

RE: J1023-5799

Lot 56 Williams Farms

Trenco 818 Soundside Rd Edenton, NC 27932

**Site Information:** 

Customer: Project Name: J1023-5799

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

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

Design Code: IRC2015/TPl2014 Design Program: MiTek 20/20 8.4

Wind Code: ASCE 7-10 Wind Speed: 130 mph Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 33 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name	Date
1	160586418	A1GE	9/6/2023	21	160586438	PB2	9/6/2023
2	160586419	A2	9/6/2023	22	160586439	VA1	9/6/2023
3	160586420	A3	9/6/2023	23	160586440	VA2	9/6/2023
4	160586421	A4	9/6/2023	24	160586441	VA3	9/6/2023
5	160586422	A5	9/6/2023	25	160586442	VA4	9/6/2023
6	160586423	A6GE	9/6/2023	26	160586443	VA5	9/6/2023
7	160586424	B1GE	9/6/2023	27	160586444	VA6	9/6/2023
8	160586425	B2	9/6/2023	28	160586445	VA7	9/6/2023
9	160586426	B3	9/6/2023	29	160586446	VA8	9/6/2023
10	160586427	B4-GR	9/6/2023	30	160586447	VB1	9/6/2023
11	160586428	C1GE	9/6/2023	31	160586448	VB2	9/6/2023
12	160586429	C2	9/6/2023	32	160586449	VB3	9/6/2023
13	160586430	C3	9/6/2023	33	160586450	VB4	9/6/2023
14	160586431	D1GE	9/6/2023				
15	160586432	D2	9/6/2023				
16	160586433	M1GE	9/6/2023				

1 of 1

9/6/2023

9/6/2023

9/6/2023

9/6/2023

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.

M2

М3

PB1

M4GE

Truss Design Engineer's Name: Gilbert, Eric

My license renewal date for the state of North Carolina is December 31, 2023

North Carolina COA: C-0844

160586434

160586435

160586436

160586437

17

18

19

20

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.



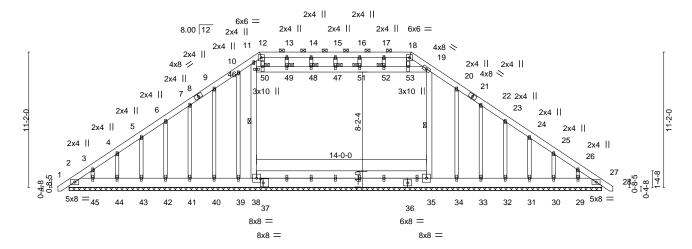
September 06, 2023

Job Truss Truss Type Qty Lot 56 Williams Farms 160586418 J1023-5799 A1GE **GABLE** Job Reference (optional) Comtech, Inc, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:12 2023 Page 1

Fayetteville, NC - 28314,

ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 43-11-0 -0<sub>-</sub>11<sub>-</sub>0 0-11-0 28-2-8 15<sub>7</sub>8-8 0-3-0 8-0-0 7-5-8 12-6-0 1-3-0 6-5-8 8-0-0

Scale = 1:95.0



	8-0-0	15-5-8	22-5-12	29-5-8	35-11-0	43-11-0	
	8-0-0	7-5-8	7-0-4	6-11-12	6-5-8	8-0-0	
Plate Offsets (X,Y) [3	37:0-2-8,0-4-0]						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TPI2		CSI. TC 0.44 BC 0.43 WB 0.56 Matrix-S	DEFL.         in           Vert(LL)         0.00           Vert(CT)         -0.00           Horz(CT)         0.01	(loc) l/defl 27 n/r 27 n/r 27 n/a	L/d PLATES 120 MT20 120 n/a Weight: 510 II	<b>GRIP</b> 244/190

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

**JOINTS** 

LUMBER-

TOP CHORD 2x6 SP No.1

**BOT CHORD** 2x10 SP No.1 \*Except\* 35-38: 2x8 SP No.1

2x6 SP No.1 \*Except\* WEBS 15-47: 2x4 SP No.2

2x4 SP No.2 **OTHERS** 

REACTIONS. All bearings 43-11-0.

Max Horz 2=331(LC 11) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 40, 41, 42, 43, 44, 45, 33, 32, 31,

30, 29 except 27=-107(LC 9), 39=-1601(LC 18), 34=-927(LC 18), 2=-161(LC 8)

All reactions 250 lb or less at joint(s) 41, 42, 43, 44, 45, 32, 31, 30, 29 except 27=489(LC 1), 38=2304(LC 18), 35=1611(LC 18), 40=328(LC 20),

33=413(LC 21), 2=505(LC 1)

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

TOP CHORD 2-3=-757/326, 3-4=-721/319, 4-5=-709/313, 5-6=-708/308, 6-7=-708/302, 7-9=-720/300,

9-10=-675/338, 10-11=-484/332, 11-12=-1475/517, 12-13=-1016/418, 13-14=-1016/418,

14-15=-1016/418, 15-16=-1016/418, 16-17=-1016/418, 17-18=-1016/418,

18-19=-1217/451, 19-20=-592/326, 20-22=-692/269, 22-23=-684/208, 23-24=-681/212,

24-25=-681/218, 25-26=-682/223, 26-27=-687/230

BOT CHORD 2-45=-187/603, 44-45=-187/603, 43-44=-187/603, 42-43=-187/603, 41-42=-187/603.

40-41=-187/603, 39-40=-187/603, 38-39=-187/603, 35-38=-181/583, 34-35=-181/583, 33-34=-181/583, 32-33=-181/583, 31-32=-181/583, 30-31=-181/583, 29-30=-181/583,

27-29=-181/583

WEBS 38-46=-747/193, 11-46=-1534/438, 19-35=-576/0, 46-50=-70/280, 49-50=-121/477, 48-49=-121/477, 47-48=-121/477, 47-51=-121/477, 51-52=-121/477, 52-53=-121/477,

19-53=-96/377, 13-49=-279/115, 12-50=-338/1313, 10-39=-135/350, 18-53=-156/548

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x6 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

SEAL

Structural wood sheathing directly applied or 5-6-4 oc purlins, except

38-46, 19-35

2-0-0 oc purlins (6-0-0 max.): 12-18.

1 Brace at Jt(s): 47, 48, 49, 50, 51, 52

1 Row at midpt

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

September 6,2023

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 56 Williams Farms
J1023-5799	A1GE	GABLE	1	1	160586418
31023-3799	AIGL	GABLE	'	'	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:13 2023 Page 2 ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

### NOTES-

- 9) \* 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). 46-50, 49-50, 48-49, 47-48, 47-51, 51-52, 52-53, 19-53; Wall dead load (5.0psf) on member(s).38-46, 19-35

  11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40, 41, 42, 43, 44, 45, 33, 32, 31, 30, 29 except (jt=lb) 27=107, 39=1601, 34=927, 2=161.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 14) Attic room checked for L/360 deflection.

and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Job Truss Truss Type Qty Ply Lot 56 Williams Farms 160586419 J1023-5799 A2 ATTIC 8 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:14 2023 Page 1 ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 4-6-10 oc purlins,

3-19

2-0-0 oc purlins (4-10-1 max.): 6-8.

