



9-0-0	13-0-0
9-0-0	4-0-0

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	0.57	Vert(LL)	0.30	7-10	>522	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(TL)	-0.28	7-10	>552	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.41	Horz(TL)	-0.02	6	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 59 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 3-7-11 oc bracing.

REACTIONS. (lb/size) 6=458/Mechanical, 2=574/0-3-8
Max Horz 2=147(LC 8)
Max Uplift 6=-409(LC 8), 2=-514(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1028/1459, 3-4=-611/978, 4-5=-562/973, 5-6=-444/703
BOT CHORD 2-7=-1521/980
WEBS 3-7=-439/585, 5-7=-1130/645

NOTES- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=409, 2=514.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722503
1120836	T10	Half Hip Girder	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

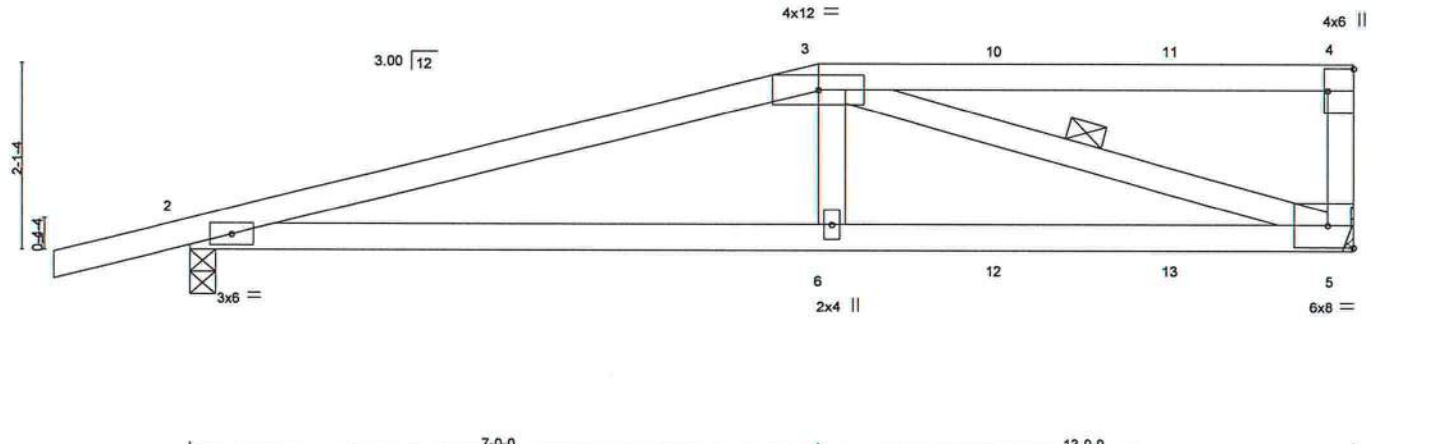
7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:57 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-H4stmy36iyvd4_HsDXs2_NvI5ERv9SNBh2CR2oysYAO

-1-6-0 | 7-0-0 | 13-0-0

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

Scale = 1:24.9



7-0-0 | 13-0-0

7-0-0 | 6-0-0

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

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	0.81	Vert(LL)	0.16	5-6	>945	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.75	Vert(TL)	-0.20	5-6	>764	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.48	Horz(TL)	0.05	5	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 54 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 4-3-14 oc bracing.
WEBS 1 Row at midpt 3-5

REACTIONS. (lb/size) 2=809/0-3-8, 5=882/Mechanical
Max Horz 2=120(LC 23)
Max Uplift 2=-739(LC 4), 5=-805(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1855/1633, 4-5=-268/232
BOT CHORD 2-6=-1618/1760, 6-12=-1654/1798, 12-13=-1654/1798, 5-13=-1654/1798
WEBS 3-6=-444/605, 3-5=-1741/1603

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=739, 5=805.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 109 lb down and 130 lb up at 7-0-0, and 90 lb down and 130 lb up at 9-0-12, and 90 lb down and 130 lb up at 11-0-12 on top chord, and 293 lb down and 367 lb up at 7-0-0 , and 68 lb down and 83 lb up at 9-0-12, and 68 lb down and 83 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-54, 3-4=-54, 5-7=-20
Concentrated Loads (lb)
Vert: 6=-293(B) 3=-90(B) 10=-90(B) 11=-90(B) 12=-47(B) 13=-47(B)

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722504
1120836	T11	Jack-Closed	2	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:58 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-IGQGzI3kTF1Uh8s2nENHWaRYYdtOuwLKwix?aEysYAN

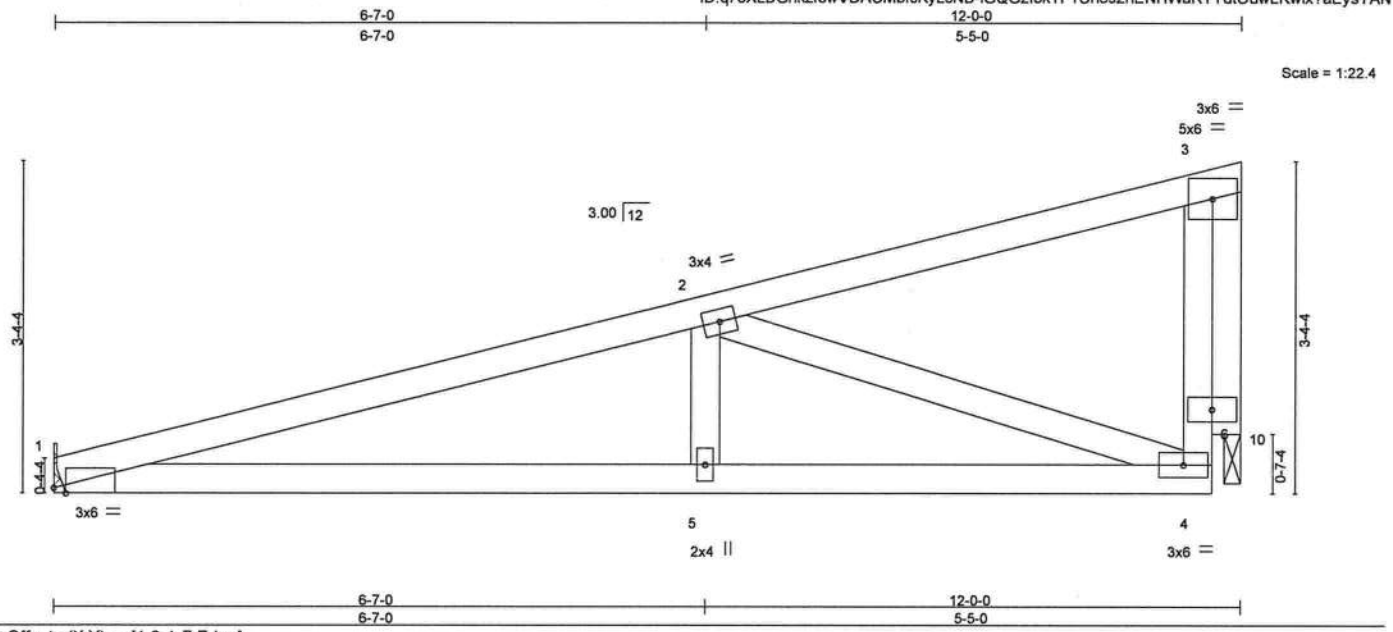


Plate Offsets (X,Y)-- [1:0-1-7,Edge]

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	0.51	Vert(LL)	0.14	5-9	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.35	Vert(TL)	-0.12	5-9	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.43	Horz(TL)	-0.02	10	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 53 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 5-9-12 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 4-6-5 oc bracing.

REACTIONS. (lb/size) 1=456/Mechanical, 10=400/0-2-0
Max Horz 1=154(LC 12)
Max Uplift 1=-378(LC 8), 10=-367(LC 8)

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

TOP CHORD	1-2=-894/1331, 4-6=-579/304, 3-6=-579/304
BOT CHORD	1-5=-1421/836, 4-5=-1421/836
WEBS	2-5=-391/240, 2-4=-807/1374

NOTES- (9)

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=378, 10=367.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

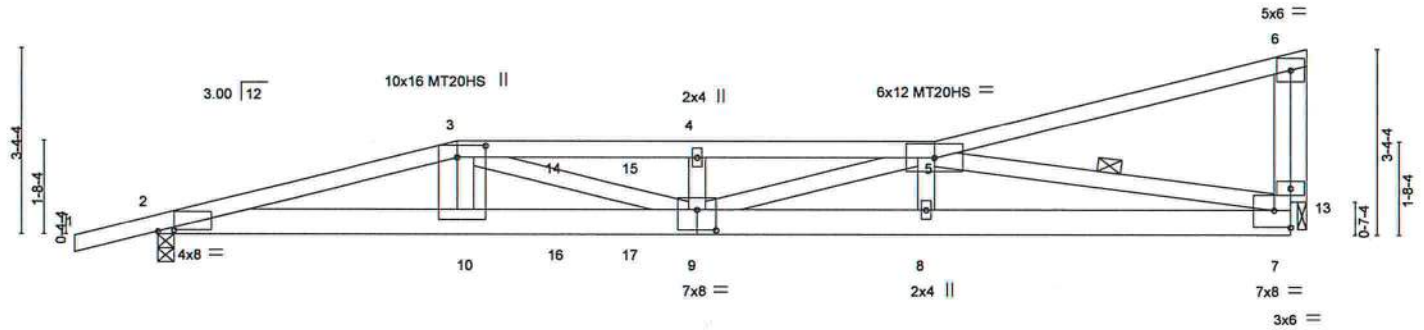
Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722505
1120836	T12	Roof Special Girder	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:59 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-ET_eBd4MEZ9LJIRELyvW3o_dj14bdHNU9MhY6gysYAM

-1-6-0	5-4-0	9-7-0	13-10-0	20-6-0
1-6-0	5-4-0	4-3-0	4-3-0	6-8-0

Scale = 1:39.8



5-4-0	9-7-0	13-10-0	20-6-0
5-4-0	4-3-0	4-3-0	6-8-0

Plate Offsets (X,Y)-- [2:0-3-7,0-0-5], [3:0-2-8,0-6-0], [7:Edge,0-3-12], [9:0-4-0,0-4-8]

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	0.86	Vert(LL)	0.66	9	>369	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.93	Vert(TL)	-0.76	9	>321	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.83	Horz(TL)	0.06	13	n/a	n/a		
BCDL	10.0	Code	FBC2014/TPI2007	(Matrix-M)							Weight: 113 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except*
	3-5: 2x4 SP M 31
BOT CHORD	2x6 SP M 26 *Except*
	7-9: 2x6 SP No.2
WEBS	2x4 SP No.3 *Except*
	5-7: 2x4 SP No.2
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 2-4-9 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 3-8-10 oc bracing.
WEBS	1 Row at midpt 5-7

REACTIONS. (lb/size) 2=1429/0-3-8, 13=1057/0-2-0
Max Horz 2=191(LC 19)
Max Uplift 2=-1273(LC 4), 13=-935(LC 4)

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

TOP CHORD	2-3=-4725/4115, 3-14=-5533/4802, 14-15=-5533/4802, 4-15=-5533/4802, 4-5=-5533/4802, 5-6=-280/176, 6-7=-824/934
BOT CHORD	2-10=-4106/4566, 10-16=-4146/4610, 16-17=-4146/4610, 9-17=-4146/4610, 8-9=-3620/4115, 7-8=-3641/4149
WEBS	3-10=-359/467, 3-9=-784/965, 4-9=-319/275, 5-9=-1365/1483, 5-8=-183/265, 5-7=-3944/3456

NOTES- (13)

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; porch left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
3) All plates are MT20 plates unless otherwise indicated.
4) The Fabrication Tolerance at joint 3 = 16%
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 13.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=1273, 13=935.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 178 lb down and 232 lb up at 5-4-0, and 58 lb down and 100 lb up at 7-1-1, and 95 lb down and 129 lb up at 8-5-4 on top chord, and 137 lb down and 161 lb up at 5-4-0, and 43 lb down and 69 lb up at 7-1-1, and 441 lb down and 410 lb up at 8-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
12) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.25, Plate Increase=1.25
   Uniform Loads (plf)
   Vert: 1-3=-54, 3-5=-54, 5-6=-54, 2-7=-20
   Concentrated Loads (lb)
   Vert: 3=-178(B) 10=-112(B) 14=-58(B) 15=-95(B) 16=-37(B) 17=-441(B)

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722506
1120836	T13	Roof Special	1	1	Job Reference (optional)	

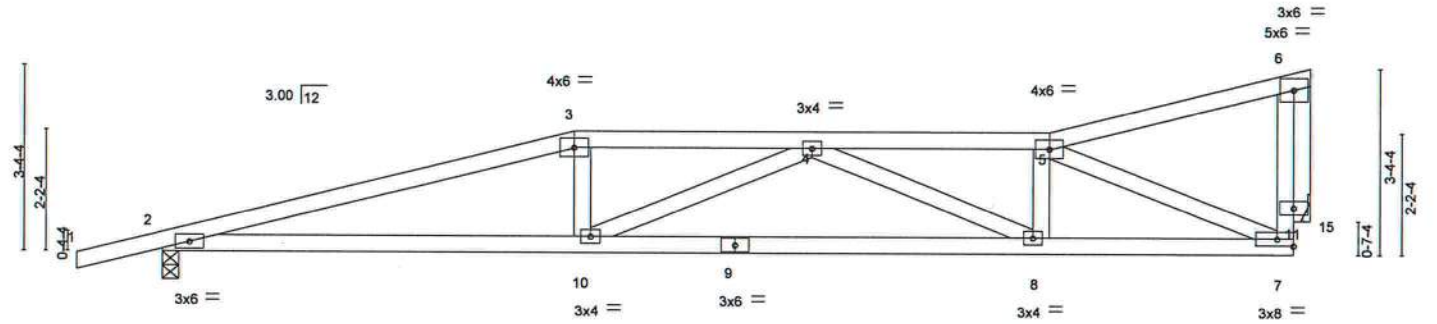
Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:41:59 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-ET_eBd4MEZ9LJIRELyvW3o_e917XdKMU9MhY6gysYAM

-1-6-0	7-4-0	11-7-0	15-10-0	20-6-0
1-6-0	7-4-0	4-3-0	4-3-0	4-8-0

Scale = 1:39.8



7-4-0	15-10-0	20-6-0
7-4-0	8-6-0	4-8-0

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	0.77	Vert(LL)	0.43	8-10	>568	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.74	Vert(TL)	-0.42	8-10	>586	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.64	Horz(TL)	0.06	15	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 95 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 3-5-5 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-5-9 oc bracing.

