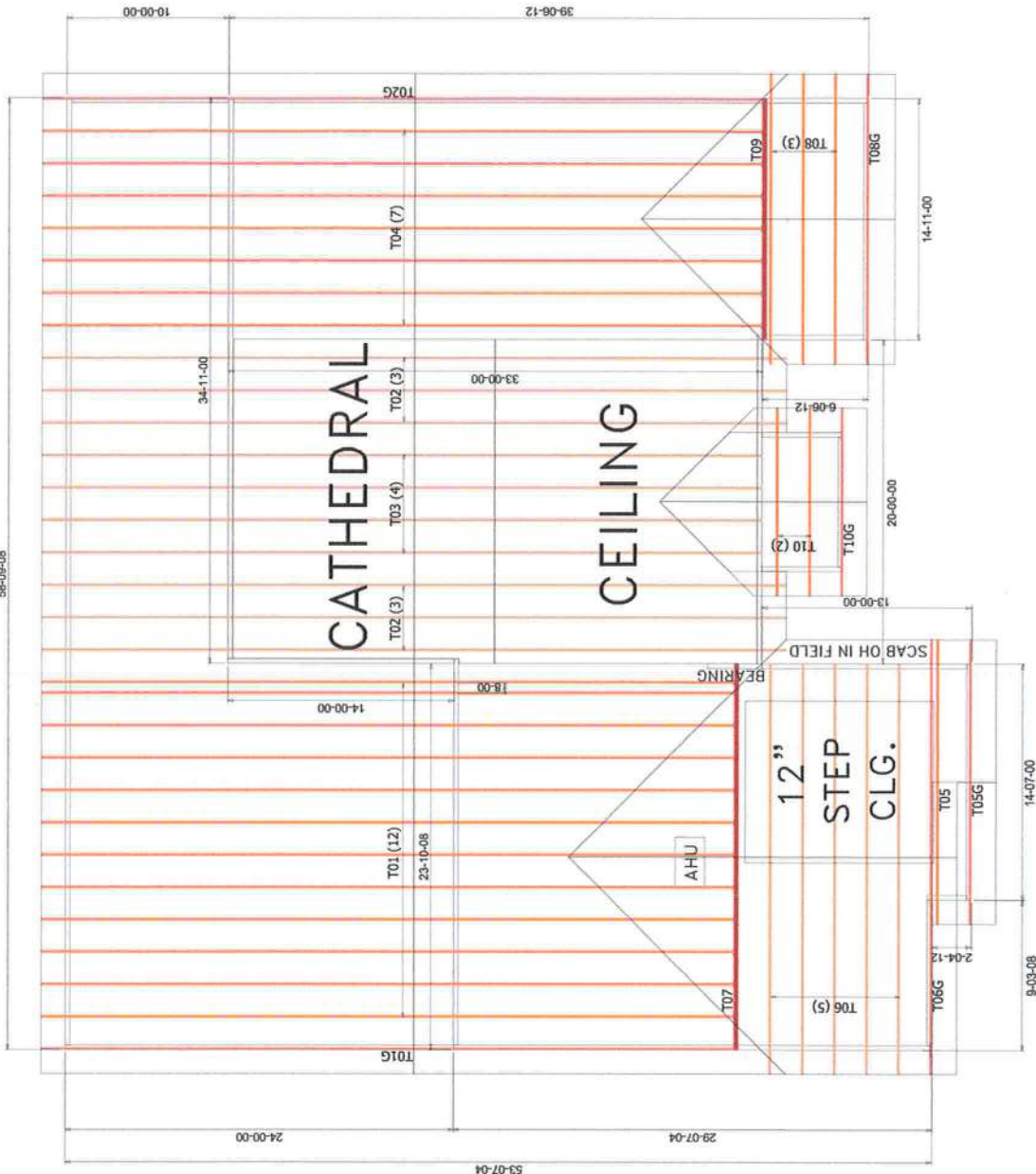


58-09-08



Summations of limited excerpts of the Code, ANSI/TPI 1-2014, and BCSI, and associated commentary, are provided within the truss submittal package in the Builders FirstSource Component Truss Responsibility and Liability Disclosure. These critical excerpts include, among other elements, critical safety information as well as specific Scope-of-Work assumptions (and limitations of the same) for the Owner, Contractor, Building Designer, Truss Designer, and Truss Manufacturer. It is essential that ALL parties to the design and use of the Trusses review and become familiar with the information provided in the Builders FirstSource Component Truss Responsibility and Liability Disclosure, as well as the referenced sources, prior to performing work on the associated project.

IMPORTANT

THIS DRAWING MUST BE APPROVED AND RETURNED BEFORE FABRICATION WILL BEGIN. FOR YOUR PROTECTION CHECK ALL DIMENSIONS AND CONDITIONS PRIOR TO APPROVAL OF PLAN.
SIGNATURE BELOW INDICATES ALL NOTES AND DIMENSIONS WERE BEEN ACCEPTED.

0

FINAL LAYOUT FOR PRODUCTION

Initial _____ Date _____
Requested Delivery Date: _____

[illegible]

ROOF PITCH: 5/12
CEILING PITCH: FLAT
TOP CHORD SIZE: 2 X 4
BOTTOM CHORD SIZE: 2 X 4
OVERHANG LENGTH: 18"
END CUT: PLUMB
CANTILEVER: N/A
TRUSS SPACING: 24"
BUILDING CODE: FBC 2023

BEARING HEIGHT SCHEDULE

BUILDER:	JEFF JOHNSON	
MODEL:	CLAYTON RES	
LEV:		
ADDRESS:		TBD
LOT / BLOCK:		N/A
SUBDIVISION:	CLAYTON RES	
CITY:	Lake City	
DRAWN BY:	Holloway, Kim	
SHEET NO:		4328152
DATE:	11/6/2024	SCALE: N.T.S.

REVIEWS





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

RE: 4228150 - CLAYTON RES.

Site Information:

Customer Info: CLAYTON Project Name: Clayton Res. Model: Custom
Lot/Block: N/A Subdivision: N/A
Address: TBD, TBD
City: Columbia Cty State: FL

MiTek, Inc.

16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200

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

Name: License #:
Address: State:
City:

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

Design Code: FBC2023/TPI2014 Design Program: MiTek 20/20 8.7
Wind Code: ASCE 7-22 Wind Speed: 130 mph
Roof Load: 37.0 psf Floor Load: N/A psf

This package includes 16 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.

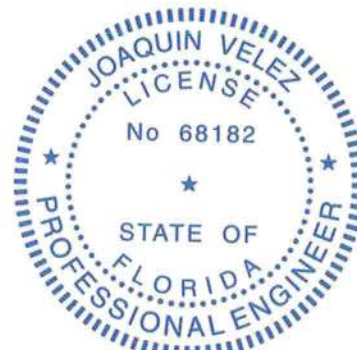
No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	T35476962	T01	11/6/24	15	T35476976	T10	11/6/24
2	T35476963	T01G	11/6/24	16	T35476977	T10G	11/6/24
3	T35476964	T02	11/6/24				
4	T35476965	T02G	11/6/24				
5	T35476966	T03	11/6/24				
6	T35476967	T04	11/6/24				
7	T35476968	T05	11/6/24				
8	T35476969	T05G	11/6/24				
9	T35476970	T06	11/6/24				
10	T35476971	T06G	11/6/24				
11	T35476972	T07	11/6/24				
12	T35476973	T08	11/6/24				
13	T35476974	T08G	11/6/24				
14	T35476975	T09	11/6/24				



This item has been digitally signed and sealed by Velez, Joaquin, PE on the date adjacent to the seal.
Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

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

Truss Design Engineer's Name: Velez, Joaquin
My license renewal date for the state of Florida is February 28, 2025.



Joaquin Velez PE No. 68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd. Chesterfield, MO 63017
Date:

