

### **Trenco**

818 Soundside Rd Edenton, NC 27932

Re: J0923-5140

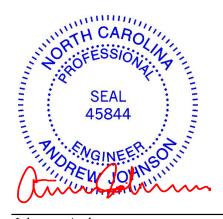
Precision/64 Liberty Meadows/Harnett

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

Pages or sheets covered by this seal: I62780832 thru I62780863

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



December 29,2023

Johnson, Andrew

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

Job Truss Truss Type Qty Ply Precision/64 Liberty Meadows/Harnett 162780832 J0923-5140 A1GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:34:58 2023 Page 1

ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

5-11-11 4-8-5 3-2-9 7-9-11 7-9-11 7-10-9

> Scale = 1:71.9 5x8 =

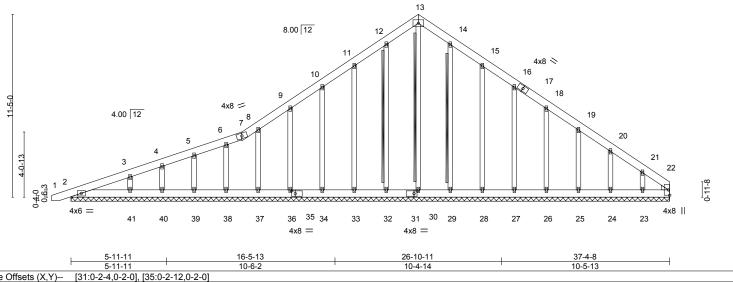


Plate Offsets (X,Y)--(loc) LOADING (psf) SPACING-CSI. DEFL. in I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.05 Vert(LL) -0.00 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.03 Vert(CT) 0.00 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.18 Horz(CT) 0.01 22 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 323 lb Matrix-S

LUMBER-

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

Right: 2x4 SP No.2

BRACING-

TOP CHORD BOT CHORD **WEBS** 

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

2x4 SPF No.2 - 13-30, 12-32, 14-29

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 37-4-8.

Max Horz 2=354(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 22, 2, 32, 33, 34, 36, 37, 38, 39, 40, 41, 29, 27, 26, 25, 24

except 28=-103(LC 13), 23=-152(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 22, 2, 30, 32, 33, 34, 36, 37, 38, 39, 40, 29, 28, 27, 26, 25, 24, 23 except 41=281(LC 23)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-301/98, 11-12=-223/268, 12-13=-257/295, 13-14=-257/295, 14-15=-223/250, 21-22=-294/193

- 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 DOI = 1 60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) \* This truss has been designed for a live load of 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) 22, 2, 32, 33, 34, 36, 37, 38, 39, 40, 41, 29, 27, 26, 25, 24 except (jt=lb) 28=103, 23=152.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 29,2023

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 Precision/64 Liberty Meadows/Harnett 162780833 J0923-5140 A2 **ROOF SPECIAL** 5 Job Reference (optional)

7-9-11

Fayetteville, NC - 28314, Comtech, Inc.

5-11-11

4-8-5

3-2-9

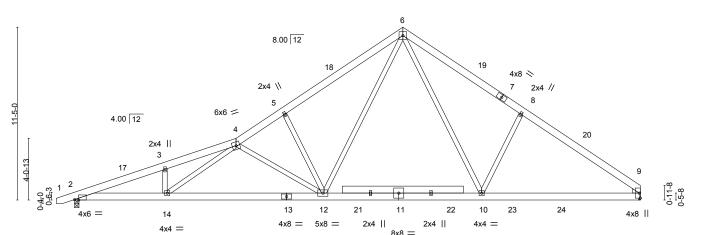
7-9-11

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:00 2023 Page 1 ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 7-10-9

> Scale = 1:76.1 6x6 =

Structural wood sheathing directly applied or 3-9-5 oc purlins.