REACTIONS. (lb/size) 2=853/0-3-8, 15=713/Mechanical
Max Horz 2=181(LC 8)
Max Uplift 2=-755(LC 8), 15=-631(LC 8)

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

TOP CHORD	2-3=-1942/2749, 3-4=-1854/2736, 4-5=-1454/2096, 7-11=-957/624, 6-11=-957/624
BOT CHORD	2-10=-2767/1839, 9-10=-2691/1910, 8-9=-2691/1910, 7-8=-2108/1427
WEBS	3-10=-417/278, 4-8=-502/587, 5-8=-651/383, 5-7=-1443/2141

NOTES- (8)

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Provide adequate drainage to prevent water ponding.
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) except (jt=lb) 2=755, 15=631.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

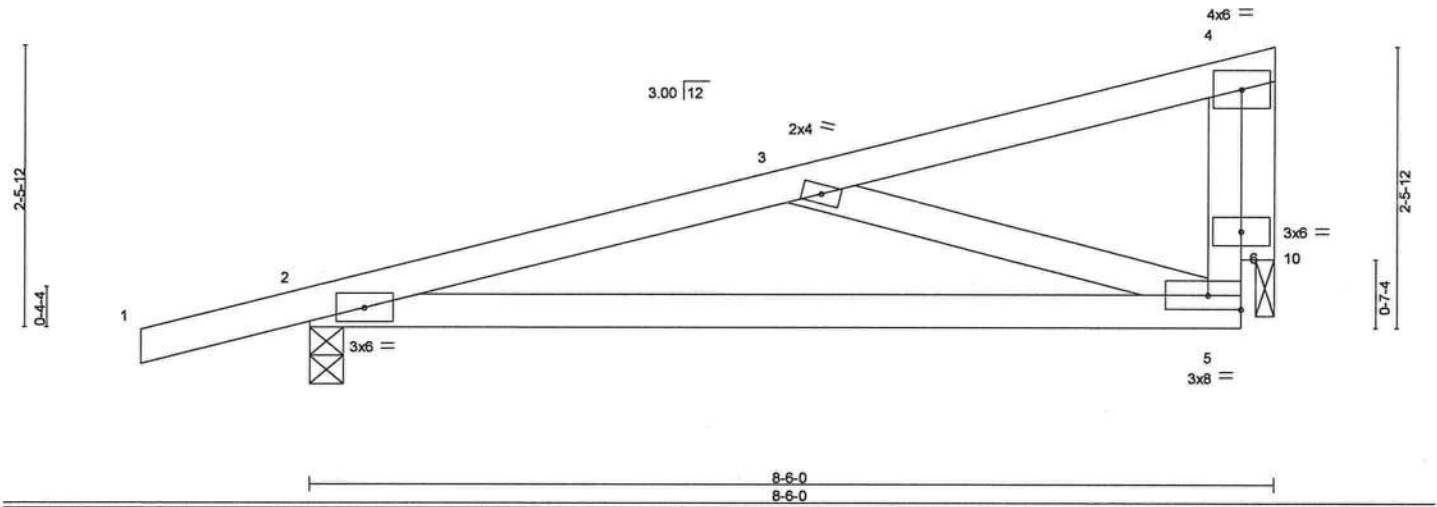
Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722507
1120836	T14	Monopitch	8	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:00 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-ifY0Oz5_?tHCxS0RvfQlb?Xv6RVIMtHdN0Q6f6ysYAL

-1-6-0 / 1-6-0 | 4-6-0 / 4-6-0 | 8-6-0 / 4-0-0

Scale = 1:19.5



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	0.44	Vert(LL)	0.19	5-9	>527	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.52	Vert(TL)	-0.18	5-9	>549	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.21	Horz(TL)	-0.01	10	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 38 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 5-2-2 oc bracing.

REACTIONS. (lb/size) 2=410/0-3-8, 10=268/0-2-0
Max Horz 2=134(LC 8)
Max Uplift 2=-369(LC 8), 10=-245(LC 8)

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

TOP CHORD	2-3=-548/755, 5-6=-415/195, 4-6=-415/195
BOT CHORD	2-5=-851/523
WEBS	3-5=-455/706

NOTES- (8)

1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) 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) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 10.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=369, 10=245.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722508
1120836	T15	COMMON	5	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:00 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-ifY0Oz5_?tHCxS0RvfQlb?XpLRX1MvwdN0Q6f6ysYAL

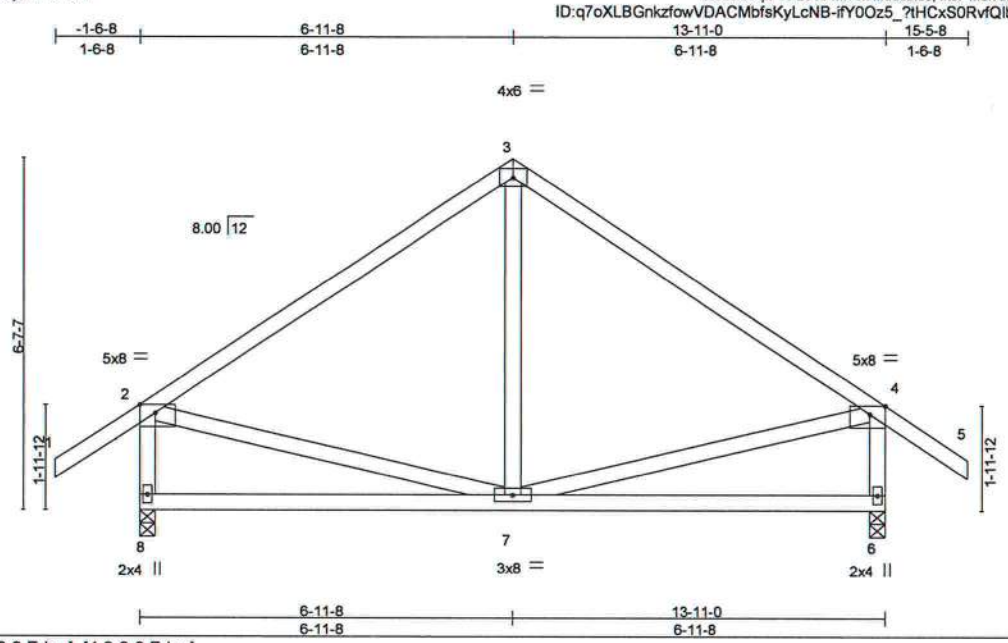


Plate Offsets (X,Y)– [2:0-3-8,Edge], [4:0-3-8,Edge]

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	0.81	Vert(LL)	-0.05	7-8	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.41	Vert(TL)	-0.11	7-8	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.11	Horz(TL)	0.00	6	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 85 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=595/0-3-8, 6=595/0-3-8
Max Horz 8=281(LC 11)
Max Uplift 8=-264(LC 12), 6=-264(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-463/257, 3-4=-463/257, 2-8=-536/399, 4-6=-536/399
BOT CHORD 7-8=-288/342
WEBS 2-7=-110/300, 4-7=-112/302

NOTES- (7)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=264, 6=264.
6) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

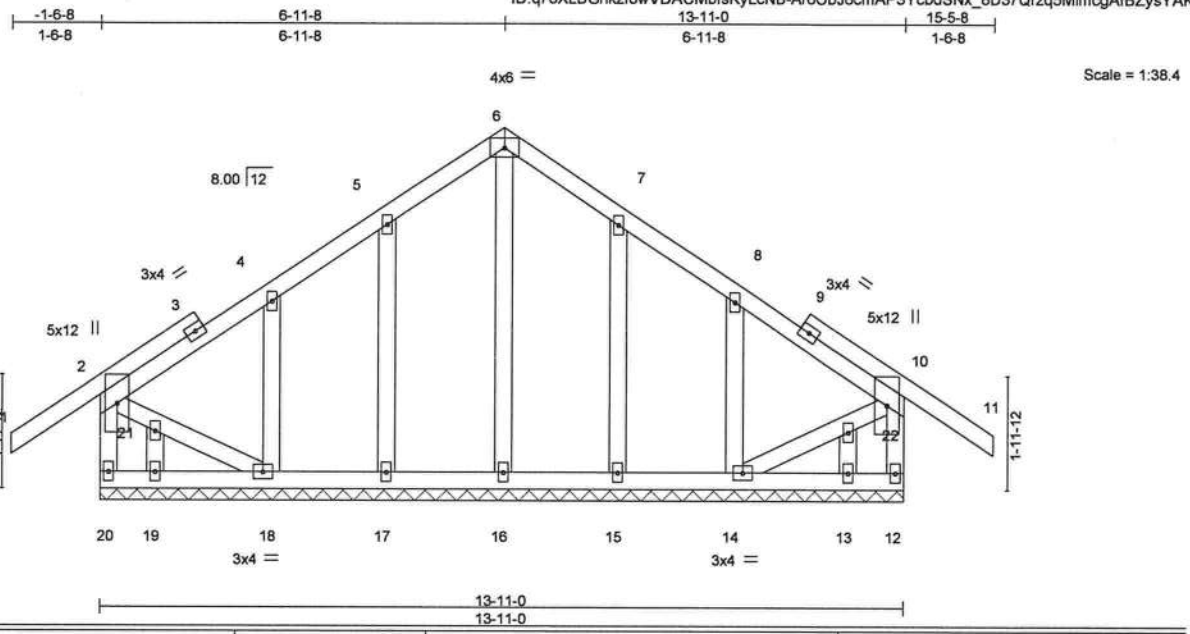
MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722509
1120836	T15G	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:01 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-Ar6ObJ6cmAP3YcbdSNx_8D37Qrzq5MimcgAfBZysYAK



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	0.21	Vert(LL)	-0.01	11	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	-0.01	11	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(TL)	0.00	12	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 103 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 13-11-0.

(lb) - Max Horz 20=-260(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 12, 19, 13 except 20=-101(LC 8), 17=-129(LC 12), 18=-203(LC 12), 15=-128(LC 13), 14=-199(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 20, 12, 16, 17, 18, 19, 15, 14, 13

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

NOTES- (12)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable requires continuous bottom chord bearing.
6) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 19, 13 except (jt=lb) 20=101, 17=129, 18=203, 15=128, 14=199.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722510
1120836	T16	Common Girder	1	2	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:02 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-e1gmpf7FWUXwAlAp04SDhQcDpFFrqgnwrKvCj?ysYAJ

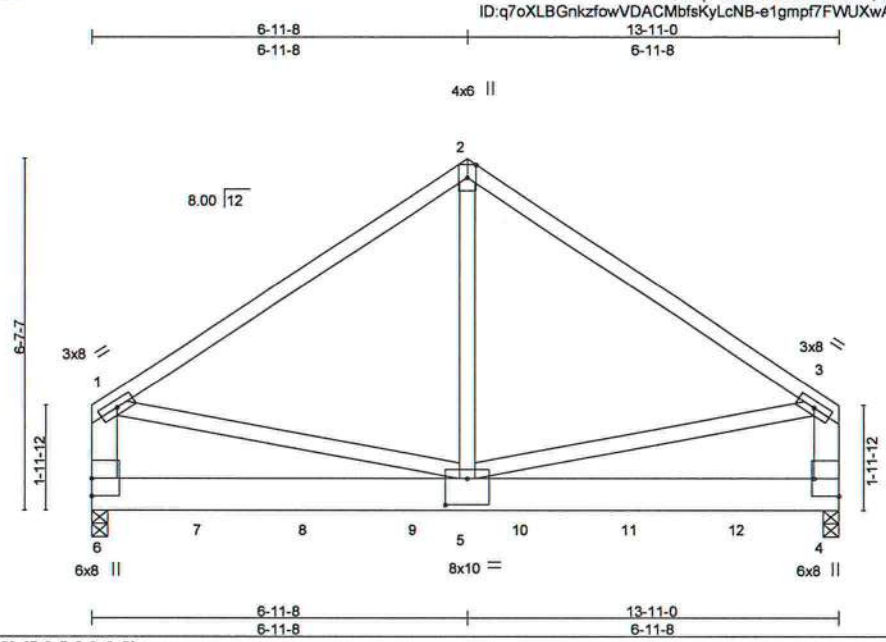


Plate Offsets (X,Y)-- [4:Edge,0-5-8], [5:0-5-0,0-6-0]

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	0.55	Vert(LL)	-0.05	4-5	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.32	Vert(TL)	-0.11	4-5	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.66	Horz(TL)	0.00	4	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 205 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.3 *Except*
1-6,3-4: 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-10-12 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=3953/0-3-8, 4=4019/0-3-8
Max Horz 6=236(LC 24)
Max Uplift 6=-1577(LC 8), 4=-1603(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3512/1428, 2-3=-3512/1428, 1-6=-2634/1089, 3-4=-2632/1088
BOT CHORD 6-7=-450/651, 7-8=-450/651, 8-9=-450/651, 5-9=-450/651, 5-10=-316/587, 10-11=-316/587, 11-12=-316/587, 4-12=-316/587
WEBS 2-5=-1325/3456, 1-5=-954/2331, 3-5=-953/2322

NOTES- (10)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 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 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=1577, 4=1603.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1163 lb down and 478 lb up at 2-0-12, 1163 lb down and 478 lb up at 4-0-12, 1163 lb down and 478 lb up at 6-0-12, 1163 lb down and 478 lb up at 8-0-12, and 1163 lb down and 478 lb up at 10-0-12, and 1163 lb down and 478 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.
1120836	T16	Common Girder	1	2	T11722510
					Job Reference (optional)

Builders FirstSource, Lake City, FL 32055

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-6EE90??tHofnovI?aozSDe9OYeb4Z7133_fmFRysYAI

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-1163(F) 8=-1163(F) 9=-1163(F) 10=-1163(F) 11=-1163(F) 12=-1163(F)

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722511
1120836	T17	Piggyback Base	7	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:03 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-6EE90?7tHofnovI?aozSDe9OceYAZ5D33_fmFRysYAI

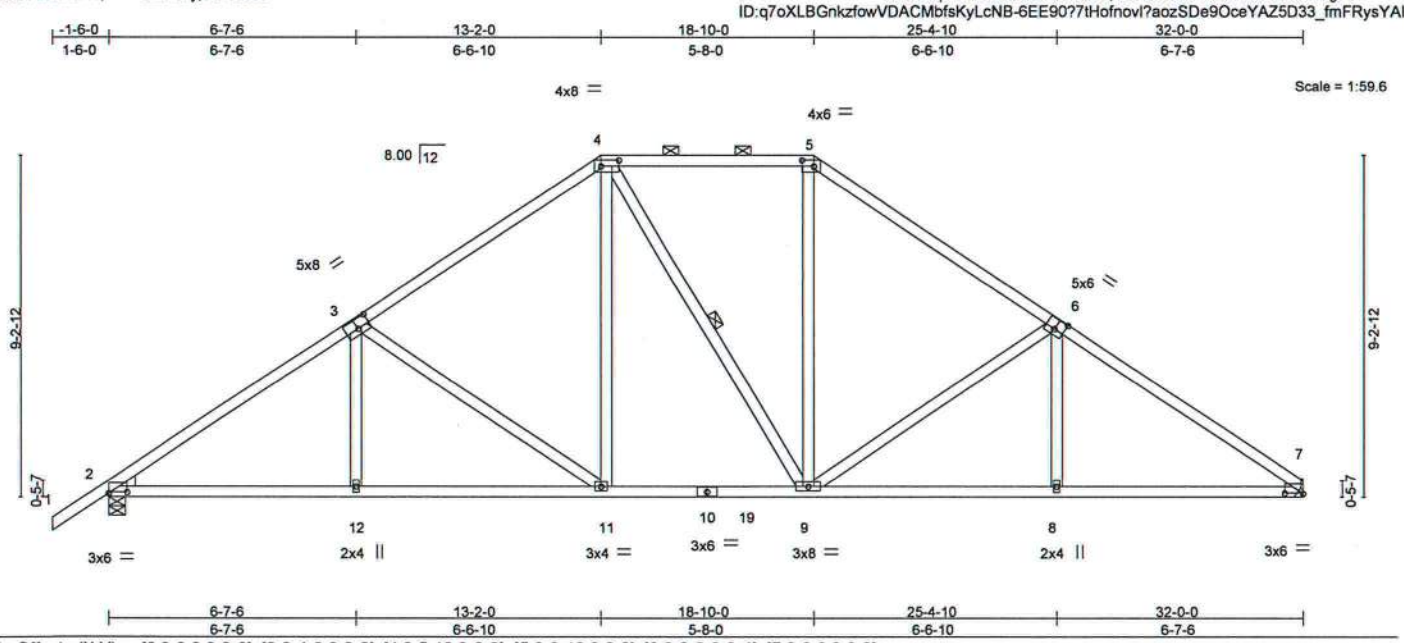


Plate Offsets (X,Y)-- [2:0-6-0,0-0-6], [3:0-4-0,0-3-0], [4:0-5-12,0-2-0], [5:0-3-12,0-2-0], [6:0-3-0,0-3-4], [7:0-6-0,0-0-2]