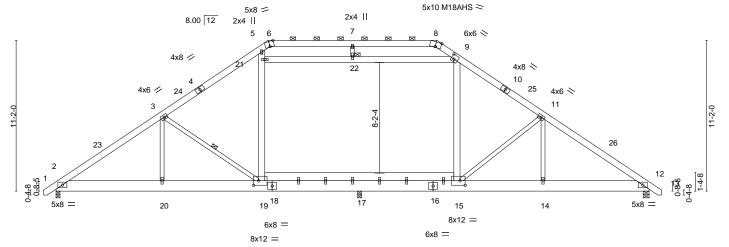
1 Row at midpt

1 Brace at Jt(s): 22

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

44-10-0 0-11-0 8-0-0 28-2-8 43-11-0 15<sub>7</sub>8-8 0-3-0 7-5-8 6-3-0 6-3-0 6-5-8 8-0-0

Scale = 1:85.3



	1	8-0-0	15-5-6	1 22-5-12	1 29-5-8	35-11-0	43-11-0	
	ı	8-0-0	7-5-8	7-0-4	6-11-12	6-5-8	8-0-0	1
Plate Offse	ets (X,Y)	[6:0-4-0,Edge], [8:0-5-0	),Edge], [9:0-2-8,	0-3-12], [15:0-4-8,0-4-0],	[19:0-4-8,0-4-0]			
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 0.67	Vert(LL) -0.21 19-20	>999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.67	Vert(CT) -0.31 19-20	>864 240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT) 0.05 1	2 n/a n/a		
BCDL	10.0	Code IRC2015/	TPI2014	Matrix-S	Wind(LL) 0.18 19-20	) >999 240	Weight: 455 lb	FT = 20%
		1					_	

TOP CHORD

**BOT CHORD** 

**WEBS** 

**JOINTS** 

LUMBER-BRACING-

2x6 SP No.1 TOP CHORD

**BOT CHORD** 2x10 SP No.1 \*Except\* 15-19: 2x8 SP No.1

**WEBS** 2x4 SP No.2 \*Except\*

5-19,9-15,9-21: 2x6 SP No.1

(size) 2=0-3-8, 12=0-5-4, 17=0-3-8

Max Horz 2=265(LC 11)

Max Grav 2=1791(LC 1), 12=1795(LC 1), 17=1360(LC 18)

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

TOP CHORD  $2-3 = -2741/267, \ 3-5 = -2118/269, \ 5-6 = -1421/312, \ 6-7 = -1428/293, \ 7-8 = -1428$ 

8-9=-1466/321. 9-11=-2170/262. 11-12=-2720/245

**BOT CHORD**  $2-20 = -88/2287, \ 19-20 = -88/2287, \ 17-19 = 0/1701, \ 15-17 = 0/1701, \ 14-15 = -71/2138,$ 

WEBS 3-20=-5/426, 3-19=-788/268, 19-21=0/514, 5-21=0/607, 9-15=-6/453, 11-15=-759/255,

11-14=-38/401, 21-22=-442/48, 9-22=-443/48

### NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 15-9-5, Exterior(2) 15-9-5 to 21-11-8, Interior(1) 21-11-8 to 28-1-11, Exterior(2) 28-1-11 to 34-4-5, Interior(1) 34-4-5 to 44-8-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are MT20 plates unless otherwise indicated
- 5) All plates are 2x6 MT20 unless otherwise indicated.
- 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) Ceiling dead load (10.0 psf) on member(s). 21-22, 9-22; Wall dead load (5.0psf) on member(s).19-21, 9-15
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-19, 15-17
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.



September 6,2023



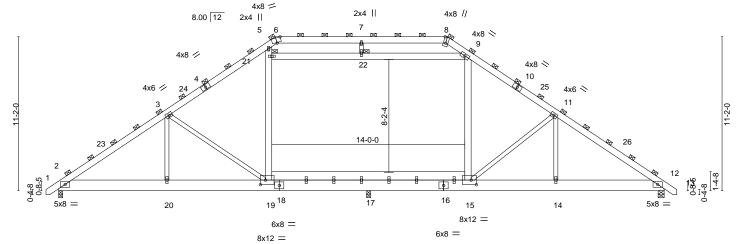
Job Truss Truss Type Qty Ply Lot 56 Williams Farms 160586420 J1023-5799 **A3 ATTIC** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:16 2023 Page 1

ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 43-11-0 44-10-0 0-11-0 28-2-8 29-5-8 1-3-0 35-11-0 -0-11-0 0-11-0 15<sub>7</sub>8-8 0-3-0 8-0-0 7-5-8 6-3-0 6-3-0 6-5-8 8-0-0

Scale = 1:83.6



1	8-0-0	15-5-8	22-5-12	1 29-5-8	, 35-11-0 <sub>i</sub>	43-11-0	1
	8-0-0	7-5-8	7-0-4	6-11-12	6-5-8	8-0-0	
Plate Offsets (X,Y)	[6:0-4-0,Edge], [8:0-5-	2,Edge], [15:0-4-8,0-	-4-0], [19:0-4-8,0-4-0]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Inc Code IRC2015	1.15 r NO	CSI. TC 0.54 BC 0.56 WB 0.34 Matrix-S	DEFL. in (loc Vert(LL) -0.16 19-20 Vert(CT) -0.23 19-20 Horz(CT) 0.04 12 Wind(LL) 0.14 19-20	9 >999 360 0 >999 240 2 n/a n/a	PLATES MT20 Weight: 909 lb	<b>GRIP</b> 244/190 FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

**JOINTS** 

2-0-0 oc purlins (6-0-0 max.)

1 Brace at Jt(s): 6, 8, 21, 22

(Switched from sheeted: Spacing > 2-8-0).

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

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1

**BOT CHORD** 2x10 SP No.1 \*Except\*

15-19: 2x8 SP No.1 2x4 SP No.2 \*Except\*

WEBS 5-19,9-15,9-21: 2x6 SP No.1

(size) 2=0-3-8, 12=0-5-4, 17=0-3-8

Max Horz 2=-397(LC 10)

Max Grav 2=2686(LC 1), 12=2692(LC 1), 17=2040(LC 18)

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

TOP CHORD 2-3=-4112/400, 3-5=-3177/404, 5-6=-2131/468, 6-7=-2141/439, 7-8=-2141/439, 8-9=-2198/482 9-11=-3256/392 11-12=-4080/367

 $2-20 = -132/3432,\ 19-20 = -132/3432,\ 17-19 = 0/2552,\ 15-17 = 0/2552,\ 14-15 = -107/3208,$ 

**BOT CHORD** 12-14=-107/3208

WEBS 3-20=-8/639, 3-19=-1182/402, 19-21=0/772, 5-21=0/911, 9-15=-9/680, 11-15=-1139/382,

11-14=-57/601, 21-22=-666/72, 9-22=-667/73

### 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 0-9-0 oc.

- Webs connected as follows: 2x4 1 row at 0-9-0 oc, 2x6 2 rows staggered at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 15-9-5, Exterior(2) 15-9-5 to 21-11-8, Interior(1) 21-11-8 to 28-1-11, Exterior(2) 28-1-11 to 34-4-5, Interior(1) 34-4-5 to 44-8-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x6 MT20 unless otherwise indicated.
- 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) Ceiling dead load (10.0 psf) on member(s). 21-22, 9-22; Wall dead load (5.0psf) on member(s).19-21, 9-15
- 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-19, 15-17
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.



September 6,2023



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 56 Williams Farms 160586421 J1023-5799 A4 **ROOF SPECIAL** Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:17 2023 Page 1

ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f 21-11-8 15-2-0 8-7-0 6-9-8 7-7-0

> Scale = 1:89.0 5x5 =

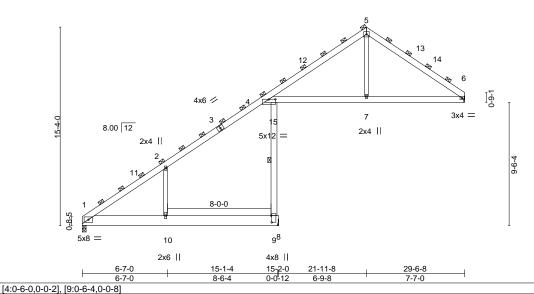


Plate Offsets (X,Y)--

LOADING (psf) SPACING-3-0-0 CSI. DEFL. in (loc) I/defl L/d TCLL 20.0 Plate Grip DOL 1.15 TC 0.40 Vert(LL) -0.18 9-10 >999 360 TCDL 10.0 Lumber DOL 1.15 ВС 0.54 Vert(CT) -0.30 9-10 >593 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.06 Horz(CT) 0.01 6 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Wind(LL) 9-10 240 Matrix-S 0.13 >999

**PLATES** GRIP 244/190 MT20

FT = 20% Weight: 427 lb

LUMBER-

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

1-8: 2x10 SP No.1

WEBS 2x4 SP No.2 BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)

(Switched from sheeted: Spacing > 2-8-0).

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

6-0-0 oc bracing: 4-9

REACTIONS.

