

RE: J0722-3704

Precision/Lot 19 Liberty Meadow/Harnett

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J0722-3704

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 2 individual, dated Truss Design Drawings and 0 Additional Drawings.

 No.
 Seal#
 Truss Name
 Date

 1
 I53176063
 P1SG
 7/20/2022

 2
 I53176064
 P2
 7/20/2022

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2022

North Carolina COA: C-0844

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



July 20, 2022

Job Truss Truss Type Qty Ply Precision/Lot 19 Liberty Meadow/Harnett 153176063 J0722-3704 P1SG **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Tue Jul 19 08:34:10 2022 Page 1 Comtech, Inc. ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-oVkl23NGnhphL69DD5UikZX2It9IIUx?EndWfVywYwh 4-11-8 11-2-0 4-11-8 1-3-0 Scale = 1:27.6 4x4 = 4 2x4 8.00 12 2x4 || 13 4x4 // 5 4x4 < -4-8 15 ¹⁶ 2x4 || 8 2x4 2x4 || 3x10 || 3x10 || 4-11-8 4-11-8 Plate Offsets (X,Y)--[2:0-6-3,0-0-13], [6:0-6-3,0-0-13] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES GRIP**

Vert(LL)

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.01

-0.01

-0.00

2-8

6-8

6

>999

>999

n/a

240

240

n/a

MT20

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

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

Weight: 79 lb

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No 2 WFBS

OTHERS 2x4 SP No.2

20.0

10.0

0.0

10.0

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

REACTIONS.

(size) 2=0-3-8, 6=0-3-8 Max Horz 2=121(LC 11)

Max Uplift 2=-105(LC 12), 6=-105(LC 13) Max Grav 2=464(LC 1), 6=464(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IRC2018/TPI2014

Lumber DOL

1.15

1.15

YES

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

2-4=-442/676, 4-6=-442/676 TOP CHORD **BOT CHORD** 2-8=-375/270, 6-8=-375/270

WEBS 4-8=-482/222

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-0-15 to 3-3-14, Exterior(2N) 3-3-14 to 5-0-0 , Corner(3R) 5-0-0 to 9-4-13, Exterior(2N) 9-4-13 to 11-0-15 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

TC

BC

WB

Matrix-S

0.13

0.12

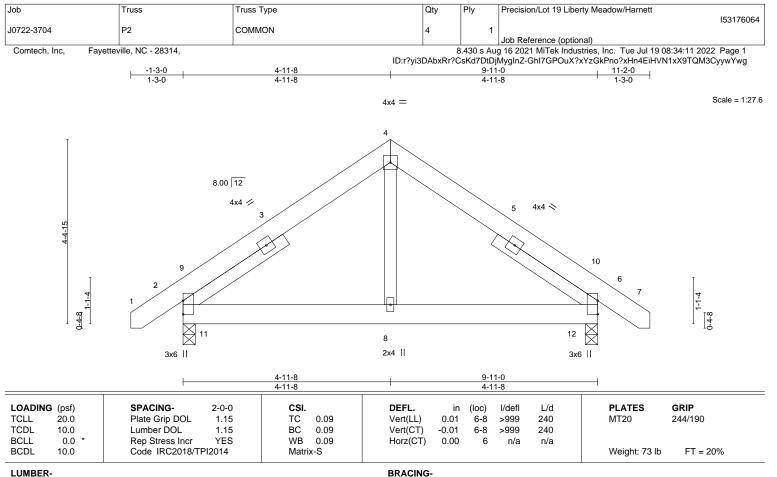
0.11

- 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 studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf 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 105 lb uplift at joint 2 and 105 lb uplift at
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 20,2022





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WFBS

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

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

Max Horz 2=97(LC 11)

Max Uplift 2=-61(LC 9), 6=-61(LC 8) Max Grav 2=464(LC 1), 6=464(LC 1)

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

TOP CHORD 2-4=-442/529 4-6=-442/529

BOT CHORD 2-8=-283/270, 6-8=-283/270

WFBS 4-8=-389/222

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-0-15 to 3-3-14, Interior(1) 3-3-14 to 5-0-0, Exterior(2R) 5-0-0 to 9-4-13, Interior(1) 9-4-13 to 11-0-15 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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 30.0psf 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 61 lb uplift at joint 2 and 61 lb uplift at
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

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

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

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



Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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

DSB-89: ANSI/TPI1:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

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designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4.

- Cut members to bear tightly against each other
- 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.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

φ.

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or 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 project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.



RE: J1021-6181

Lot 19 Liberty Meadow

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J1021-6181

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: N/A Wind Speed: N/A mph Roof Load: N/A psf Floor Load: 55.0 psf

This package includes 12 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	152781612	F01	6/27/2022
2	152781613	F02	6/27/2022
3	152781614	F03	6/27/2022
4	152781615	F04	6/27/2022
5	152781616	F04A	6/27/2022
6	152781617	F05	6/27/2022
7	152781618	F06	6/27/2022
8	152781619	F06A	6/27/2022
9	152781620	F07	6/27/2022
10	152781621	FKW1	6/27/2022
11	152781622	FKW3	6/27/2022
12	152781623	FKW6	6/27/2022

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2022

North Carolina COA: C-0844

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



June 27, 2022

Job		Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
						I52781612
J1021-6181		F01	Floor	9	1	
						Job Reference (optional)
Comtook In	so Envettor	illo NC 20214	•	0	120 c Aug	16 2021 MiTok Industries, Inc. Mon. Jun 27 14:46:24 2022, Page 1

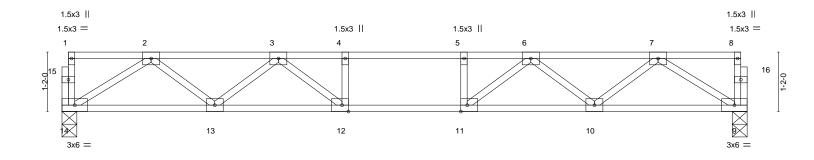
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46: ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-5TT6scg47dgscsEcZDfhQ983MUXwDalOlyueXYz22dZ

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

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

except end verticals.

0-1-8 1-3-0 2-2-8 1-6-0 0₇1₇8 Scale = 1:22.6 HH



						13-5-8						<u> </u>
ate Offs	sets (X,Y)	[11:0-1-8,Edge], [12:0-1-	-8,Edge]									
DADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP	
CLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.12 12-13	>999	480	MT20	244/190	
וחי	10.0	Lumber DOI	1.00	BC	0.51	Vert(CT)	-0 15 12-13	\ 999	360			

BRACING-

TOP CHORD

BOT CHORD

13-5-8

TCL TCDL BCLL 0.0 Rep Stress Incr YES WB 0.31 Horz(CT) 0.03 n/a n/a BCDL 5.0 Code IRC2018/TPI2014 Matrix-S Weight: 66 lb FT = 20%F, 11%E

LUMBER-

Plat LOA

2x4 SP No.1(flat) TOP CHORD 2x4 SP No.1(flat)

BOT CHORD

WEBS 2x4 SP No.3(flat)

REACTIONS. (size) 14=0-3-8, 9=0-3-8

Max Grav 14=720(LC 1), 9=720(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1533/0, 3-4=-2255/0, 4-5=-2255/0, 5-6=-2255/0, 6-7=-1533/0 **BOT CHORD** 13-14=0/1028, 12-13=0/2002, 11-12=0/2255, 10-11=0/2002, 9-10=0/1028 **WEBS** 2-14=-1217/0, 2-13=0/658, 3-13=-610/0, 3-12=0/546, 4-12=-260/0, 7-9=-1217/0,

7-10=0/658, 6-10=-610/0, 6-11=0/546, 5-11=-260/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



June 27,2022

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

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Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
14004 0404	F00				152781613
J1021-6181	F02	Floor	2	1	Joh Reference (entional)

| Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46:35 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-Zf1U3yhiuwojD0po7xAwzMhFgutsy1cXWceB3_z22dY

1-3-0 2-1-8

Scale = 1:21.0

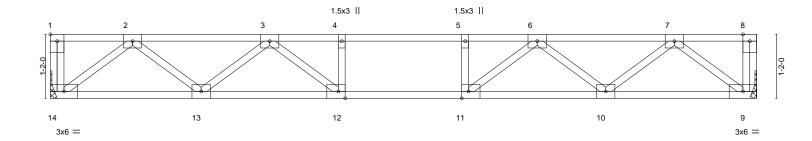


Plate Offsets (X,Y)	[1:Edge,0-1-8], [11:0-1-8,Edge], [12:0-			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.38	Vert(LL) -0.10 12-13 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.46	Vert(CT) -0.13 12-13 >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.03 9 n/a n/a	
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 65 lb FT = 20%F, 11%E

12-10-8 12-10-8

LUMBER-

TOP CHORD 2x4 SP No 1(flat) 2x4 SP No.1(flat)

BOT CHORD WFBS

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. (size) 14=Mechanical, 9=Mechanical

Max Grav 14=694(LC 1), 9=694(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1351/0, 3-4=-2060/0, 4-5=-2060/0, 5-6=-2060/0, 6-7=-1351/0 TOP CHORD **BOT CHORD** 13-14=0/851, 12-13=0/1815, 11-12=0/2060, 10-11=0/1815, 9-10=0/851 **WEBS** 2-14=-1068/0, 2-13=0/650, 3-13=-605/0, 3-12=0/519, 7-9=-1068/0, 7-10=0/650,

6-10=-605/0. 6-11=0/519

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



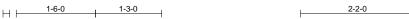
June 27,2022



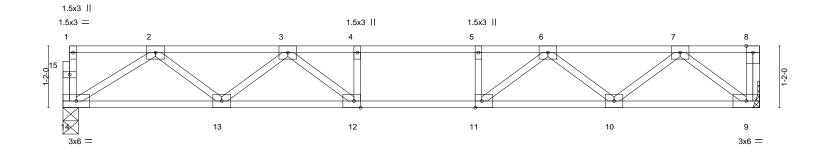
Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
J1021-6181	F03	Floor	1	1	152781614
01021 0101	1 00	1 1001	'		Joh Poference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46:36 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-1rbtHliKfEwarAO?hei9VaEPiHCMhThhlGNlbQz22dX

0-1-8



Scale = 1:21.8



	13-2-0
	13-2-0
ite C	Offsets (X,Y) [11:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.43	Vert(LL) -0.12 12-13 >999 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.51	Vert(CT) -0.15 12-13 >999 360	
BCLL 0.0	Rep Stress Incr YES	WB 0.32	Horz(CT) 0.03 9 n/a n/a	
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 66 lb FT = 20%F, 11%E

LUMBER-TOP CHORD

Plate

2x4 SP No 1(flat) 2x4 SP No.1(flat)

BOT CHORD

2x4 SP No.3(flat) WFBS

BRACING-

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

except end verticals.

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

REACTIONS. (size) 14=0-3-8, 9=Mechanical

Max Grav 14=704(LC 1), 9=710(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-1491/0, 3-4=-2156/0, 4-5=-2156/0, 5-6=-2156/0, 6-7=-1389/0 TOP CHORD **BOT CHORD** 13-14=0/1003, 12-13=0/1938, 11-12=0/2156, 10-11=0/1875, 9-10=0/872 **WEBS** 2-14=-1188/0, 2-13=0/635, 3-13=-582/0, 3-12=0/504, 7-9=-1094/0, 7-10=0/672,

6-10=-633/0, 6-11=0/562, 5-11=-265/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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) CAUTION, Do not erect truss backwards.



June 27,2022



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
					I52781615
J1021-6181	F04	Floor	2	1	
					Job Reference (optional)

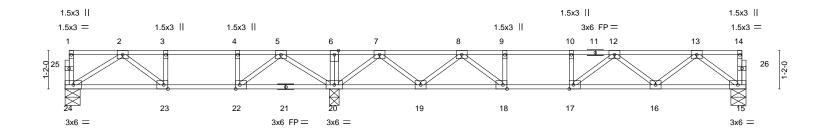
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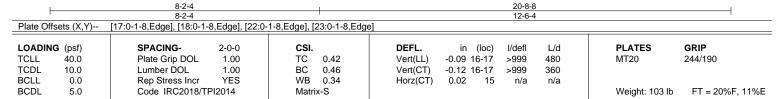
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

0-1-8 1-3-0 2-0-12 1-6-0 1-10-12 0-1-8 $H \vdash$ Scale = 1:35.0





BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD 2x4 SP No.1(flat)

BOT CHORD 2x4 SP No.1(flat)

WFBS 2x4 SP No.3(flat)

> (size) 24=0-5-8, 20=0-3-8, 15=0-5-8 Max Grav 24=403(LC 3), 20=1256(LC 1), 15=640(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-694/30, 3-4=-694/30, 4-5=-694/30, 5-6=0/704, 6-7=0/703, 7-8=-977/0, TOP CHORD

8-9=-1777/0, 9-10=-1777/0, 10-12=-1777/0, 12-13=-1233/0

BOT CHORD 23-24=0/505, 22-23=-30/694, 20-22=-263/350, 19-20=-11/451, 18-19=0/1479,

17-18=0/1777, 16-17=0/1635, 15-16=0/787 WFBS 2-24=-595/0, 5-20=-788/0, 5-22=0/589, 4-22=-297/0, 7-20=-1110/0, 7-19=0/717,

8-19=-700/0, 13-15=-985/0, 13-16=0/581, 12-16=-522/0, 12-17=-32/331, 8-18=0/554,

9-18=-254/0

NOTES-

REACTIONS.