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	0.55	Vert(LL)	-0.08	9-11	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.51	Vert(TL)	-0.21	11-12	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(TL)	0.08	7	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 183 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-10 oc purlins, except 2-0-0 oc purlins (5-2-3 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 7-4-4 oc bracing.
WEBS 1 Row at midpt 4-9

REACTIONS. (lb/size) 2=1266/0-5-8, 7=1183/Mechanical
Max Horz 2=324(LC 9)
Max Uplift 2=-525(LC 12), 7=-468(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1785/882, 3-4=-1350/788, 4-5=-1145/745, 5-6=-1351/789, 6-7=-1793/889
BOT CHORD 2-12=-627/1445, 11-12=-627/1446, 10-11=-301/1037, 10-19=-301/1037, 9-19=-301/1037, 8-9=-621/1420, 7-8=-621/1419
WEBS 3-12=0/271, 3-11=-626/419, 4-11=-197/490, 5-9=-179/464, 6-9=-620/429, 6-8=0/272

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=525, 7=468.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722512
1120836	T17G	Piggyback Base Supported Gable	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:05 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-2cLvRh97pPvU1DuOhC?wl3Eq6SLk19NMXI8tKKysYAG

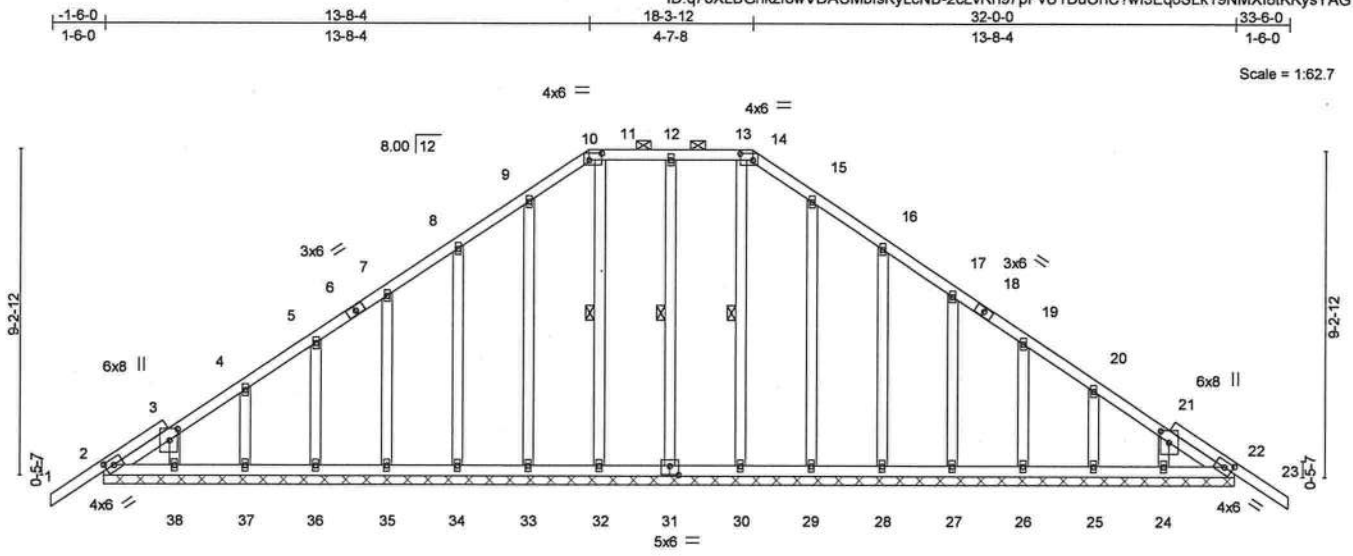


Plate Offsets (X,Y)-- [2:0-2-12,0-2-0], [3:0-3-15,0-2-12], [10:0-4-4,0-2-4], [14:0-4-4,0-2-4], [21:0-3-15,0-2-12], [22:0-2-12,0-2-0], [31:0-3-0,0-3-0]

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	0.17	Vert(LL)	-0.01	23	n/r	120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.05	Vert(TL)	-0.01	23	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(TL)	0.01	22	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 228 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 10-14.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 12-31, 11-32, 13-30

REACTIONS. All bearings 32-0-0.
(lb) - Max Horz 2=-335(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 22, 31, 32, 30 except 2=-106(LC 8), 33=-108(LC 12), 34=-132(LC 12), 35=-124(LC 12), 36=-125(LC 12), 37=-111(LC 12), 38=-106(LC 12), 29=-100(LC 13), 28=-135(LC 13), 27=-124(LC 13), 26=-125(LC 13), 25=-117(LC 13), 24=-101(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 22, 2, 31, 32, 33, 34, 35, 36, 37, 38, 30, 29, 28, 27, 26, 25, 24

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-289/248, 8-9=-206/268, 9-10=-261/314, 10-11=-238/292, 11-12=-238/292, 12-13=-238/292, 13-14=-238/292, 14-15=-261/314, 15-16=-206/250

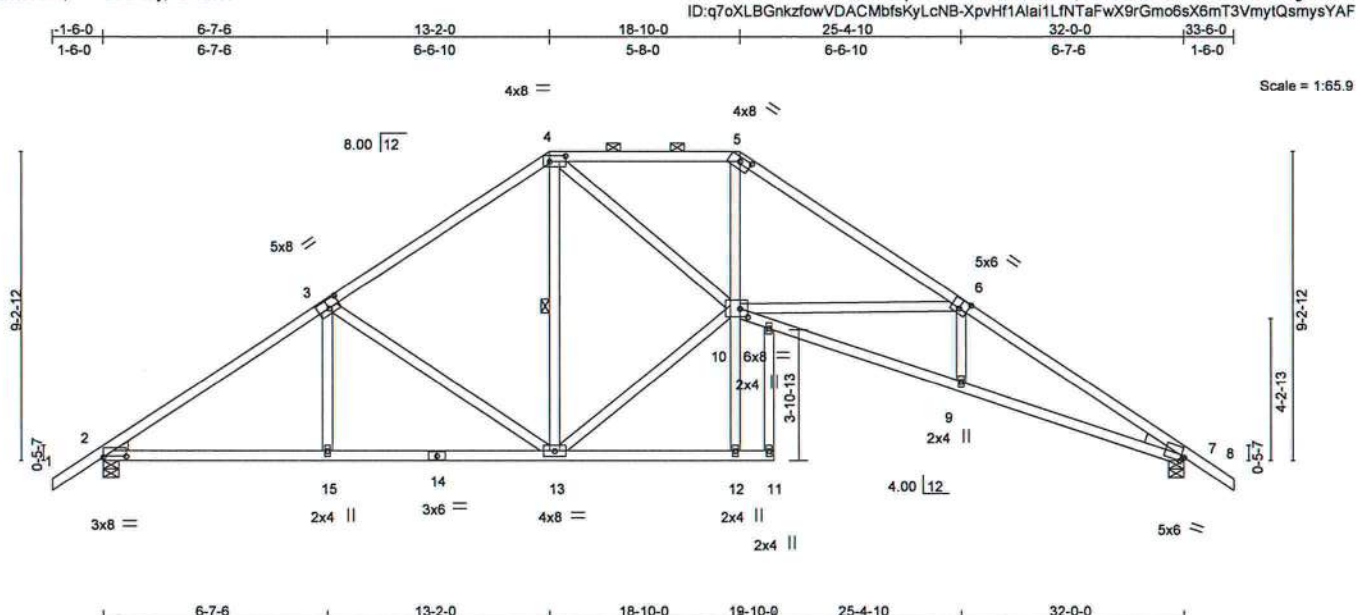
NOTES- (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 2x4 MT20 unless otherwise indicated.
6) Gable requires continuous bottom chord bearing.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22, 31, 32, 30 except (jt=lb) 2=106, 33=108, 34=132, 35=124, 36=125, 37=111, 38=106, 29=100, 28=135, 27=124, 26=125, 25=117, 24=101.
11) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722513
1120836	T18	Piggyback Base	3	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:06 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-XpvHf1Alai1LfNTaFwX9rGmo6sX6mT3VmytQsmysYAF



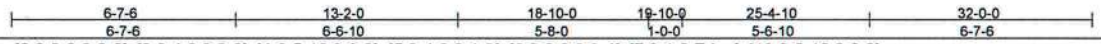


Plate Offsets (X,Y)-- [2:0-8-0,0-0-6], [3:0-4-0,0-3-0], [4:0-5-12,0-2-0], [5:0-4-0,0-1-9], [6:0-3-0,0-3-4], [7:0-1-2,Edge], [10:0-2-12,0-3-0]

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)	-0.23	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.62	Vert(TL)	-0.57	9-10	>671	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(TL)	0.36	7	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 196 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
5-12: 2x4 SP No.3, 7-10: 2x4 SP M 31
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except 2-0-0 oc purlins (3-7-1 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 7-6-4 oc bracing. Except: 10-0-0 oc bracing: 10-12
WEBS 1 Row at midpt 4-13

REACTIONS. (lb/size) 2=1275/0-5-8, 7=1278/0-5-8
Max Horz 2=-336(LC 10)
Max Uplift 2=-523(LC 12), 7=-520(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1796/874, 3-4=-1366/779, 4-5=-2004/964, 5-6=-2492/1048, 6-7=-3169/1409
BOT CHORD 2-15=-600/1420, 14-15=-600/1420, 13-14=-600/1420, 5-10=-317/996, 9-10=-1064/2698, 7-9=-1057/2678
WEBS 3-15=0/264, 3-13=-621/419, 4-13=-431/144, 10-13=-342/1316, 4-10=-302/1268, 6-10=-835/609

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=523, 7=520.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722514
1120836	T19	Piggyback Base	2	1	Job Reference (optional)	

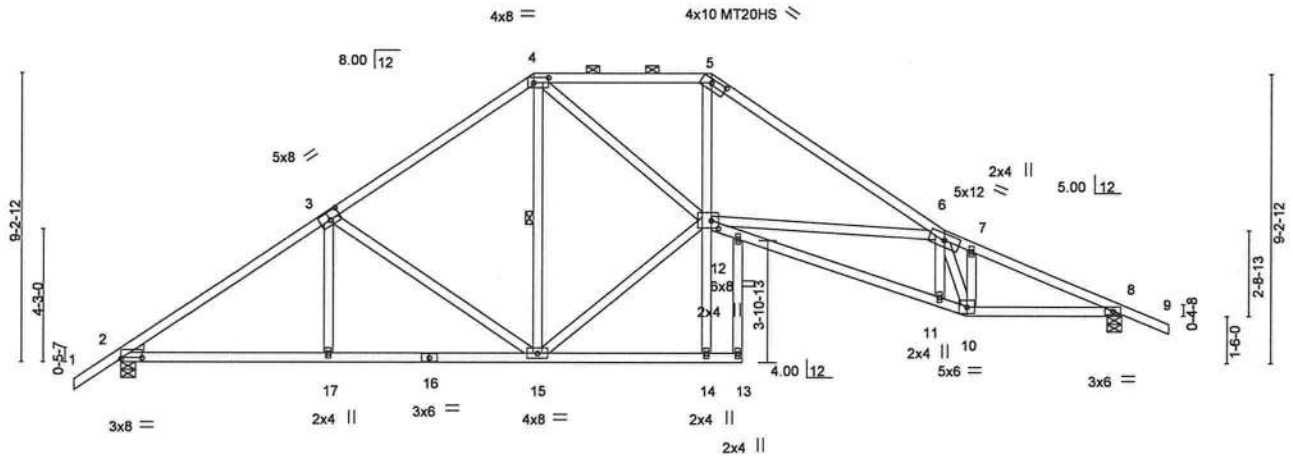
Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:07 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-??TfsNANL09CGX2npd2OOUJ4nGqBVvHf_cdzOCysYAE

1-6-0	6-7-6	13-2-0	18-10-0	26-3-12	27-0-8	32-0-0	33-6-0
1-6-0	6-7-6	6-6-10	5-8-0	7-5-12	0-8-12	4-11-8	1-6-0

Scale = 1:70.8



6-7-6	13-2-0	18-10-0	19-10-0	26-3-12	27-0-8	32-0-0
6-7-6	6-6-10	5-8-0	1-0-0	6-5-12	0-8-12	4-11-8

Plate Offsets (X,Y)-- [2:0-8-0,0-0-6], [3:0-4-0,0-3-0], [4:0-5-12,0-2-0], [5:0-6-0,0-1-8], [12:0-2-12,0-3-0]

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	0.54	Vert(LL)	-0.16	13	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(TL)	-0.49	11-12	>778	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.77	Horz(TL)	0.21	8	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 200 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except* 5-6: 2x4 SP M 31
BOT CHORD 2x4 SP No.2 *Except* 5-14: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-5-11 oc purlins, except 2-0-0 oc purlins (3-8-1 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing. Except: 10-0-0 oc bracing: 12-14
WEBS 1 Row at midpt 4-15

REACTIONS. (lb/size) 2=1269/0-5-8, 8=1284/0-5-8
Max Horz 2=-321(LC 10)
Max Uplift 2=-521(LC 12), 8=-523(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1787/882, 3-4=-1355/787, 4-5=-1983/1033, 5-6=-2482/1114, 6-7=-2374/1254, 7-8=-2481/1259
BOT CHORD 2-17=-649/1412, 16-17=-649/1413, 15-16=-649/1413, 5-12=-314/948, 11-12=-1240/2707, 10-11=-1227/2717, 8-10=-1049/2234
WEBS 3-17=0/264, 3-15=-623/420, 4-15=-422/80, 4-12=-390/1251, 12-15=-390/1302, 6-12=-702/588, 6-11=0/407, 6-10=-1085/429

NOTES- (10)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=521, 8=523.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722515
1120836	T20	Piggyback Base	2	1	Job Reference (optional)	

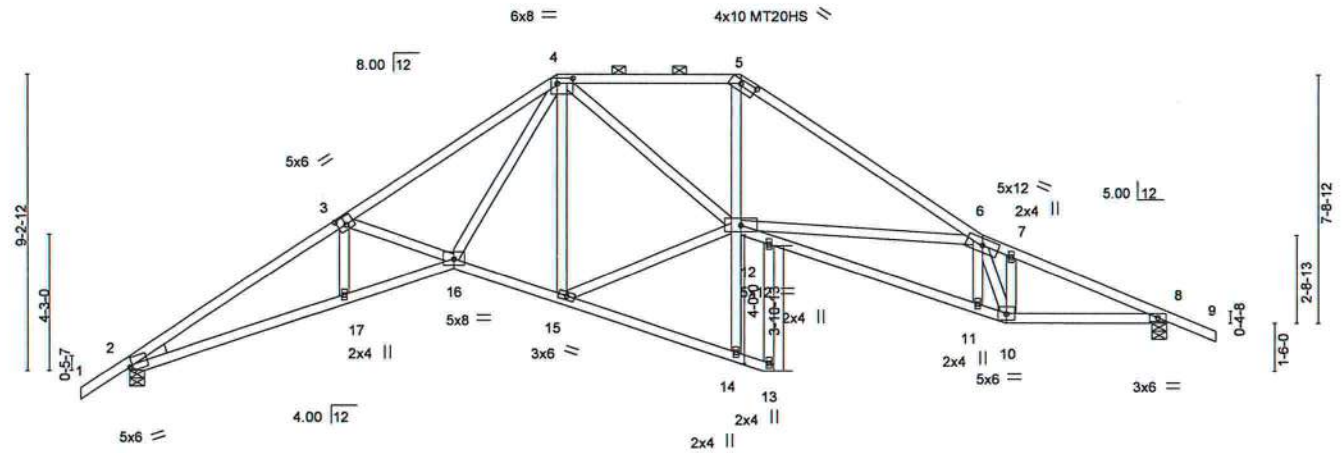
Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:08 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-TB123iB?6KI3ugdzNLZdwhsBFfATEM5oDGMXxfysYAD