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

November 6, 2024

Velez, Joaquin

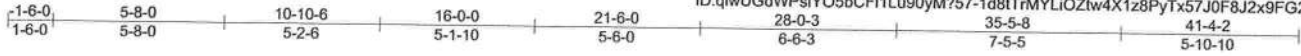
1 of 1

Job 4228150	Truss T01	Truss Type Common	Qty 12	Ply 1	CLAYTON RES.	T35476962
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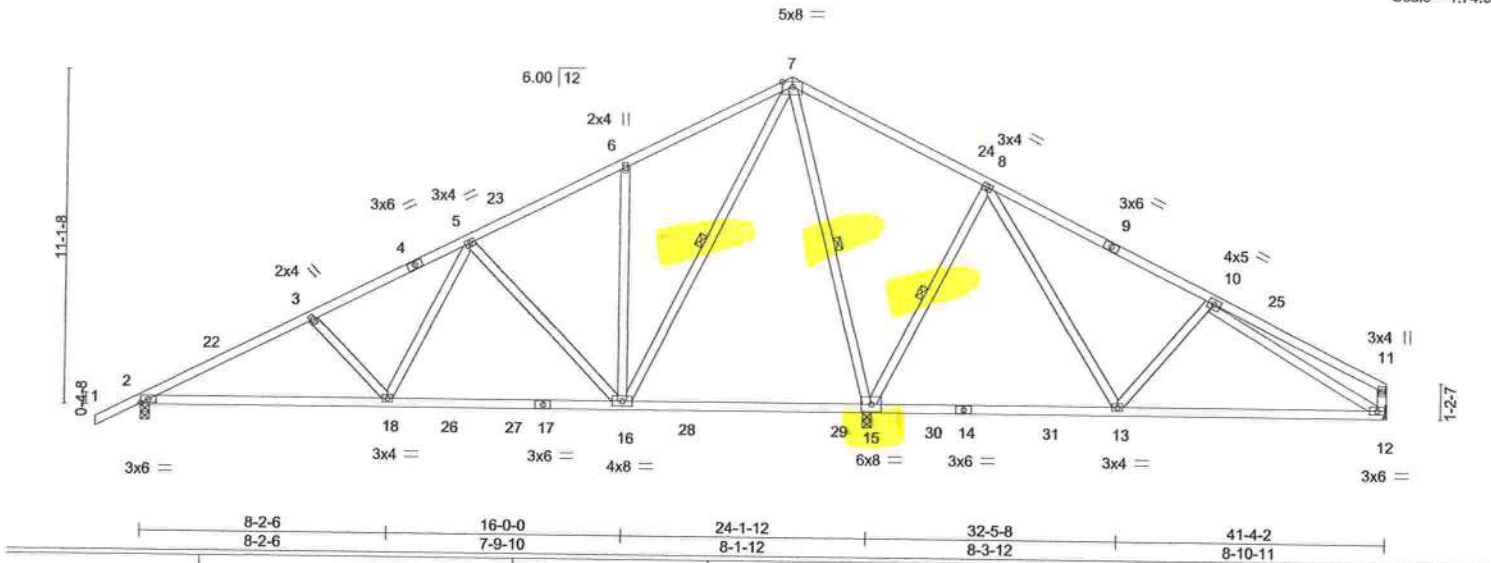
Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:33:57 2024 Page 1
ID:qlwUGdWPsiYO5bCF1Lu90yM?57-1d8ITrMYLiOZtw4X1z8PyTx57J0F8J2x9FG23zyLye

Job Reference (optional)



Scale = 1:74.5



LOADING (psf)	SPACING-	CSL	DEFL	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.66	Vert(LL) 0.15 18-21 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.89	Vert(CT) -0.27 12-13 >754 180		
BCDL 10.0	Rep Stress Incr YES	Matrix-MS	Horz(CT) 0.02 15 n/a n/a		
	Code FBC2023/TPI2014			Weight: 246 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 4-10-4 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 7-16, 7-15, 8-15

REACTIONS.

(size) 2=0-3-8, 15=0-3-8, 12=Mechanical
Max Horz 2=289(LC 12)
Max Uplift 2=389(LC 9), 15=745(LC 12), 12=-189(LC 13)
Max Grav 2=848(LC 27), 15=2302(LC 2), 12=442(LC 26)

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

TOP CHORD 2-3=-1255/886, 3-5=-1094/839, 5-6=-399/395, 6-7=-411/534, 7-8=-202/685, 8-10=-305/199
BOT CHORD 2-18=-749/1101, 16-18=-408/706, 15-16=-230/342, 13-15=-317/363, 12-13=-144/388
WEBS 3-18=-292/273, 5-18=-422/549, 5-16=-552/455, 6-16=-311/306, 7-16=-931/1094, 7-15=-1394/909, 8-15=-650/496, 8-13=-231/640, 10-13=-331/331, 10-12=-313/164

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-7-10, Zone1 2-7-10 to 21-6-0, Zone2 21-6-0 to 27-4-3, Zone1 27-4-3 to 41-2-6 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 389 lb uplift at joint 2, 745 lb uplift at joint 15 and 189 lb uplift at joint 12.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 6, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomp.com)

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Chesterfield, MO 63017
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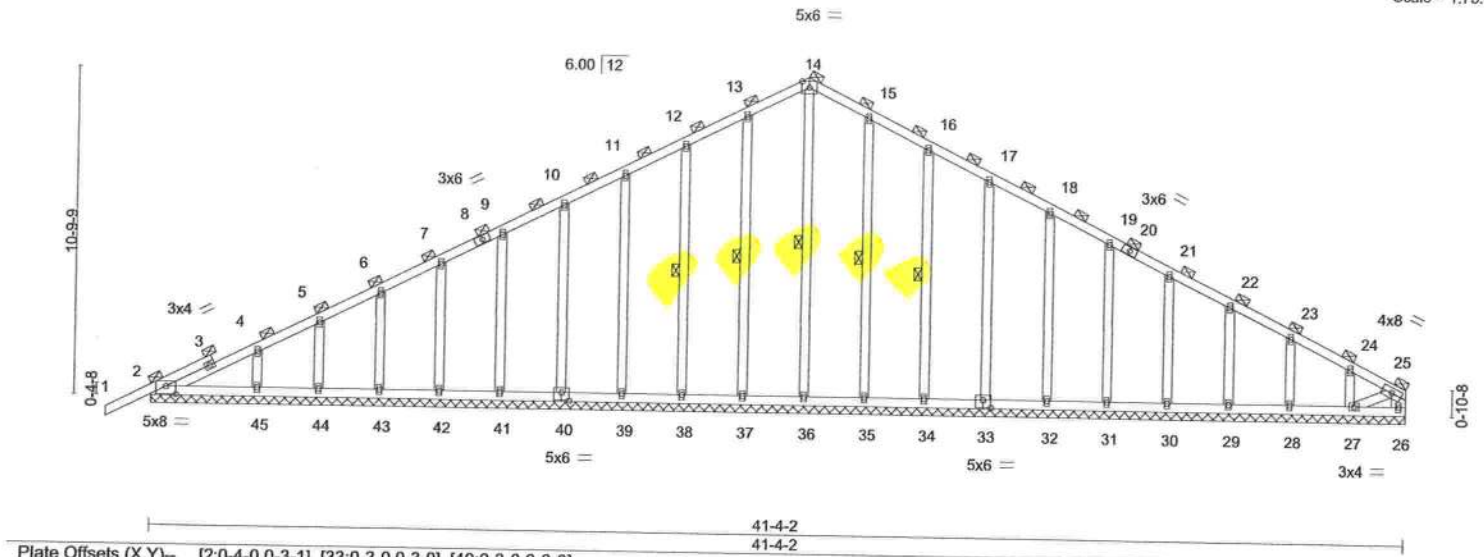
Job 4228150	Truss T01G	Truss Type GABLE	Qty 1	Ply 1	CLAYTON RES.	T35476963
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:33:58 2024 Page 1

ID:qlwUGdWPsiYO5bCF1Lu90yM?57-VpiFgBNA60WQV4fjbgfeUhUNfjUctw_5Ov?cbPyLyed
41-4-2
19-10-2

Scale = 1:73.8



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.17	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.08	Vert(LL) 0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Vert(CT) -0.00 1 n/r 120		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Horz(CT) 0.01 26 n/a n/a		
				Weight: 294 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x6 SP No.2 *Except*
25-27: 2x4 SP No.3
OTHERS 2x4 SP No.3

BRACING-
TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 14-36, 13-37, 12-38, 15-35, 16-34

REACTIONS. All bearings 41-4-2.
(lb) - Max Horz 2=274(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 37, 38, 39, 40, 41, 42, 43, 44, 35, 33, 32, 31, 30, 29, 28
except 45=100(LC 12), 34=102(LC 13), 27=177(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 26, 2, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 35, 34, 33,
32, 31, 30, 29, 28, 27

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=299/97, 11-12=95/289, 12-13=117/363, 13-14=137/426, 14-15=137/426,
15-16=117/363, 16-17=95/289
WEBS 14-36=255/49