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



		5-11-11	10-8-0	16-5-13	21-8-4	26-10-11		37-4-8	1
		5-11-11	4-8-5	5-9-13	5-2-7	5-2-7		10-5-13	<u> </u>
Plate Offsets (	(X,Y)	[2:0-3-3,Edge]							
LOADING (ps	sf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/defl	L/d	PLATES	GRIP
TCLL 20.	.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	-0.24 10-12 >999	360	MT20	244/190
TCDL 10.	.0	Lumber DOL	1.15	BC 0.60	Vert(CT)	-0.38 10-12 >999	240		
BCLL 0.	.0 *	Rep Stress Incr	YES	WB 0.97	Horz(CT)	0.08 9 n/a	n/a		
BCDL 10.	.0	Code IRC2015/TF	PI2014	Matrix-S	Wind(LL)	0.11 12-14 >999	240	Weight: 285 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

WEDGE

Right: 2x4 SP No.2

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

Max Horz 2=272(LC 9)

Max Uplift 9=-66(LC 13), 2=-117(LC 12) Max Grav 9=1640(LC 20), 2=1555(LC 1)

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

TOP CHORD 2-3=-3863/666, 3-4=-3820/738, 4-5=-2499/507, 5-6=-2467/599, 6-8=-2219/546,

8-9=-2359/444

**BOT CHORD** 2-14=-563/3589, 12-14=-480/3136, 10-12=-27/1397, 9-10=-228/1825

WEBS 6-10=-162/976, 8-10=-472/306, 3-14=-262/172, 4-14=-105/691, 6-12=-286/1481,

5-12=-459/276, 4-12=-1250/271

### NOTES-

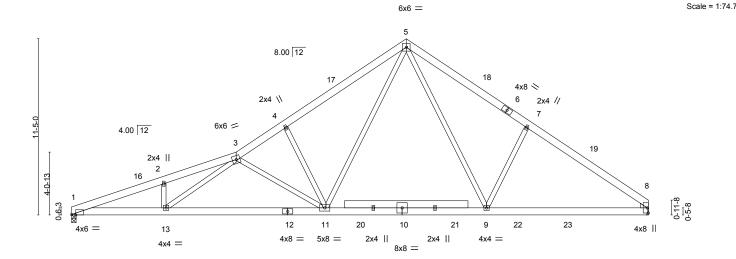
- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 21-8-4, Exterior(2) 21-8-4 to 26-1-1, Interior(1) 26-1-1 to 37-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=117.



December 29,2023



Job Truss Truss Type Qty Ply Precision/64 Liberty Meadows/Harnett 162780834 J0923-5140 A2A **ROOF SPECIAL** 2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:01 2023 Page 1 ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 13-10-9 5-11-11 4-8-5 3-2-9 7-9-11 7-9-11 7-10-9



Dieta Offesta (V.V.)	5-11-11 5-11-11	4-8-5	5-9-13	5-2-7	5-2-7		10-5-13	1
Plate Offsets (X,Y)-	- [1:0-3-3,Edge]			T				
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) I/de		PLATES	GRIP
TCLL 20.0 TCDL 10.0	Plate Grip DOL		TC 0.42	Vert(LL)	-0.24 9-11 >999		MT20	244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL Rep Stress Inc	1.15 · YES	BC 0.60 WB 0.98	Vert(CT) Horz(CT)	-0.38 9-11 >999 0.08 8 n/			
BCDL 10.0	Code IRC2015	/TPI2014	Matrix-S	Wind(LL)	0.12 11-13 >99	9 240	Weight: 282 lb	FT = 20%

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEDGE

Right: 2x4 SP No.2

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

Max Horz 1=267(LC 9)

Max Uplift 1=-101(LC 12), 8=-66(LC 13) Max Grav 1=1487(LC 1), 8=1640(LC 20)

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

TOP CHORD 1-2=-3870/721, 2-3=-3842/802, 3-4=-2502/518, 4-5=-2470/611, 5-7=-2220/547,

7-8=-2360/445

**BOT CHORD** 1-13=-622/3609, 11-13=-504/3140, 9-11=-31/1398, 8-9=-233/1826

WEBS 5-9=-162/976, 7-9=-471/305, 2-13=-272/198, 3-13=-150/708, 5-11=-288/1483,

4-11=-459/276, 3-11=-1255/287

### 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 21-8-4, Exterior(2) 21-8-4 to 26-1-1, Interior(1) 26-1-1 to 37-3-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 1=101.