1-6-0	6-7-6	13-2-0	18-10-0	19-10-0	26-3-12	27-0-8	32-0-0	33-6-0
1-6-0	6-7-6	6-6-10	5-8-0	1-0-0	6-5-12	0-8-12	4-11-8	1-6-0

Scale = 1:68.6



6-7-6	10-0-0	13-2-0	18-10-0	19-10-0	26-3-12	27-0-8	32-0-0
6-7-6	3-4-10	3-2-0	5-8-0	1-0-0	6-5-12	0-8-12	4-11-8

Plate Offsets (X,Y)-- [2:0-1-2,Edge], [3:0-3-0,0-3-0], [4:0-5-12,0-2-0], [5:0-6-0,0-1-8]

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	0.81	Vert(LL)	0.24	16	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.82	Vert(TL)	-0.60	11-12	>642	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.80	Horz(TL)	0.38	8	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 197 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except* 3-4,5-6: 2x4 SP M 31
BOT CHORD 2x4 SP No.2 *Except* 2-16: 2x4 SP M 31, 5-14,13-18: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-8-13 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 5-3-3 oc bracing. Except: 10-0-0 oc bracing: 12-14

REACTIONS. (lb/size) 2=1266/0-5-8, 8=1284/0-5-8
Max Horz 2=-321(LC 10)
Max Uplift 2=-518(LC 12), 8=-523(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3102/1466, 3-4=-2724/1337, 4-5=-1978/1036, 5-6=-2475/1117, 6-7=-2353/1248, 7-8=-2463/1256
BOT CHORD 2-17=-1241/2617, 16-17=-1249/2637, 15-16=-448/1441, 5-12=-316/946, 11-12=-1238/2694, 10-11=-1226/2704, 8-10=-1045/2216
WEBS 3-16=-547/424, 4-16=-776/1688, 4-15=-877/330, 12-15=-440/1443, 6-12=-695/586, 6-11=0/410, 4-12=-260/827, 6-10=-1100/437

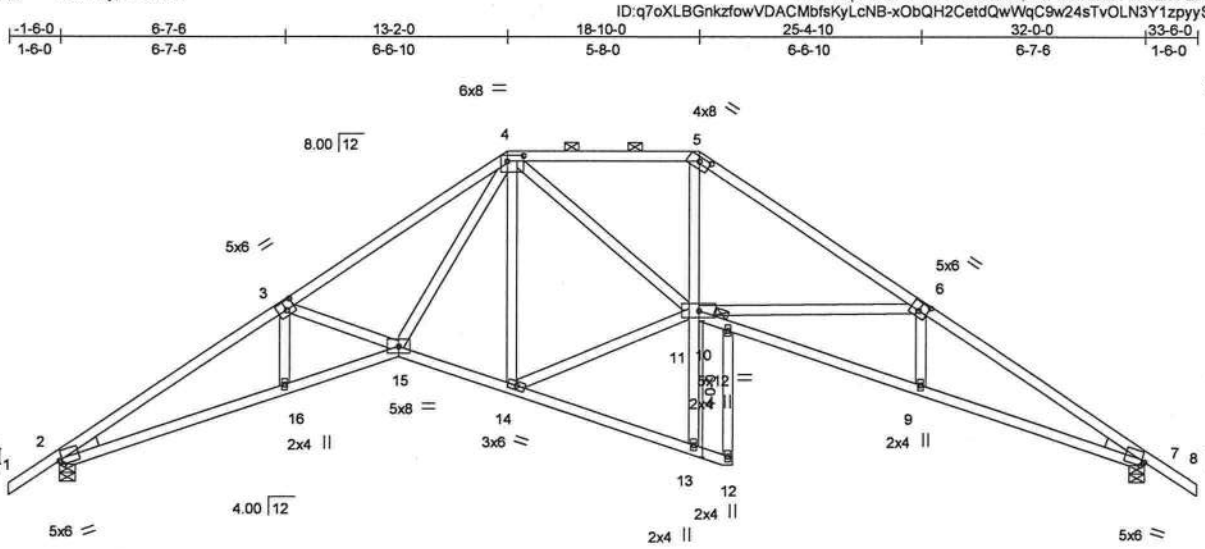
NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) All plates are MT20 plates unless otherwise indicated.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=518, 8=523.
9) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722516
1120836	T21	Piggyback Base	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:09 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-xObQH2CetdQwWqC9w24sTvOLN3Y1zpyySv64T5ysYAC



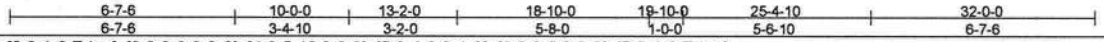


Plate Offsets (X,Y)-- [2:0-1-2,Edge], [3:0-3-0,0-3-0], [4:0-5-12,0-2-0], [5:0-4-0,0-1-9], [6:0-3-0,0-3-0], [7:0-1-2,Edge]

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	0.85	Vert(LL)	-0.27	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.67	Vert(TL)	-0.65	9-10	>595	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.82	Horz(TL)	0.53	7	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 193 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
3-4,5-6: 2x4 SP M 31
BOT CHORD 2x4 SP M 31 *Except*
12-15: 2x4 SP No.2, 5-13: 2x4 SP No.3
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (3-7-11 max.): 4-5.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 11

REACTIONS. (lb/size) 2=1265/0-5-8, 7=1265/0-5-8
Max Horz 2=-336(LC 10)
Max Uplift 2=-523(LC 12), 7=-523(LC 13)

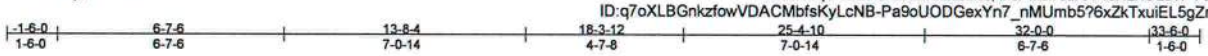
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3099/1404, 3-4=-2721/1271, 4-5=-1995/979, 5-6=-2484/1069, 6-7=-3123/1424
BOT CHORD 2-16=-1154/2614, 15-16=-1161/2635, 14-15=-394/1438, 11-13=0/278, 5-11=-328/992, 10-11=-1065/2629, 9-10=-1076/2653, 7-9=-1069/2636
WEBS 3-15=-553/426, 4-15=-722/1691, 4-14=-903/296, 4-11=-209/856, 6-11=-805/606, 11-14=-394/1459

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Provide adequate drainage to prevent water ponding.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
6) Bearing at joint(s) 2, 7 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=523, 7=523.
8) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
10) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722517
1120836	T21G	GABLE	1	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:10 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-Pa9oUODGexYn7_nMUmb5?6xZkTxuiEL5gZrd?XysYAB



Scale = 1:65.3

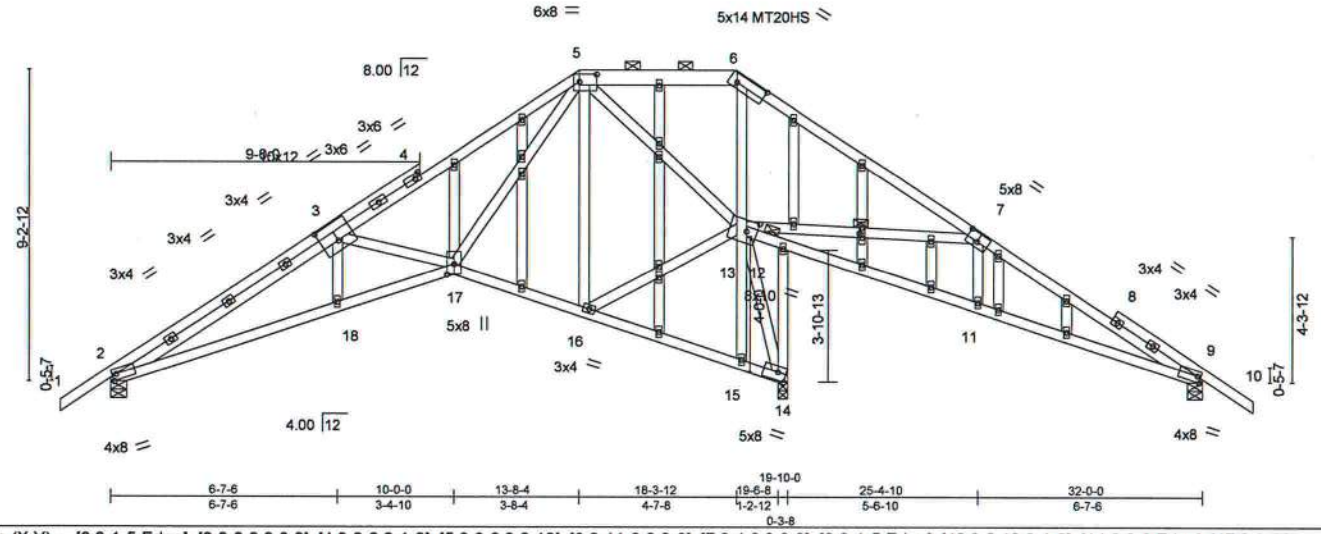


Plate Offsets (X,Y)-- [2:0-1-5,Edge], [3:0-6-0,0-6-8], [4:0-2-0,0-1-8], [5:0-6-0,0-2-12], [6:0-11-0,0-3-0], [7:0-4-0,0-3-0], [9:0-1-5,Edge], [13:0-3-12,0-4-0], [14:0-3-0,Edge], [17:0-3-11,0-2-8], [31:0-1-8,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.69	Vert(LL)	0.11	17-18	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.50	Vert(TL)	-0.16	17-18	>999	180	MT20HS	187/143
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.94	Horz(TL)	0.13	14	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 256 lb	FT = 20%

LUMBER-

TOP CHORD	2x4 SP No.2 *Except* 5-6: 2x6 SP No.2
BOT CHORD	2x4 SP No.2 *Except* 6-15: 2x4 SP No.3
WEBS	2x4 SP No.3
OTHERS	2x4 SP No.3

BRACING-

TOP CHORD	Structural wood sheathing directly applied or 4-8-9 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 5-6.
BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	1 Row at midpt 7-13
JOINTS	1 Brace at Jt(s): 13

REACTIONS. (lb/size) 2=686/0-5-8, 9=335/0-5-8, 14=1500/0-3-8
Max Horz 2=-335(LC 10)
Max Uplift 2=-339(LC 12), 9=-308(LC 13), 14=-502(LC 12)
Max Grav 2=712(LC 23), 9=425(LC 20), 14=1500(LC 1)

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

TOP CHORD	2-3=-1423/742, 3-4=-932/452, 4-5=-830/486, 5-6=-207/669, 6-7=-394/934, 7-8=-449/377, 8-9=-451/351
BOT CHORD	2-18=-728/1411, 17-18=-735/1415, 16-17=-180/364, 15-16=-209/447, 14-15=-192/415, 6-13=-759/452, 12-13=-211/335, 11-12=-218/377, 9-11=-218/375
WEBS	3-17=-709/507, 5-17=-449/944, 5-16=-310/441, 5-13=-1257/715, 7-13=-1123/738, 13-16=-443/442, 12-14=-259/26, 13-14=-1455/695

NOTES- (14)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) Provide adequate drainage to prevent water ponding.
5) All plates are MT20 plates unless otherwise indicated.
6) All plates are 2x4 MT20 unless otherwise indicated.
7) Gable studs spaced at 2-0-0 oc.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
10) Bearing at joint(s) 2, 9, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=339, 9=308, 14=502.
12) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

14) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

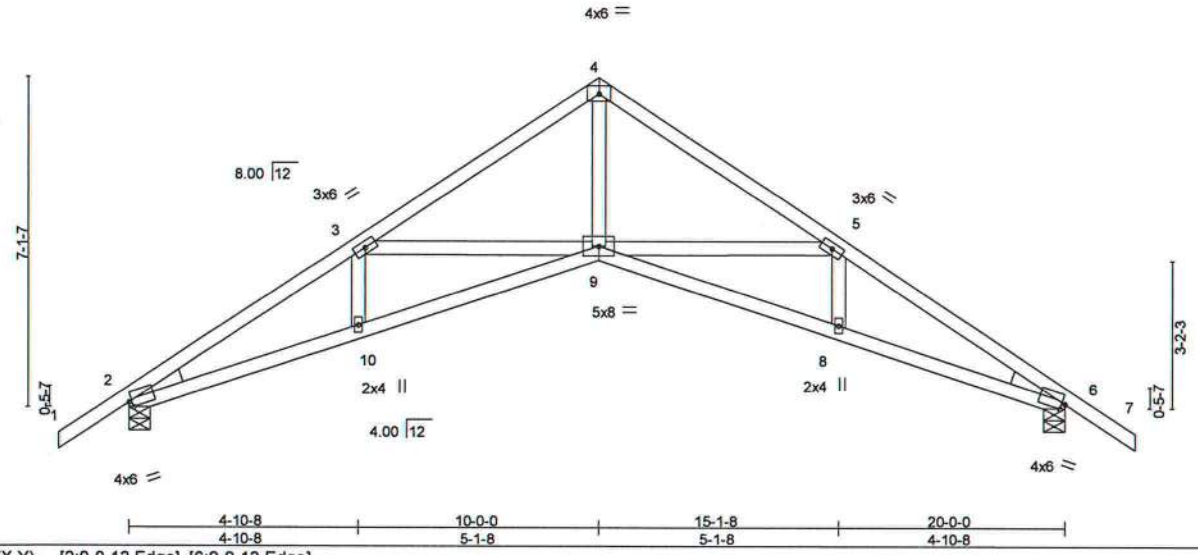
Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722518
1120836	T22	Scissor	5	1	Job Reference (optional)	

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:11 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-tmjAikEuPFgel8MY2T6KYKUoDtCsRpkFvDbBY_ysYAA

-1-6-0	4-10-8	10-0-0	15-1-8	20-0-0	21-6-0
1-6-0	4-10-8	5-1-8	5-1-8	4-10-8	1-6-0

Scale = 1:47.5



4-10-8	10-0-0	15-1-8	20-0-0
4-10-8	5-1-8	5-1-8	4-10-8

Plate Offsets (X,Y)-- [2:0-0-13,Edge], [6:0-0-13,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	0.45	Vert(LL)	-0.12	9-10	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.77	Vert(TL)	-0.29	9-10	>826	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.42	Horz(TL)	0.23	6	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 101 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3
WEDGE
Left: 2x4 SP No.3, Right: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-0-1 oc bracing.