(size) 1=0-3-8, 6=Mechanical, 9=Mechanical

Max Horz 1=553(LC 12)

Max Uplift 6=-38(LC 13), 9=-368(LC 12)

Max Grav 1=968(LC 20), 6=867(LC 1), 9=2385(LC 19)

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

TOP CHORD 1-2=-616/301, 2-4=-403/291, 4-5=-1041/206, 5-6=-1007/195

4-9=-1557/465, 4-7=0/672, 6-7=0/672 BOT CHORD

**WEBS** 2-10=-524/403, 5-7=0/525

### 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 0-9-0 oc, 2x6 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 21-11-8, Exterior(2) 21-11-8 to 26-4-5, Interior(1) 26-4-5 to 29-5-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) \* This truss has been designed for a live load of 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 9=368
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job Truss Truss Type Qty Ply Lot 56 Williams Farms 160586422 J1023-5799 A5 Roof Special 8 Job Reference (optional)

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

Rigid ceiling directly applied or 6-10-3 oc bracing. Except:

6-0-0 oc bracing: 4-9

ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 21-11-8 8-7-0 6-9-8

> Scale = 1:89.0 5x5 =

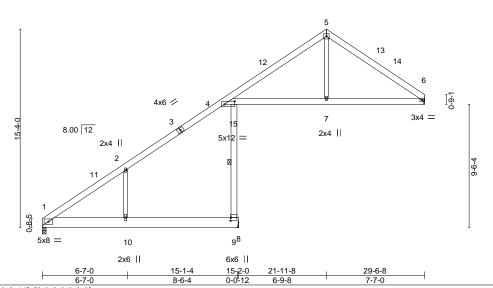


Plate Offsets (X,Y)-- [4:0-9-10,0-2-14], [9:0-3-0,0-0-8]

LOADING	VI /	SPACING-	2-0-0	CSI.	0.40	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.23	9-10	>751	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.40	9-10	>445	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.02	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI	12014	Matri	x-S	Wind(LL)	0.18	9-10	>999	240	Weight: 213 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

1-8: 2x10 SP No.1

WEBS 2x4 SP No.2

REACTIONS. (size) 1=0-3-8, 6=Mechanical, 9=Mechanical

Max Horz 1=369(LC 12)

Max Uplift 6=-25(LC 13), 9=-246(LC 12)

Max Grav 1=646(LC 20), 6=578(LC 1), 9=1590(LC 19)

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

1-2=-411/201, 2-4=-269/194, 4-5=-694/138, 5-6=-672/130 TOP CHORD

**BOT CHORD** 4-9=-1038/310, 4-7=0/448, 6-7=0/448 **WEBS** 2-10=-349/268, 5-7=0/350

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 21-11-8, Exterior(2) 21-11-8 to 26-4-5, Interior(1) 26-4-5 to 29-5-12 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.
- 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) 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) 6 except (jt=lb) 9=246.



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Job Truss Truss Type Qty Lot 56 Williams Farms 160586423 J1023-5799 A6GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:19 2023 Page 1

ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 21-11-8 15-2-0 -0-11-0 0-11-0 15-2-0 6-9-8

> Scale = 1:86.5 5x5 =

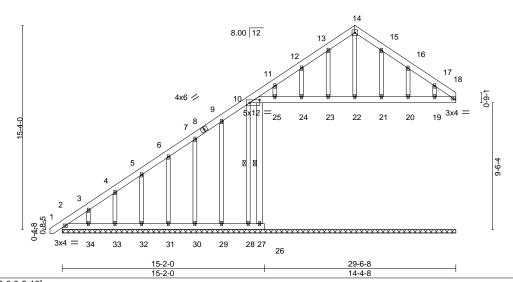


Plate Offse	21S (X, Y)	(X, Y) [10:0-9-0,0-2-10]											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.04	Vert(LL)	-0.00	1	n/r	120	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	1	n/r	120			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.15	Horz(CT)	-0.01	25	n/a	n/a			
BCDL	10.0	Code IRC2015/TP	PI2014	Matri	x-S						Weight: 259 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. Except:

6-0-0 oc bracing: 10-27

1 Row at midpt WEBS 10-28

REACTIONS. All bearings 29-6-8.

(lb) -Max Horz 2=567(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 18, 26, 27, 23, 24, 25, 29, 30, 31, 32, 33, 21, 20 except

2=-155(LC 10), 34=-140(LC 12), 19=-104(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 18, 26, 27, 22, 23, 24, 25, 28, 29, 30, 31, 32, 33, 34, 21,

20, 19 except 2=347(LC 12)

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

TOP CHORD 2-3=-647/411, 3-4=-542/341, 4-5=-466/313, 5-6=-391/286, 6-7=-316/259, 7-9=-254/231

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 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) 18, 26, 27, 23, 24, 25, 29, 30, 31, 32, 33, 21, 20 except (jt=lb) 2=155, 34=140, 19=104.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 18, 22, 23, 24, 25, 21, 20, 19.



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Job Truss Truss Type Qty Lot 56 Williams Farms 160586424 J1023-5799 B1GE **KINGPOST** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:21 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 19-6-0 9-3-8 5-11-8

5x8 ||

3-4-0

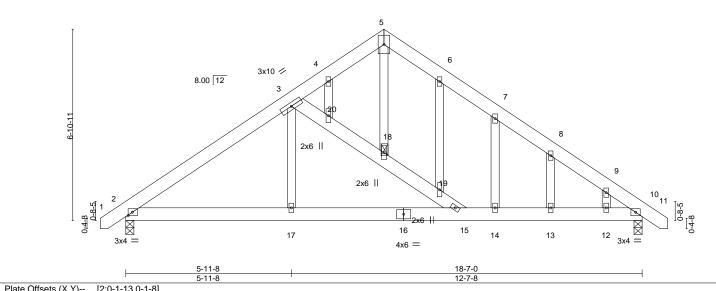
Scale = 1:41.5

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

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

1 Brace at Jt(s): 18

9-3-8



Tiate Offse	713 (71, 1)	[2.0 1 10,0 1 0]			
LOADING	(psf)	SPACING- 2-0-0	CSI.	<b>DEFL.</b> in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.25	Vert(LL) -0.06 14 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.25	Vert(CT) -0.13 15 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.01 10 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 13-14 >999 240	Weight: 147 lb FT = 20%

BRACING-

**JOINTS** 

TOP CHORD

**BOT CHORD** 

LUMBER-

REACTIONS.

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

3-15: 2x6 SP No.1 (size) 2=0-3-8, 10=0-3-8

Max Horz 2=-201(LC 10) Max Uplift 2=-167(LC 12), 10=-167(LC 13) Max Grav 2=788(LC 1), 10=788(LC 1)

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

 $2 - 3 = -974/236, \ 3 - 4 = -710/286, \ 4 - 5 = -794/333, \ 5 - 6 = -723/309, \ 6 - 7 = -747/263, \ 7 - 8 = -808/227, \ 7 -$ TOP CHORD

8-9=-797/160. 9-10=-884/126

**BOT CHORD** 2-17=-140/746, 15-17=-140/746, 14-15=-30/616, 13-14=-30/616, 12-13=-30/616,

10-12=-30/616

**WEBS** 18-20=-287/162, 5-18=-184/442, 3-17=0/302

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 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) except (jt=lb) 2=167, 10=167.



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Job Truss Truss Type Qty Lot 56 Williams Farms 160586425 J1023-5799 B2 COMMON 5 Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:22 2023 Page 1 Fayetteville, NC - 28314, Comtech, Inc. ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 0-11-0 19-6-0 0-11-0 18-7-0 9-3-8 9-3-8 5x8 = Scale = 1:42.0 3 8.00 12 10 11 12 6 13 3x6 = 3x6 = 4x6 = 2x4 || 18-7-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0		Plate Grip DOL	1.15	TC	0.41	Vert(LL)	-0.05	2-7	>999	360	MT20	244/190
TCDL 10.0		Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.10	2-7	>999	240		
BCLL 0.0	*	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.01	4	n/a	n/a		
BCDL 10.0		Code IRC2015/TF	PI2014	Matri	x-S	Wind(LL)	0.04	2-7	>999	240	Weight: 110 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. (size) 4=0-3-8, 2=0-3-8 Max Horz 2=-161(LC 10)

Max Uplift 4=-51(LC 13), 2=-51(LC 12) Max Grav 4=892(LC 20), 2=892(LC 19)

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

TOP CHORD 2-3=-1085/199, 3-4=-1085/199

**BOT CHORD** 2-7=0/819, 4-7=0/819

WFBS 3-7=0/624

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 9-3-8, Exterior(2) 9-3-8 to 13-8-5, Interior(1) 13-8-5 to 19-4-7 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) 4, 2.