Structural wood sheathing directly applied or 3-8-15 oc purlins.

Rigid ceiling directly applied or 9-10-8 oc bracing.

December 29,2023

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Job Truss Truss Type Qty Ply Precision/64 Liberty Meadows/Harnett 162780835 J0923-5140 A3 **ROOF SPECIAL** 2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:02 2023 Page 1 ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 38-7-0 1-2-8 13-10-9 29-5-15 5-11-11 4-8-5 3-2-9 7-9-11 7-9-11 7-10-9 Scale = 1:70.8 6x6 = 5 8.00 12 4x8 <> 6 2x4 \\ 2x4 // 11-5-0 6x6 = 4.00 12 2x4 | 18 2 4-0-13 0-6-3 甘 13 12 19 11 20 10 22 5x8 || 4x6 = 14 4x4 = 4x8 = 5x8 = 5x8 = 4x4 =10-8-0 26-10-11 5-11-11 16-5-13 5-11-11 10-5-13 4-8-5 [1:0-3-3,Edge] Plate Offsets (X,Y)--**PLATES** LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/def L/d GRIP

-0.25 10-12

-0.39 10-12

0.11 12-14

8

0.08

>999

>999

>999

n/a

360

240

n/a

240

Rigid ceiling directly applied or 9-11-9 oc bracing.

MT20

Structural wood sheathing directly applied or 3-9-1 oc purlins.

Weight: 266 lb

244/190

FT = 20%

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

TCLL

TCDL

BCLL

**BCDL** 

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

20.0

10.0

0.0

10.0

WEDGE

Right: 2x4 SP No.2

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

Max Horz 1=269(LC 11)

Max Uplift 1=-101(LC 12), 8=-82(LC 13) Max Grav 1=1482(LC 1), 8=1719(LC 20)

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

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

TOP CHORD 1-2=-3857/719, 2-3=-3829/799, 3-4=-2514/515, 4-5=-2483/608, 5-7=-2218/529,

1.15

1.15

YES

TC

ВС

WB

Matrix-S

0.45

0.61

0.97

7-8=-2359/430

**BOT CHORD** 1-14=-612/3597, 12-14=-493/3157, 10-12=-22/1406, 8-10=-218/1814

WEBS 5-10=-157/965, 7-10=-458/297, 2-14=-272/198, 3-14=-150/708, 5-12=-285/1498,

4-12=-459/275, 3-12=-1252/286

### 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 21-8-4, Exterior(2) 21-8-4 to 26-1-1, Interior(1) 26-1-1 to 38-5-7 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) 8 except (jt=lb) 1=101.







7-9-11

7-9-11

5-10-9

Scale = 1:69.6 6x6 = 8.00 12 4x8 <> 2x4 \\ 4x6 <> 8 20 6x6 = 4.00 12 3x4 || 2x4 || 3 4-0-13 22 12 15 14 13 23 24 10 4x6 = 16 11 4x8 = 5x8 = 5x8 = 4x4 = 4x8 = 4x4 = 26-10-11 5-11-11 16-5-13 5-11-1 10-6-2 10-4-14 Plate Offsets (X,Y)--[2:0-3-7,Edge] **PLATES** LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/def L/d GRIP

Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

**BRACING-**

TOP CHORD

**BOT CHORD** 

**WEBS** 

-0.24 12-14

-0.37 12-14

0.10 14-16

11

0.06

>999

>999

>999

except end verticals.