REACTIONS. (lb/size) 2=821/0-5-8, 6=821/0-5-8
Max Horz 2=-262(LC 10)
Max Uplift 2=-362(LC 12), 6=-362(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1802/754, 3-4=-1326/500, 4-5=-1326/502, 5-6=-1840/756
BOT CHORD 2-10=-695/1669, 9-10=-703/1689, 8-9=-526/1572, 6-8=-518/1554
WEBS 4-9=-359/1139, 5-9=-578/449, 3-9=-588/425

NOTES- (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-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.
5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=362, 6=362.
7) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
8) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	T11722519
1120836	T22G	GABLE	1	1	Job Reference (optional)	

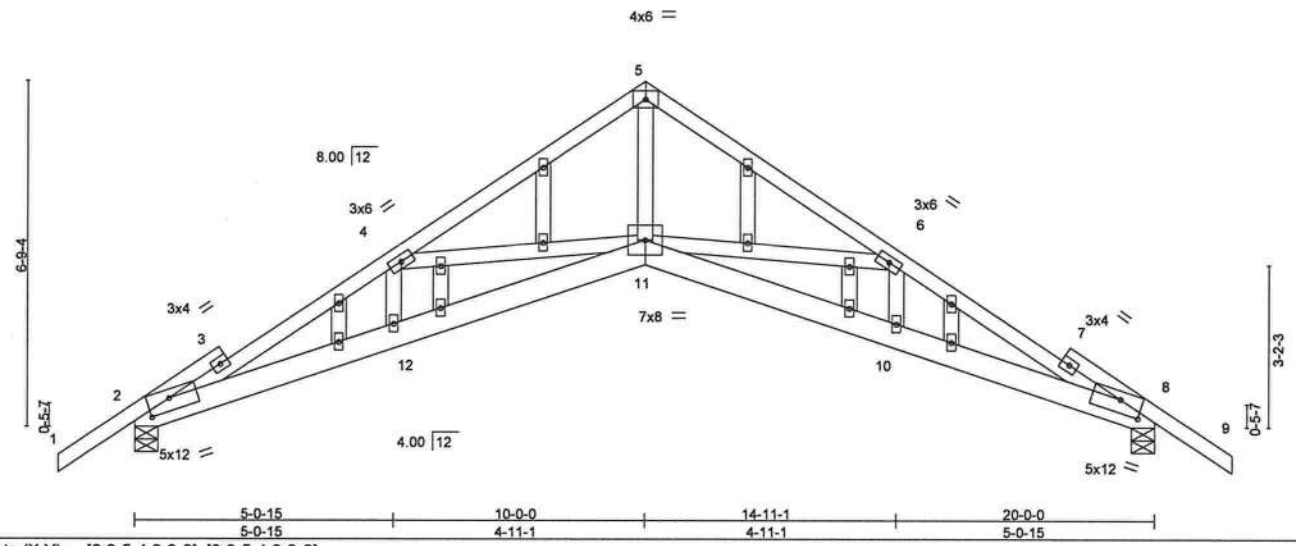
Builders FirstSource, Lake City, FL 32055

7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:12 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-LzGYv4EWAYoVNIxkcBdZ5X0zdHevAF9O8tKk4QysYA9

-1-6-0	5-0-15	10-0-0	14-11-1	20-0-0	21-6-0
1-6-0	5-0-15	4-11-1	4-11-1	5-0-15	1-6-0

Scale = 1:43.4



5-0-15	10-0-0	14-11-1	20-0-0
5-0-15	4-11-1	4-11-1	5-0-15

Plate Offsets (X,Y)-- [2:0-5-4,0-3-0], [8:0-5-4,0-3-0]

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	0.40	Vert(LL)	0.11	11-12	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.40	Vert(TL)	-0.24	11-12	>969	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.47	Horz(TL)	0.21	8	n/a	n/a		
BCDL	10.0	Code FBC2014/TPI2007		(Matrix)							Weight: 127 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-6-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-9 oc bracing.

REACTIONS. (lb/size) 2=816/0-5-8, 8=816/0-5-8
Max Horz 2=-250(LC 10)
Max Uplift 2=-367(LC 12), 8=-367(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2085/834, 3-4=-2072/850, 4-5=-1419/508, 5-6=-1419/514, 6-7=-2131/848, 7-8=-2143/832
BOT CHORD 2-12=-795/1958, 11-12=-800/1969, 10-11=-627/1872, 8-10=-623/1867
WEBS 5-11=-387/1260, 6-11=-797/506, 4-11=-800/498

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=28ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) All plates are 2x4 MT20 unless otherwise indicated.
5) Gable studs spaced at 2-0-0 oc.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 2, 8 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=367, 8=367.
10) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
11) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

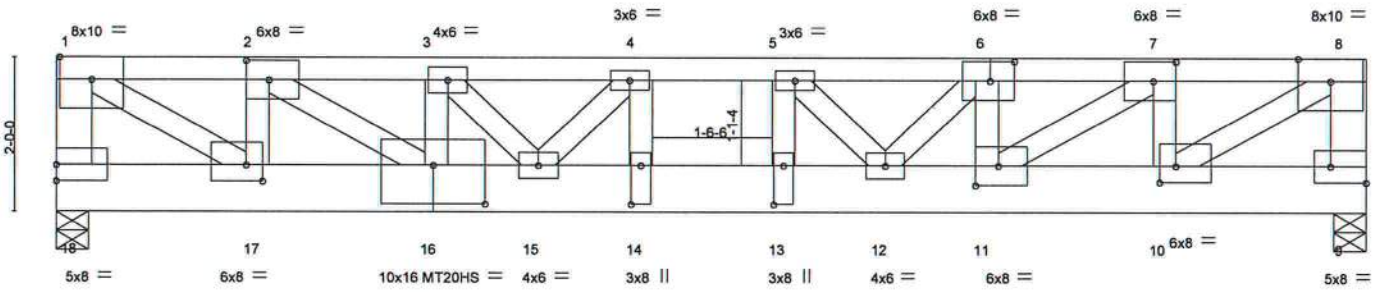
Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	
1120836	TFG01	FLOOR	1	3	Job Reference (optional)	T11722520

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:13 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-p9qx7QF8xswM_SWw9u9odlZ0wgu4vefXNX4lcsysYA8

2-7-2	4-10-7	7-6-1	9-3-15	11-11-9	14-2-14	16-10-0
2-7-2	2-3-5	2-7-10	1-9-14	2-7-10	2-3-5	2-7-2

Scale = 1:28.6



2-7-2	4-10-7	6-2-4	7-6-1	9-3-15	10-7-12	11-11-9	14-2-14	16-10-0
2-7-2	2-3-5	1-3-13	1-3-13	1-9-14	1-3-13	1-3-13	2-3-5	2-7-2

Plate Offsets (X,Y)-- [2:0-3-8,0-3-0], [6:0-3-12,0-3-0], [7:0-3-8,0-3-0], [9:Edge,0-2-8], [10:0-2-8,0-2-8], [11:0-3-8,0-3-0], [13:0-6-0,0-1-8], [14:0-6-0,0-1-8], [16:0-8-0,0-6-0], [17:0-2-8,0-2-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.88	Vert(LL)	-0.30	13-14	>650	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(TL)	-0.47	13-14	>416	240	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(TL)	0.05	9	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 345 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP M 31
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
1-18,8-9: 2x6 SP No.2, 1-17,2-16,7-11,8-10: 2x4 SP M 31

BRACING-

TOP CHORD Structural wood sheathing directly applied or 3-7-5 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 18=11618/0-5-0, 9=11618/0-5-0

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

TOP CHORD 1-18=-10093/0, 1-2=-14513/0, 2-3=-23603/0, 3-4=-26333/0, 4-5=-29138/0, 5-6=-26272/0, 6-7=-23789/0, 7-8=-14529/0, 8-9=-10104/0
BOT CHORD 17-18=0/868, 16-17=0/14513, 15-16=0/23734, 14-15=0/29138, 13-14=0/29138, 12-13=0/29138, 11-12=0/23661, 10-11=0/14529, 9-10=0/867
WEBS 1-17=0/16322, 2-17=-8195/0, 2-16=0/11060, 3-16=-5233/0, 3-15=0/4359, 4-14=-1293/3443, 5-13=-1278/3468, 6-11=-5144/0, 7-11=0/11204, 7-10=-8191/0, 8-10=0/16342, 5-12=-6183/0, 6-12=0/4318, 4-15=-6120/0

NOTES- (7)

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-4-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced floor live loads have been considered for this design.
4) All plates are MT20 plates unless otherwise indicated.
5) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
7) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-8=-868, 9-18=-551(B=-541)

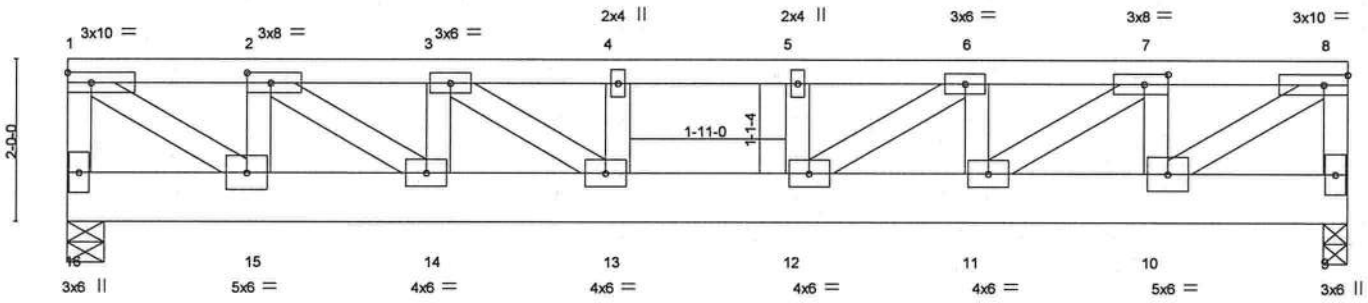
Job	Truss	Truss Type	Qty	Ply	PAPKA RES.	
1120836	TFG02	FLOOR	1	3	Job Reference (optional)	T11722521

Builders FirstSource, Lake City, FL 32055 — 7.640 s Apr 19 2016 MiTek Industries, Inc. Mon Jul 31 13:42:13 2017 Page 1

ID:q7oXLBGnkzfowVDACMbfsKyLcNB-p9qx7QF8xswM_SWw9u9odlZAFg?UveiXNX4IcsysYA8

2-4-4	4-6-12	6-9-4	8-11-12	11-2-4	13-4-12	15-9-0
2-4-4	2-2-8	2-2-8	2-2-8	2-2-8	2-2-8	2-4-4

Scale = 1:27.3



2-4-4	4-6-12	6-9-4	8-11-12	11-2-4	13-4-12	15-9-0
2-4-4	2-2-8	2-2-8	2-2-8	2-2-8	2-2-8	2-4-4

Plate Offsets (X,Y)-- [2:0-3-8,0-1-8], [7:0-3-8,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.22	Vert(LL)	-0.13	12-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.32	Vert(TL)	-0.20	12-13	>948	240		
BCLL	0.0	Rep Stress Incr	NO	WB	0.65	Horz(TL)	0.02	9	n/a	n/a		
BCDL	5.0	Code FBC2014/TPI2007		(Matrix-M)							Weight: 314 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP M 31
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 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.

REACTIONS. (lb/size) 16=5032/0-5-8, 9=5032/0-3-8

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-16=-4636/0, 1-2=-5848/0, 2-3=-9784/0, 3-4=-11604/0, 4-5=-11604/0, 5-6=-11604/0, 6-7=-9784/0, 7-8=-5848/0, 8-9=-4636/0
BOT CHORD 14-15=0/5848, 13-14=0/9784, 12-13=0/11604, 11-12=0/9784, 10-11=0/5848
WEBS 1-15=0/6860, 2-15=-4220/0, 2-14=0/4811, 3-14=-2683/0, 3-13=0/3123, 4-13=-1405/0, 5-12=-1405/0, 6-12=0/3123, 6-11=-2683/0, 7-11=0/4811, 7-10=-4220/0, 8-10=0/6860

NOTES- (6)
1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced floor live loads have been considered for this design.
4) "Semi-rigid pitchbreaks including heels" Member end fixity model was used in the analysis and design of this truss.
5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
6) This manufactured product is designed as an individual building component. The suitability and use of this component for any particular building is the responsibility of the building designer per ANSI TPI 1 as referenced by the building code.

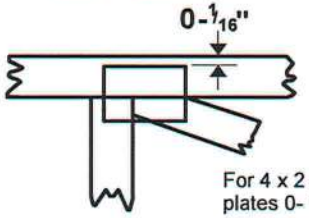
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 1-8=-641, 9-16=-10

MiTek
6904 Parke East Blvd.
Tampa, FL 36610

Symbols

PLATE LOCATION AND ORIENTATION

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



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

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

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

PLATE SIZE

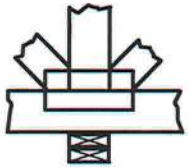
4 x 4

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

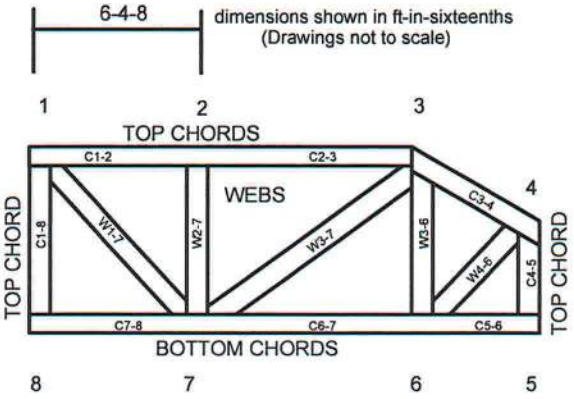


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

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.

MiTek®

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 I 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/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 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/TPI 1 Quality Criteria.

MiTek USA, Inc.

Note: T-Bracing / I-Bracing to be used when continuous lateral bracing is impractical. T-Brace / I-Brace must cover 90% of web length.

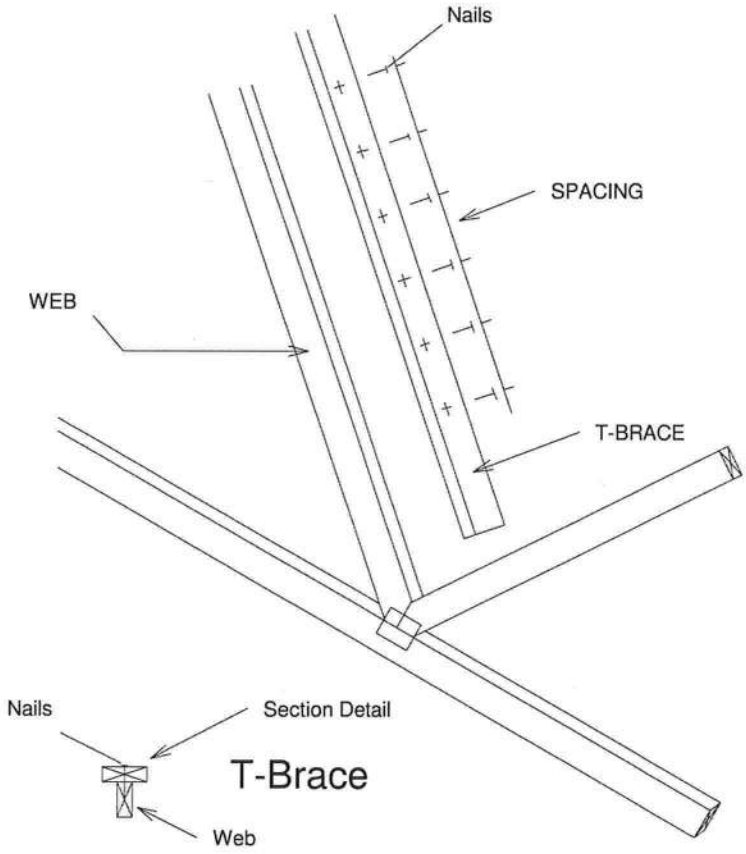
Note: This detail NOT to be used to convert T-Brace / I-Brace webs to continuous lateral braced webs.