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



June 27,2022

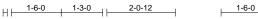


Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
					I52781616
J1021-6181	F04A	Floor	3	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

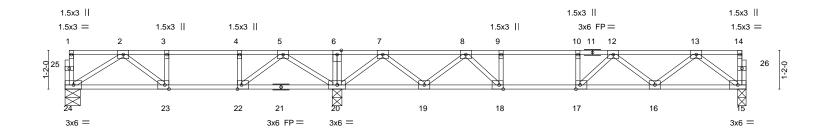
8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46:38 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-_Ejdh_jaBrAl4TXNo3kda?Jl55uW9N2_DasrgJz22dV

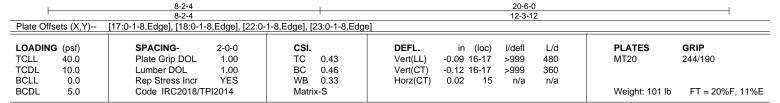
0-1-8



1-0-0

0-1-8 Scale = 1:34.7





LUMBER-

2x4 SP No.1(flat) TOP CHORD 2x4 SP No.1(flat)

BOT CHORD WFBS 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.

(size) 24=0-5-8, 20=0-3-8, 15=0-3-0

Max Grav 24=405(LC 3), 20=1235(LC 1), 15=631(LC 7)

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

2-3=-703/9, 3-4=-703/9, 4-5=-703/9, 5-6=0/652, 6-7=0/651, 7-8=-980/0, 8-9=-1721/0,

9-10=-1721/0, 10-12=-1721/0, 12-13=-1210/0 23-24=0/509. 22-23=-9/703. 20-22=-229/363. 19-20=-0/473. 18-19=0/1467.

BOT CHORD 17-18=0/1721, 16-17=0/1601, 15-16=0/776

> 2-24=-599/0, 5-20=-785/0, 5-22=0/583, 4-22=-295/0, 7-20=-1086/0, 7-19=0/691, $8-19 = -682/0,\ 13-15 = -971/0,\ 13-16 = 0/566,\ 12-16 = -508/0,\ 12-17 = -27/324,\ 8-18 = 0/541,$

9-18=-291/0

NOTES-

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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.



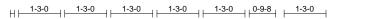
June 27,2022



Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
					I52781617
J1021-6181	F05	Floor	1	1	
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46:39 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-SQH?vKkDy9I9id6ZMnFs7CsxvVEuurh7REcPClz22dU

0-1-8



2-0-8

0-1-8 Scale = 1:34.4

FT = 20%F, 11%E

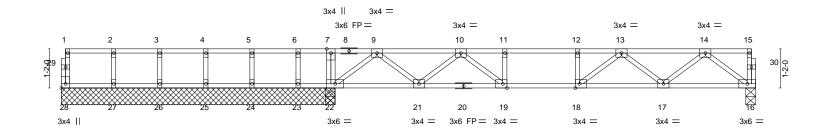




Plate Offsets (X,Y)--[18:0-1-8,Edge], [19:0-1-8,Edge], [28:Edge,0-1-8] LOADING (psf) SPACING-2-0-0 DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 40.0 Plate Grip DOL 1.00 TC 0.37 Vert(LL) -0.10 17-18 >999 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 BC 0.45 Vert(CT) -0.12 17-18 >999 360 WB **BCLL** 0.0 Rep Stress Incr YES 0.30 Horz(CT) 0.03 16 n/a n/a

LUMBER-TOP CHORD 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.1(flat)

5.0

BRACING-

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

Weight: 97 lb

except end verticals.

WFBS 2x4 SP No.3(flat) BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 8-2-0 except (jt=length) 16=0-3-8.

Max Uplift All uplift 100 lb or less at joint(s) 23

Code IRC2018/TPI2014

Max Grav All reactions 250 lb or less at joint(s) 28, 27, 26, 25, 24, 23 except 22=814(LC 1), 22=814(LC 1), 16=679(LC 1)

Matrix-S

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 9-10=-1283/0. 10-11=-2005/0. 11-12=-2005/0. 12-13=-2005/0. 13-14=-1327/0

BOT CHORD 21-22=0/795, 19-21=0/1758, 18-19=0/2005, 17-18=0/1780, 16-17=0/838

WFBS

9-22=-996/0, 9-21=0/636, 10-21=-618/0, 10-19=0/513, 14-16=-1049/0, 14-17=0/637,

13-17=-589/0, 13-18=0/492

NOTES-

BCDL

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 23.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
					152781618
J1021-6181	F06	Floor	2	1	
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46:40 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-wdrN6gIrjTQ0KnhmwUm5gQO6TvaidETHguLykBz22dT

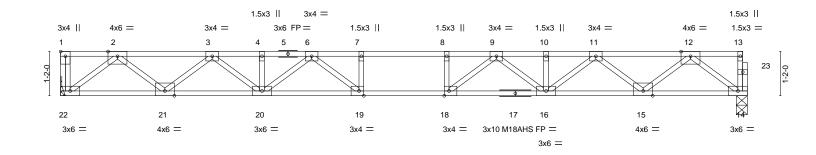
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.

1-3-0 2-1-8

Scale = 1:30.4



DI + 0" + 0"	[4 E L	0.5.1.1	10-1-0	
Plate Offsets (X,Y)	[1:Edge,0-1-8], [18:0-1-8,Edge], [19:0-1	-8,Eagej		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.38	Vert(LL) -0.24 18-19 >881 480	MT20 244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.48	Vert(CT) -0.33 18-19 >641 360	M18AHS 186/179
BCLL 0.0	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.06 14 n/a n/a	
BCDL 5.0	Code IRC2018/TPI2014	Matrix-S		Weight: 92 lb FT = 20%F, 11%E

BRACING-

TOP CHORD

BOT CHORD

18-1-8

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP 2400F 2 0F(flat) 2x4 SP 2400F 2.0E(flat)

BOT CHORD WFBS

2x4 SP No.3(flat)

(size) 22=Mechanical, 14=0-3-8

Max Grav 22=983(LC 1), 14=977(LC 1)

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

TOP CHORD $2\text{-}3\text{--}2075/0,\ 3\text{-}4\text{--}3469/0,\ 4\text{-}6\text{--}3469/0,\ 6\text{-}7\text{--}4167/0,\ 7\text{-}8\text{--}4167/0,\ 8\text{-}9\text{--}4167/0,\ 8\text{--}9\text{--}4167/0,\ 8\text{--}9$

9-10=-3469/0, 10-11=-3469/0, 11-12=-2075/0

BOT CHORD 21-22=0/1229, 20-21=0/2888, 19-20=0/3892, 18-19=0/4167, 16-18=0/3892, 15-16=0/2889, 14-15=0/1228

> 2-22=-1541/0, 2-21=0/1102, 3-21=-1058/0, 3-20=0/742, 12-14=-1538/0, 12-15=0/1103, 11-15=-1059/0, 11-16=0/741, 9-16=-539/0, 9-18=-56/690, 6-20=-539/0, 6-19=-56/690,

7-19=-319/0, 8-18=-319/0

NOTES-

WFBS

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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) CAUTION, Do not erect truss backwards.



June 27,2022



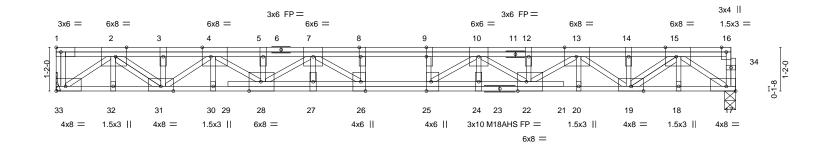
Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
					I52781619
J1021-6181	F06A	Floor	1	1	
					Job Reference (optional)

1-2-8

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46:42 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-s?y8XLn5E4gkZ5r81voZIrUT2iBa51WZ7Cq3p4z22dR

1-7-8

Scale = 1:30.7



						18-1-8					
Plate Offse	ets (X,Y)	[2:0-3-8,Edge], [4:0-2-12 [26:0-3-0,Edge], [28:0-3-			-3-0,Edge],	[13:0-3-12,Edge], [[15:0-3-8,Edge]	, [17:Edg	e,0-1-8], [22	::0-2-12,Edge], [25:0-3-0	,Edge],
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.17 25-26	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.45 25-26	>475	360	M18AHS	186/179
BCLL	0.0	Rep Stress Incr	NO	WB	0.94	Horz(CT)	0.09 17	n/a	n/a		
BCDL	5.0	Code IRC2018/TI	PI2014	Matri	x-S					Weight: 141 lb	FT = 20%F, 11%E

18-1-8

LUMBER-BRACING-

TOP CHORD 2x4 SP 2400F 2.0E(flat) TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

BOT CHORD 2x4 SP 2400F 2.0E(flat) except end verticals.

WEBS 2x4 SP No.3(flat) **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. 33=Mechanical, 17=0-3-8 Max Grav 33=1877(LC 1), 17=1864(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-3=-4395/0, 3-4=-4417/0, 4-5=-7551/0, 5-7=-7551/0, 7-8=-8958/0, 8-9=-8958/0,

TOP CHORD 9-10=-8958/0, 10-12=-7551/0, 12-13=-7551/0, 13-14=-4419/0, 14-15=-4395/0

BOT CHORD 32-33=0/2488, 31-32=0/2490, 30-31=0/5928, 28-30=0/5930, 27-28=0/8493, 26-27=0/8493,

25-26=0/8958, 24-25=0/8493, 22-24=0/8493, 20-22=0/5930, 19-20=0/5927,

18-19=0/2482, 17-18=0/2481

WEBS 2-33=-3000/0, 2-31=0/2443, 3-31=-392/0, 4-31=-1847/0, 4-28=0/1970, 5-28=-277/0

7-28=-1143/0, 7-26=0/928, 8-26=-390/0, 15-17=-2979/0, 15-19=0/2453, 14-19=-400/0, 13-19=-1846/0, 13-22=0/1970, 12-22=-277/0, 10-22=-1144/0, 10-25=0/928, 9-25=-390/0

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) All plates are 2x6 MT20 unless otherwise indicated.
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Refer to girder(s) for truss to truss connections.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) Load case(s) 1, 2, 3, 4, 5, 6 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 8) 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.
- 9) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-33=-10, 1-16=-200

2) Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-33=-10, 1-16=-200



June 27,2022

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

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
					152781619
J1021-6181	F06A	Floor	1	1	
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46:42 2022 Page 2 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-s?y8XLn5E4gkZ5r81voZIrUT2iBa51WZ7Cq3p4z22dR

LOAD CASE(S) Standard

3) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-33=-10, 1-9=-200, 9-16=-120

4) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-33=-10, 1-8=-120, 8-16=-200

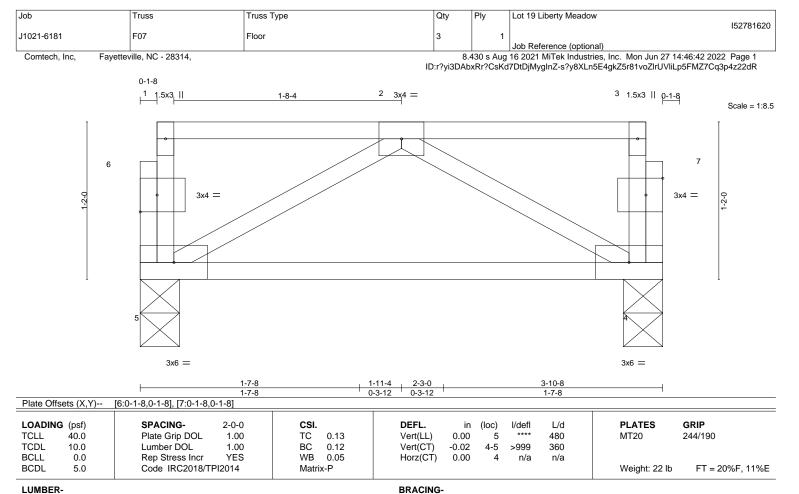
5) 3rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 17-33=-10, 1-9=-200, 9-16=-120

6) 4th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 17-33=-10, 1-8=-120, 8-16=-200



TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x4 SP No.1(flat) 2x4 SP No.1(flat)

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

REACTIONS. (size) 5=0-3-8, 4=0-3-8 Max Grav 5=193(LC 1), 4=193(LC 1)

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

1) Plates checked for a plus or minus 1 degree rotation about its center.

- 2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 3) 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.



Structural wood sheathing directly applied or 3-10-8 oc purlins,

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

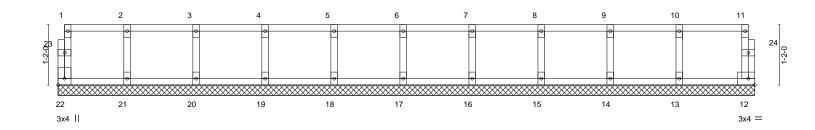
except end verticals.

Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
J1021-6181	FKW1	GABLE	1	1	152781621
					Inh Reference (ontional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46:43 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-KCWWlhnj?OobBEQLbcKoH20hT6imqixjMsacLWz22dQ

0₁1₇8

Scale = 1:22.3



	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	-	1-4-0) '	1-4-0	1-4-0	1-5-8
Plate C	Offsets (X,Y)	[22:Edge,0-1-8]										
LOADI	ING (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(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL	5.0	Code IRC2018	/TPI2014	Matr	ix-R						Weight: 57 lb	FT = 20%F, 11%E

8-0-0

BRACING-

TOP CHORD

BOT CHORD 2x4 SP No.1(flat) 2x4 SP No.3(flat) WFBS **OTHERS** 2x4 SP No.3(flat)

2x4 SP No.1(flat)

1-4-0

BOT CHORD

6-8-0

except end verticals.

9-4-0

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

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

10-8-0

12-0-0

13-5-8

REACTIONS. All bearings 13-5-8.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

4-0-0

NOTES-

LUMBER-

TOP CHORD

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.

2-8-0

- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.
- 8) CAUTION, Do not erect truss backwards.





Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
J1021-6181	FKW3	GABLE	1	1	I52781622
0.02.0.0.		0.1522	Ι΄.		Joh Pafaranca (antional)

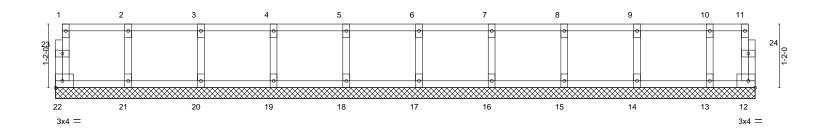
Comtech, Inc,

Fayetteville, NC - 28314,

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46:43 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-KCWWIhnj?OobBEQLbcKoH20ig6ikqixjMsacLWz22dQ

0118

Scale = 1:21.1



1-4-0 1-4-0	2-8-0 4-0-0 1-4-0 1-4-0	5-4-0 6-8- 1-4-0 1-4-		9-4-0 1-4-0	10-8-0 1-4-0	12-0-0 1-4-0 1-0-10-0
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2018/TPI2014	CSI. TC 0.06 BC 0.01 WB 0.03 Matrix-R	DEFL. in Vert(LL) n/a Vert(CT) n/a Horz(CT) 0.00	- n/a 9 - n/a 9	999 999 n/a	PLATES GRIP MT20 244/190 Weight: 55 lb FT = 20%F, 11%E

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1(flat) 2x4 SP No.1(flat) **BOT CHORD** 2x4 SP No.3(flat) WFBS

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. All bearings 12-10-0.

(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

OTHERS

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.

2x4 SP No.3(flat)

- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 7) 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.



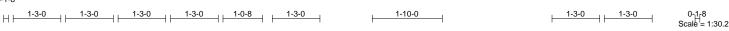
818 Soundside Road Edenton, NC 27932

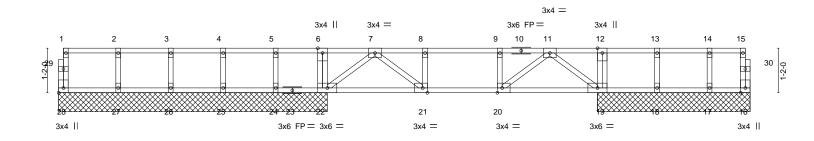
Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
J1021-6181	FKW6	Floor	1	1	I52781623
31021-0101	1 KWO	1 1001	'	'	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46:45 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-HaeG9NpzX?2IQYaji1MGNT6_QwKcIYH0qA3jQPz22dO

0-1-8





		6-11-0		-			7-4-0				3-10-8	3 1
Plate Off	sets (X,Y)	[20:0-1-8,Edge], [21:0-1-	8,Edge], [28:E	dge,0-1-8]								
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.02	21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.31	Vert(CT)	-0.04	21	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.30	Horz(CT)	0.01	16	n/a	n/a		
BCDL	5.0	Code IRC2018/Ti	PI2014	Matr	ix-S						Weight: 84 lb	FT = 20%F, 11%E

LUMBER-TOP CHORD

2x4 SP No 1(flat) 2x4 SP No.1(flat)

BOT CHORD WFBS 2x4 SP No.3(flat) **BRACING-**

14-3-0

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. All bearings 7-0-8 except (jt=length) 16=4-0-0, 19=4-0-0, 18=4-0-0, 17=4-0-0.

(lb) - Max Uplift All uplift 100 lb or less at joint(s) 24

6-11-0

Max Grav All reactions 250 lb or less at joint(s) 28, 16, 27, 26, 25, 18, 17, 24 except 19=882(LC 4), 22=877(LC

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

TOP CHORD 7-8=-1254/0. 8-9=-1254/0. 9-11=-1254/0 **BOT CHORD** 21-22=0/794, 20-21=0/1254, 19-20=0/791

 $7\text{-}22\text{-}996/0,\ 7\text{-}21\text{=}0/619,\ 8\text{-}21\text{=}-350/0,\ 11\text{-}19\text{=}-990/0,\ 11\text{-}20\text{=}0/622,\ 9\text{-}20\text{=}-351/0}$ WFBS

NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 24.
- 5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 6) Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 7) 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.
- 8) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

2) Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf) Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

3) 1st Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-120, 12-15=-20



18-1-8

June 27,2022

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

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

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



Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
J1021-6181	FKW6	Floor	1	1	I52781623
					Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46:45 2022 Page 2 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-HaeG9NpzX?2IQYaji1MGNT6_QwKcIYH0qA3jQPz22dO

LOAD CASE(S) Standard

4) 2nd Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-20, 6-12=-200, 12-15=-100

5) 3rd unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-120, 12-15=-20

6) 4th unbalanced Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-20, 6-12=-200, 12-15=-100

7) 1st chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

8) 2nd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

9) 3rd chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

10) 4th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

11) 5th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

12) 6th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

13) 7th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

14) 8th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

15) 9th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

16) 10th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

17) 11th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-9=-200, 9-12=-120, 12-15=-100

18) 12th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 16-28=-10, 1-6=-100, 6-8=-120, 8-12=-200, 12-15=-100

19) 13th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

20) 14th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

21) 15th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

22) 16th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

23) 17th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

24) 18th chase Dead + Floor Live (unbalanced): Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

25) 19th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf) Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100 26) 20th chase Dead: Lumber Increase=1.00, Plate Increase=1.00

Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100 27) 21st chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

28) 22nd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100



Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
					152781623
J1021-6181	FKW6	Floor	1	1	
					Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Mon Jun 27 14:46:45 2022 Page 3 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-HaeG9NpzX?2IQYaji1MGNT6_QwKcIYH0qA3jQPz22dO

LOAD CASE(S) Standard

29) 23rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

- 30) 24th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
 - Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100
- 31) 25th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

32) 26th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

33) 27th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

34) 28th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

35) 29th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-9=-200, 9-12=-120, 12-15=-100

36) 30th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-8=-120, 8-12=-200, 12-15=-100

37) 31st chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

38) 32nd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

39) 33rd chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

40) 34th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100

- 41) 35th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)
- Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100
- 42) 36th chase Dead: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf)

Vert: 16-28=-10, 1-6=-100, 6-12=-200, 12-15=-100



Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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

DSB-89: ANSI/TPI1:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

ω

designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4.

- Cut members to bear tightly against each other
- 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.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

φ.

- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or 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 project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.



RE: J1021-6180

Lot 19 Liberty Meadow

Trenco 818 Soundside Rd Edenton, NC 27932

Site Information:

Customer: Project Name: J1021-6180

Lot/Block: Model:
Address: Subdivision:
City: State:

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

Design Code: IRC2018/TPI2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-16 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 29 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	152879055	A1	7/4/2022	21	152879075	PB1GE	7/4/2022
2	152879056	A1GE	7/4/2022	22	152879076	PB2	7/4/2022
3	152879057	A2	7/4/2022	23	152879077	PB2GE	7/4/2022
4	152879058	A2A	7/4/2022	24	152879078	VC1	7/4/2022
5	152879059	A2GE	7/4/2022	25	152879079	VC2	7/4/2022
6	152879060	B1	7/4/2022	26	152879080	VG1	7/4/2022
7	152879061	B1GE	7/4/2022	27	152879081	VG2	7/4/2022
8	152879062	C1	7/4/2022	28	152879082	VG3	7/4/2022
9	152879063	C1GE	7/4/2022	29	152879083	VG4	7/4/2022
10	152879064	D1	7/4/2022				
11	152879065	D1GE	7/4/2022				
12	152879066	G1	7/4/2022				
13	152879067	G1GE	7/4/2022				
14	152879068	G1GRD	7/4/2022				
15	152879069	H1GE	7/4/2022				
16	152879070	K1	7/4/2022				
17	152879071	K1GE	7/4/2022				
18	152879072	K2	7/4/2022				
19	152879073	K3	7/4/2022				

7/4/2022

The truss drawing(s) referenced above have been prepared by

Truss Engineering Co. under my direct supervision

based on the parameters provided by Comtech, Inc - Fayetteville.

PB1

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2022

North Carolina COA: C-0844

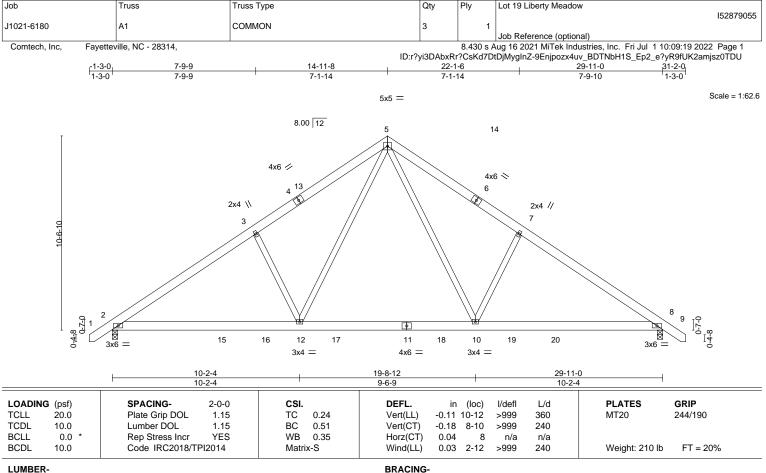
152879074

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



July 04, 2022



TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 **WEBS**

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=-257(LC 10)

Max Uplift 2=-80(LC 12), 8=-80(LC 13)

Max Grav 2=1553(LC 19), 8=1553(LC 20)

FORCES. (Ib) - Max. Comp./Max. Ten. - All forces 250 (Ib) or less except when shown. TOP CHORD 2-3=-2075/347, 3-5=-1949/436, 5-7=-1950/436, 7-8=-2075/347

BOT CHORD 2-12=-152/1820, 10-12=0/1188, 8-10=-150/1652

WEBS 5-10=-163/1025, 7-10=-448/294, 5-12=-163/1024, 3-12=-447/294

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-7 to 3-3-6, Interior(1) 3-3-6 to 14-11-8, Exterior(2R) 14-11-8 to 19-4-5, Interior(1) 19-4-5 to 31-0-7 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.
- * This truss has been designed for a live load of 30.0psf 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 80 lb uplift at joint 2 and 80 lb uplift at joint 8.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-2-8 oc purlins.

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



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

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



Job Truss Truss Type Qty Ply Lot 19 Liberty Meadow 152879056 .11021-6180 **GABLE** A1GE Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 1 10:09:20 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-dQL517_arC1rpN2Z8_ZhXRLCm1M7AYOdZiJJFIz0TDT Fayetteville, NC - 28314, Comtech, Inc. 14-11-8 7-9-9 7-1-14 7-9-10 Scale = 1:66.1 5x12 || 8.00 12 4x6 / 4x6 < 8 10 11 12 26 13 25 **8** 27 28 23 29 21 30 20 22 3x4 =4x6 = 3x4 = 1918 17 16 10-2-4 14-11-8 19-8-12 23-8-0 29-11-0

	10-2-4	4-9-4	4-9-4	3-11-4	6-3-0
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in ((loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.11 2	2-23 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.20 2	2-23 >999 240	W120 244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.57	Horz(CT) 0.02	14 n/a n/a	Weight: 253 lb FT = 20%
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.04 2	2-23 >999 240	

LUMBER-

OTHERS

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 WFBS

2x4 SP No.2 2x4 SP No.2 BRACING-

TOP CHORD **BOT CHORD JOINTS**

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

1 Brace at Jt(s): 24, 26

REACTIONS. All bearings 6-6-8 except (jt=length) 2=0-3-8, 18=0-3-8.