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 37, 38, 39, 40, 41, 42, 43, 44, 35, 33, 32, 31, 30, 29, 28 except (jt=lb) 45=100, 34=102, 27=177.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 6, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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Chesterfield, MO 63017
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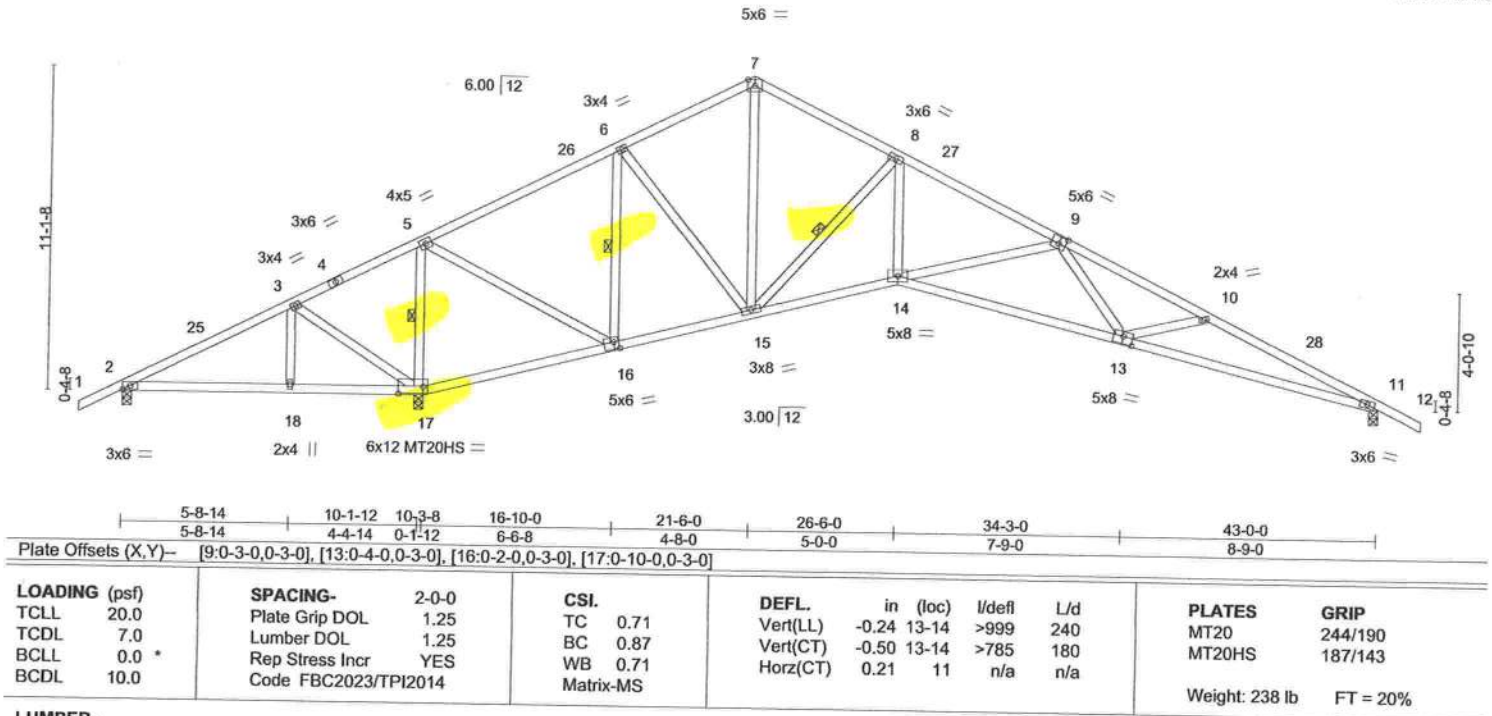
Job 4228150	Truss T02	Truss Type Roof Special	Qty 6	Ply 1	CLAYTON RES.	T35476964
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

Job Reference (optional)

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:33:58 2024 Page 1
ID:qlwUGdWPsiYO5bCF11Lu90yM?757-VpiFgBNA60WQV4fjbgfeUeHjIAtnA5Ov?cbPyLyed

Scale = 1:77.0



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

BRACING-
TOP CHORD
BOT CHORD
WEBS

Structural wood sheathing directly applied or 3-2-14 oc purlins.
Rigid ceiling directly applied or 4-2-7 oc bracing.
1 Row at midpt 5-17, 6-16, 8-15

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 11=0-3-8
Max Horz 2=247(LC 12)
Max Uplift 2=561(LC 26), 17=929(LC 12), 11=479(LC 13)
Max Grav 2=140(LC 13), 17=2723(LC 1), 11=1020(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=424/1520, 3-5=582/1922, 6-7=503/333, 7-8=502/336, 8-9=1520/536,
9-10=2622/1044, 10-11=2992/1288
BOT CHORD 2-18=1292/675, 17-18=1292/675, 16-17=1794/824, 15-16=223/404, 14-15=190/1352,
13-14=620/2123, 11-13=1065/2716
WEBS 3-17=451/445, 5-17=1954/720, 5-16=559/1853, 6-16=1146/424, 6-15=173/749,
8-15=1356/539, 8-14=273/1157, 9-14=771/530, 9-13=173/561, 10-13=340/352

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-9-10, Zone1 2-9-10 to 21-6-0, Zone2 21-6-0 to 27-7-0, Zone1 27-7-0 to 44-6-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=561, 17=929, 11=479.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 6, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinet.org) and BCS Building Component Safety Information available from the Structural Building Component Association (www.sbcsccomponents.com)

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314.434.1200 / mitek-usa.com

Job 4228150	Truss T02G	Truss Type Common Supported Gable	Qty 1	Ply 1	CLAYTON RES. T35476965
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:00 2024 Page 1

ID:qlwUGdWPsiY05bCFH1Lu90yM757-RCp05tORedm8kOp6i5h6Z6Zj8XA4LqJOrDUjftHyLeyb
43-0-0
21-6-0

Scale = 1:74.9

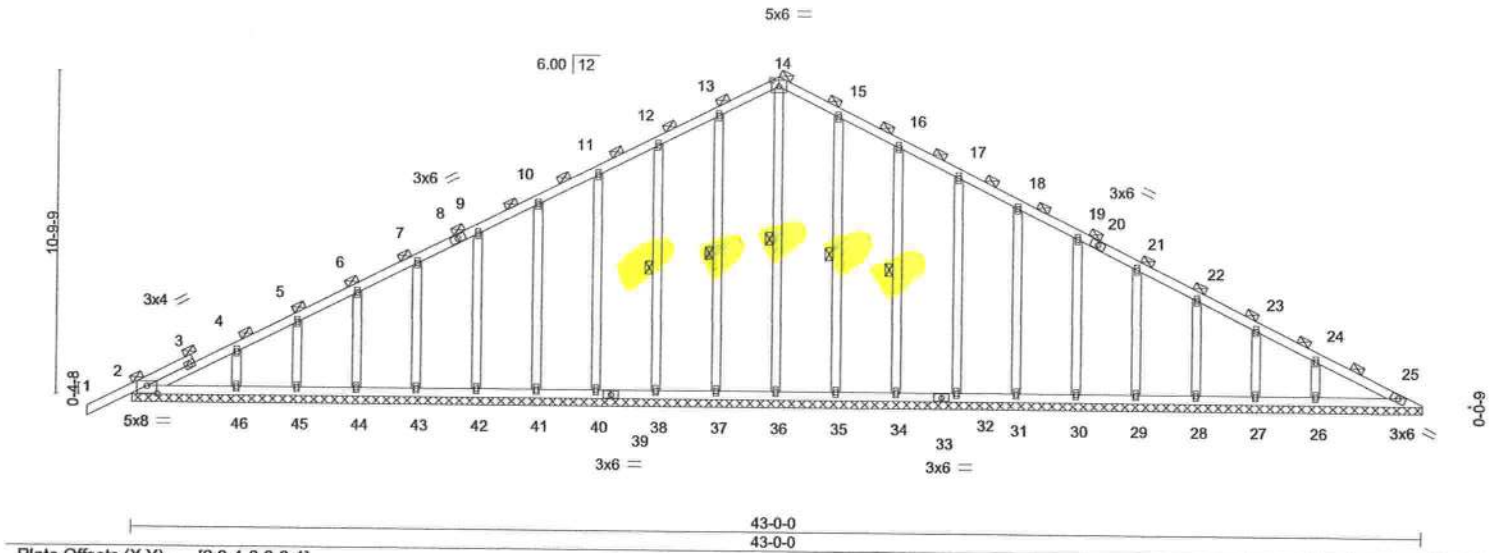


Plate Offsets (X,Y)- [2-0-4-0,0-3-1]		43-0-0 43-0-0	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.17	in (loc) l/defl L/d
TCDL 7.0	Lumber DOL 1.25	BC 0.08	Vert(LL) 0.00 1 n/r 120
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Vert(CT) -0.00 1 n/r 120
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Horz(CT) 0.01 25 n/a n/a
		Weight: 295 lb FT = 20%	

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD 2-0-0 oc purlins (6-0-0 max.).
BOT CHORD 2x4 SP No.2	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS 1 Row at midpt 14-36, 13-37, 12-38, 15-35, 16-34

REACTIONS.	All bearings 43-0-0.
(lb) - Max Horz 2=255(LC 16)	
Max Uplift	All uplift 100 lb or less at joint(s) 2, 37, 38, 40, 41, 42, 43, 44, 45, 35, 32, 31, 30, 29, 28, 27 except 46=101(LC 12), 34=102(LC 13), 26=146(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 2, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 35, 34, 32, 31, 30, 29, 28, 27, 26, 25

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=289/103, 11-12=102/313, 12-13=124/387, 13-14=144/450, 14-15=144/450, 15-16=124/387, 16-17=102/313
WEBS	14-36=275/55

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 37, 38, 40, 41, 42, 43, 44, 45, 35, 32, 31, 30, 29, 28, 27 except (jt=lb) 46=101, 34=102, 26=146.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 6,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpins.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbccscomponents.com)

MiTek®

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Chesterfield, MO 63017
314.434.1260 | mitek-usa.com