Nailing Pattern		
T-Brace size	Nail Size	Nail Spacing
2x4 or 2x6 or 2x8	10d	6" o.c.
Note: Nail along entire length of T-Brace / I-Brace (On Two-Ply's Nail to Both Plies)		

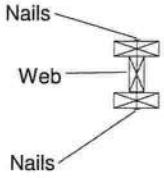
	Brace Size for One-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

	Brace Size for Two-Ply Truss	
	Specified Continuous Rows of Lateral Bracing	
Web Size	1	2
2x3 or 2x4	2x4 T-Brace	2x4 I-Brace
2x6	2x6 T-Brace	2x6 I-Brace
2x8	2x8 T-Brace	2x8 I-Brace

T-Brace / I-Brace must be same species and grade (or better) as web member.



T-Brace



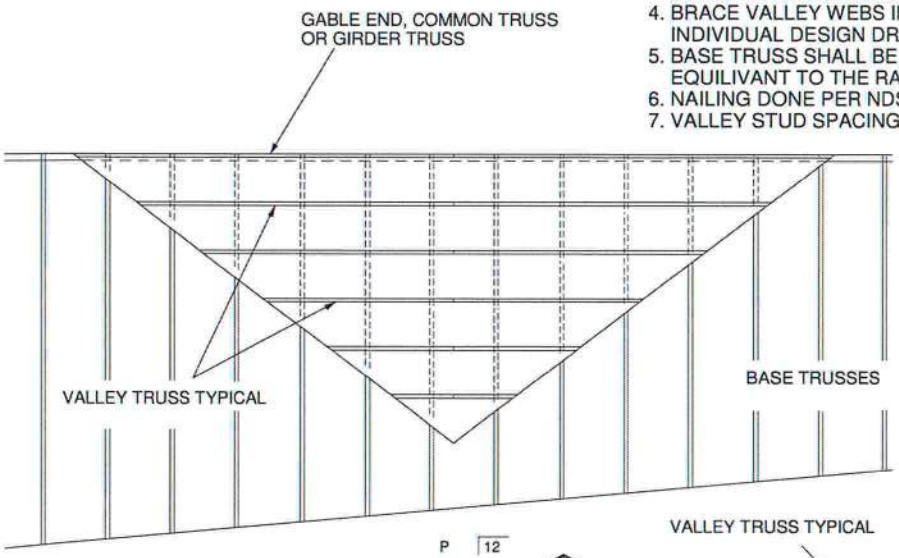
I-Brace

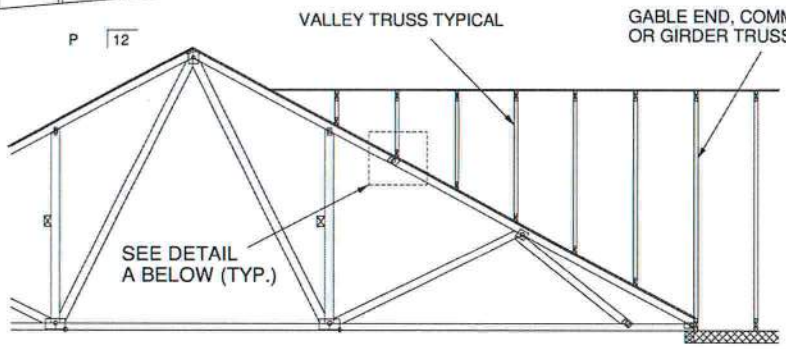
FEBRUARY 14, 2012	TRUSSED VALLEY SET DETAIL	ST-VALLEY HIGH WIND1

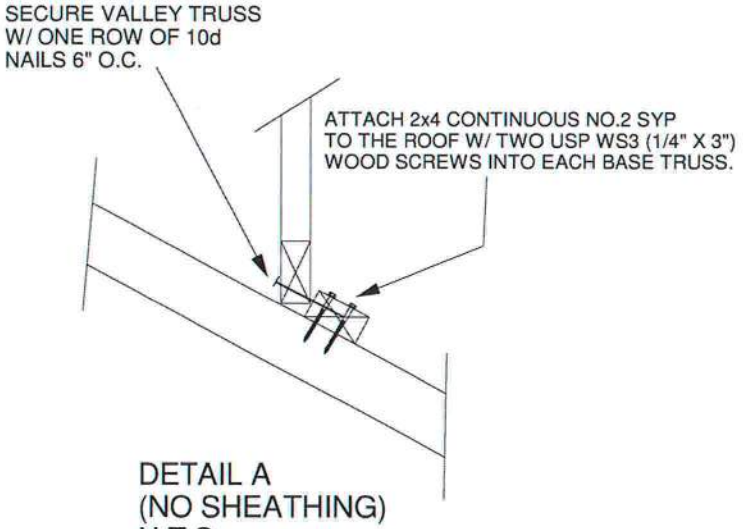
MiTek USA, Inc.

GENERAL SPECIFICATIONS

1. NAIL SIZE = 3" X 0.131" = 10d
2. WOOD SCREW = 3" WS3 USP OR EQUIVALENT
   DO NOT USE DRYWALL OR DECKING TYPE SCREW
3. INSTALL VALLEY TRUSSES (24" O.C. MAXIMUM) AND
   SECURE PER DETAIL A
4. BRACE VALLEY WEBS IN ACCORDANCE WITH THE
   INDIVIDUAL DESIGN DRAWINGS.
5. BASE TRUSS SHALL BE DESIGNED WITH A PURLIN SPACING
   EQUILIVANT TO THE RAKE DIMENSION OF THE VALLEY TRUSS SPACING.
6. NAILING DONE PER NDS - 01
7. VALLEY STUD SPACING NOT TO EXCEED 48" O.C.







DETAIL A
(NO SHEATHING)
N.T.S.

WIND DESIGN PER ASCE 7-98, ASCE 7-02, ASCE 7-05 146 MPH
WIND DESIGN PER ASCE 7-10 160 MPH
MAX MEAN ROOF HEIGHT = 30 FEET
ROOF PITCH = MINIMUM 3/12 MAXIMUM 6/12
CATEGORY II BUILDING
EXPOSURE C
WIND DURATION OF LOAD INCREASE : 1.60
MAX TOP CHORD TOTAL LOAD = 50 PSF
MAX SPACING = 24" O.C. (BASE AND VALLEY)
MINIMUM REDUCED DEAD LOAD OF 6 PSF
ON THE TRUSSES

JANUARY 28, 2015	LATERAL TOE-NAIL DETAIL	ST-TOENAIL_SP

MiTek USA, Inc.

NOTES:
1. TOE-NAILS SHALL BE DRIVEN AT AN ANGLE OF 45 DEGREES WITH THE MEMBER AND MUST HAVE FULL WOOD SUPPORT. (NAIL MUST BE DRIVEN THROUGH AND EXIT AT THE BACK CORNER OF THE MEMBER END AS SHOWN.
2. THE END DISTANCE, EDGE DISTANCE, AND SPACING OF NAILS SHALL BE SUCH AS TO AVOID UNUSUAL SPLITTING OF THE WOOD.
3. ALLOWABLE VALUE SHALL BE THE LESSER VALUE OF THE TWO SPECIES FOR MEMBERS OF DIFFERENT SPECIES.

TOE-NAIL SINGLE SHEAR VALUES PER NDS 2001 (lb/nail)

	DIAM.	SP	DF	HF	SPF	SPF-S
3.5" LONG	.131	88.0	80.6	69.9	68.4	59.7
	.135	93.5	85.6	74.2	72.6	63.4
	.162	108.8	99.6	86.4	84.5	73.8
3.25" LONG	.128	74.2	67.9	58.9	57.6	50.3
	.131	75.9	69.5	60.3	59.0	51.1
	.148	81.4	74.5	64.6	63.2	52.5

VALUES SHOWN ARE CAPACITY PER TOE-NAIL.
APPLICABLE DURATION OF LOAD INCREASES MAY BE APPLIED.

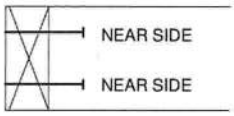
EXAMPLE:
(3) - 16d NAILS (.162" diam. x 3.5") WITH SPF SPECIES BOTTOM CHORD

For load duration increase of 1.15:
3 (nails) X 84.5 (lb/nail) X 1.15 (DOL) = 291.5 lb Maximum Capacity

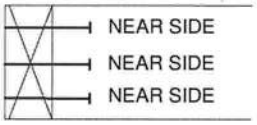
THIS DETAIL APPLICABLE TO THE THREE END DETAILS SHOWN BELOW

VIEWS SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY

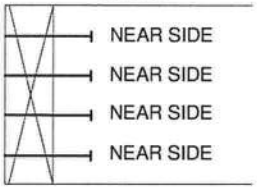
SIDE VIEW
(2x3)
2 NAILS

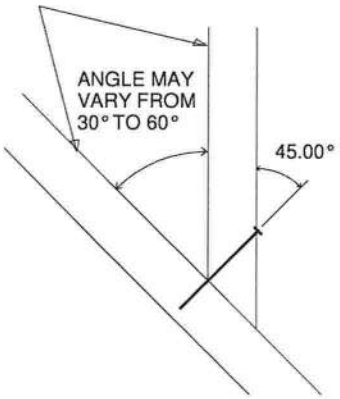


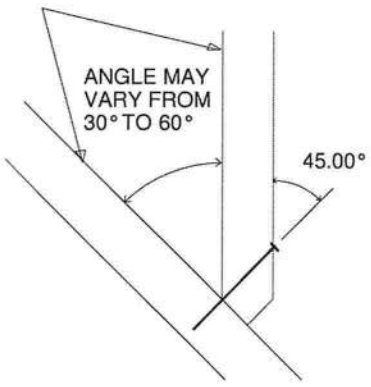
SIDE VIEW
(2x4)
3 NAILS

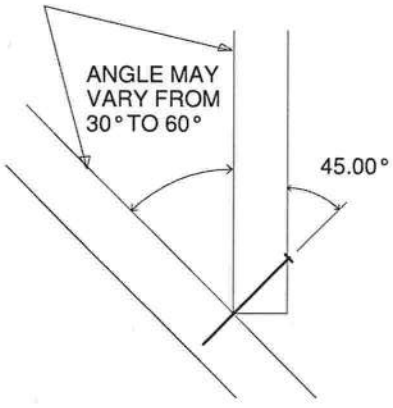


SIDE VIEW
(2x6)
4 NAILS









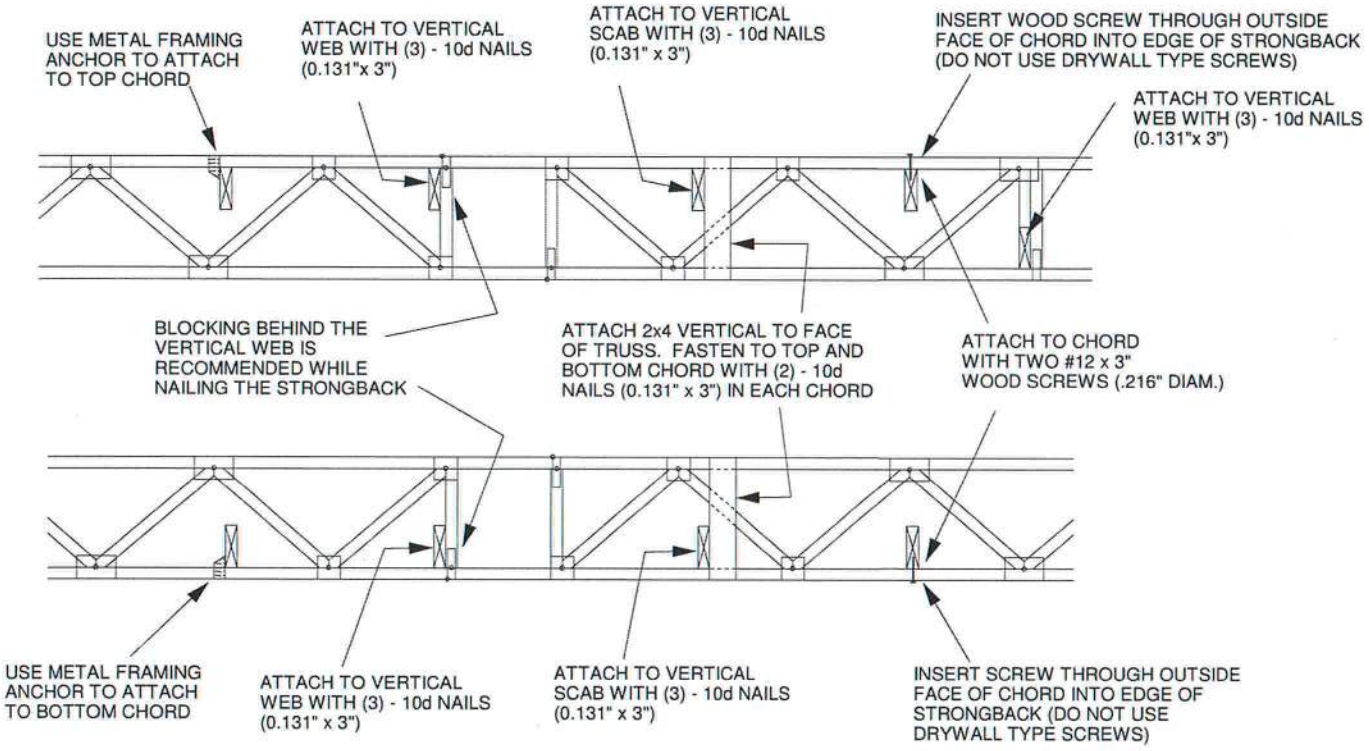
FEBRUARY 8, 2008	LATERAL BRACING RECOMMENDATIONS	ST-STRGBCK

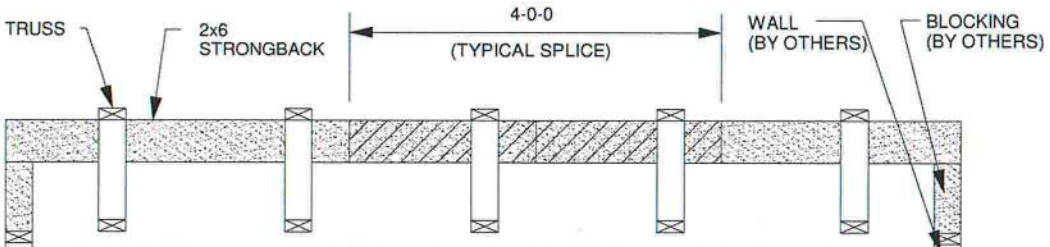
MiTek USA, Inc.

TO MINIMIZE VIBRATION COMMON TO ALL SHALLOW FRAMING SYSTEMS, 2x6 "STRONGBACK" IS RECOMMENDED, LOCATED EVERY 8 TO 10 FEET ALONG A FLOOR TRUSS.

NOTE 1: 2X6 STRONGBACK ORIENTED VERTICALLY MAY BE POSITIONED DIRECTLY UNDER THE TOP CHORD OR DIRECTLY ABOVE THE BOTTOM CHORD. SECURELY FASTENED TO THE TRUSS USING ANY OF THE METHODS ILLUSTRATED BELOW.