(lb) -Max Horz 2=-321(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 14 except 2=-235(LC 12), 17=-450(LC 19), 16=-130(LC 13),

18=-173(LC 12)

All reactions 250 lb or less at joint(s) 17 except 2=1319(LC 19), 14=537(LC 20), 16=334(LC 20), Max Grav

18=1291(LC 19)

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

2-3=-1634/282, 3-5=-1512/388, 5-6=-865/315, 6-7=-945/313, 7-9=-896/244,

9-10=-892/202, 10-11=-1001/202, 11-12=-583/125, 12-13=-681/96, 13-14=-726/45

BOT CHORD $2 - 23 = -289/1502, \ 22 - 23 = -7/892, \ 20 - 22 = -7/892, \ 19 - 20 = 0/582, \ 18 - 19 = 0/582, \ 17 - 18 = 0/582, \ 18 - 19 = 0/582, \ 18 - 1$

16-17=0/582, 14-16=0/582

20-25=-274/85, 20-26=-19/505, 10-26=-25/552, 5-23=-269/946, 3-23=-474/386,

11-19=-844/138, 5-22=0/278

NOTES-

WEBS

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-1-7 to 3-3-6, Interior(1) 3-3-6 to 14-11-8, Exterior(2R) 14-11-8 to 19-4-5, Interior(1) 19-4-5 to 31-0-7 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.
- * This truss has been designed for a live load of 30.0psf 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14 except (jt=lb) 2=235, 17=450, 16=130, 18=173.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



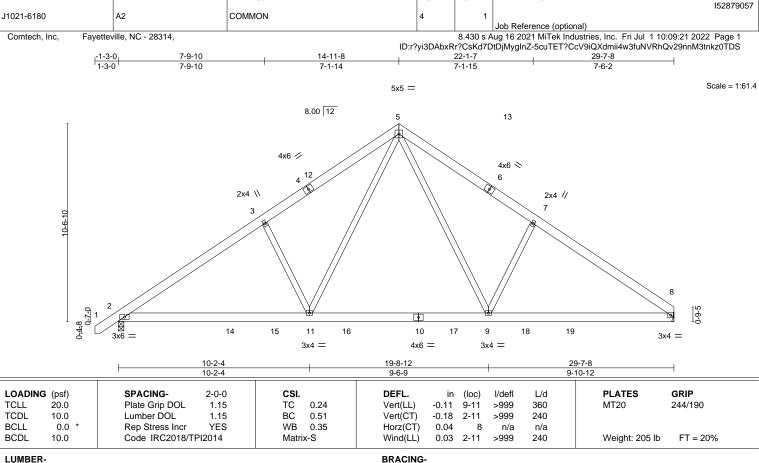
July 4,2022

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

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TOP CHORD

BOT CHORD

Qty

Ply

Lot 19 Liberty Meadow

Structural wood sheathing directly applied or 5-2-12 oc purlins.

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

LUMBER-

Job

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 2x4 SP No.2 WFBS

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

Max Horz 2=252(LC 9)

Truss

Truss Type

Max Uplift 2=-80(LC 12), 8=-61(LC 13) Max Grav 2=1544(LC 19), 8=1471(LC 20)

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

TOP CHORD 2-3=-2060/345, 3-5=-1934/435, 5-7=-1917/439, 7-8=-2043/347

BOT CHORD 2-11=-192/1799, 9-11=0/1166, 8-9=-177/1604

WEBS 5-9=-162/994, 7-9=-420/294, 5-11=-163/1025, 3-11=-448/295

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-7 to 3-3-6, Interior(1) 3-3-6 to 14-11-8, Exterior(2R) 14-11-8 to 19-4-5, Interior(1) 19-4-5 to 29-6-12 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.
- * This truss has been designed for a live load of 30.0psf 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) 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) 2, 8.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



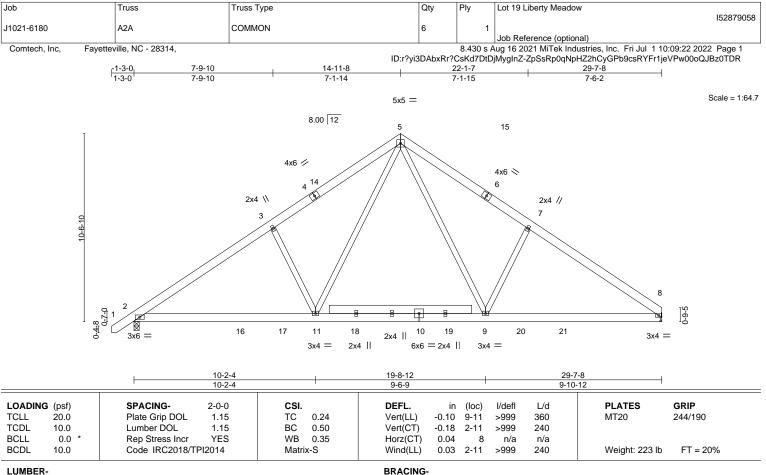
July 4,2022

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TOP CHORD

BOT CHORD

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 *Except*

REACTIONS.

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

Max Horz 2=252(LC 9)

12-13: 2x6 SP No.1

Max Uplift 2=-80(LC 12), 8=-61(LC 13) Max Grav 2=1537(LC 19), 8=1464(LC 20)

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

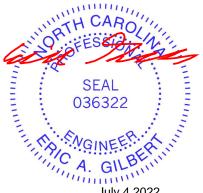
TOP CHORD 2-3=-2046/345, 3-5=-1921/435, 5-7=-1904/439, 7-8=-2030/347

BOT CHORD 2-11=-192/1789. 9-11=0/1159. 8-9=-177/1594

WEBS 5-9=-162/986, 7-9=-420/294, 5-11=-163/1017, 3-11=-448/295

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-7 to 3-3-6, Interior(1) 3-3-6 to 14-11-8, Exterior(2R) 14-11-8 to 19-4-5, Interior(1) 19-4-5 to 29-6-12 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.
- * This truss has been designed for a live load of 30.0psf 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) 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) 2, 8.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 5-2-15 oc purlins.

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

July 4,2022



Job Truss Truss Type Qty Ply Lot 19 Liberty Meadow 152879059 .11021-6180 **GABLE** A2GF Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 1 10:09:23 2022 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-1?0Ef91S86PQgrn8q76O84zm7FUON084FgYzsdz0TDQ 14-11-8 14-11-8 14-8-0 Scale = 1:66.0 5x5 = 8.00 12 10 11 4x6 🖊 12 4x6 ≫ 13 14 15 5 X X 16 3³³ 17 18 0-4-8 0-2-0 9-5 3x4 =3x4 =32 31 30 29 28 27 26 25 24 23 22 21 20 19 4x6 = 29-7-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP 20.0 Plate Grip DOL TC Vert(LL) -0.00 244/190 **TCLL** 1.15 0.04 n/r 120 MT20 **TCDL** 10.0 Lumber DOL 1.15 BC 0.03 Vert(CT) 0.00 n/r 120 **BCLL** WB Horz(CT) 0.0 Rep Stress Incr YES 0.13 0.01 18 n/a n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-S Weight: 260 lb FT = 20%BRACING-

LUMBER-

2x6 SP No.1 TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x4 SP No.2 **OTHERS**

TOP CHORD **BOT CHORD WEBS**

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

Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 10-26, 9-27, 11-24

REACTIONS. All bearings 29-7-8.

(lb) -Max Horz 2=314(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 18, 27, 28, 29, 30, 31, 24, 22, 21, 20, 2 except 32=-122(LC 12),

23=-101(LC 13), 19=-145(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 18, 26, 27, 28, 29, 30, 31, 32, 24, 23, 22, 21, 20, 2

except 19=251(LC 20)

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

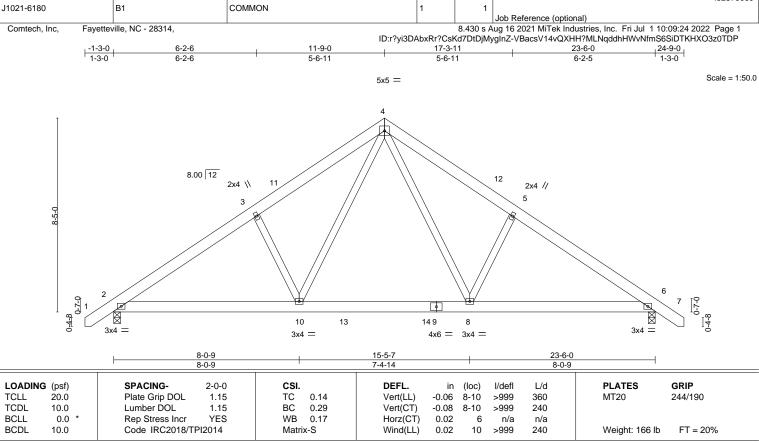
TOP CHORD 2-3=-303/230, 9-10=-168/259, 10-11=-168/259

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-1-7 to 3-3-6, Exterior(2N) 3-3-6 to 14-11-8, Corner(3R) 14-11-8 to 19-4-5, Exterior(2N) 19-4-5 to 29-7-8 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 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.
- * This truss has been designed for a live load of 30.0psf 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) 18, 27, 28, 29, 30, 31, 24, 22, 21, 20, 2 except (jt=lb) 32=122, 23=101, 19=145.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 4,2022





BRACING-

TOP CHORD

BOT CHORD

Qty

Ply

Lot 19 Liberty Meadow

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

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

152879060

LUMBER-

Job

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 2x4 SP No.2 WFBS

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

Max Horz 2=-206(LC 10)

Truss

Truss Type

Max Uplift 2=-67(LC 12), 6=-67(LC 13) Max Grav 2=1162(LC 19), 6=1162(LC 20)

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

TOP CHORD 2-3=-1504/271, 3-4=-1403/341, 4-5=-1404/341, 5-6=-1504/271

BOT CHORD 2-10=-114/1319, 8-10=0/870, 6-8=-112/1191

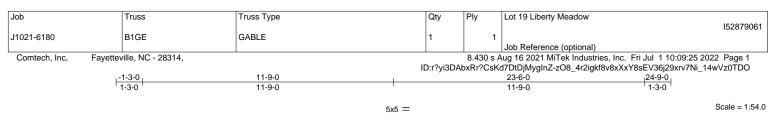
WFBS 4-8=-132/722, 5-8=-335/235, 4-10=-132/722, 3-10=-335/235

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-7 to 3-3-6, Interior(1) 3-3-6 to 11-9-0, Exterior(2R) 11-9-0 to 16-1-13, Interior(1) 16-1-13 to 24-7-7 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 30.0psf 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) 2, 6.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.







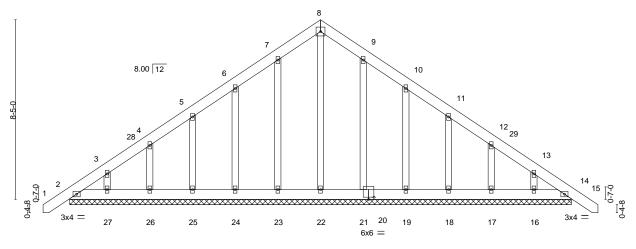


Plate Offsets (X,Y) [20:0-3-0,0-1-4]												
LOADIN	IG (psf)		2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	14	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	14	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.16	Horz(CT)	0.00	14	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2	014	Matri	x-S						Weight: 192 lb	FT = 20%

23-6-0

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1 **OTHERS** 2x4 SP No.2 BRACING-

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

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

REACTIONS. All bearings 23-6-0.

(lb) -Max Horz 2=-257(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 23, 24, 25, 26, 27, 21, 19, 18, 17, 16 Max Grav All reactions 250 lb or less at joint(s) 2, 14, 22, 23, 24, 25, 26, 27, 21, 19, 18, 17, 16

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

NOTES-

LUMBER-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-1-7 to 3-3-6, Exterior(2N) 3-3-6 to 11-9-0, Corner(3R) 11-9-0 to 16-1-13, Exterior(2N) 16-1-13 to 24-7-7 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.

referenced standard ANSI/TPI 1.

- 7) 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 30.0psf 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, 14, 23, 24, 25, 26, 27, 21, 19, 18, 17, 16. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and



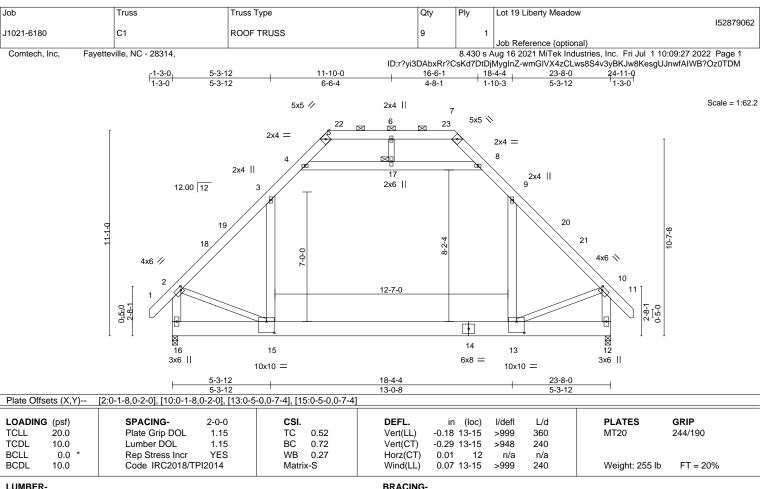
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TOP CHORD

BOT CHORD

JOINTS

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x10 SP No.1 **WEBS** 2x6 SP No.1 *Except*

2-15,10-13,6-17: 2x4 SP No.2

REACTIONS. (size) 16=0-3-8, 12=0-3-8 Max Horz 16=307(LC 11)

Max Grav 16=1605(LC 2), 12=1605(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1663/3, 3-4=-1048/151, 4-5=-374/127, 7-8=-374/127, 8-9=-1048/151,

9-10=-1663/0, 2-16=-1768/40, 10-12=-1769/40

BOT CHORD 15-16=-280/372, 13-15=0/1100

WEBS 4-17=-1167/72, 8-17=-1167/72, 3-15=0/696, 9-13=0/696, 2-15=0/1102, 10-13=0/1104

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-10 to 3-3-3, Interior(1) 3-3-3 to 8-6-1, Exterior(2R) 8-6-1 to 14-8-12, Interior(1) 14-8-12 to 15-1-15, Exterior(2R) 15-1-15 to 21-4-10, Interior(1) 21-4-10 to 24-9-10 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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.
- Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17; Wall dead load (5.0psf) on member(s).3-15, 9-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Attic room checked for L/360 deflection.