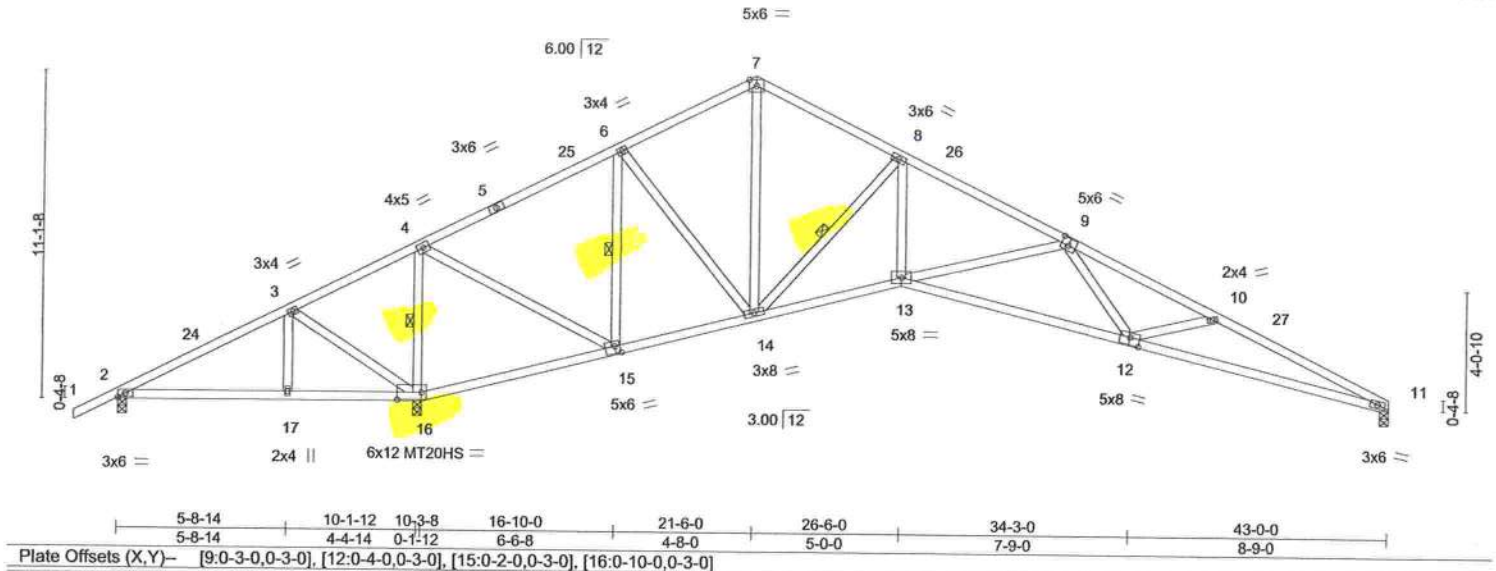
Job 4228150	Truss T03	Truss Type Roof Special	Qty 4	Ply 1	CLAYTON RES.	T35476966
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:00 2024 Page 1
ID:qlwUGdWPsY05bCF11Lu90yM757-RCp05tORedm8kOp6i5h6ZamX_YLhfOrDUjHylYeb

1-6-0 5-8-14 10-3-8 16-10-0 21-6-0 26-6-0 32-0-0 37-0-3 43-0-0
1-6-0 5-8-14 4-6-10 6-6-8 4-8-0 5-0-0 5-6-0 5-0-3 5-11-13

Scale = 1:76.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.25	TC 0.71	Vert(LL) -0.24	12-13	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL 1.25	BC 0.88	Vert(CT) -0.50	12-13	>791	180	MT20HS	187/143
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.21	11	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014	Matrix-MS						
							Weight: 236 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 3-1-1 oc purlins.
BOT CHORD Rigid ceiling directly applied or 4-2-6 oc bracing.
WEBS 1 Row at midpt 4-16, 6-15, 8-14

REACTIONS.

(size) 2=0-3-8, 16=0-3-8, 11=0-3-8
Max Horz 2=263(LC 16)
Max Uplift 2=562(LC 26), 16=941(LC 12), 11=420(LC 13)
Max Grav 2=158(LC 13), 16=2726(LC 1), 11=937(LC 1)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-464/1522, 3-4=-641/1925, 6-7=-505/331, 7-8=-505/332, 8-9=-1528/548,
9-10=-2649/1075, 10-11=-3024/1321
BOT CHORD 2-17=-1294/679, 16-17=-1294/679, 15-16=-1797/829, 14-15=-223/384, 13-14=-226/1359,
12-13=-685/2155, 11-12=-1131/2749
WEBS 3-16=-451/445, 4-16=-1957/759, 4-15=-604/1856, 6-15=-1148/456, 6-14=-189/751,
8-14=-1364/565, 8-13=-295/1159, 9-13=-794/544, 9-12=-176/553, 10-12=-347/355

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-9-10, Zone1 2-9-10 to 21-6-0, Zone2 21-6-0 to 27-7-0, Zone1 27-7-0 to 43-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=562, 16=941, 11=420.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 6, 2024

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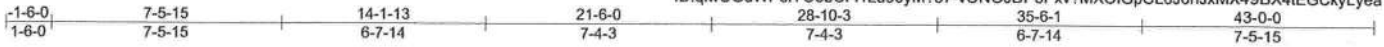
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 4228150	Truss T04	Truss Type Common	Qty 7	Ply 1	CLAYTON RES. T35476967
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:01 2024 Page 1

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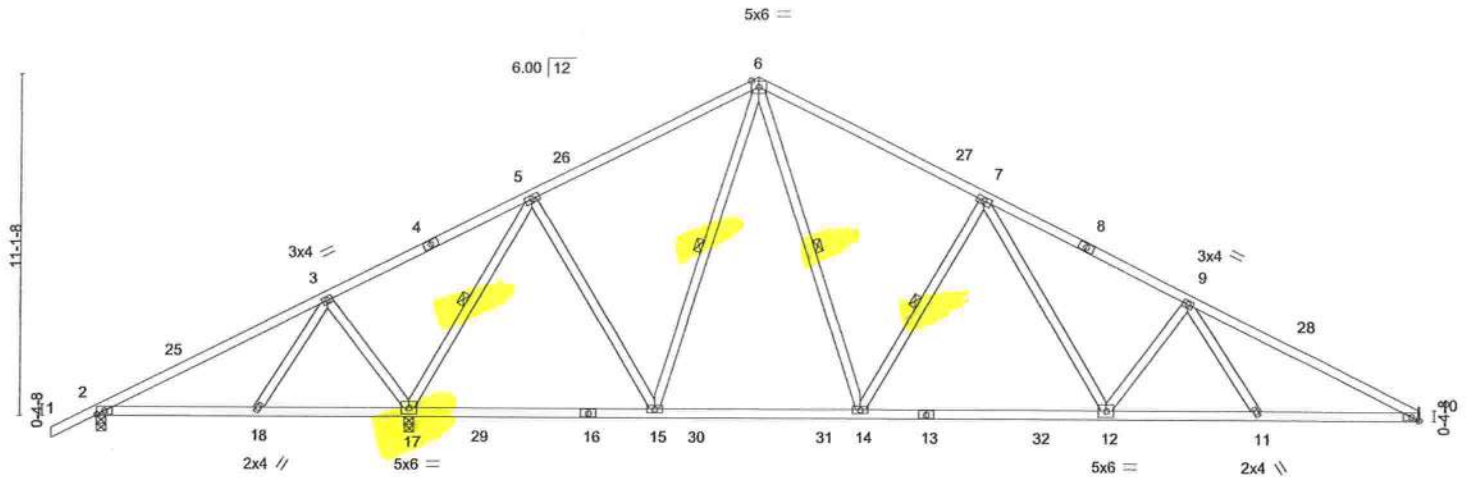


Plate Offsets (X,Y)- [10:0-2-15,Edge]

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 0.59	Vert(LL)	-0.22 12-14	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.77	Vert(CT)	-0.37 12-14	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.05 10	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 244 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 3-2-2 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 6-14, 7-14, 6-15, 5-17

REACTIONS.

(size) 2=0-3-8, 17=0-3-8, 10=Mechanical
Max Horz 2=263(LC 16)
Max Uplift 2=-98(LC 12), 17=-747(LC 12), 10=-485(LC 13)
Max Grav 2=290(LC 25), 17=2217(LC 2), 10=1260(LC 2)

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

TOP CHORD 2-3=-121/363, 3-5=-175/725, 5-6=-835/471, 6-7=-1264/619, 7-9=-1988/825,
9-10=-2349/875
BOT CHORD 2-18=-300/315, 17-18=-411/316, 15-17=-103/397, 14-15=-91/796, 12-14=-357/1389,
11-12=-661/1941, 10-11=-676/2044
WEBS 6-14=-423/953, 7-14=-676/512, 7-12=-270/677, 9-12=-419/353, 6-15=-381/162,
5-15=-127/768, 5-17=-1841/660, 3-17=-442/358

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 2-9-10, Zone1 2-9-10 to 21-6-0, Zone2 21-6-0 to 27-7-0, Zone1 27-7-0 to 43-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 3x6 MT20 unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 17=747, 10=485.