1 Row at midpt

n/a

360

240

n/a

240

LUMBER-

TCLL

TCDL

**BCLL** 

**BCDL** 

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

20.0

10.0

0.0

10.0

9-11: 2x6 SP No.1

REACTIONS. (size) 11=0-3-8, 2=0-3-8

Max Horz 2=298(LC 9)

Max Uplift 11=-48(LC 13), 2=-115(LC 12) Max Grav 11=1529(LC 20), 2=1464(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

5-11-11

4-8-F

3-2-9

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

TOP CHORD 2-3=-3591/622, 3-4=-3550/693, 4-5=-2250/465, 5-6=-2220/557, 6-8=-1733/457,

1.15

1.15

YES

TC

ВС

WB

Matrix-S

0.28

0.60

0.91

8-9=-259/121, 9-11=-253/104

**BOT CHORD** 2-16=-611/3333, 14-16=-540/2863, 12-14=-109/1200, 11-12=-236/1284 **WEBS** 6-12=-93/525, 3-16=-267/173, 4-16=-109/697, 6-14=-273/1462, 5-14=-452/273,

8-11=-1687/294, 4-14=-1176/259

### 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) and C-C Exterior(2) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 21-8-4, Exterior(2) 21-8-4 to 26-1-1, Interior(1) 26-1-1 to 35-0-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 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) 11 except (jt=lb)



244/190

FT = 20%

MT20

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

Rigid ceiling directly applied or 9-11-12 oc bracing.

Weight: 270 lb



Job Truss Truss Type Qty Ply Precision/64 Liberty Meadows/Harnett 162780837 J0923-5140 A4A **ROOF SPECIAL** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:05 2023 Page 1 ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 35-4-8 13-10-9 5-11-11 4-8-5 3-2-9 7-9-11 7-9-11 5-10-9 Scale = 1:68.5 6x6 = 5 8.00 12 4x8 ≫ 6 2x4 \\ 4x6 <> 6x6 = 4.00 12 3x4 II 4-0-13 0-6-3

	J-11-11		10-0-2	10-4-14		0-0-10	
Plate Offsets (X,Y)	[1:0-3-7,Edge]						
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC 0.28 BC 0.60 WB 0.92	Vert(LL) -0.24 11-13 > Vert(CT) -0.37 11-13 > Horz(CT) 0.06 10	/defl L/d 999 360 999 240 n/a n/a	PLATES GRIP MT20 244/190	
BCDL 10.0	Code IRC2015/TPI	2014	Matrix-S	Wind(LL) 0.10 13-15 >	999 240	Weight: 267 lb FT = 20%	

BRACING-

TOP CHORD

**BOT CHORD** 

**WEBS** 

13

5x8 =

12

5x8 =

26-10-11

21

except end verticals.

1 Row at midpt

11

4x4 =

23

Structural wood sheathing directly applied or 3-10-14 oc purlins,

7-10

Rigid ceiling directly applied or 9-11-1 oc bracing.

10

4x8 =

14

16-5-13

4x8 =

LUMBER-

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

2x4 SP No.2 \*Except\* 8-10: 2x6 SP No.1

REACTIONS. (size) 1=0-3-8, 10=0-3-8 Max Horz 1=293(LC 9) Max Uplift 1=-99(LC 12), 10=-48(LC 13)

4x6 =

5-11-11 5-11-11

Max Grav 1=1395(LC 1), 10=1529(LC 20)

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

15

4x4 =

 $1-2 = -3598/676, \ 2-3 = -3581/756, \ 3-4 = -2253/475, \ 4-5 = -2222/567, \ 5-7 = -1734/457,$ TOP CHORD

7-8=-259/121, 8-10=-253/104

**BOT CHORD** 1-15=-618/3353, 13-15=-542/2866, 11-13=-109/1201, 10-11=-236/1285 **WEBS** 5-11=-92/525, 2-15=-277/199, 3-15=-154/713, 5-13=-274/1464, 4-13=-452/273,