Structural wood sheathing directly applied or 5-7-3 oc purlins,

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.

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

1 Brace at Jt(s): 17



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

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



Job Truss Truss Type Qty Ply Lot 19 Liberty Meadow 152879063 .11021-6180 **GABLE** C1GF 1 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 1 10:09:29 2022 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-s9NVwC5DkyAZOmEIANDoOLDmWgSAnhpydc?I3Hz0TDK 1-3-0 1-11-0 1-3-0 1-11-0 11-10-0 23-8-024-11-0 1-11-0 1-3-0 16-6-1 3-4-12 6-6-4 4-8-1 1-10-3 3-4-12

Scale = 1:68.7 5x5 // 12 5x5 📏 13 32 33 12.00 12 15 2x6 || 2x6 || 2x6 || 2x6 || 2x6 || 16 3x6 II 8-2-4 9-3x6 II 18 12-7-0 119 2-8-1 0-5-0 05-0 28 27 26 25 24 23 22 21 20 5x8 || 2x6 || 2x6 || 6x8 2x6 || 2x6 || 5x8 || 2x6 || 2x6 || 1-11-0 18-4-4 23-8-0 1-11-0 21-9-0 5-3-12 SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP Plate Grip DOL 244/190 1.15 TC 0.18 Vert(LL) 0.00 18 n/r 120 MT20 Lumber DOL 1.15 BC 0.32 Vert(CT) 0.00 18 n/r 120 WB 0.31 Horz(CT) Rep Stress Incr YES -0.00 20 n/a n/a Code IRC2018/TPI2014

BRACING-

TOP CHORD

BOT CHORD

JOINTS

LUMBER-

LOADING (psf)

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x10 SP No.1

20.0

10.0

0.0

10.0

WFBS 2x6 SP No.1 **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 23-8-0.

(lb) -Max Horz 28=-385(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) except 28=-349(LC 8), 20=-329(LC 9), 26=-982(LC 18), 27=-367(LC 12), 22=-982(LC 18), 21=-363(LC 13)

Max Grav All reactions 250 lb or less at joint(s) except 28=636(LC 21), 25=1787(LC 23), 23=1784(LC 22),

Matrix-S

20=619(LC 20), 27=427(LC 10), 21=411(LC 11)

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

TOP CHORD 2-3=-407/256, 3-4=-260/177, 4-5=-219/294, 5-6=-471/205, 6-7=-733/170, 7-8=-613/107,

12-13=-613/111, 13-14=-733/171, 14-15=-471/205, 15-16=-219/289, 16-17=-251/169,

17-18=-395/241, 2-28=-427/212, 18-20=-417/199, 8-9=-594/98, 9-10=-594/98,

10-11=-594/98, 11-12=-594/98

WEBS 6-31=-2/474, 30-31=-2/475, 29-30=-2/475, 29-32=-2/475, 32-33=-2/475, 14-33=-1/473,

5-25=-660/38, 15-23=-660/27

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-1-10 to 3-3-3, Interior(1) 3-3-3 to 8-6-1, Exterior(2R) 8-6-1 to 12-10-14, Interior(1) 12-10-14 to 15-1-15, Exterior(2R) 15-1-15 to 19-10-3, Interior(1) 19-10-3 to 24-9-10 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 10) Ceiling dead load (10.0 psf) on member(s). 5-6, 14-15, 6-31, 30-31, 29-30, 29-32, 32-33, 14-33; Wall dead load (5.0psf) on
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 349 lb uplift at joint 28, 329 lb uplift at joint 20, 982 lb uplift at joint 26, 367 lb uplift at joint 27, 982 lb uplift at joint 22 and 363 lb uplift at joint 21.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and Continui etten nagsasjanzdard ANSI/TPI 1.



Weight: 270 lb

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 8-12.

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

1 Brace at Jt(s): 29, 30, 32

FT = 20%

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



Job	Truss	Truss Type	Qty	Ply	Lot 19 Liberty Meadow
14004 0400	0405	CARLE	_	,	152879063
J1021-6180	C1GE	GABLE	1	1	Job Reference (optional)

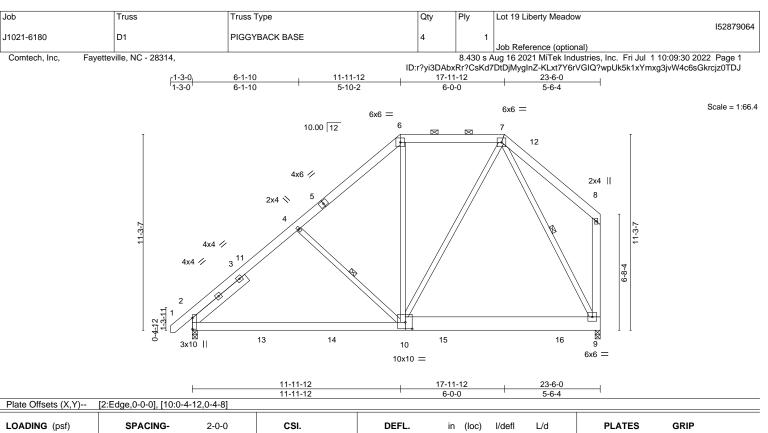
8.430 s Aug 16 2021 MTek Industries, Inc. Fri Jul 1 10:09:29 2022 Page 2 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-s9NVwC5DkyAZOmEIANDoOLDmWgSAnhpydc?I3Hz0TDK

13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

14) Attic room checked for L/360 deflection.



818 Soundside Road Edenton, NC 27932



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.19 2-10 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.30 2-10 >940 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.53	Horz(CT) 0.01 9 n/a n/a	
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.01 2-10 >999 240	Weight: 229 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x6 SP No.1 *Except*

9-10: 2x10 SP No.1 WEBS 2x4 SP No.2 *Except*

8-9: 2x6 SP No.1

Left 2x6 SP No.1 4-0-15 **SLIDER**

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

Max Horz 2=264(LC 12) Max Uplift 2=-35(LC 12), 9=-45(LC 12)

Max Grav 2=1216(LC 19), 9=1172(LC 2)

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

TOP CHORD 2-4=-1223/224, 4-6=-998/238, 6-7=-706/270 **BOT CHORD**

2-10=-300/957, 9-10=-80/427 **WEBS** 4-10=-307/258, 6-10=0/356, 7-10=-67/665, 7-9=-877/160

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 11-11-12, Exterior(2E) 11-11-12 to 23-3-4 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 2 and 45 lb uplift at ioint 9.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

4-10, 7-9

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

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

1 Row at midpt

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

Job Truss Truss Type Qty Ply Lot 19 Liberty Meadow 152879065 PIGGYBACK BASE SUPPO .11021-6180 D1GF Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 1 10:09:31 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-oXVFKu7TFaQHd4OhloFGTmJ8oTCMFd3F4wUP89z0TDI 24-9-0

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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 10-13.

14-21, 12-22, 11-23, 10-25, 9-26, 15-20

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

1-3-0 11-11-12 6-0-0 5-6-4

6x6 =

6x6 = 10 10.00 12 13 14 32 15 4x6 // 16 17 8 11-3-7 Ø 4x4 / 3x10 | 24 23 30 29 28 27 26 25 22 21 20 19 18 6x6 =

1-3-0 24-9-0

BRACING-

TOP CHORD

BOT CHORD

WEBS

Plate Offsets (X,Y)	[2:Edge,0-0-0], [13:0-3-0,0-1-1], [24:0-2-8,0-1-4]

LOADIN	G (psf)	SPACING- 2-	-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1	.15	TC	0.06	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1	.15	BC	0.02	Vert(CT)	-0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr Y	′ES	WB	0.13	Horz(CT)	-0.00	18	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI201	14	Matri	x-S	, ,					Weight: 270 lb	FT = 20%

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD WEBS** 2x6 SP No.1 **OTHERS** 2x4 SP No.2

(lb) -

Left 2x6 SP No.1 1-9-2 **SLIDER**

All bearings 23-6-0.

Max Horz 2=394(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 18, 22, 23, 25, 29, 20 except 26=-103(LC 12), 27=-117(LC 12), 28=-113(LC 12), 30=-289(LC 12), 19=-105(LC 13), 2=-189(LC 10)

Max Grav All reactions 250 lb or less at joint(s) 18, 21, 22, 23, 25, 26, 27, 28, 29, 20, 19 except 30=261(LC

19), 2=366(LC 12)

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

TOP CHORD 2-4=-513/342, 4-5=-304/246

WEBS 4-30=-203/282

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -1-1-9 to 3-3-4, Exterior(2N) 3-3-4 to 11-11-12 Corner(3R) 11-11-12 to 16-4-9, Exterior(2N) 16-4-9 to 17-10-12, Corner(3R) 17-10-12 to 22-3-9, Exterior(2N) 22-3-9 to 23-3-4 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.
- Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf 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) 18, 22, 23, 25, 29, 20 except (jt=lb) 26=103, 27=117, 28=113, 30=289, 19=105, 2=189.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Scale = 1:67.1

Job Truss Truss Type Qty Ply Lot 19 Liberty Meadow 152879066 .11021-6180 COMMON 2 G1 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 1 10:09:32 2022 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-Gk3eYE750tY8FDztrWmV0zrlotTO_3BOJaDygbz0TDH -1-3-0 1-3-0 10-4-4 20-8-8 5-5-15 5-5-15 4-10-4 4-10-4 5-6-0 1-3-0 Scale = 1:47.4 5x5 = 8.00 12 2x4 💸 11 2x4 // 10 8 9 3x4 4x6 = 3x10 =20-8-8 10-4-4 Plate Offsets (X,Y)--[3:0-0-0,0-0-0] LOADING (psf) SPACING-**PLATES** GRIP CSI. (loc) I/defl L/d Plate Grip DOL 244/190 **TCLL** 20.0 1.15 TC 0.11 Vert(LL) -0.06 6-9 >999 360 MT20

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.12

0.02

0.01

6-9

6

9

>999

>999

n/a

240

n/a

240

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

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

Weight: 141 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No.1 2x6 SP No.1 **BOT CHORD WEBS** 2x4 SP No.2

10.0

10.0

0.0

REACTIONS.

(size) 6=0-3-8, 2=0-3-8 Max Horz 2=183(LC 11) Max Uplift 6=-61(LC 13), 2=-61(LC 12) Max Grav 6=893(LC 1), 2=893(LC 1)

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

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

TOP CHORD 2-3=-1109/258, 3-4=-852/228, 4-5=-852/228, 5-6=-1109/258

BOT CHORD 2-9=-114/899, 6-9=-112/863

WEBS 4-9=-95/599, 5-9=-322/216, 3-9=-321/216

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-7 to 3-3-6, Interior(1) 3-3-6 to 10-4-4, Exterior(2R) 10-4-4 to 14-9-1, Interior(1) 14-9-1 to 21-9-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

вс

WB

Matrix-S

0.35

0.20

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

1.15

YES

- * This truss has been designed for a live load of 30.0psf 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) 6, 2.
- 6) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 4,2022

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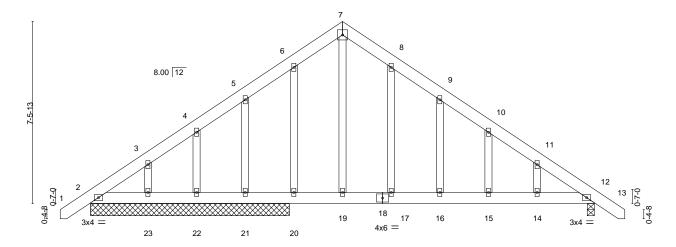
Job Truss Truss Type Qty Ply Lot 19 Liberty Meadow 152879067 .11021-6180 **GABLE** G1GF Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 1 10:09:33 2022 Page 1 Fayetteville, NC - 28314, Comtech, Inc.

> -1-3-0 1-3-0 10-4-4 10-4-4

ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-kwd0la8jnBg?sNY3PDHkYBORRHpWjX2YYEzVC2z0TDG 10-4-4 1-3-0

5x5 =

Scale = 1:47.4



20-8-8

Plate Offsets (X,Y)--[8:0-0-0,0-0-0], [9:0-0-0,0-0-0], [10:0-0-0,0-0-0], [11:0-0-0,0-0-0]

- 10.10									
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP				
TCLL	20.0	Plate Grip DOL 1.15	TC 0.24	Vert(LL) -0.09 15-16 >999 360	MT20 244/190				
TCDL	10.0	Lumber DOL 1.15	BC 0.36	Vert(CT) -0.19 15-16 >920 240					
BCLL	0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT) 0.01 12 n/a n/a					
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) 0.15 15-16 >999 240	Weight: 163 lb FT = 20%				

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **OTHERS** 2x4 SP No.2 BRACING-

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

REACTIONS. All bearings 8-2-0 except (jt=length) 12=0-3-8.