NOTE 2: STRONGBACK BRACING ALSO SATISFIES THE LATERAL BRACING REQUIREMENTS FOR THE BOTTOM CHORD OF THE TRUSS WHEN IT IS PLACED ON TOP OF THE BOTTOM CHORD, IS CONTINUOUS FROM END TO END, CONNECTED WITH A METHOD OTHER THAN METAL FRAMING ANCHOR, AND PROPERLY CONNECTED, BY OTHERS, AT THE ENDS.





THE STRONGBACKS SHALL BE SECURED AT THEIR ENDS TO ADEQUATE SUPPORT, DESIGNED BY OTHERS. IF SPLICING IS NECESSARY, USE A 4'-0" LONG SCAB CENTERED ON THE SPLICE AND JOINED WITH (12) - 10d NAILS (0.131" x 3") EQUALLY SPACED.

ALTERNATE METHOD OF SPLICING:
OVERLAP STRONGBACK MEMBERS A MINIMUM OF 4'-0" AND FASTEN WITH (12) - 10d NAILS (0.131" x 3") STAGGERED AND EQUALLY SPACED.
(TO BE USED ONLY WHEN STRONGBACK IS NOT ALIGNED WITH A VERTICAL)

FEBRUARY 14, 2012	STANDARD PIGGYBACK TRUSS CONNECTION DETAIL	ST-PIGGY-7-10

MiTek USA, Inc.

MiTek USA, Inc.

MAXIMUM WIND SPEED = REFER TO NOTES D AND OR E MAX MEAN ROOF HEIGHT = 30 FEET MAX TRUSS SPACING = 24 " O.C. CATEGORY II BUILDING EXPOSURE B or C ASCE 7-10 DURATION OF LOAD INCREASE : 1.60
DETAIL IS NOT APPLICABLE FOR TRUSSES TRANSFERING DRAG LOADS (SHEAR TRUSSES). ADDITIONAL CONSIDERATIONS BY BUILDING ENGINEER/DESIGNER ARE REQUIRED.

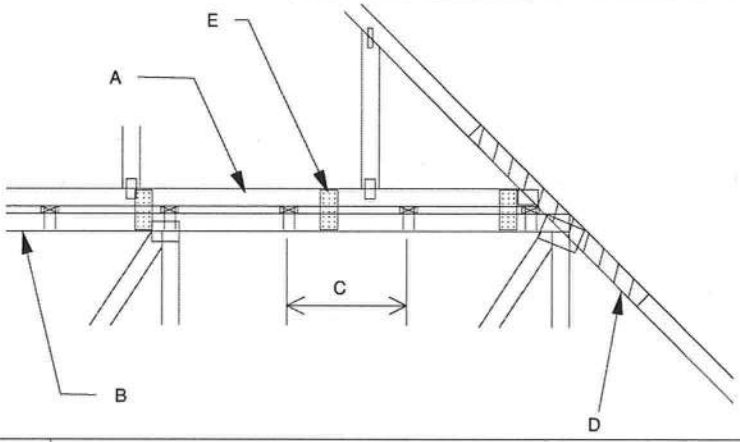
A - PIGGBACK TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING. SHALL BE CONNECTED TO EACH PURLIN WITH (2) 0.131" X 3.5" TOE NAILED.

B - BASE TRUSS, REFER TO MITEK TRUSS DESIGN DRAWING.

C - PURLINS AT EACH BASE TRUSS JOINT AND A MAXIMUM 24" O.C. UNLESS SPECIFIED CLOSER ON MITEK TRUSS DESIGN DRAWING. CONNECT TO BASE TRUSS WITH (2) 0.131" X 3.5" NAILS EACH.

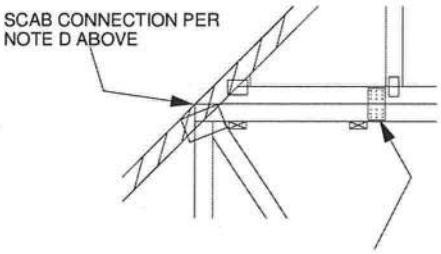
D - 2 X __ X 4'-0" SCAB, SIZE AND GRADE TO MATCH TOP CHORD OF PIGGYBACK TRUSS, ATTACHED TO ONE FACE, CENTERED ON INTERSECTION, WITH (2) ROWS OF 0.131" X 3" NAILS @ 4" O.C. SCAB MAY BE OMITTED PROVIDED THE TOP CHORD SHEATHING IS CONTINUOUS OVER INTERSECTION AT LEAST 1 FT. IN BOTH DIRECTIONS AND:
1. WIND SPEED OF 115 MPH OR LESS FOR ANY PIGGYBACK SPAN, OR
2. WIND SPEED OF 116 MPH TO 160 MPH WITH A MAXIMUM PIGGYBACK SPAN OF 12 ft.

E - FOR WIND SPEEDS BETWEEN 126 AND 160 MPH, ATTACH MITEK 3X8 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 72" O.C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES. ENSURE 0.5" EDGE DISTANCE. (MIN. 2 PAIRS OF PLATES REQ. REGARDLESS OF SPAN)

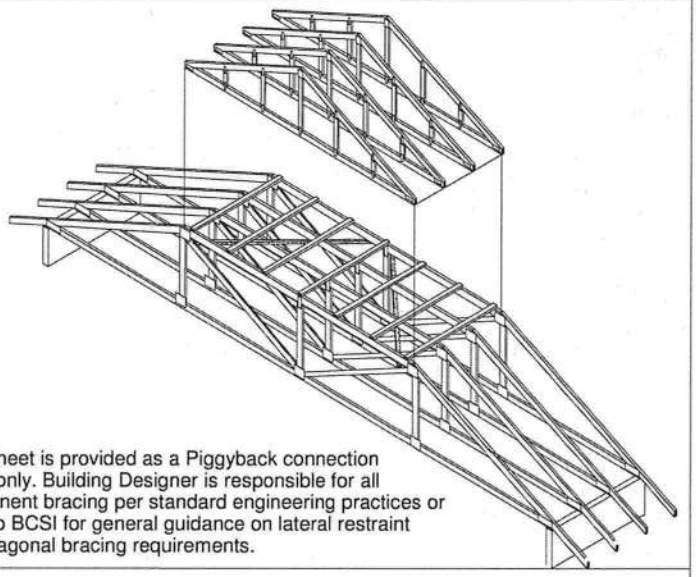


WHEN NO GAP BETWEEN PIGGYBACK AND BASE TRUSS EXISTS:

REPLACE TOE NAILING OF PIGGYBACK TRUSS TO PURLINS WITH Nail-On PLATES AS SHOWN, AND INSTALL PURLINS TO BOTTOM EDGE OF BASE TRUSS TOP CHORD AT SPECIFIED SPACING SHOWN ON BASE TRUSS MITEK DESIGN DRAWING.

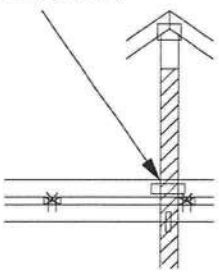


FOR ALL WIND SPEEDS, ATTACH MITEK 3X6 20 GA Nail-On PLATES TO EACH FACE OF TRUSSES AT 48" O.C. W/ (4) 0.131" X 1.5" PER MEMBER. STAGGER NAILS FROM OPPOSING FACES ENSURE 0.5" EDGE DISTANCE.



This sheet is provided as a Piggyback connection detail only. Building Designer is responsible for all permanent bracing per standard engineering practices or refer to BCSI for general guidance on lateral restraint and diagonal bracing requirements.

VERTICAL WEB TO EXTEND THROUGH BOTTOM CHORD OF PIGGYBACK

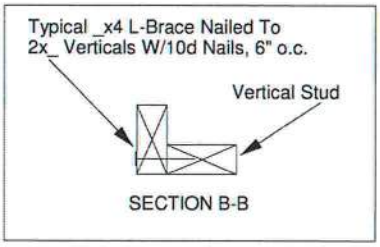


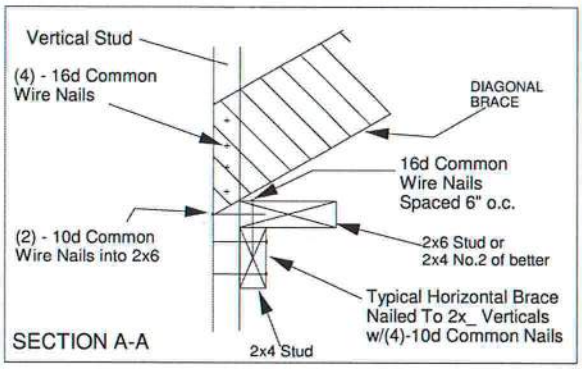
FOR LARGE CONCENTRATED LOADS APPLIED TO CAP TRUSS REQUIRING A VERTICAL WEB:

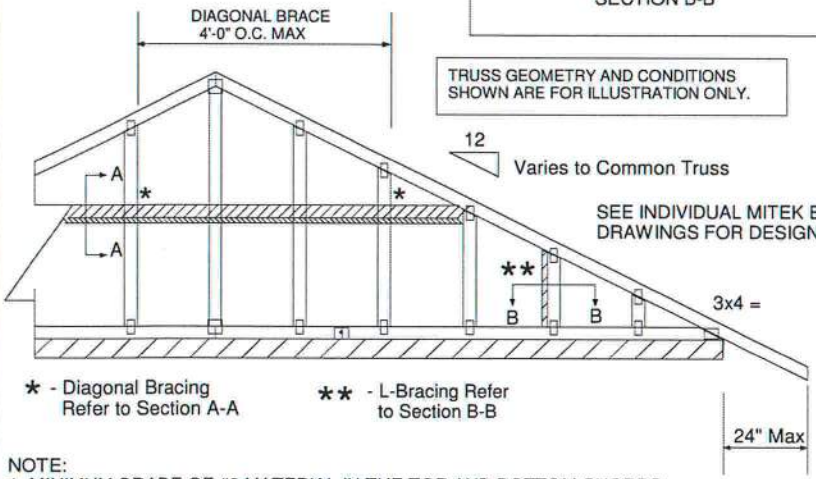
1) VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS MUST MATCH IN SIZE, GRADE, AND MUST LINE UP AS SHOWN IN DETAIL.
2) ATTACH 2 x ___ x 4'-0" SCAB TO EACH FACE OF TRUSS ASSEMBLY WITH 2 ROWS OF 10d (0.131" X 3") NAILS SPACED 4" O.C. FROM EACH FACE. (SIZE AND GRADE TO MATCH VERTICAL WEBS OF PIGGYBACK AND BASE TRUSS.) (MINIMUM 2X4)
3) THIS CONNECTION IS ONLY VALID FOR A MAXIMUM CONCENTRATED LOAD OF 4000 LBS (@1.15). REVIEW BY A QUALIFIED ENGINEER IS REQUIRED FOR LOADS GREATER THAN 4000 LBS.
4) FOR PIGGYBACK TRUSSES CARRYING GIRDER LOADS, NUMBER OF PLYS OF PIGGYBACK TRUSS TO MATCH BASE TRUSS.
5) CONCENTRATED LOAD MUST BE APPLIED TO BOTH THE PIGGYBACK AND THE BASE TRUSS DESIGN.

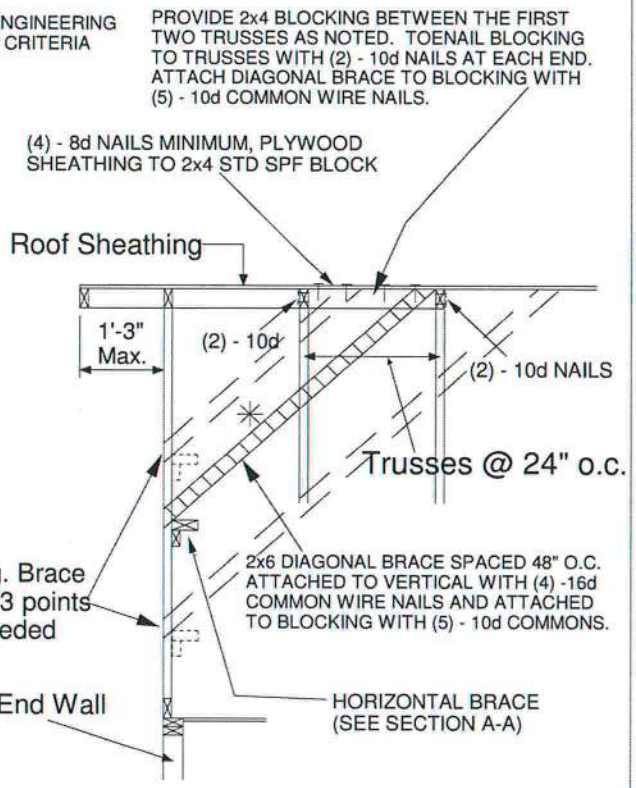
FEBRUARY 14, 2012	Standard Gable End Detail	ST-GE130-001

MiTek USA, Inc.









NOTE:
1. MINIMUM GRADE OF #2 MATERIAL IN THE TOP AND BOTTOM CHORDS.
2. CONNECTION BETWEEN BOTTOM CHORD OF GABLE END TRUSS AND WALL TO BE PROVIDED BY PROJECT ENGINEER OR ARCHITECT.
3. BRACING SHOWN IS FOR INDIVIDUAL TRUSS ONLY. CONSULT BLDG. ARCHITECT OR ENGINEER FOR TEMPORARY AND PERMANENT BRACING OF ROOF SYSTEM.
4. "L" BRACES SPECIFIED ARE TO BE FULL LENGTH. GRADES: 1x4 SRB OR 2x4 STUD OR BETTER WITH ONE ROW OF 10d NAILS SPACED 6" O.C.
5. DIAGONAL BRACE TO BE APPROXIMATELY 45 DEGREES TO ROOF DIAPHRAM AT 4'-0" O.C.
6. CONSTRUCT HORIZONTAL BRACE CONNECTING A 2x6 STUD AND A 2x4 STUD AS SHOWN WITH 16d NAILS SPACED 6" O.C. HORIZONTAL BRACE TO BE LOCATED AT THE MIDSPAN OF THE LONGEST STUD. ATTACH TO VERTICAL STUDS WITH (4) 10d NAILS THROUGH 2x4. (REFER TO SECTION A-A)
7. GABLE STUD DEFLECTION MEETS OR EXCEEDS L/240.
8. THIS DETAIL DOES NOT APPLY TO STRUCTURAL GABLES.
9. DO NOT USE FLAT BOTTOM CHORD GABLES NEXT TO SCISSOR TYPE TRUSSES.