7-10=-1688/295, 3-13=-1181/275

### 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 21-8-4, Exterior(2) 21-8-4 to 26-1-1, Interior(1) 26-1-1 to 35-0-4 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 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, 10





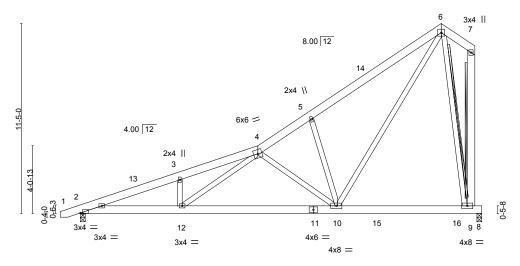
Job Truss Truss Type Qty Precision/64 Liberty Meadows/Harnett 162780838 J0923-5140 A5 **ROOF SPECIAL** 2

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:06 2023 Page 1 ID:6CKkadeNkqcH9TIGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

21-8-4 7-9-11 23-11-8 13-10-9 5-11-11 4-8-5 3-2-9 2-3-4

> Scale = 1:69.2 5x5 =



16-5-13 5-11-11 10-6-2

Plate Offsets (X, Y)	· [2.0-1-11,Euge]			
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 0.35	Vert(LL) -0.14 9-10 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.22 9-10 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.76	Horz(CT) 0.03 8 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06 9-10 >999 240	Weight: 206 lb FT = 20%

LUMBER-

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

2x4 SP No.2 \*Except\* 7-9: 2x6 SP No.1

BRACING-TOP CHORD

**WEBS** 

Structural wood sheathing directly applied or 5-0-2 oc purlins, except end verticals.

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

T-Brace:

2x4 SPF No.2 - 6-9, 7-9 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. (size) 8=0-3-8, 2=0-3-8

Max Horz 2=338(LC 12)

Max Uplift 8=-142(LC 12), 2=-46(LC 12) Max Grav 8=1050(LC 19), 2=1022(LC 1)

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

TOP CHORD 2-3=-2278/165, 3-4=-2258/240, 4-5=-1093/63, 5-6=-1111/199

**BOT CHORD** 2-12=-460/2096, 10-12=-356/1526

WEBS 6-9=-884/325, 3-12=-296/184, 4-12=-139/720, 6-10=-276/1321, 5-10=-471/284,

4-10=-780/126

### 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) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 21-8-4, Exterior(2) 21-8-4 to 23-5-12 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.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb)
- 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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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Job Truss Truss Type Qty Precision/64 Liberty Meadows/Harnett 162780839 J0923-5140 A6 **ROOF SPECIAL** Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:07 2023 Page 1

ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 21-8-4 7-9-11 13-10-9 23-11-8 5-11-11 4-8-5 3-2-9 2-3-4

> Scale = 1:68.9 5x5 =

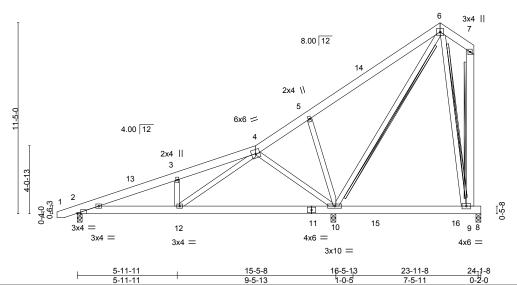


Plate Offsets (X,Y)--[2:0-2-7,Edge] SPACING-LOADING (psf) CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.25 Vert(LL) -0.09 9-10 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 ВС 0.30 Vert(CT) -0.12 9-10 >888 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.53 Horz(CT) 0.01 8 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 0.02 12 >999 240 Weight: 206 lb Matrix-S