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Chesterfield, MO 63017
Date:

November 6, 2024

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Job 4228150	Truss T05	Truss Type Common	Qty 1	Ply 1	CLAYTON RES.	T35476968
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:02 2024 Page 1
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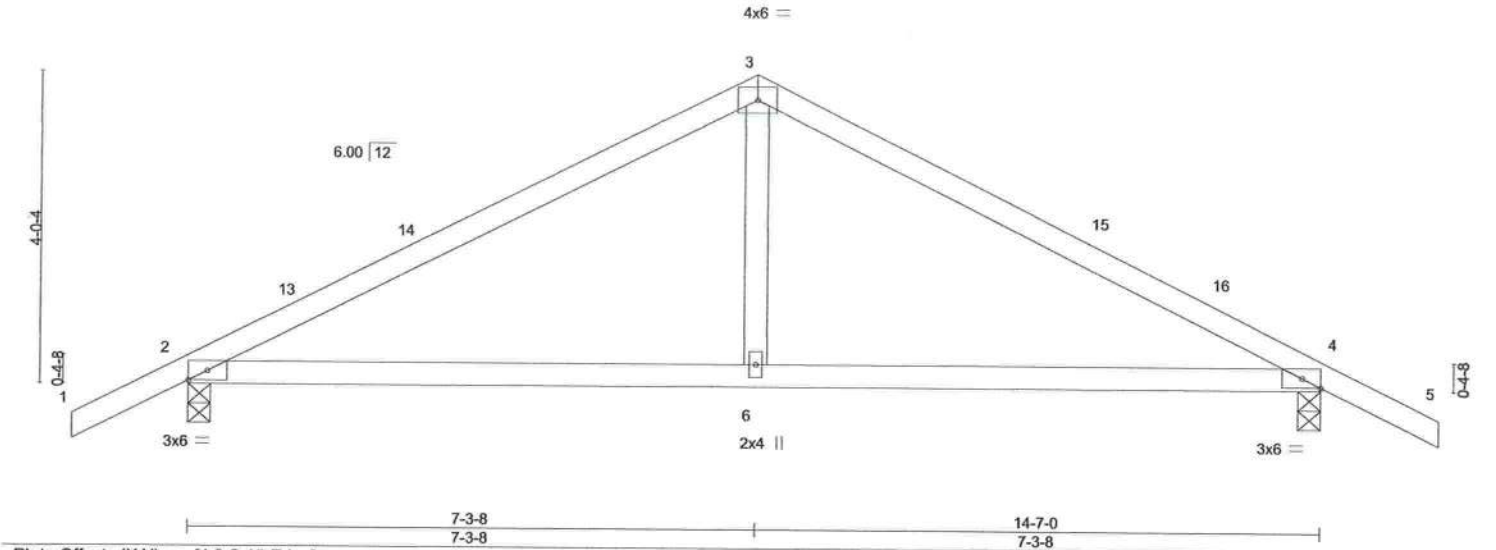
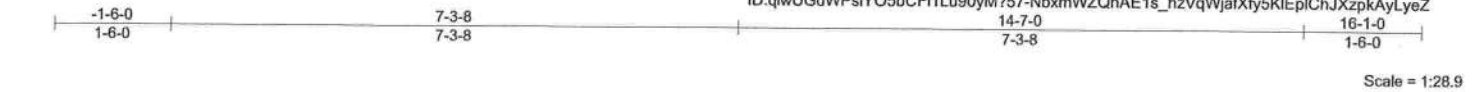


Plate Offsets (X,Y)–		[4:0-2-15,Edge]											
LOADING (psf)		SPACING-	2-0-0		CSI.		DEFL.	in	(loc)	L/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.25		TC 0.59		Vert(LL)	0.11	6-9	>999	240	MT20	244/190
TCDL 7.0		Lumber DOL	1.25		BC 0.55		Vert(CT)	-0.15	6-12	>999	180		
BCLL 0.0 *		Rep Stress Incr	YES		WB 0.13		Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0		Code FBC2023/TPI2014			Matrix-MS							Weight: 56 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x4 SP No.2	BOT CHORD
WEBS 2x4 SP No.3	Structural wood sheathing directly applied or 5-7-3 oc purlins.
	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.	(size) 2=0-3-8, 4=0-3-8
	Max Horz 2=95(LC 12)
	Max Uplift 2=-262(LC 12), 4=-262(LC 13)
	Max Grav 2=621(LC 1), 4=621(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-752/394, 3-4=-752/394
BOT CHORD	2-6=-185/602, 4-6=-185/602
WEBS	3-6=-19/335

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-3-8, Zone2 7-3-8 to 11-6-7, Zone1 11-6-7 to 16-1-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=262, 4=262.

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Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017

Date: November 6, 2024

Job 4228150	Truss T05G	Truss Type Common Supported Gable	Qty 1	Ply 1	CLAYTON RES. T35476969
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:02 2024 Page 1

ID:qlwUGdWPsiYO5bCF11Lu90yM757-NbxmWZQhAE1s_hzVqWjafXf26KsjpmEhJXzpkAyLyeZ

14-7-0 16-1-0
7-3-8 1-6-0

Scale = 1:29.1

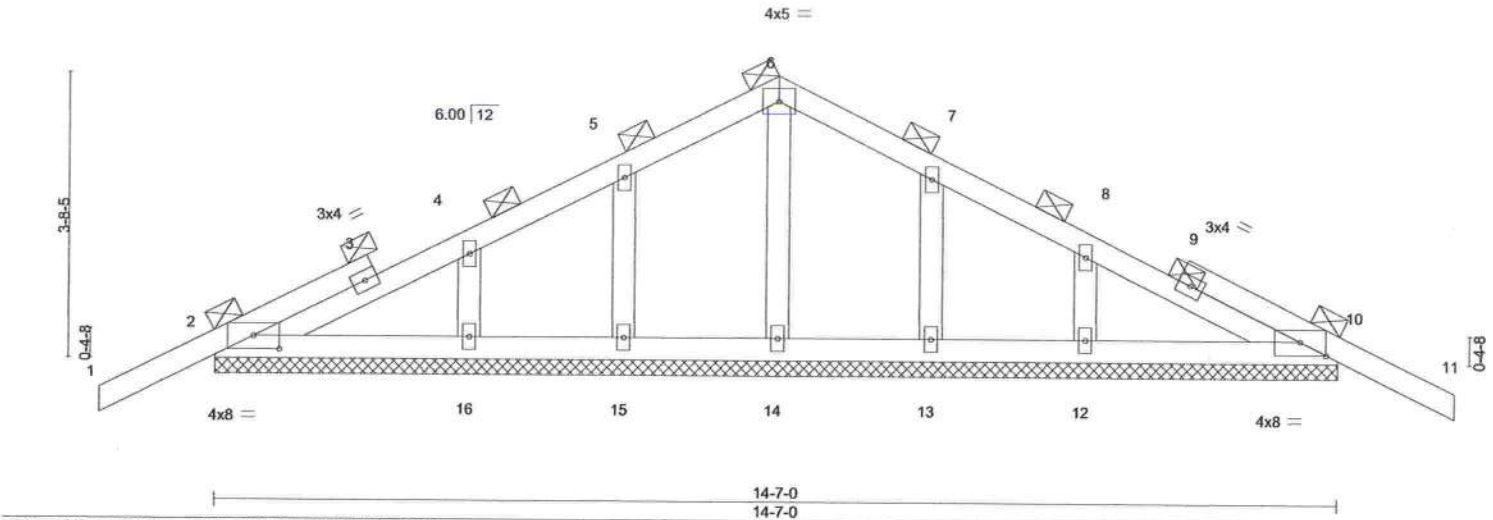


Plate Offsets (X,Y) -		[2-0-4-0,0-2-1], [10-0-4-0,0-2-1]	
LOADING (psf)	SPACING-	CSI.	DEFL.
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.20	in (loc) l/defl L/d
TCDL 7.0	Lumber DOL 1.25	BC 0.07	Vert(LL) -0.00 11 n/r 120
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Vert(CT) -0.01 11 n/r 120
BCDL 10.0	Code FBC2023/TPI2014	Matrix-S	Horz(CT) 0.00 10 n/a n/a
			PLATES GRIP
			MT20 244/190
			Weight: 71 lb FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 14-7-0.
(lb) - Max Horz 2=88(LC 16)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 13 except 10=108(LC 13), 16=112(LC 12), 12=117(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-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 13 except (jt=lb) 10=108, 16=112, 12=117.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Date:

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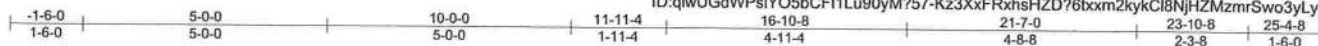
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Job	Truss	Truss Type	Qty	Ply	CLAYTON RES.	T35476971
4228150	T06G	GABLE	1	1		

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8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:04 2024 Page 1