(lb) -Max Horz 2=229(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 23 except 2=-116(LC 13), 21=-163(LC 9), 22=-110(LC 13),

12=-216(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 21, 22, 23 except 2=582(LC 20), 12=828(LC 1)

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

TOP CHORD 2-3=-858/184, 3-4=-823/226, 4-5=-820/284, 5-6=-758/288, 6-7=-720/329, 7-8=-669/296,

8-9=-688/232, 9-10=-719/177, 10-11=-762/126, 11-12=-835/71

BOT CHORD 2-23=0/589, 22-23=0/589, 21-22=0/589, 20-21=0/589, 19-20=0/589, 17-19=0/589,

16-17=0/589, 15-16=0/589, 14-15=0/589, 12-14=0/589

WEBS 7-19=-203/468

NOTES-

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

- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-1-7 to 3-3-6, Interior(1) 3-3-6 to 10-4-4, Exterior(2R) 10-4-4 to 14-9-1, Interior(1) 14-9-1 to 21-9-15 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.
- 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.
- * This truss has been designed for a live load of 30.0psf 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) 23 except (jt=lb) 2=116, 21=163, 22=110, 12=216.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



July 4,2022

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Job Truss Truss Type Qty Lot 19 Liberty Meadow Ply 152879068 .11021-6180 G1GRD Common Girder 2 | Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 1 10:09:34 2022 Page 1 Comtech, Inc. ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-D6BOzw9MYVosUX7Gzxpz5Owb5h8QSrPhnui3IUz0TDF 20-8-8 10-4-4 15-2-8 5-5-15 4-10-4 4-10-4 5-5-15 Scale = 1:43.2 5x12 || 3 8.00 12 2x4 \\ 2x4 // 10 11 8 12 13 14 15 7 6 16 17 18 19 5x8 = 4x12 || 6x8 = 4x12 || 13-7-2 20-8-8 7-1-6 Plate Offsets (X,Y)--[6:0-8-0,0-1-8], [8:0-8-0,0-1-8] LOADING (psf) SPACING-**PLATES** GRIP CSI. DEFL. (loc) I/def L/d 244/190 **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) -0.11 6-8 >999 360 MT20 **TCDL** Lumber DOL вс Vert(CT) 10.0 1.15 0.45 -0.18 6-8 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.73 Horz(CT) 0.03 5 n/a n/a Code IRC2018/TPI2014 Wind(LL) Weight: 343 lb FT = 20%**BCDL** 10.0 Matrix-S 0.06 6-8 >999 240

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 2x10 SP 2400F 2.0E **BOT CHORD WEBS** 2x4 SP No.2

REACTIONS.

(size) 1=0-3-8, 5=0-3-8 Max Horz 1=-164(LC 27) Max Uplift 1=-384(LC 8), 5=-431(LC 9) Max Grav 1=7268(LC 2), 5=8187(LC 2)

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

TOP CHORD 1-2=-10016/549, 2-3=-9890/603, 3-4=-9974/608, 4-5=-10099/553

BOT CHORD 1-8=-470/8275, 6-8=-245/5726, 5-6=-399/8348

WEBS 3-6=-362/5960, 4-6=-305/206, 3-8=-355/5798, 2-8=-304/211

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-3-0 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.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); 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.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=384, 5=431.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1365 lb down and 81 lb up at 2-0-12, 1365 lb down and 81 lb up at 4-0-12, 1365 lb down and 81 lb up at 6-0-12, 1365 lb down and 81 lb up at 8-0-12, 1366 lb down and 81 lb up at 10-0-12, 1357 lb down and 81 lb up at 12-0-12, 1372 lb down and 81 lb up at 14-0-12, 1372 lb down and 81 lb up at 16-0-12, and 1372 lb down and 81 lb up at 18-0-12, and 1374 lb down and 79 lb up at 19-9-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



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

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

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Lot 19 Liberty Meadow Job Truss Truss Type Qty Ply 152879068 J1021-6180 Common Girder G1GRD 1 2 Job Reference (optional)

8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 1 10:09:34 2022 Page 2 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-D6BOzw9MYVosUX7Gzxpz5Owb5h8QSrPhnui3IUz0TDF

Fayetteville, NC - 28314, Comtech, Inc,

LOAD CASE(S) Standard

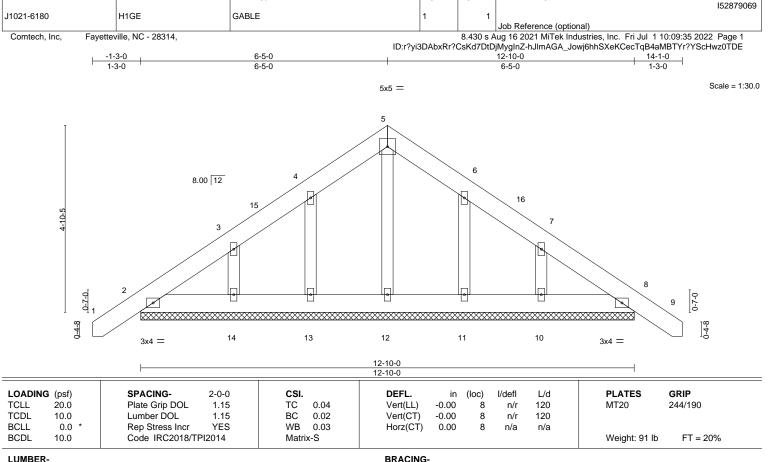
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf)

Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 7=-1155(B) 9=-1155(B) 10=-1155(B) 11=-1155(B) 12=-1155(B) 14=-1155(B) 16=-1155(B) 17=-1155(B) 18=-1155(B) 19=-1157(B)





Qty

Ply

Lot 19 Liberty Meadow

2x6 SP No.1 2x6 SP No.1 **BOT CHORD**

2x4 SP No.2 OTHERS

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 12-10-0.

(lb) -Max Horz 2=151(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 11 except 14=-101(LC 12), 10=-101(LC 13)

Truss Type

Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

TOP CHORD

Job

Truss

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner (3E) -1-1-7 to 3-3-6, Exterior (2N) 3-3-6 to 6-5-0, Corner(3R) 6-5-0 to 10-9-13, Exterior(2N) 10-9-13 to 13-11-7 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.
- * This truss has been designed for a live load of 30.0psf 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, 8, 13, 11 except (it=lb) 14=101, 10=101,
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job Truss Truss Type Qty Ply Lot 19 Liberty Meadow 152879070 .11021-6180 **SCISSORS** K1 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 1 10:09:36 2022 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-9VI8OcBc462ajrGe4LrRAp0xSUuVwuC_ECB9pNz0TDD 15-3-0 10-4-4 3-7-12 7-0-0 14-0-0 1-3-0 3-7-12 3-4-4 3-4-4 3-7-12 1-3-0 Scale = 1:42.1 5x5 = 10.00 12 5x5 // 5x5 📏 5 10 5x5 📏 5x8 ||

				1-0-0				7-0-0					
Plate Of	Plate Offsets (X,Y) [2:0-2-6,0-0-4], [6:0-2-6,0-0-4]												
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	-0.02	6-8	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.15	Vert(CT)	-0.04	6-8	>999	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.02	6	n/a	n/a			

Wind(LL)

TOP CHORD

BOT CHORD

-0.02

5.00 12

Matrix-S

7-0-0

LUMBER-BRACING-

Code IRC2018/TPI2014

3x10 ||

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **WEBS** 2x4 SP No.2

10.0

SLIDER Left 2x8 SP No.1 4-8-10, Right 2x8 SP No.1 4-8-10

REACTIONS. (size) 2=0-5-8, 6=0-5-8 Max Horz 2=162(LC 11)

Max Uplift 2=-37(LC 12), 6=-37(LC 13)

Max Grav 2=624(LC 1), 6=624(LC 1)

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

TOP CHORD 2-4=-817/132, 4-6=-823/159

BOT CHORD 2-8=-14/616, 6-8=-6/610

WEBS 4-8=0/589

NOTES-

BCDL

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 7-0-0, Exterior(2R) 7-0-0 to 11-4-13, Interior(1) 11-4-13 to 15-1-9 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.
- * This truss has been designed for a live load of 30.0psf 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) 2, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



3x10 ||

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

Weight: 121 lb

FT = 20%

240

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

14-0-0

8 >999

July 4,2022

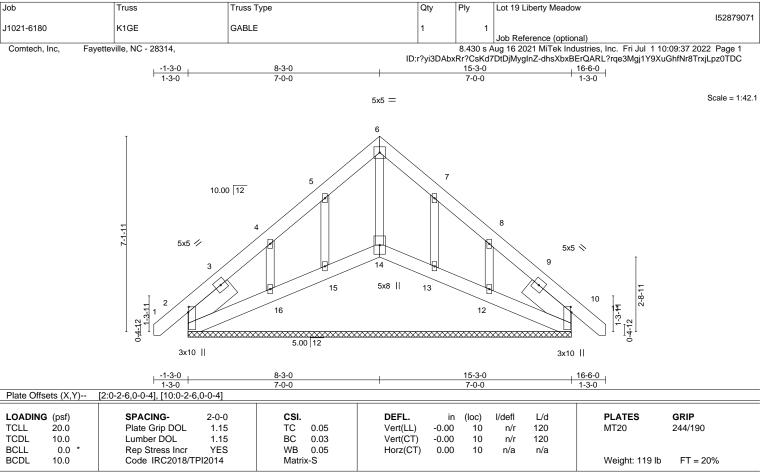


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TOP CHORD

BOT CHORD

LUMBER- BRACING-

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1

OTHERS 2x4 SP No.2 SLIDER Left 2x8 SP No.1 2-1-6, Right 2x8 SP No.1 2-1-6

REACTIONS. All bearings 14-0-0.

(lb) - Max Horz 2=203(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 14, 10, 15, 13 except 2=-136(LC 13), 16=-219(LC 12),

12=-206(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 10, 15, 13, 12 except 2=272(LC 20), 14=319(LC 13),

16=265(LC 19)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -1-1-9 to 3-0-0, Interior(1) 3-0-0 to 7-0-0, Exterior(2R) 7-0-0 to 11-4-13, Interior(1) 11-4-13 to 15-1-9 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.
-) 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 30.0psf 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) 14, 10, 15, 13 except (jt=lb) 2=136, 16=219, 12=206.
- 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

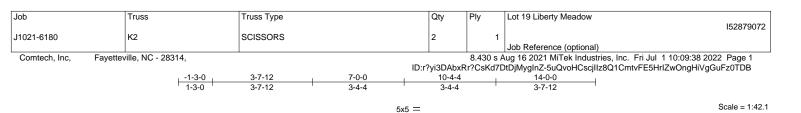
Rigid ceiling directly applied or 10-0-0 oc bracing.

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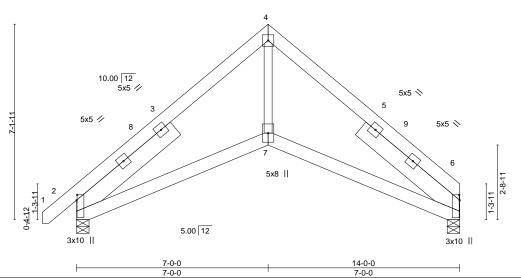


Plate Off	Plate Offsets (X,Y) [2:0-2-6,0-0-4], [6:0-2-6,0-0-4]										
LOADIN	G (psf)	SPACING- 2-0-	cs	l.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.1	5 TC	0.20	Vert(LL)	-0.02	6-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.1	5 BC	0.15	Vert(CT)	-0.04	6-7	>999	240		
BCLL	0.0 *	Rep Stress Incr YE	S WE	0.14	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Ма	trix-S	Wind(LL)	-0.02	7	>999	240	Weight: 118 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1 **WEBS** 2x4 SP No.2

SLIDER Left 2x8 SP No.1 4-8-10, Right 2x8 SP No.1 4-8-10

REACTIONS. (size) 6=0-5-8, 2=0-5-8

Max Horz 2=162(LC 9) Max Uplift 6=-18(LC 13), 2=-37(LC 12)

Max Grav 6=542(LC 1), 2=628(LC 1)

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

TOP CHORD 2-4=-827/144, 4-6=-831/168 **BOT CHORD** 2-7=-16/620, 6-7=-8/615

WEBS 4-7=0/593

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 7-0-0, Exterior(2R) 7-0-0 to 11-4-13, Interior(1) 11-4-13 to 13-9-14 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.
- * This truss has been designed for a live load of 30.0psf 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) 6, 2 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) 6, 2.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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



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Job Truss Truss Type Qty Ply Lot 19 Liberty Meadow 152879073 J1021-6180 SCISSORS 4 K3 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 1 10:09:38 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-5uQvoHCscjlIz8Q1CmtvFE5HzIZzOnpHiVgGuFz0TDB Fayetteville, NC - 28314, Comtech, Inc.