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

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

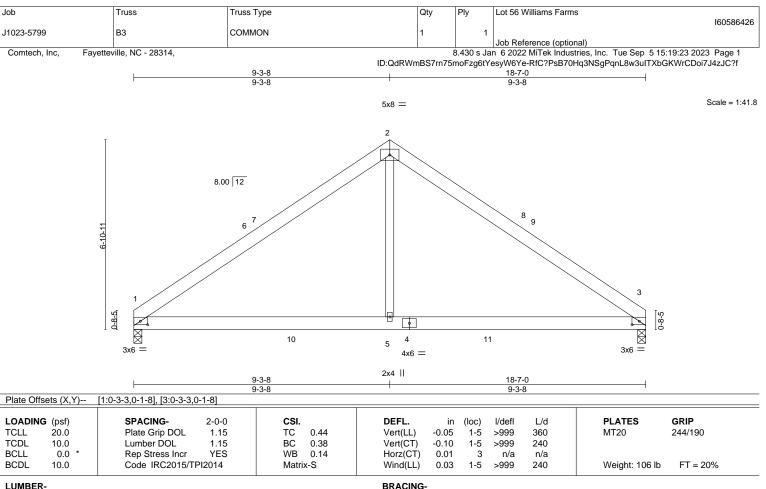


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. (size) 1=0-3-8, 3=0-3-8 Max Horz 1=-153(LC 10)

Max Uplift 1=-38(LC 12), 3=-38(LC 13) Max Grav 1=840(LC 19), 3=840(LC 20)

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

1-2=-1060/199, 2-3=-1060/199 TOP CHORD

**BOT CHORD** 1-5=-8/818, 3-5=-8/818

WFBS 2-5=0/625

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 9-3-8, Exterior(2) 9-3-8 to 13-8-5, Interior(1) 13-8-5 to 18-5-4 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) 1, 3.



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

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

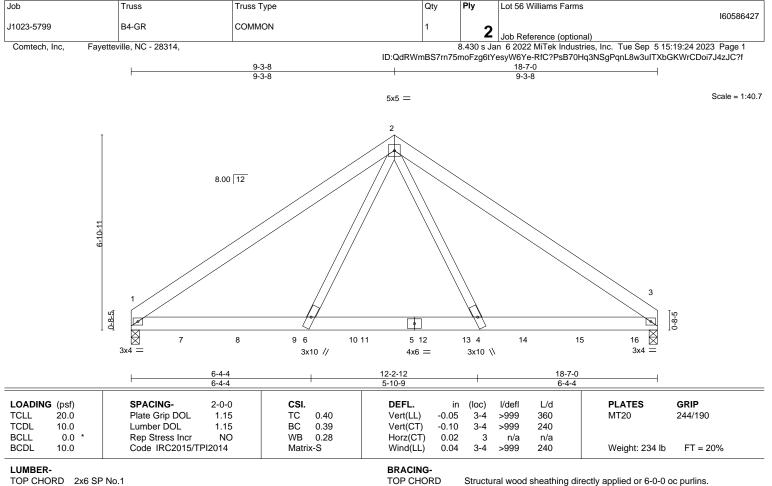


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





BOT CHORD

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

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

REACTIONS.

(size) 1=0-3-8, 3=0-3-8 Max Horz 1=153(LC 26) Max Uplift 1=-196(LC 8), 3=-229(LC 9) Max Grav 1=3097(LC 1), 3=3678(LC 1)

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

1-2=-4132/274, 2-3=-4190/278 TOP CHORD

**BOT CHORD** 1-6=-150/3302, 4-6=-116/2365, 3-4=-141/3351

WEBS 2-4=-85/2302, 2-6=-78/2187

### 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: 2x6 - 2 rows staggered at 0-7-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph 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)
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 558 lb down and 45 lb up at 1-10-4, 558 lb down and 45 lb up at 3-10-4, 558 lb down and 45 lb up at 3-10-4, 558 lb down and 45 lb up at 7-10-4, 558 lb down and 45 lb up at 9-10-4, 558 lb down and 45 lb up at 11-10-4, 558 lb down and 45 lb up at 13-10-4, and 558 lb down and 45 lb up at 15-10-4, and 846 lb down and 59 lb up at 17-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Vert: 1-2=-60, 2-3=-60, 1-3=-20



September 6,2023

### Continued on page 2



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 56 Williams Farms 160586427 J1023-5799 B4-GR COMMON **Z** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:24 2023 Page 2

Comtech, Inc, Fayetteville, NC - 28314,

ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb)

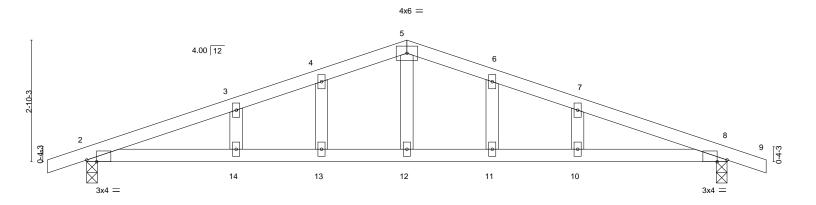
Vert: 5=-558(B) 7=-558(B) 8=-558(B) 9=-558(B) 10=-558(B) 13=-558(B) 14=-558(B) 15=-558(B) 16=-846(B)



818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 56 Williams Farms	
						160586428
J1023-5799	C1GE	GABLE	1	1		
					Job Reference (optional)	
Comtech, Inc, Fayette	ville, NC - 28314,			3.430 s Jai	n 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:25 202	3 Page 1
•		ID:	QdRWmBS7rn75r	noFzg6tYe	esyW6Ye-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi	7J4zJC?f
-0-11-0	7-6	6-0		•	15-0-0	15-11-0
0-11-0	7-6	6-0			7-6-0	0-11-0

Scale = 1:27.0



<del> </del>	7-6-0 7-6-0		15-0-0 7-6-0	
Plate Offsets (X,Y)	[2:0-2-13,Edge], [8:0-2-13,Edge]			
OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.12 10-11 >999 360	MT20 244/190
CDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.20 10-11 >892 240	
CLL 0.0 *	Rep Stress Incr YES	WB 0.09	Horz(CT) 0.02 8 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.17 10 >999 240	Weight: 60 lb FT = 20%

TOP CHORD

**BOT CHORD** 

LUMBER-**BRACING-**

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

REACTIONS. (size) 2=0-3-0, 8=0-3-0 Max Horz 2=57(LC 12)

Max Uplift 2=-356(LC 8), 8=-356(LC 9) Max Grav 2=652(LC 1), 8=652(LC 1)

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

TOP CHORD 2-3=-1124/1222, 3-4=-1065/1222, 4-5=-1056/1249, 5-6=-1056/1249, 6-7=-1065/1222,

7-8=-1124/1222

**BOT CHORD**  $2\text{-}14\text{=-}1081/1010,\ 13\text{-}14\text{=-}1081/1010,\ 12\text{-}13\text{=-}1081/1010,\ 11\text{-}12\text{=-}1081/1010,}$ 

10-11=-1081/1010, 8-10=-1081/1010

WEBS 5-12=-509/376

- 1) Unbalanced roof live loads have been considered for this design.
  2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 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) except (jt=lb) 2=356, 8=356.



Structural wood sheathing directly applied or 5-5-6 oc purlins.

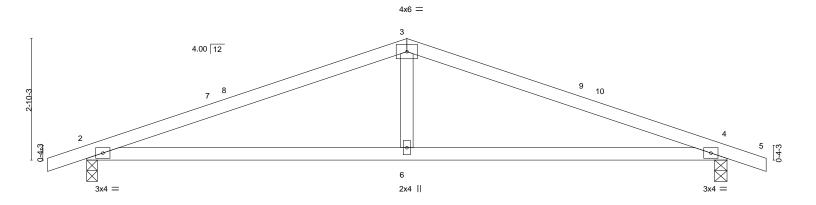
Rigid ceiling directly applied or 5-4-0 oc bracing.