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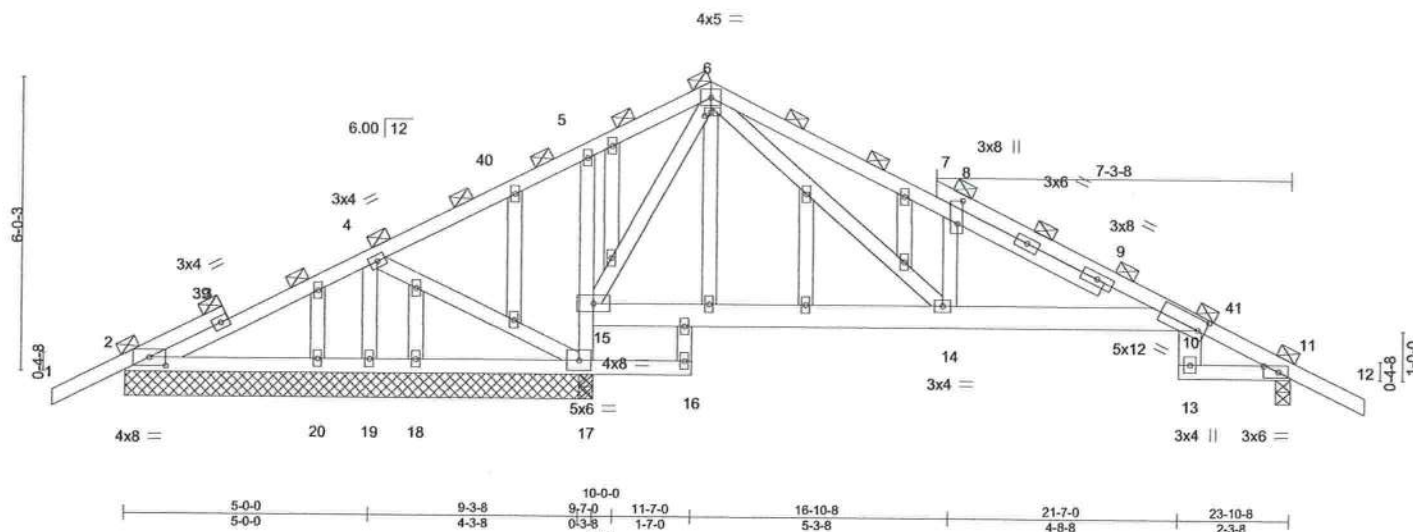


Plate Offsets (X,Y)- [2-0-4-0,0-2-1], [6-0-1-8,0-0-14], [8-0-5-10,0-1-4], [10-0-1-12,0-2-15], [11-0-3-9,Edge]

LOADING (psf)	SPACING-		CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	2-0-0	TC 0.90	Ver(LL)	0.16	10-14	>999	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.74	Ver(CT)	-0.24	10-14	>721		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.47	Horz(CT)	0.06	11	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS						
								Weight: 165 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.2 *Except*
7-12: 2x4 SP No.1
BOT CHORD 2x4 SP No.2 *Except*
10-15,10-13: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
16-21: 2x4 SP No.2
OTHERS 2x4 SP No.3

BRACING-

TOP CHORD 2-0-0 oc purlins (3-9-12 max.).
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
4-4-0 oc bracing: 15-17

REACTIONS.

All bearings 9-7-0 except (jt=length) 11=0-3-8.
(lb) - Max Horz 2=138(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 20 except 11=270(LC 13),
19=370(LC 26), 17=282(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 2, 19, 18, 20, 2 except
11=471(LC 1), 17=1213(LC 1), 17=1213(LC 1)

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

TOP CHORD 2-4=-117/299, 4-5=-64/606, 5-6=-15/649, 6-8=-630/496, 8-10=-579/337,
10-11=-283/193
BOT CHORD 15-17=-1055/347, 10-14=-183/511
WEBS 4-17=-316/113, 6-15=-898/263, 6-14=-482/879, 8-14=-382/344

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 11-11-4, Zone2 11-11-4 to 16-2-3, Zone1 16-2-3 to 25-4-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 20, 2 except (jt=lb) 11=270, 19=370, 17=282.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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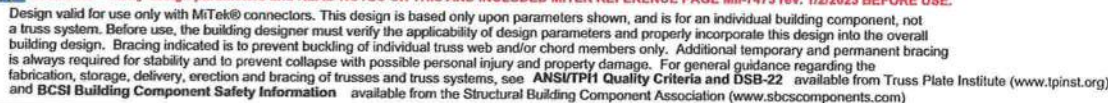
Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 6,2024

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Scale = 1:41.5

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Job	Truss	Truss Type	Qty	Ply	CLAYTON RES.
4228150	T07	Common Girder	1	2	T35476972

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

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:05 2024 Page 2
ID:qlwUGdWPsiYO5bCF11Lu90yM?57-a9dv9aSZS9PQr9h3VeHHG9GXZYro0_E7?VCULVylYeW

LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 10=-422(B) 11=-422(B) 16=-422(B) 17=-422(B) 18=-422(B) 19=-422(B) 20=-422(B) 21=-422(B) 22=-422(B) 23=-422(B) 24=-422(B) 25=-422(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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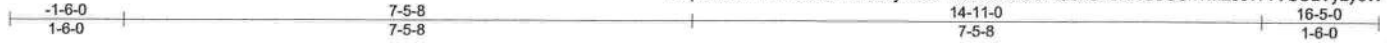
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Job 4228150	Truss T08	Truss Type Common	Qty 3	Ply 1	CLAYTON RES. T35476973
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:05 2024 Page 1

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Scale = 1:29.4

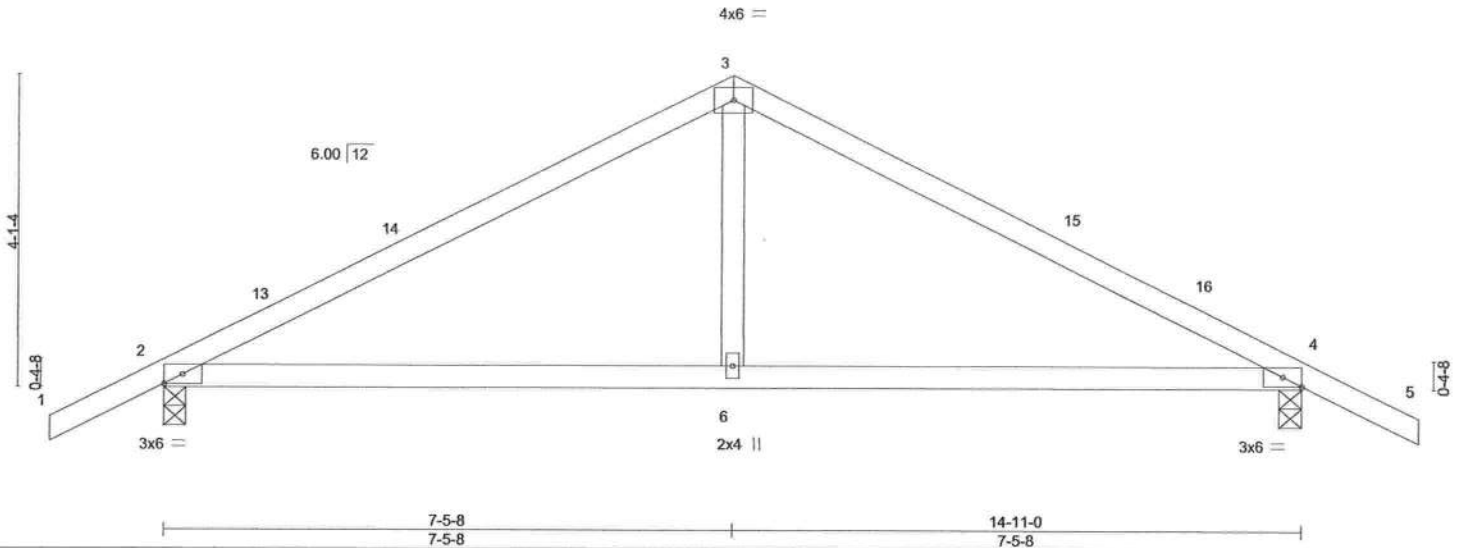


Plate Offsets (X,Y)-- [4:0-2-15,Edge]

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 0.63	Vert(LL)	0.12	6-9	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.57	Vert(CT)	-0.17	6-12	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0	Code FBC2023/TPI2014		Matrix-MS							
									Weight: 58 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 5-4-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(size) 2=0-3-8, 4=0-3-8
Max Horz 2=96(LC 16)
Max Uplift 2=-267(LC 12), 4=-267(LC 13)
Max Grav 2=633(LC 1), 4=633(LC 1)

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

TOP CHORD 2-3=-771/396, 3-4=-771/396
BOT CHORD 2-6=-187/617, 4-6=-187/617
WEBS 3-6=-19/343

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 7-5-8, Zone2 7-5-8 to 11-8-7, Zone1 11-8-7 to 16-5-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=267, 4=267.