7-0-0 13-10-0 -1-3-0 3-7-12 1-3-0 3-7-12 3-4-4 3-4-4 3-5-12

> Scale = 1:41.9 5x5 =

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

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

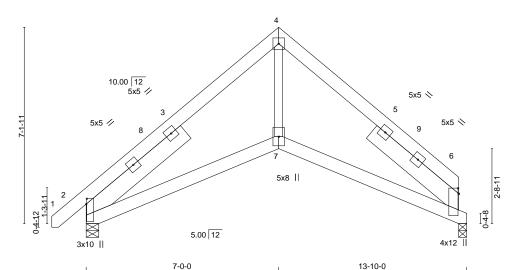


Plate Offsets (X,Y)-- [2:0-2-6,0-0-4], [6:0-2-6,0-0-4]

LOADIN	G (nef)	SPACING- 2-0-0	CSI.	DEFL. in	(loc)	l/defl	L/d	PLATES	GRIP
LOADIN	G (psi)	31 ACING- 2-0-0	COI.	DLI L. III	(100)	i/ucii	L/U	ILAILO	GIVII
TCLL	20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.02	2-7	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.04	2-7	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.13	Horz(CT) 0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2018/TPI2014	Matrix-S	Wind(LL) -0.02	7	>999	240	Weight: 115 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 SP No.1

WEBS 2x4 SP No.2 SLIDER Left 2x8 SP No.1 4-8-10, Right 2x8 SP No.1 4-2-15

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

Max Horz 2=162(LC 9)

Max Uplift 2=-37(LC 12), 6=-18(LC 12) Max Grav 2=610(LC 1), 6=524(LC 1)

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

TOP CHORD 2-4=-778/142, 4-6=-799/174 **BOT CHORD** 2-7=-22/581, 6-7=-14/573

WEBS 4-7=0/556

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -1-1-9 to 3-3-4, Interior(1) 3-3-4 to 7-0-0, Exterior(2R) 7-0-0 to 11-4-13, Interior(1) 11-4-13 to 13-4-6 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.
- * This truss has been designed for a live load of 30.0psf 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) 2, 6.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job Truss Truss Type Qty Ply Lot 19 Liberty Meadow 152879074 J1021-6180 9 PB1 Piggyback Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 1 10:09:39 2022 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-Z4_H0dDUN1Q9al?DmUO8oSeS4ixd7GoQw9QqQhz0TDA 3-5-1 3-5-1 Scale = 1:22.4 3 12.00 12 3-5-1 0-1-10 2x4 = 2x4 = 2x4 II 6-10-2 Plate Offsets (X,Y)--[2:0-2-6,0-1-0], [4:0-2-6,0-1-0] SPACING-**PLATES** GRIP LOADING (psf) CSI. DEFL. I/defI L/d (loc) **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.23 Vert(LL) 0.00 5 n/r 120 MT20 244/190

Vert(CT)

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

0.00

0.00

5

4

n/r

n/a

120

n/a

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

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

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD OTHERS** 2x4 SP No.2

10.0

10.0

0.0

REACTIONS.

(size) 2=5-8-8, 4=5-8-8, 6=5-8-8

Lumber DOL

Rep Stress Incr

Code IRC2018/TPI2014

Max Horz 2=-77(LC 10)

Max Uplift 2=-27(LC 13), 4=-31(LC 13)

Max Grav 2=162(LC 1), 4=162(LC 1), 6=177(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

вс

WB

Matrix-P

0.06

0.02

- 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.

1.15

YES

- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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FT = 20%

Weight: 27 lb

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Job Truss Truss Type Qty Ply Lot 19 Liberty Meadow 152879075 .11021-6180 PB1GF **GABLE** 1 Job Reference (optional) 8.430 s Aug 16 2021 MiTek Industries, Inc. Fri Jul 1 10:09:40 2022 Page 1 ID:r?yi3DAbxRr?CsKd7DtDjMygInZ-1GYfDzE68LY?CSaPJBvNLfAfT5HRsjZa9p9Ny8z0TD9 Fayetteville, NC - 28314, Comtech, Inc. 3-5-1 3-5-1 Scale: 1/2"=1' 12.00 12 2x4 || 2x4 6 7 0-1-10 10 2x4 = 2x4 = 2x4 || 2x4 || 2x4 | 6-10-2 LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP Plate Grip DOL 0.07 MT20 244/190 **TCLL** 20.0 1.15 TC Vert(LL) n/a n/a 999 **TCDL** 10.0 Lumber DOL 1.15 BC 0.02 Vert(CT) n/a n/a 999 **BCLL** WB Horz(CT) 0.0 Rep Stress Incr YES 0.05 0.00 7 n/a n/a **BCDL** 10.0 Code IRC2018/TPI2014 Matrix-P Weight: 29 lb FT = 20%

LUMBER-

2x4 SP No.1 TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 OTHERS

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 6-10-2.

(lb) -Max Horz 1=-96(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6 except 10=-152(LC 12), 8=-150(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

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

WEBS 3-10=-205/273. 5-8=-205/273

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- * This truss has been designed for a live load of 30.0psf 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) 7, 6 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) 1, 7, 2, 6 except (jt=lb) 10=152, 8=150. 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and
- referenced standard ANSI/TPI 1. 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



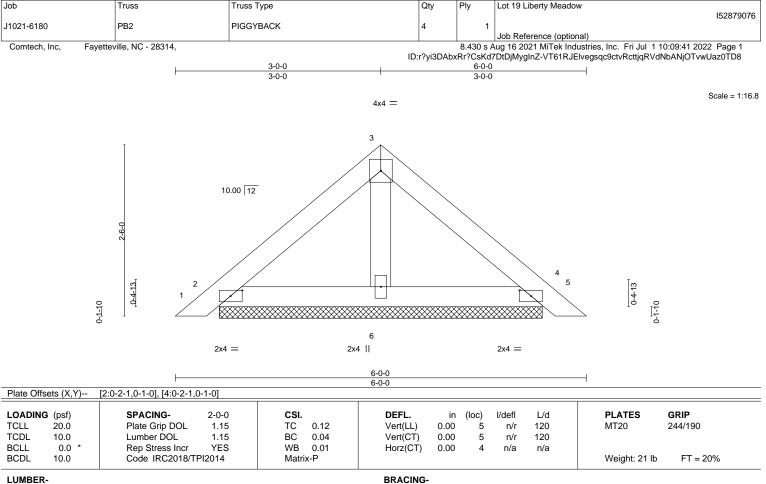
July 4,2022

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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD OTHERS** 2x4 SP No.2

REACTIONS. (size) 2=4-8-9, 4=4-8-9, 6=4-8-9

Max Horz 2=-55(LC 10) Max Uplift 2=-23(LC 12), 4=-28(LC 13)

Max Grav 2=136(LC 1), 4=136(LC 1), 6=155(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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

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

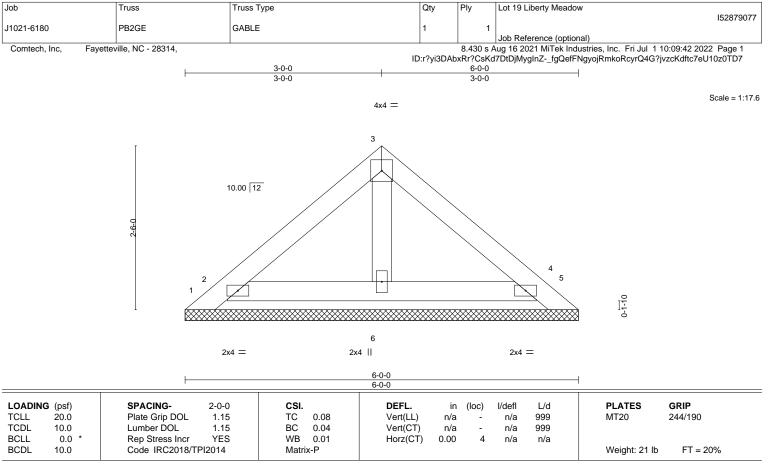
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LUMBER-

2x4 SP No.1 TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 OTHERS

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 6-0-0.

(lb) -Max Horz 1=-69(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 5 except 1=-120(LC 19), 2=-177(LC 12), 4=-154(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 4, 6 except 2=264(LC 19)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- * This truss has been designed for a live load of 30.0psf 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) 5 except (jt=lb) 1=120, 2=177, 4=154.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

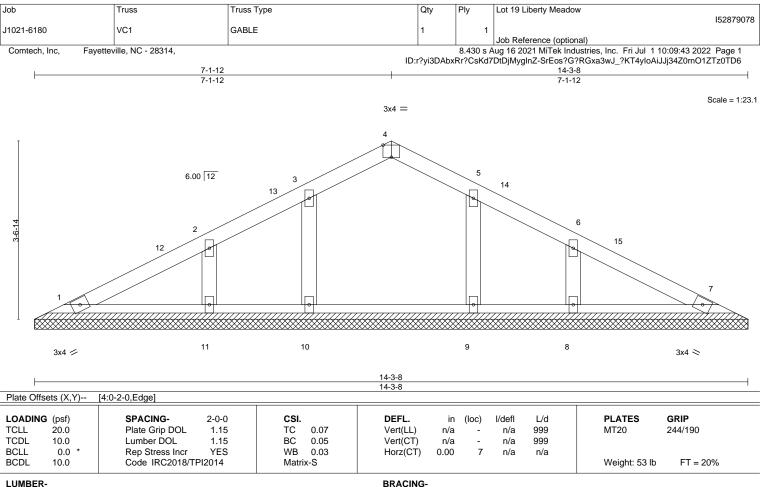


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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD OTHERS** 2x4 SP No.2

REACTIONS. All bearings 14-3-8. (lb) -Max Horz 1=-43(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 10, 11, 9, 8 Max Grav All reactions 250 lb or less at joint(s) 1, 7, 10, 11, 9, 8

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-7-7 to 5-0-3, Interior(1) 5-0-3 to 7-1-12, Exterior(2R) 7-1-12 to 11-6-9, Interior(1) 11-6-9 to 13-8-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf 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) 10, 11, 9, 8.
- 8) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

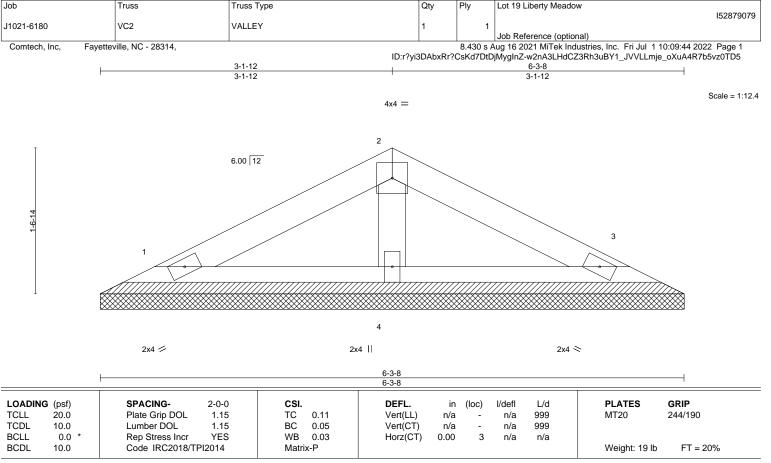
Rigid ceiling directly applied or 10-0-0 oc bracing.

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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 **OTHERS**

REACTIONS. (size) 1=6-3-8, 3=6-3-8, 4=6-3-8

Max Horz 1=-16(LC 8)

Max Uplift 1=-16(LC 12), 3=-19(LC 13)

Max Grav 1=103(LC 1), 3=103(LC 1), 4=199(LC 1)

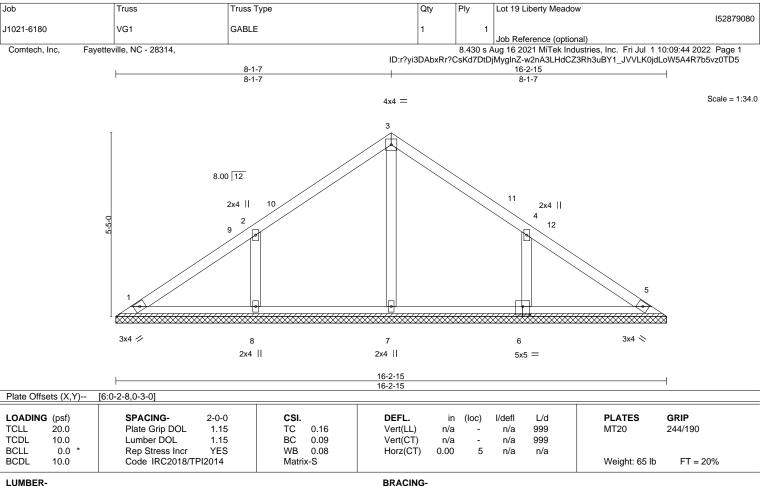
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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



TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD OTHERS** 2x4 SP No.2

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

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

REACTIONS. All bearings 16-2-15.