September 6,2023



Job	Truss	Truss Type	Qty	Ply	Lot 56 Williams Farms	
						160586429
J1023-5799	C2	COMMON	4	1		
					Job Reference (optional)	
Comtech, Inc, Fayette	ville, NC - 28314,			3.430 s Ja	n 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:26 2	023 Page 1
•		ID:	:QdRWmBS7rn75r	noFzg6tYe	esyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCD	oi7J4zJC?f
-0-11-0	7-6	-0		•	15-0-0	15-11-0
0-11-0	7-6-0		7-6-0			0-11-0

Scale = 1:27.0



	-		7-6-0 7-6-0			<del> </del>				15-0-0 7-6-0		———
			7-0-0							7-0-0		
LOADING (	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL 2	20.0	Plate Grip DOL	1.15	TC	0.66	Vert(LL)	-0.07	2-6	>999	360	MT20	244/190
TCDL 1	10.0	Lumber DOL	1.15	BC	0.47	Vert(CT)	-0.15	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.08	Horz(CT)	0.02	4	n/a	n/a		
BCDL 1	10.0	Code IRC2015/TF	PI2014	Matri	x-S	Wind(LL)	0.05	2-6	>999	240	Weight: 52 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.2 WEBS

REACTIONS. (size)

2=0-3-0, 4=0-3-8 Max Horz 2=34(LC 16) Max Uplift 2=-85(LC 8), 4=-86(LC 9) Max Grav 2=652(LC 1), 4=653(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-3=-1101/291, 3-4=-1102/291

BOT CHORD 2-6=-185/976, 4-6=-185/976

**WEBS** 3-6=0/356

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 7-6-0, Exterior(2) 7-6-0 to 11-10-13, Interior(1) 11-10-13 to 15-11-0 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



Structural wood sheathing directly applied or 4-3-8 oc purlins.

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

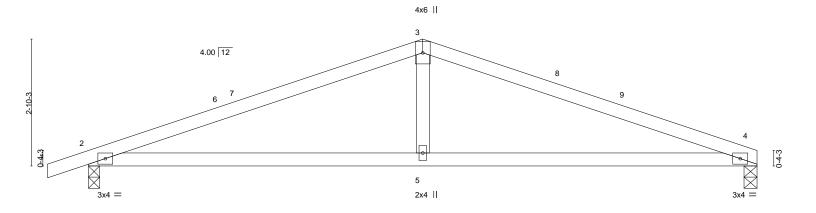
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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



	Truss	Truss Type	Qty	Ply	Lot 56 Williams Farms
					160586430
5799	C3	Common	2	1	
					Job Reference (optional)
tech, Inc, Fayettev	rille, NC - 28314,			8.430 s Ja	n 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:27 2023 Page 1
·		ID:QdRW	mBS7rn75i	noFzg6tYe	esyW6Ye-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f
-0-11-0 <sub> </sub>	7	7-6-0		•	15-0-0
		7-6-0	7-6-0		
	ech, Inc, Fayettev	5799 C3 ech, Inc, Fayetteville, NC - 28314, -0-11-0 , 7	5799 C3 Common  ech, Inc, Fayetteville, NC - 28314,  -0-11-0 7-6-0	5799 C3 Common 2 ech, Inc, Fayetteville, NC - 28314,  -0-11-0 7-6-0	5799 C3 Common 2 1 ech, Inc, Fayetteville, NC - 28314, 8.430 s Ja ID:QdRWmBS7rn75moFzg6tY6

Scale = 1:25.8



			7-6-0				1				15-0	0-0	
	7-6-0										7-6	-0	<u> </u>
LOADING (ps	sf)	SPACING-	2-0-0	CSI.		DEF	FL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20	.0	Plate Grip DOL	1.15	TC	0.71	Vert	(LL)	-0.07	4-5	>999	360	MT20	244/190
TCDL 10	.0	Lumber DOL	1.15	BC	0.48	Vert	(CT)	-0.16	4-5	>999	240		
BCLL 0	.0 *	Rep Stress Incr	YES	WB	0.08	Hor	z(CT)	0.02	4	n/a	n/a		
BCDL 10	.0	Code IRC2015/TF	PI2014	Matrix	x-S	Win	d(LL)	0.05	2-5	>999	240	Weight: 51 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

2x4 SP No.2 WEBS

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

Max Horz 2=37(LC 16) Max Uplift 4=-46(LC 9), 2=-85(LC 8) Max Grav 4=587(LC 1), 2=654(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-3=-1109/305, 3-4=-1108/315

BOT CHORD 2-5=-221/984, 4-5=-221/984

WEBS 3-5=0/358

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 7-6-0, Exterior(2) 7-6-0 to 11-10-13, Interior(1) 11-10-13 to 14-10-4 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



Structural wood sheathing directly applied or 3-11-11 oc purlins.

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



J1023-5799 D1GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:28 2023 Page 1 ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 12-4-0 0-11-0 5-8-8 5-8-8 0-11-0 Scale = 1:27.4 5x5 = 5 8.00 12 13 12 11 10 3x4 = 3x4 = LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/def 20.0 Plate Grip DOL 1.15 TC Vert(LL) -0.00 120 244/190 **TCLL** 0.02 8 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.01 Vert(CT) -0.00 8 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 8 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 79 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

Qty

Lot 56 Williams Farms

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

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

160586431

LUMBER-

Job

Truss

Truss Type

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

**OTHERS** 2x4 SP No.2

REACTIONS. All bearings 11-5-0. Max Horz 2=-130(LC 10)

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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, 14, 11,



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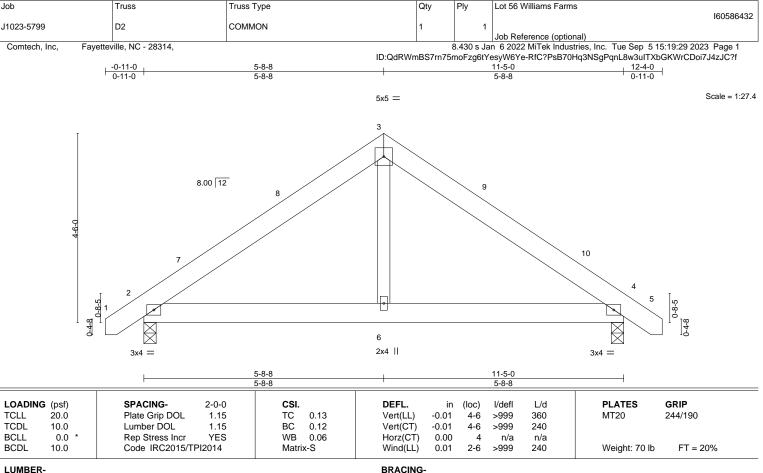


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





TOP CHORD

BOT CHORD

Lot 56 Williams Farms

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

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

LUMBER-

WEBS

Job

Truss

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

REACTIONS.

2=0-3-8, 4=0-3-8 (size) Max Horz 2=-104(LC 10) Max Uplift 2=-36(LC 12), 4=-36(LC 13) Max Grav 2=501(LC 1), 4=501(LC 1)

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

TOP CHORD 2-3=-527/143, 3-4=-527/143 **BOT CHORD** 2-6=0/354, 4-6=0/354

WEBS 3-6=0/267

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 5-8-8, Exterior(2) 5-8-8 to 10-1-5, Interior(1) 10-1-5 to 12-2-7 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.





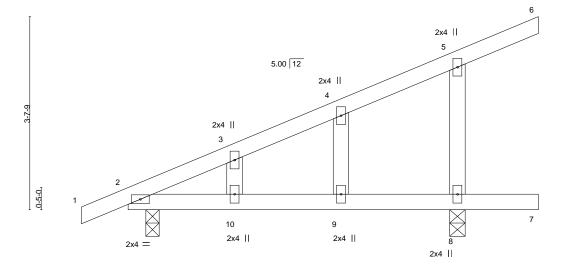
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Lot 56 Williams Farms 160586433 J1023-5799 M1GE **GABLE** Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:30 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID: QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff7-8-8 0-10-8 6-2-4 1-6-4



	0-4-0	6-2-4	7-8-8
	0-4-0	5-10-4	1-6-4
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI.         DEFL.           TC 0.34         Vert(LL) -0.0           BC 0.37         Vert(CT) -0.1           WB 0.06         Horz(CT) 0.0           Matrix-S         Wind(LL) 0.1	12 9-10 >615 240 00 n/a n/a

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 2=0-3-0, 8=0-3-8 Max Horz 2=161(LC 12)

Max Uplift 2=-108(LC 8), 8=-160(LC 9) Max Grav 2=292(LC 1), 8=374(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 5-8=-246/343

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable studs spaced at 2-0-0 oc.
- 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) except (jt=lb) 2=108, 8=160.