LUMBER-

2x6 SP No.1 TOP CHORD BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 \*Except\* 7-9: 2x6 SP No.1

**BRACING-**TOP CHORD

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

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing. **WEBS** 2x4 SPF No.2 - 6-9, 6-10, 7-9 T-Brace: 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. (size) 8=0-3-8, 10=0-3-8, 2=0-3-8

Max Horz 2=338(LC 12)

Max Uplift 8=-53(LC 12), 10=-139(LC 12), 2=-91(LC 8) Max Grav 8=195(LC 19), 10=1343(LC 2), 2=551(LC 23)

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

TOP CHORD 2-3=-899/70, 3-4=-891/133, 4-5=-203/378, 5-6=-95/455

2-12=-227/797 **BOT CHORD** 

WEBS 3-12=-334/191, 4-12=-155/811, 6-10=-601/64, 5-10=-475/285, 4-10=-398/91

- 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) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 21-8-4, Exterior(2) 21-8-4 to 23-5-12 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2 except (jt=lb)
- 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 29,2023

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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Job Truss Truss Type Qty Precision/64 Liberty Meadows/Harnett 162780840 J0923-5140 Α7 **ROOF SPECIAL** 

Fayetteville, NC - 28314, Comtech, Inc.

Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:08 2023 Page 1 ID: 6CK kadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?ff

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

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

except end verticals.

10-8-0 4-8-5

Scale = 1:43.7

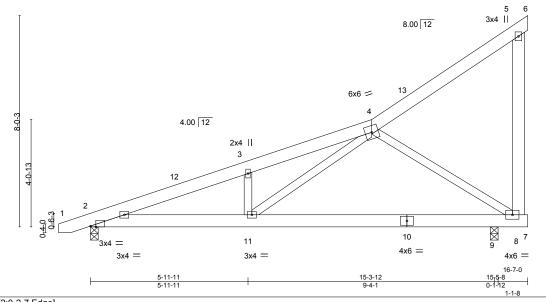


Plate Off	Sets (X,Y)	[2:0-2-7,Eage]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	<b>DEFL</b> . in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.05 9-11 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.09 9-11 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.47	Horz(CT) 0.01 9 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 2-11 >999 240	Weight: 121 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 \*Except\*

5-8: 2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 9=0-3-8 Max Horz 2=251(LC 12)

Max Uplift 2=-74(LC 8), 9=-133(LC 12)

Max Grav 2=673(LC 1), 9=710(LC 1)

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

TOP CHORD 2-3=-1212/13, 3-4=-1196/77

**BOT CHORD** 2-11=-188/1092, 9-11=-146/547, 8-9=-146/547 WEBS 3-11=-307/180, 4-11=-71/687, 4-8=-665/187

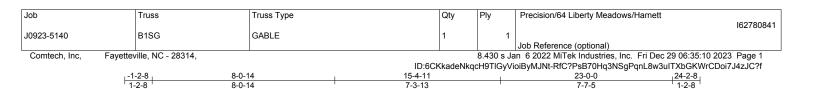
### NOTES-

- 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) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 16-7-0 zone; cantilever 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) 9=133.



December 29,2023





7-3-13

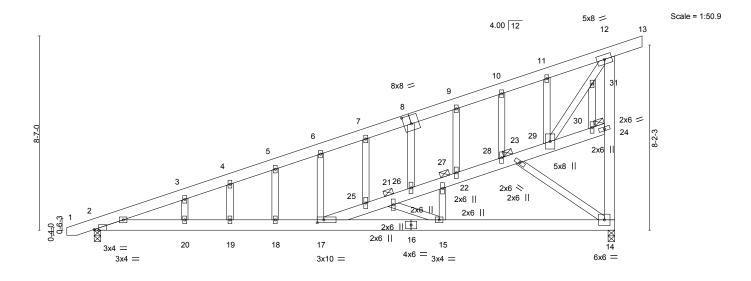


Plate Offsets (X,Y)	[2:0-2-7,Edge], [8:0-4-0,0-4-8], [17:0-3-	8,0-1-8]		
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.20 18-19 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.50	Vert(CT) -0.40 18-19 >678 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.89	Horz(CT) 0.01 14 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.26 18-19 >999 240	Weight: 220 lb FT = 20%