Max Horz 1=-122(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-109(LC 12), 6=-104(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=388(LC 19), 6=378(LC 20)

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

WEBS 2-8=-295/219, 4-6=-286/212

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-12 to 4-10-9, Interior(1) 4-10-9 to 8-1-7, Exterior(2R) 8-1-7 to 12-6-4, Interior(1) 12-6-4 to 15-9-2 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=109, 6=104.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.





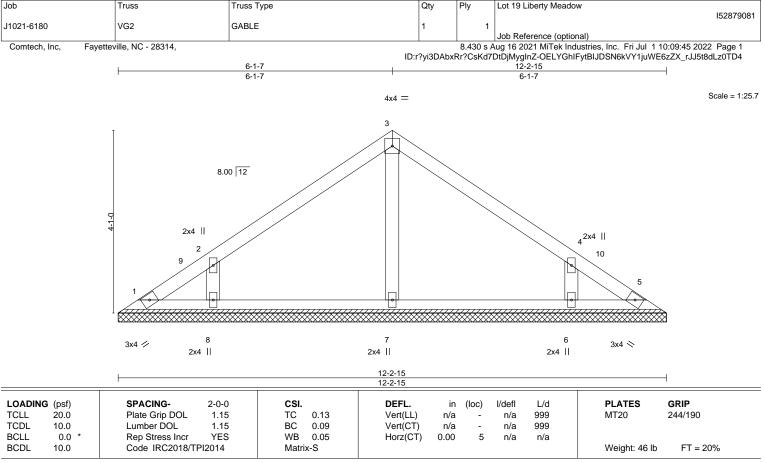


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LUMBER-

2x4 SP No.1 TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 OTHERS

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 12-2-15.

(lb) -Max Horz 1=90(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 1, 5, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=264(LC 1), 8=314(LC 19), 6=314(LC 20)

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

WEBS 2-8=-252/229. 4-6=-252/229

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-5-12 to 4-10-9, Interior(1) 4-10-9 to 6-1-7, Exterior(2R) 6-1-7 to 10-6-4, Interior(1) 10-6-4 to 11-9-2 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.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 8, 6.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

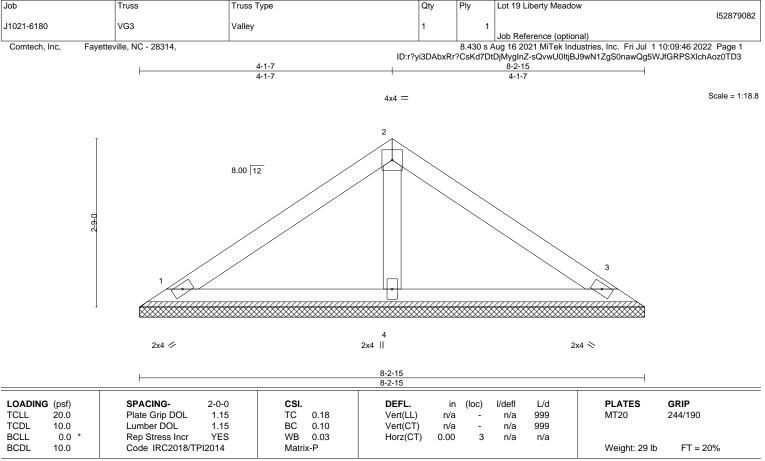


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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters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

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





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 **OTHERS**

(size) 1=8-2-15, 3=8-2-15, 4=8-2-15

Max Horz 1=-58(LC 8)

Max Uplift 1=-25(LC 12), 3=-31(LC 13)

Max Grav 1=158(LC 1), 3=158(LC 1), 4=266(LC 1)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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

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

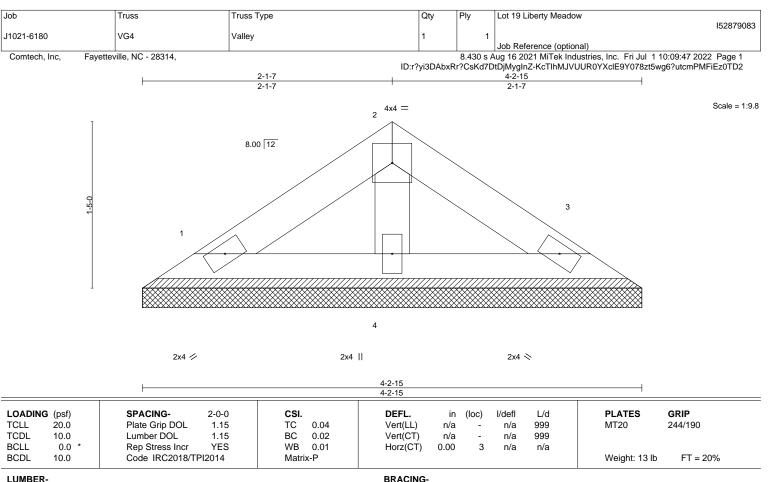


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AMSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No.1 **BOT CHORD** 2x4 SP No.1 2x4 SP No.2 **OTHERS**

REACTIONS. (size) 1=4-2-15, 3=4-2-15, 4=4-2-15

Max Horz 1=26(LC 9)

Max Uplift 1=-11(LC 12), 3=-14(LC 13)

Max Grav 1=71(LC 1), 3=71(LC 1), 4=120(LC 1)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



Structural wood sheathing directly applied or 4-2-15 oc purlins.

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

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

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



Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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

DSB-89: ANSI/TPI1:

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

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

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

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

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

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

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designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4

- Cut members to bear tightly against each other
- 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.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication

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- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or 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 project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.



Client:

Project: Address: **Precision Custom Homes**

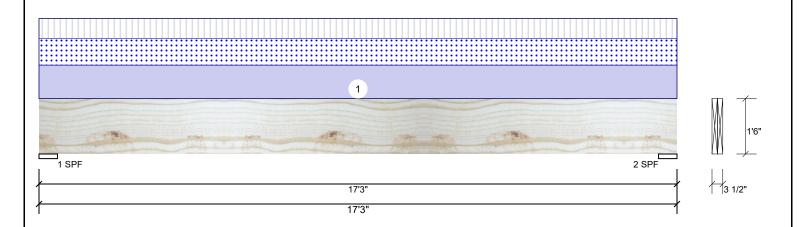
Date: 7/20/2022

Input by: Hampton Horrocks Job Name: Lot 19 Liberty Meadow Page 1 of 3

Project #: J1021-6181

2-Ply - PASSED **Kerto-S LVL** 1.750" X 18.000" **GDH**

Level: Level



Member Information Reactions UNPATTERNED Ib (Uplift) Application: Wind Type: Floor Brg Direction Live Dead Snow Const Plies: 2 Design Method: ASD 1708 3010 2320 0 Vertical 0 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 1708 3010 2320 0 0 Deflection LL: 480 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature: **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. D+0.75(L+S) 1-SPF 6.000" Vert 68% 3010 / 3021 6031 L D+0.75(L+S) 2 - SPF 6.000" Vert 68% 3010 / 3021 6031 L

Analysis Results

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	23497 ft-lb	8'7 1/2"	49428 ft-lb	0.475 (48%)	D+0.75(L+S)	L
Unbraced	23497 ft-lb	8'7 1/2"	23555 ft-lb	0.998 (100%)	D+0.75(L+S)	L
Shear	4654 lb	2'	15456 lb	0.301 (30%)	D+0.75(L+S)	L
LL Defl inch	0.189 (L/1041)	8'7 9/16"	0.410 (L/480)	0.461 (46%)	0.75(L+S)	L
TL Defl inch	0.377 (L/522)	8'7 9/16"	0.820 (L/240)	0.460 (46%)	D+0.75(L+S)	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at a maximum of 5'7 1/4" o.c.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Тор	335 PLF	198 PLF	269 PLF	0 PLF	0 PLF	C1 Roof
	Self Weight				14 PLF					

Calculated Structured Designs is responsible only of the structural adequacy of this component based on the design criteria and loadings shown. It is the responsibility of the customer and/or the contractor to ensure the component suitability of the intended application, and to verify the dimensions and loads.

- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code
- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

Comtech, Inc. 1001 S. Reilly Road, Suite #639 Fayetteville, NC USA 28314 910-864-TRUS



This design is valid until 11/3/2024





Client:

Address:

Project:

Precision Custom Homes

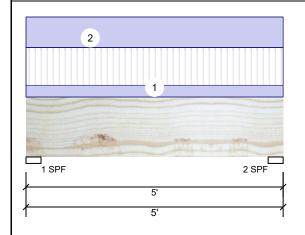
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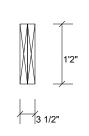
Input by: Hampton Horrocks Job Name: Lot 19 Liberty Meadow

Project #: J1021-6181

1.750" X 14.000" 2-Ply - PASSED **Kerto-S LVL** BM4

Level: Level





D+I

Page 2 of 3

Member Information Reactions UNPATTERNED Ib (Uplift) Application: Snow Wind Type: Floor Brg Direction Live Dead Const Plies: 2 Design Method: ASD 650 755 Vertical n 0 0 1 Moisture Condition: Dry **Building Code: IBC/IRC 2015** 2 Vertical 650 755 0 0 0 Deflection LL: 480 Load Sharing: No Deflection TL: 240 Deck: Not Checked Importance: Normal - II Temp <= 100°F Temperature: **Bearings** Bearing Length Dir. Cap. React D/L lb Total Ld. Case Ld. Comb. D+L 1 - SPF 3.500" Vert 27% 755 / 650 1405 L

2 - SPF 3.500"

Vert

27%

755 / 650

1405 L

Analysis Results

,						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	1449 ft-lb	2'6"	26999 ft-lb	0.054 (5%)	D+L	L
Unbraced	1449 ft-lb	2'6"	20546 ft-lb	0.071 (7%)	D+L	L
Shear	996 lb	3'6 1/2"	10453 lb	0.095 (10%)	D+L	L
LL Defl inch	0.003 (L/17407)	2'6"	0.114 (L/480)	0.028 (3%)	L	L
TL Defl inch	0.007 (L/8054)	2'6"	0.227 (L/240)	0.030 (3%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.
- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Far Face	81 PLF	260 PLF	0 PLF	0 PLF	0 PLF	F02	
2	Uniform			Тор	210 PLF	0 PLF	0 PLF	0 PLF	0 PLF	wall	
	Self Weight				11 PLF						

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code

- Damaged Beams must not be used
- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation

6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851 (800) 622-5850 www.metsawood.com/us

Manufacturer Info

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Client:

Project: Address: **Precision Custom Homes**

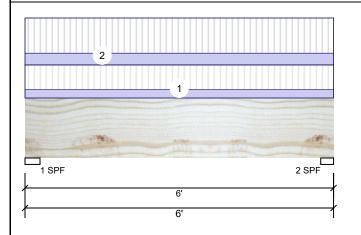
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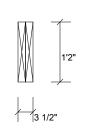
Input by: Hampton Horrocks Job Name: Lot 19 Liberty Meadow

Project #: J1021-6181

1.750" X 14.000" **Kerto-S LVL** 2-Ply - PASSED BM3

Level: Level





Page 3 of 3

Member Information

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 240 Importance: Normal - II

Application: Floor Design Method: ASD

> Load Sharing: No

Building Code:

Deck: Not Checked

IBC/IRC 2015

Reactions UNPATTERNED Ib (Uplift)

Brg	Direction	Live	Dead	Snow	Wind	Const
1	Vertical	1900	667	0	0	0
2	Vertical	1874	658	0	0	0

Bearings

Bearing Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF 3.500"	Vert	49%	667 / 1900	2567	L	D+L
2 - SPF 3.000"	Vert	57%	658 / 1874	2532	L	D+L

Analysis Results

Temperature:

An	alysis	Actual	Location	Allowed	Capacity	Comb.	Case
Mo	ment	3312 ft-lb	3' 1/4"	26999 ft-lb	0.123 (12%)	D+L	L
Un	braced	3312 ft-lb	3' 1/4"	17594 ft-lb	0.188 (19%)	D+L	L
Sh	ear	1745 lb	1'5 1/2"	10453 lb	0.167 (17%)	D+L	L
LL	Defl inch	0.014 (L/4667)	3' 1/4"	0.140 (L/480)	0.103 (10%)	L	L
TL	Defl inch	0.019 (L/3454)	3' 1/4"	0.279 (L/240)	0.069 (7%)	D+L	L

Design Notes

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Girders are designed to be supported on the bottom edge only.
- 3 Multiple plies must be fastened together as per manufacturer's details.
- 4 Top loads must be supported equally by all plies.

Temp <= 100°F

- 5 Top must be laterally braced at end bearings.
- 6 Bottom must be laterally braced at end bearings.
- 7 Lateral slenderness ratio based on single ply width.

ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Near Face	87 PLF	260 PLF	0 PLF	0 PLF	0 PLF	F02
2	Uniform			Тор	123 PLF	369 PLF	0 PLF	0 PLF	0 PLF	F06
	Self Weight				11 PLF					

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- Dry service conditions, unless noted otherwise
 LVL not to be treated with fire retardant or corrosive

Handling & Installation

LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals Damaged Beams must not be used

- Design assumes top edge is laterally restrained
 Provide lateral support at bearing points to avoid
 lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 11/3/2024

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