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

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

Scale = 1:21.6

September 6,2023



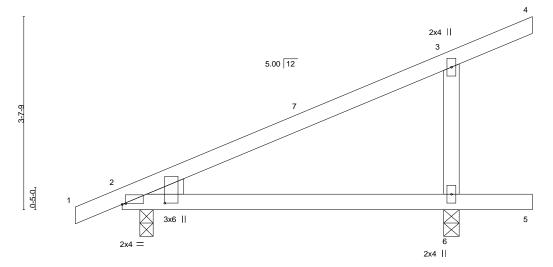
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 56 Williams Farms 160586434 J1023-5799 M2 MONOPITCH Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:31 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID: QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?ff0-10-8 6-2-4 1-6-4



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

2.0 0 12,0 0 2], [2.0 0 0,0 0 10]			
SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.06 2-6 >999 360	MT20 244/190
Lumber DOL 1.15	BC 0.59	Vert(CT) -0.12 2-6 >604 240	
Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 n/a n/a	
Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.16 2-6 >469 240	Weight: 30 lb FT = 20%
	Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	SPACING-         2-0-0         CSI.           Plate Grip DOL         1.15         TC         0.46           Lumber DOL         1.15         BC         0.59           Rep Stress Incr         YES         WB         0.05	SPACING-         2-0-0         CSI.         DEFL.         in (loc)         l/defl         L/d           Plate Grip DOL         1.15         TC         0.46         Vert(LL)         -0.06         2-6         >999         360           Lumber DOL         1.15         BC         0.59         Vert(CT)         -0.12         2-6         >604         240           Rep Stress Incr         YES         WB         0.05         Horz(CT)         0.00         n/a         n/a

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

Left: 2x4 SP No.2

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

Max Horz 2=111(LC 12)

Max Uplift 2=-78(LC 8), 6=-122(LC 9) Max Grav 2=292(LC 1), 6=374(LC 1)

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

WFBS 3-6=-280/276

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-8-8 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 6 = 122



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

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

Scale = 1:21.6



Job Truss Truss Type Qty Lot 56 Williams Farms 160586435 J1023-5799 M3 MONOPITCH 5 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:31 2023 Page 1

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

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

except end verticals.

Scale = 1:18.1

ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-0-8

0-10-8 6-0-8

2x4 || 3 5.00 12 5 0-2-0 3x6 II 4 2x4 || 2x4 =

6-0-8

BRACING-

TOP CHORD

**BOT CHORD** 

Plate Offsets (X,Y)	[2:0-0-12,0-0-2], [2:0-0-5,0-9-10]

LOADING	(psf)	SPACING- 2	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.48	Vert(LL)	-0.05	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.61	Vert(CT)	-0.11	2-4	>621	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-P	Wind(LL)	0.12	2-4	>560	240	Weight: 26 lb	FT = 20%

LUMBER-

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

WEDGE Left: 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 4=0-1-8

Max Horz 2=89(LC 12)

Max Uplift 2=-79(LC 8), 4=-77(LC 9) Max Grav 2=293(LC 1), 4=222(LC 1)

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

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-9-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.



September 6,2023



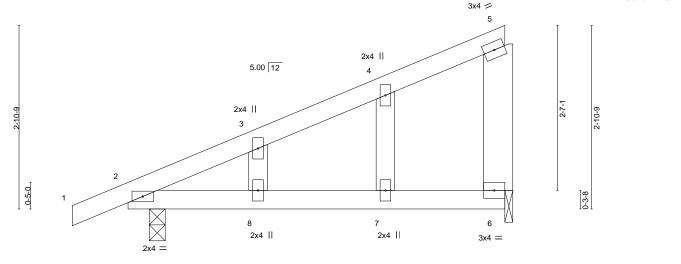
Job Truss Truss Type Qty Ply Lot 56 Williams Farms 160586436 J1023-5799 M4GE **GABLE** Job Reference (optional) Comtech, Inc, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:32 2023 Page 1

Fayetteville, NC - 28314,

ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

6-0-8 0-10-8 6-0-8

Scale = 1:18.1



LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.0	3 7-8	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.0	6 7-8	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) -0.0	0 6	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.0	8 7-8	>878	240	Weight: 29 lb	FT = 20%

LUMBER-

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

2x6 SP No.1 WEBS **OTHERS** 2x4 SP No.2 BRACING-

6-0-8

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) 2=0-3-0, 6=0-1-8

Max Horz 2=129(LC 12)

Max Uplift 2=-113(LC 8), 6=-107(LC 8) Max Grav 2=293(LC 1), 6=222(LC 1)

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

### NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable studs spaced at 2-0-0 oc.
- 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) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=113, 6=107.



September 6,2023



160586437 J1023-5799 PB1 **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:34 2023 Page 1 ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 6-3-0 6-3-0 6-3-0 Scale = 1:25.6 4x4 = 5 8.00 12 6 8 9 14 13 12 11 10 3x4 =3x4 = 12-6-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL TC Vert(LL) 999 244/190 **TCLL** 1.15 0.04 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.02 Horz(CT) 0.00 9 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 53 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

Qty

Lot 56 Williams Farms

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

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

LUMBER-

Job

Truss

Truss Type

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

**OTHERS** 2x4 SP No.2

REACTIONS. All bearings 12-6-0. Max Horz 1=-120(LC 8)

Max Uplift All uplift 100 lb or less at joint(s) 1, 2, 13, 14, 11, 10

Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 8, 12, 13, 14, 11, 10

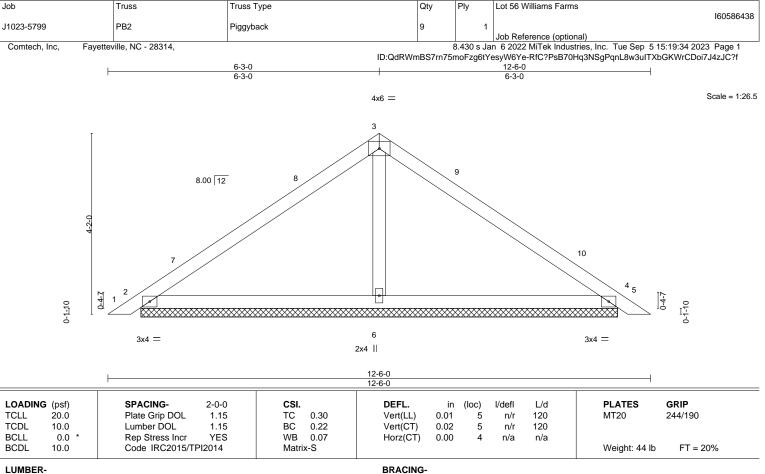
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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) 1, 2, 13, 14, 11,
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.







TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

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

> 2=10-11-12, 4=10-11-12, 6=10-11-12 (size)

Max Horz 2=-96(LC 10) Max Uplift 2=-34(LC 12), 4=-43(LC 13)

Max Grav 2=248(LC 1), 4=248(LC 1), 6=442(LC 1)

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

WEBS 3-6=-272/110

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-2 to 4-7-15, Interior(1) 4-7-15 to 6-3-0, Exterior(2) 6-3-0 to 10-7-13, Interior(1) 10-7-13 to 12-2-14 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) 2, 4.
- 7) 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.

September 6,2023



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Lot 56 Williams Farms 160586439 J1023-5799 VA1 **GABLE** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:36 2023 Page 1 ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

11-2-2 10-5-0

3x4 =

Scale = 1:71.1

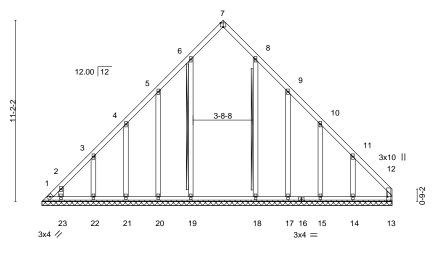


Plate Oil	sets (X,Y)	[7:0-2-0,Eage], [12:0-3-8	,Eagej									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.21	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.01	13	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 146 lb	FT = 20%

LUMBER-BRACING-

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

Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.

Rigid ceiling directly applied or 10-0-0 oc bracing. 2x4 SPF No.2 - 6-19, 8-18 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 21-7-2.