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Chesterfield, MO 63017

Date:

November 6,2024

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Job 4228150	Truss T08G	Truss Type Common Supported Gable	Qty 1	Ply 1	CLAYTON RES. T35476974
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:06 2024 Page 1
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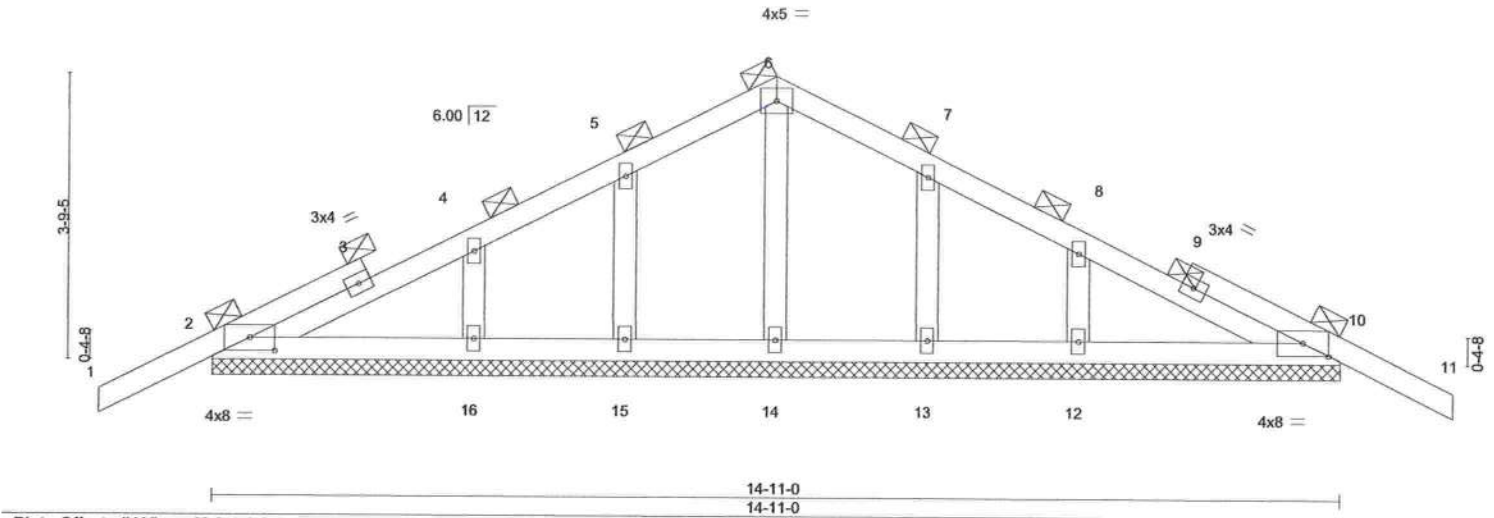
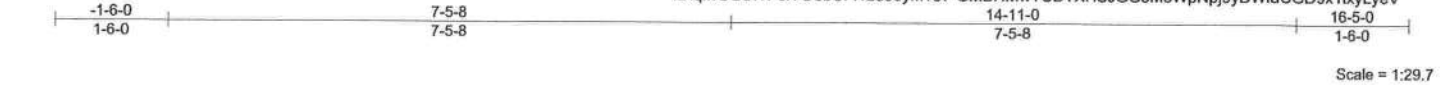


Plate Offsets (X,Y)– [2.0-4-0.0-2-1], [10.0-4-0.0-2-1]									
LOADING (psf)		SPACING- 2.0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL	20.0	Plate Grip DOL	1.25	TC	0.20	Vert(LL)	-0.00 11 n/r 120	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.08	Vert(CT)	-0.00 11 n/r 120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00 10 n/a n/a		
BCDL	10.0	Code FBC2023/TPI2014		Matrix-S				Weight: 72 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
OTHERS	2x4 SP No.3		

REACTIONS. All bearings 14-11-0.
(lb) - Max Horz 2=89(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 13 except 10=108(LC 13), 16=120(LC 12), 12=124(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-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 13 except (jt=lb) 10=108, 16=120, 12=124.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

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Joaquin Velez PE No.68182
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16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

November 6,2024

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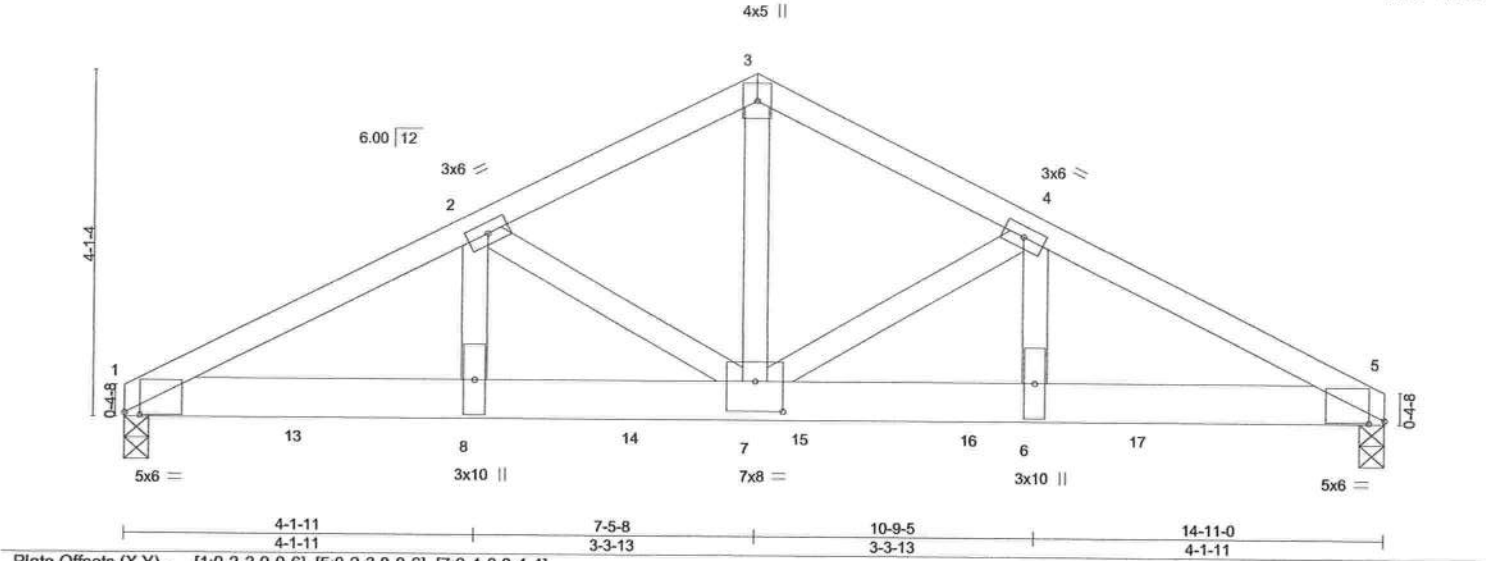
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Job 4228150	Truss T09	Truss Type Common Girder	Qty 1	Ply 2	CLAYTON RES.	T35476975
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:07 2024 Page 1
ID:qlwUGdWPsiYO5bCFH1Lu90yM757-kYkZGTq_nf84SrSd3JlMaMq8LTFUoGQSpaPnyLyeU

Scale = 1:26.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.51	in (loc) l/defl L/d	MT20	244/190
TCDL 7.0	Plate Grip DOL 1.25	BC 0.49	Vert(LL) -0.10 7-8 >999 240		
BCLL 0.0 *	Lumber DOL 1.25	WB 0.97	Vert(CT) -0.18 7-8 >999 180		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.04 5 n/a n/a		
	Code FBC2023/TPI2014			Weight: 161 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 3-10-0 oc purlins.
BOT CHORD 2x6 SP 2400F 2.0E or 2x6 SP M 26	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS.	(size) 1=0-3-8, 5=0-3-8
	Max Horz 1=80(LC 8)
	Max Uplift 1=-1789(LC 8), 5=-2074(LC 9)
	Max Grav 1=4457(LC 2), 5=5180(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-8401/3358, 2-3=-5926/2389, 3-4=-5928/2390, 4-5=-8508/3401
BOT CHORD	1-8=-3025/7504, 7-8=-3025/7504, 6-7=-2986/7608, 5-6=-2986/7608
WEBS	3-7=-2018/5100, 4-7=-2738/1191, 4-6=-924/2418, 2-7=-2615/1142, 2-8=-887/2326

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads design as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpl=0.18; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=1789, 5=2074.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1240 lb down and 505 lb up at 2-0-12, 1240 lb down and 505 lb up at 4-0-12, 1240 lb down and 505 lb up at 6-0-12, 1240 lb down and 505 lb up at 8-0-12, 1240 lb down and 505 lb up at 10-0-12, and 1240 lb down and 505 lb up at 12-0-12, and 1241 lb down and 503 lb up at 14-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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

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Chesterfield, MO 63017
Date:

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Continued on page 2

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Job 4228150	Truss T09	Truss Type Common Girder	Qty 1	Ply 2	CLAYTON RES. T35476975
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:07 2024 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 8=-1113(F) 12=-1114(F) 13=-1113(F) 14=-1113(F) 15=-1113(F) 16=-1113(F) 17=-1113(F)