Minimum Stud Size Species and Grade	Stud Spacing	Without Brace	1x4 L-Brace	2x4 L-Brace	DIAGONAL BRACE	2 DIAGONAL BRACES AT 1/3 POINTS
		Maximum Stud Length				
2x4 SPF Std/Stud	12" O.C.	4-0-7	4-3-2	6-0-4	8-0-15	12-1-6
2x4 SPF Std/Stud	16" O.C.	3-7-0	3-8-4	5-2-10	7-1-15	10-8-15
2x4 SPF Std/Stud	24" O.C.	2-11-1	3-0-2	4-3-2	5-10-3	8-9-4

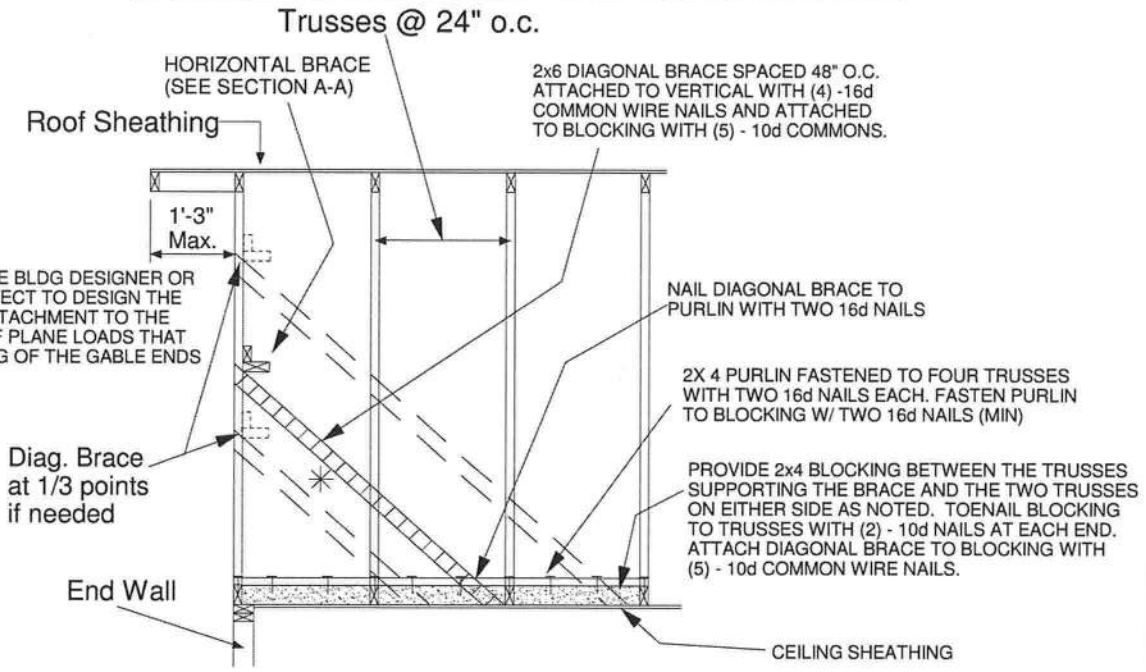
✳ Diagonal braces over 6'-3" require a 2x4 T-Brace attached to one edge. Diagonal braces over 12'-6" require 2x4 I-braces attached to both edges. Fasten T and I braces to narrow edge of web with 10d common wire nails 8in o.c., with 3in minimum end distance. Brace must cover 90% of diagonal length.

MAX MEAN ROOF HEIGHT = 30 FEET
CATEGORY II BUILDING
EXPOSURE B or C
ASCE 7-98, ASCE 7-02, ASCE 7-05 130 MPH
ASCE 7-10 160 MPH
DURATION OF LOAD INCREASE : 1.60

STUD DESIGN IS BASED ON COMPONENTS AND CLADDING.
CONNECTION OF BRACING IS BASED ON MWFRS.

MiTek USA, Inc.

ALTERNATE DIAGONAL BRACING TO THE BOTTOM CHORD



BRACING REQUIREMENTS FOR STRUCTURAL GABLE TRUSSES

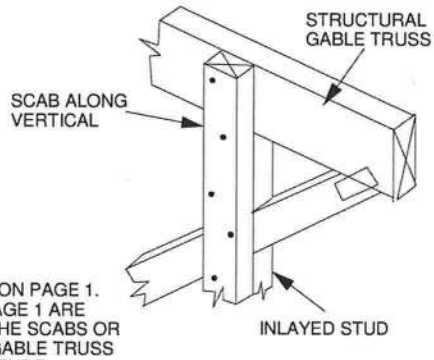
STRUCTURAL GABLE TRUSSES MAY BE BRACED AS NOTED:

METHOD 1 : ATTACH A MATCHING GABLE TRUSS TO THE INSIDE FACE OF THE STRUCTURAL GABLE AND FASTEN PER THE FOLLOWING NAILING SCHEDULE.

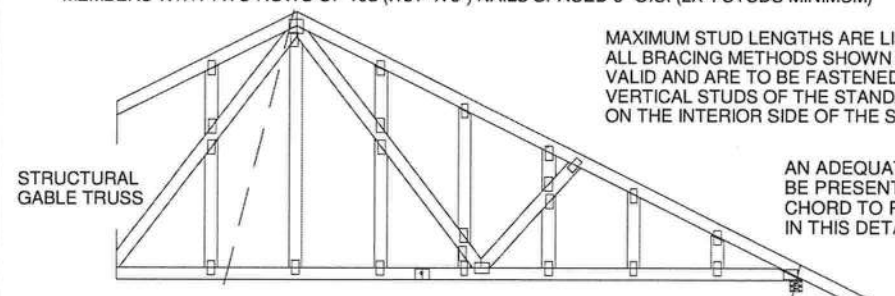
METHOD 2 : ATTACH 2X _ SCABS TO THE FACE OF EACH VERTICAL MEMBER ON THE STRUCTURAL GABLE PER THE FOLLOWING NAILING SCHEDULE. SCABS ARE TO BE OF THE SAME SIZE, GRADE AND SPECIES AS THE TRUSS VERTICALS

NAILING SCHEDULE:

- FOR WIND SPEEDS 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) OR LESS, NAIL ALL MEMBERS WITH ONE ROW OF 10d (.131" X 3") NAILS SPACED 6" O.C.
- FOR WIND SPEEDS GREATER 120 MPH (ASCE 7-98, 02, 05), 150 MPH (ASCE 7-10) NAIL ALL MEMBERS WITH TWO ROWS OF 10d (.131" X 3") NAILS SPACED 6" O.C. (2X 4 STUDS MINIMUM)

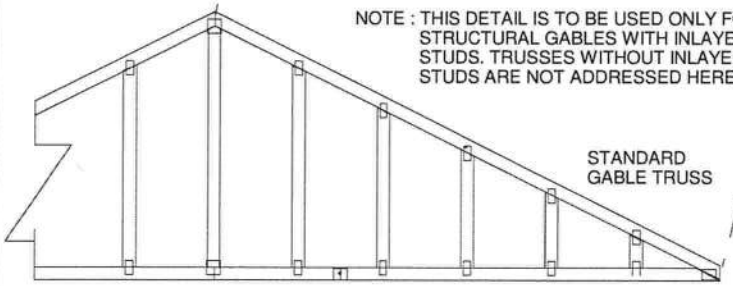


MAXIMUM STUD LENGTHS ARE LISTED ON PAGE 1. ALL BRACING METHODS SHOWN ON PAGE 1 ARE VALID AND ARE TO BE FASTENED TO THE SCABS OR VERTICAL STUDS OF THE STANDARD GABLE TRUSS ON THE INTERIOR SIDE OF THE STRUCTURE.

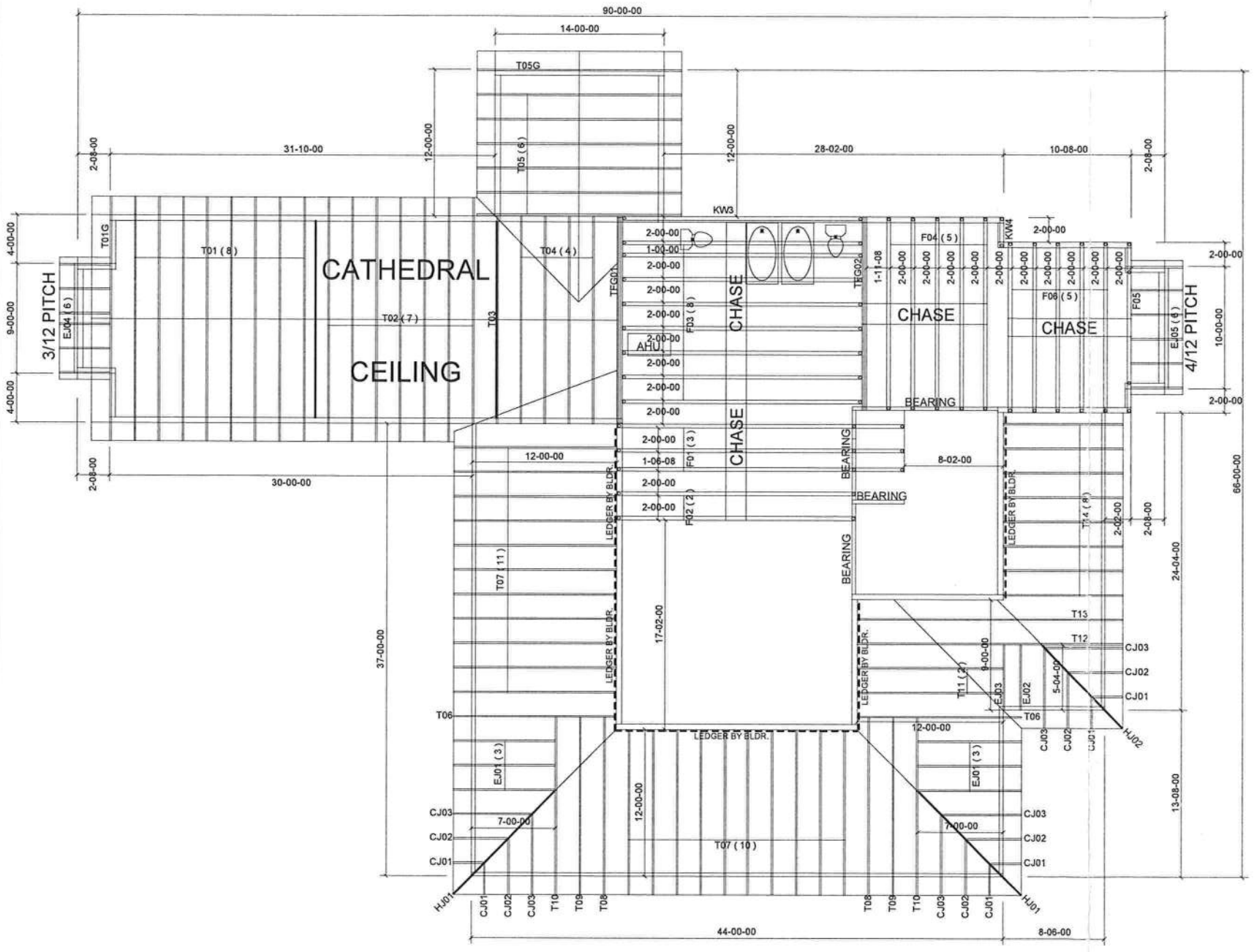


AN ADEQUATE DIAPHRAGM OR OTHER METHOD OF BRACING MUST BE PRESENT TO PROVIDE FULL LATERAL SUPPORT OF THE BOTTOM CHORD TO RESIST ALL OUT OF PLANE LOADS. THE BRACING SHOWN IN THIS DETAIL IS FOR THE VERTICAL/STUDS ONLY.

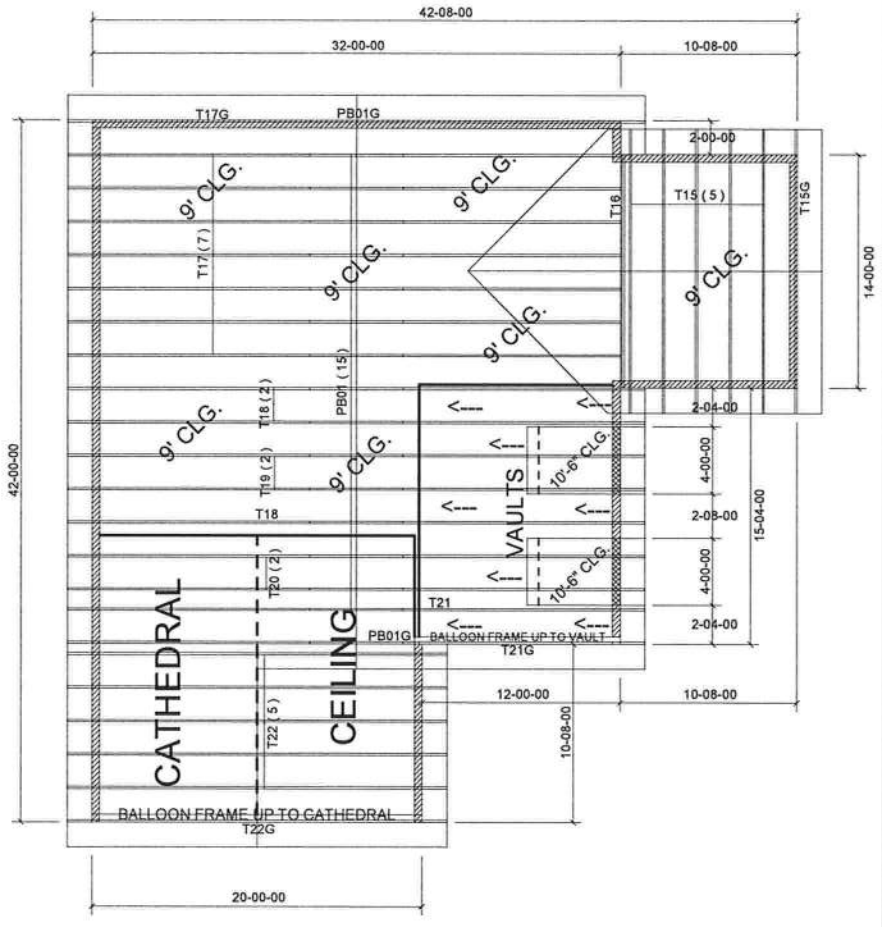
NOTE : THIS DETAIL IS TO BE USED ONLY FOR STRUCTURAL GABLES WITH INLAYED STUDS. TRUSSES WITHOUT INLAYED STUDS ARE NOT ADDRESSED HERE.



8/12 PITCH - 18" O/H



3/12 PITCH PORCHES



BEARING HEIGHT SCHEDULE

- 9' 1-1/8"
- 10' 1-1/8"
- 10' 7-1/8"

NOTES:

1) REFER TO HIB 91 (RECOMMENDATIONS FOR HANDLING INSTALLATION AND TEMPORARY BRACING) REFER TO ENGINEERED DRAWINGS FOR PERMANENT BRACING REQUIRED.

2.) ALL TRUSSES (INCLUDING TRUSSES UNDER VALLEY FRAMING) MUST BE COMPLETELY DECKED OR REFER TO DETAIL V105 FOR ALTERNATE BRACING REQUIREMENTS.

3.) ALL VALLEYS ARE TO BE CONVENTIONALLY FRAMED BY BUILDER.

4.) ALL TRUSSES ARE DESIGNED FOR 2' o.c. MAXIMUM SPACING, UNLESS OTHERWISE NOTED.

5.) ALL WALLS SHOWN ON PLACEMENT PLAN ARE CONSIDERED TO BE LOAD BEARING, UNLESS OTHERWISE NOTED.

6.) SY42 TRUSSES MUST BE INSTALLED WITH THE TOP BEING UP.

7.) BEAM/HEADER/LINTEL (HDR) TO BE FURNISHED BY BUILDER.

Builders FirstSource

Jacksonville
PHONE: 904-772-6100 FAX: 904-772-1973

Tampa
PHONE: 813-621-9831 FAX: 813-628-8956

Freeport
PHONE: 850-835-4541 FAX: 850-835-6835

BUILDER: BRIAN PAPKA

LEGAL ADDRESS:

MODEL:		Revision:
CUSTOM		Rev. By:
DATE: 7-10-17	DRAWN BY: KLH	Original Reference #: 1120836
1st Level Job #:	2nd Level Job #:	Roof Job #: 1120836

MITEK PLATE APPROVAL #'s 2197.2 - 2197.4, LP PRODUCT #'s LVL #15228-R3 & LPI #15401-R4