Max Horz 1=323(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 19, 18, 15 except 1=-163(LC 10),

13=-116(LC 11), 20=-165(LC 12), 21=-133(LC 12), 22=-145(LC 12), 23=-116(LC

12), 17=-187(LC 13), 14=-328(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 23, 17, 15 except

1=415(LC 12), 13=438(LC 13), 19=364(LC 19), 18=338(LC 20), 14=262(LC 20)

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

1-2=-588/395, 2-3=-488/316, 3-4=-352/207, 10-11=-317/196, 11-12=-517/356,

**BOT CHORD** 1-23=-258/382, 22-23=-258/382, 21-22=-258/382, 20-21=-258/382, 19-20=-258/382,

18-19=-258/382, 17-18=-258/382, 15-17=-258/382, 14-15=-258/382, 13-14=-258/382

WEBS 11-14=-268/259

### NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 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.
- \* 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) 19, 18, 15 except (it=lb) 1=163, 13=116, 20=165, 21=133, 22=145, 23=116, 17=187, 14=328.
- 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



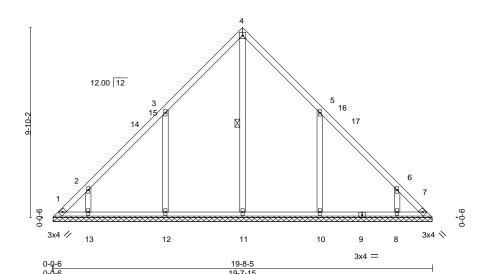
September 6,2023



Job Truss Truss Type Qty Ply Lot 56 Williams Farms 160586440 J1023-5799 VA2 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:37 2023 Page 1

ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 9-10-2 9-10-2

> Scale = 1:59.7 4x4 =



LOADING (psf) SPACING-DEFL. I/defI L/d **PLATES GRIP** 2-0-0 CSI (loc) 20.0 Plate Grip DOL 999 244/190 **TCLL** 1.15 TC 0.16 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.19 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.21 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 102 lb FT = 20%

**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.

**WEBS** 1 Row at midpt 4-11

REACTIONS. All bearings 19-7-9.

2x4 SP No.1

2x4 SP No.1

2x4 SP No.2

(lb) -Max Horz 1=228(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 7 except 1=-123(LC 10), 12=-185(LC 12), 13=-132(LC 12),

10=-185(LC 13), 8=-132(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=436(LC 22), 12=490(LC 19), 13=281(LC 19),

10=490(LC 20), 8=281(LC 20)

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

TOP CHORD 1-2=-266/224, 6-7=-257/224

WEBS 3-12=-406/309, 2-13=-307/258, 5-10=-406/309, 6-8=-307/258

### NOTES-

LUMBER-TOP CHORD

**OTHERS** 

BOT CHORD

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 9-10-2, Exterior(2) 9-10-2 to 14-2-15, Interior(1) 14-2-15 to 19-4-1 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.
- \* 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) 7 except (jt=lb) 1=123, 12=185, 13=132, 10=185, 8=132.



September 6,2023



Job Truss Truss Type Qty Ply Lot 56 Williams Farms 160586441 J1023-5799 VA3 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:38 2023 Page 1 ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

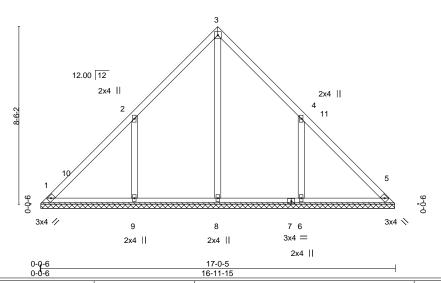
8-6-2

8-6-2

Scale = 1:55.2 4x4 =

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

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



LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) 999 244/190 **TCLL** TC 0.20 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.18 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.16 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Weight: 83 lb FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

**OTHERS** 2x4 SP No.2

REACTIONS. All bearings 16-11-9.

Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-205(LC 12), 6=-205(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=416(LC 22), 9=532(LC 19), 6=532(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. 2-9=-441/329, 4-6=-441/329 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-6-2, Interior(1) 4-6-2 to 8-6-2, Exterior(2) 8-6-2 to 12-10-15, Interior(1) 12-10-15 to 16-8-1 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=205, 6=205,





Job Truss Truss Type Qty Lot 56 Williams Farms 160586442 J1023-5799 VA4 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:39 2023 Page 1 ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSqPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-2-2 Scale = 1:43.9 4x4 = 3 12.00 12 11 2x4 || 2x4 || 12 9 9-0-0 3x4 // 3x4 🚿 8 13 7 14 6 2x4 | 2x4 || 2x4 || 0-<u>0-6</u> 0-0-6 14-4-5 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL Vert(LL) 999 244/190 **TCLL** 1.15 TC 0.15 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.17 Vert(CT) n/a 999 n/a

Horz(CT)

**BRACING-**

TOP CHORD

BOT CHORD

0.00

5

n/a

n/a

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

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

Weight: 68 lb

FT = 20%

LUMBER-

**BCLL** 

**BCDL** 

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

0.0

10.0

**OTHERS** 2x4 SP No.2

REACTIONS. All bearings 14-3-9.

Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-173(LC 12), 6=-173(LC 13)

YES

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=404(LC 19), 8=418(LC 19), 6=418(LC 20)

WB

Matrix-S

0.11

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

2-8=-376/296, 4-6=-376/296 WEBS

### NOTES-

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

Rep Stress Incr

Code IRC2015/TPI2014

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-2-2, Exterior(2) 7-2-2 to 11-6-15, Interior(1) 11-6-15 to 14-0-1 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, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=173, 6=173.



September 6,2023



Job Truss Truss Type Qty Lot 56 Williams Farms 160586443 J1023-5799 VA5 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:40 2023 Page 1 ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 11-8-5 5-10-2 5-10-2 Scale = 1:36.4 4x4 = 12.00 12

	2x4		<del></del>	B.	4 <sup>2x4</sup>    12 5	9-0-0
	3x4 //	8	7	6	3x4 📏	
	2x-	4	2x4	2x4		
	0-Q-6		11-8-5		1	
	0-0-6		11-7-15			
LOADING (psf)	SPACING- 2-0-0	<b>CSI.</b>	DEFL.	in (loc) I/defl	L/d	PLATE

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	0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI	12014	Matri	x-S						Weight: 52 lb	FT = 20%

**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

**OTHERS** 2x4 SP No.2

REACTIONS. All bearings 11-7-9.

> Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-161(LC 12), 6=-161(LC 13) Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=339(LC 19), 6=338(LC 20)

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

2-8=-359/301, 4-6=-359/301 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 5-10-2, Exterior(2) 5-10-2 to 10-2-15, Interior(1) 10-2-15 to 11-4-1 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, 5 except (jt=lb) 8=161, 6=161.



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

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

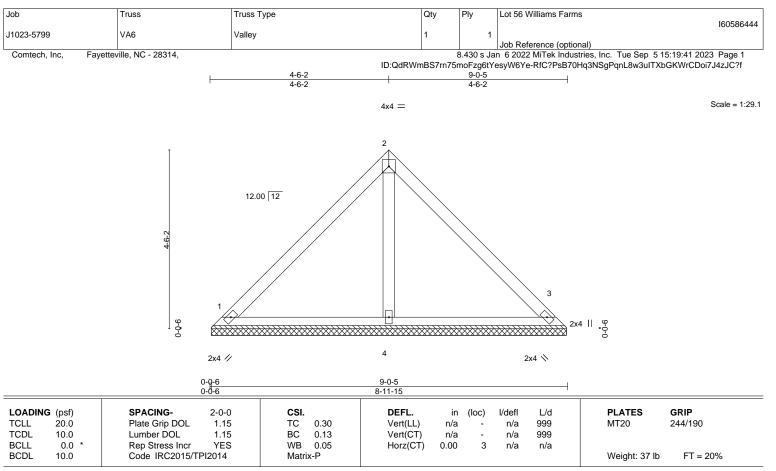


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





**BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

**OTHERS** 2x4 SP No.2

> 1=8-11-9, 3=8-11-9, 4=8-11-9 (size) Max Horz 1=-100(LC 8)

Max Uplift 1=-36(LC 13), 3=-36(LC 13)

Max Grav 1=203(LC 1), 3=203(LC 1), 4=260(LC 1)

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

### NOTES-

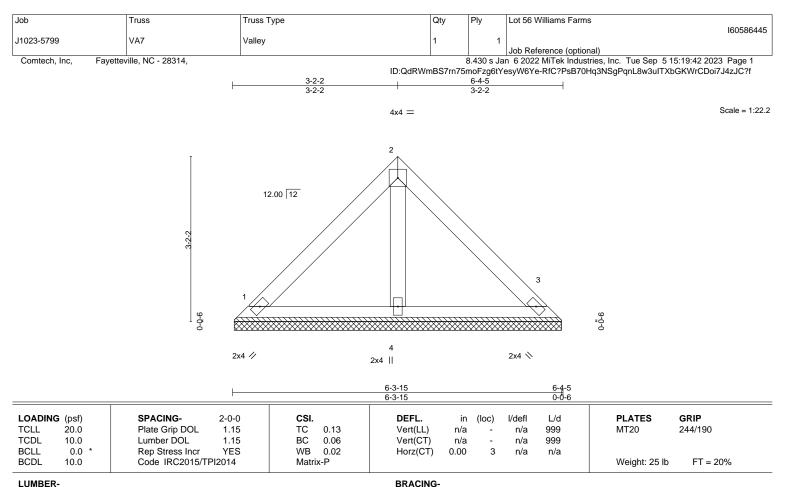
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 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.