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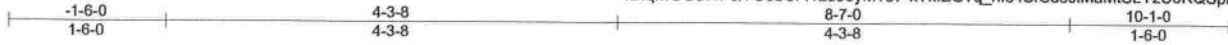
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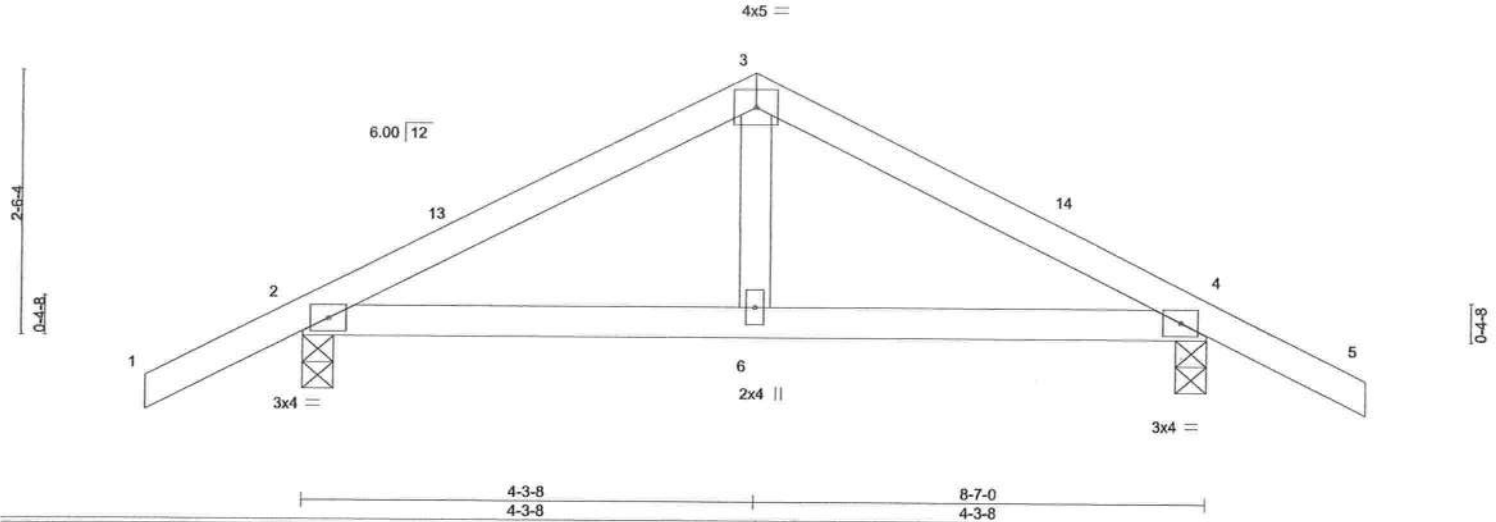
Job 4228150	Truss T10	Truss Type Common	Qty 2	Ply 1	CLAYTON RES. T35476976
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Builders FirstSource (Lake City, FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:07 2024 Page 1
ID:qlwUGdWPsiYO5bCF11Lu90yM?57-kYkfZGTq_nf84SrSd3JlMaMISLYzU0KQSPhaPNyLyeU



Scale = 1:21.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.25	TC 0.29	Vert(LL)	0.03	6-12	>999	240	MT20	244/190
TCDL 7.0	Lumber DOL	1.25	BC 0.19	Vert(CT)	-0.02	6-9	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code	FBC2023/TPI2014	Matrix-MS							
									Weight: 35 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (size) 2=0-3-8, 4=0-3-8
Max Horz 2=-62(LC 17)
Max Uplift 2=-177(LC 12), 4=-177(LC 13)
Max Grav 2=399(LC 1), 4=399(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-405/509, 3-4=-405/509
BOT CHORD 2-6=-282/322, 4-6=-282/322

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 -1-6-0 to 1-6-0, Zone1 1-6-0 to 4-3-8, Zone2 4-3-8 to 8-7-0, Zone1 8-7-0 to 10-1-0 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=177, 4=177.

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Joaquin Velez PE No.68182
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Date:

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MiTek®

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Chesterfield, MO 63017
314.434.1200 / MiTek-US.com

Job 4228150	Truss T10G	Truss Type GABLE	Qty 1	Ply 1	CLAYTON RES. T35476977
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Builders FirstSource (Lake City,FL), Lake City, FL - 32055,

8.730 s Sep 25 2024 MiTek Industries, Inc. Wed Nov 6 08:34:08 2024 Page 1
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Scale = 1:22.0

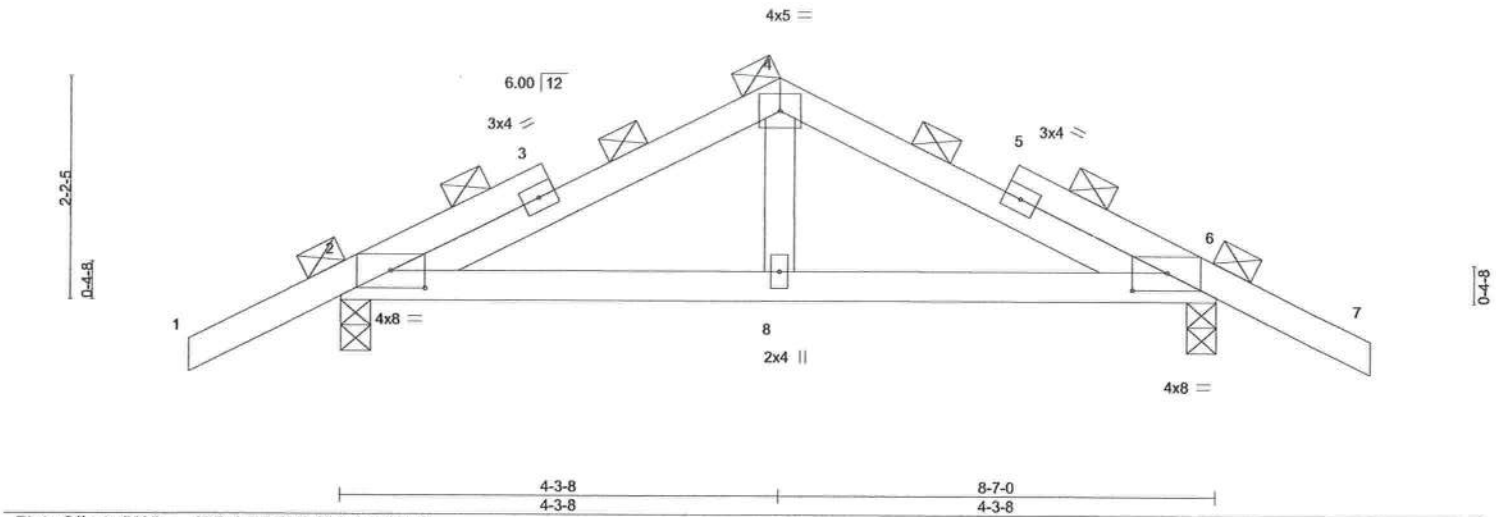


Plate Offsets (X,Y)--		[2:0-4-0,0-2-1], [6:0-4-0,0-2-1]									
LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.25	TC	0.35	Vert(LL)	0.02 8-14	>999	240	MT20	244/190
TCDL	7.0	Lumber DOL	1.25	BC	0.17	Vert(CT)	-0.02 8-11	>999	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00 6	n/a	n/a		
BCDL	10.0	Code	FBC2023/TPI2014	Matrix-MS						Weight: 40 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	2-0-0 oc purlins (6-0-0 max.).
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		

REACTIONS.	(size) 2=0-3-8, 6=0-3-8
	Max Horz 2=-55(LC 13)
	Max Uplift 2=-180(LC 12), 6=-180(LC 13)
	Max Grav 2=396(LC 1), 6=396(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-394/420, 4-6=-394/421
BOT CHORD	2-8=-203/346, 6-8=-203/346

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-22; Vult=130mph (3-second gust) Vasd=101mph; TCDL=4.2psf; BCDL=3.0psf; h=20ft; Cat. II; Exp C; Encl., GCpi=0.18; MWFRS (envelope) gable end zone and C-C Zone3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Building Designer / Project engineer responsible for verifying applied roof live load shown covers rain loading requirements specific to the use of this truss component.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=180, 6=180.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

This item has been digitally signed and sealed by Velez, Joaquin, PE on the date indicated here. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Joaquin Velez PE No.68182
MiTek Inc. DBA MiTek USA FL Cert 6634
16023 Swingley Ridge Rd.
Chesterfield, MO 63017
Date:

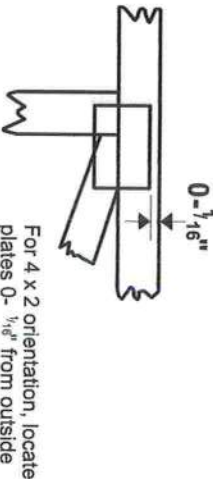
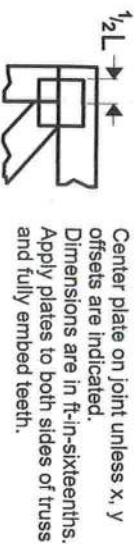
November 6,2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcsccomponents.com)

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Symbols

PLATE LOCATION AND ORIENTATION



* Plate location details available in MITek software or upon request.

PLATE SIZE

4 X 4

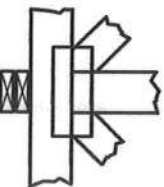
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

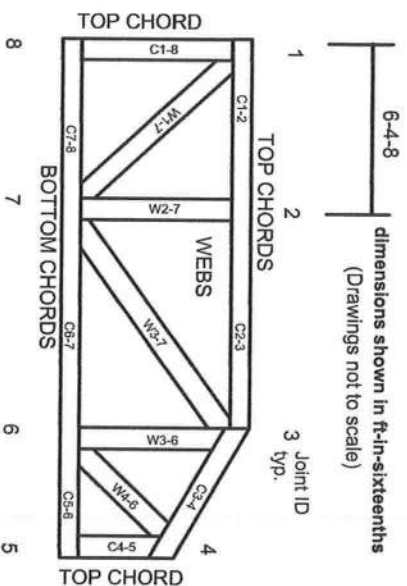


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & 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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

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

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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023

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 for 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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.