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

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





TOP CHORD

BOT CHORD

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

**OTHERS** 2x4 SP No.2

REACTIONS. (size)

Max Horz 1=-68(LC 8) Max Uplift 1=-25(LC 13), 3=-25(LC 13)

Max Grav 1=138(LC 1), 3=138(LC 1), 4=177(LC 1)

1=6-3-9, 3=6-3-9, 4=6-3-9

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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 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.



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 56 Williams Farms 160586446 J1023-5799 VA8 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:43 2023 Page 1 ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 1-10-2 1-10-2 4x4 = Scale: 1"=1 12.00 12 3 9-0-0 9-0-0 2x4 // 2x4 || 2x4 📏 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC 999 244/190 **TCLL** 0.03 Vert(LL) n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 14 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

**OTHERS** 2x4 SP No.2

> 1=3-7-9, 3=3-7-9, 4=3-7-9 (size)

Max Horz 1=-36(LC 8)

Max Uplift 1=-13(LC 13), 3=-13(LC 13)

Max Grav 1=73(LC 1), 3=73(LC 1), 4=93(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 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.



Structural wood sheathing directly applied or 3-8-5 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. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Truss Type Qty 160586447 J1023-5799 VB1 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:44 2023 Page 1 ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 7-10-1 7-10-1 7-10-1 Scale = 1:33.4 4x4 = 3 8.00 12 2x4 || 2x4 || 2 12 3x4 / 3x4 × 8 6 2x4 || 2x4 || 2x4 || 15-7-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL Vert(LL) 999 244/190 **TCLL** 1.15 TC 0.15 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.08 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.07 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 62 lb FT = 20% **BRACING-**LUMBER-

TOP CHORD

BOT CHORD

Lot 56 Williams Farms

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

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

Job

Truss

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

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

REACTIONS. All bearings 15-7-1.

Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-105(LC 12), 6=-105(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=371(LC 19), 6=371(LC 20)

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

2-8=-313/208, 4-6=-313/208 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 7-10-1, Exterior(2) 7-10-1 to 12-2-14, Interior(1) 12-2-14 to 15-2-4 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=105, 6=105,





Job Truss Truss Type Qty Lot 56 Williams Farms 160586448 J1023-5799 VB2 Valley Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 5 15:19:45 2023 Page 1 ID:QdRWmBS7rn75moFzg6tYesyW6Ye-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f 5-10-1 5-10-1 Scale = 1:25.1 4x4 = 3 11 8.00 12 3-10-12 2x4 || 4<sup>2x4</sup> || 6 2x4 || 3x4 // 3x4 <> 2x4 || 11-7-10 LOADING (psf) SPACING-2-0-0 CSI. DEFL. L/d **PLATES** GRIP (loc) I/defl 20.0 Plate Grip DOL Vert(LL) 999 244/190 **TCLL** 1.15 TC 0.13 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.09 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 5 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 43 lb FT = 20% **BRACING-**LUMBER-

TOP CHORD

BOT CHORD

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

**OTHERS** 2x4 SP No.2

REACTIONS. All bearings 11-7-1.

Max Horz 1=-86(LC 8)

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=263(LC 1), 8=317(LC 19), 6=317(LC 20)

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

2-8=-285/210, 4-6=-285/210 WEBS

### NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-10-1, Exterior(2) 5-10-1 to 10-2-14, Interior(1) 10-2-14 to 11-2-4 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, 5, 8, 6.



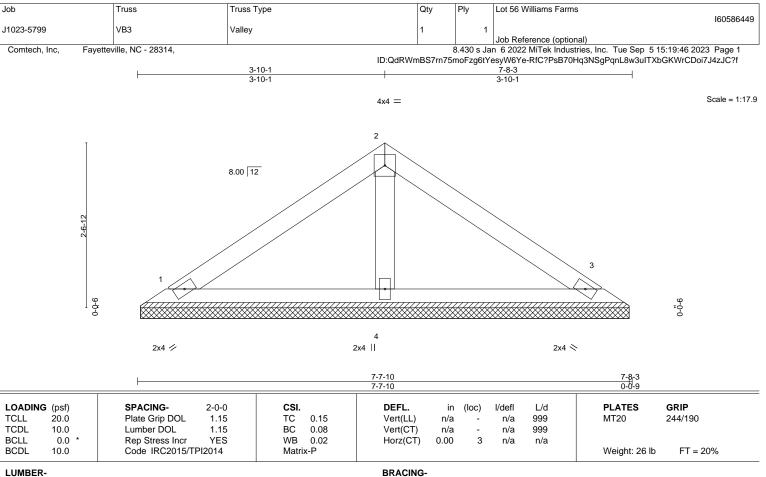
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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



building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)





TOP CHORD

BOT CHORD

LUMBER-

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

**OTHERS** 2x4 SP No.2

REACTIONS. 1=7-7-1, 3=7-7-1, 4=7-7-1 (size) Max Horz 1=-54(LC 8)

Max Uplift 1=-23(LC 12), 3=-28(LC 13)

Max Grav 1=146(LC 1), 3=146(LC 1), 4=244(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 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.



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

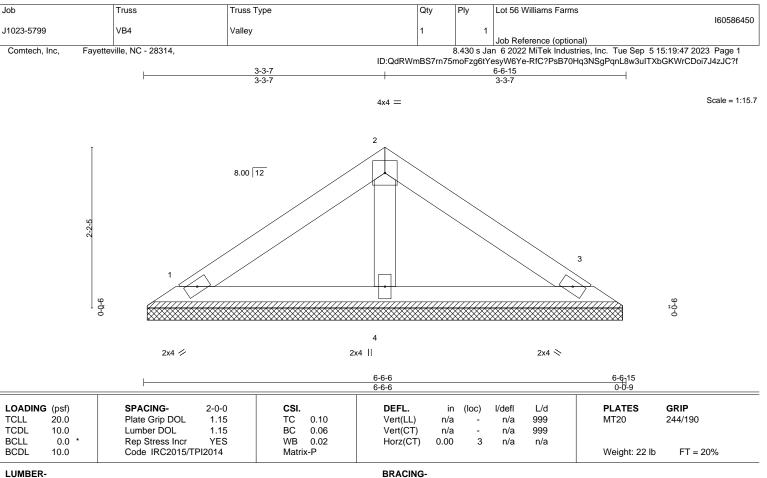
Rigid ceiling directly applied or 10-0-0 oc bracing.

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TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

1=6-5-13, 3=6-5-13, 4=6-5-13 (size) Max Horz 1=-45(LC 8) Max Uplift 1=-19(LC 12), 3=-24(LC 13)

Max Grav 1=122(LC 1), 3=122(LC 1), 4=204(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 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 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.



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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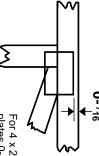


### Symbols

## PLATE LOCATION AND ORIENTATION



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



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

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

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

### PLATE SIZE

4 × 4

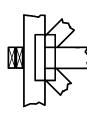
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

### **BEARING**



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

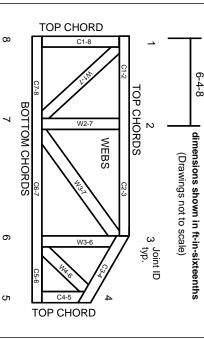
### Industry Standards:

National Design Specification for Metal Plate Connected Wood Truss Construction Design Standard for Bracing.

Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

ANSI/TPI1: DSB-22:

## Numbering System



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

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

# Product Code Approvals

ICC-ES Reports:

ESR-1988, ESR-2362, ESR-2685, ESR-3282 ESR-4722, ESL-1388

## Design General Notes

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

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

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### MiTek



MiTek Engineering Reference Sheet: MII-7473 rev. 1/2/2023

# ▲ General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

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

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

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

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