7-3-13

**BRACING-**

TOP CHORD

**BOT CHORD** 

**JOINTS** 

LUMBER-

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

2x4 SP No.2 \*Except\*

12-14,17-24: 2x6 SP No.1

**OTHERS** 2x4 SP No.2

REACTIONS. (size) 14=0-3-8, 2=0-3-8

Max Horz 2=420(LC 9)

Max Uplift 14=-337(LC 12), 2=-280(LC 8) Max Grav 14=992(LC 1), 2=972(LC 1)

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

TOP CHORD 2-3=-1715/430, 3-4=-1650/468, 4-5=-1624/489, 5-6=-1606/517, 6-7=-1656/576,

7-8=-1674/614, 8-9=-1685/659, 9-10=-1607/670, 10-11=-1520/658, 11-12=-1728/785,

14-24=-1391/722, 12-24=-1494/820

**BOT CHORD** 2-20=-745/1548, 19-20=-745/1548, 18-19=-745/1548, 17-18=-745/1548, 14-15=-741/453 15-21=-822/381, 15-22=-40/481, 14-23=-422/848, 17-25=-713/1630, 21-25=-735/1685, WFBS

8-0-14 8-0-14

8-0-14

21-26=-977/2304, 22-26=-1012/2356, 22-27=-1015/2484, 27-28=-1023/2441 23-28=-1014/2393, 23-29=-842/1886, 6-17=-279/192, 11-29=-776/373, 29-31=-1287/2715,

12-31=-1201/2533

### 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; end vertical 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=337, 2=280.



Structural wood sheathing directly applied or 4-10-12 oc purlins,

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

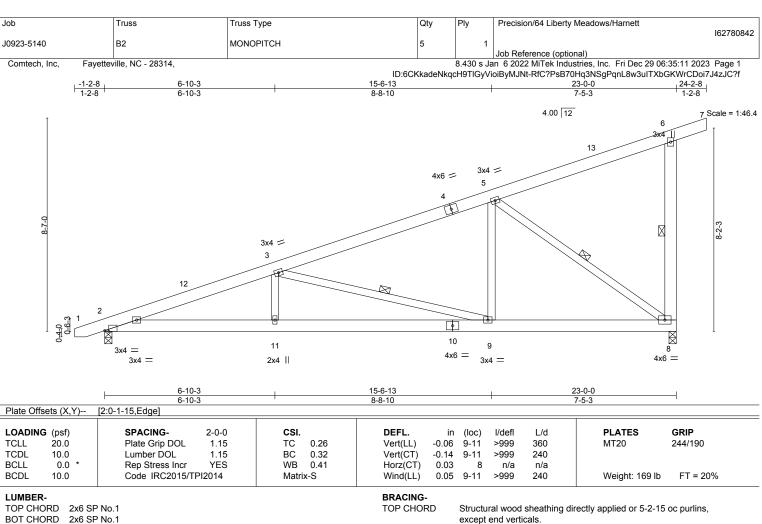
except end verticals.

1 Brace at Jt(s): 21, 22, 23, 24

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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**BOT CHORD** 

**WEBS** 

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

1 Row at midpt

6-8, 3-9, 5-8

LUMBER-

TOP CHORD BOT CHORD 2x6 SP No.1 **WEBS** 2x4 SP No.2 \*Except\* 6-8: 2x6 SP No.1

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=318(LC 9)

Max Uplift 8=-141(LC 12), 2=-119(LC 8) Max Grav 8=992(LC 1), 2=972(LC 1)

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

TOP CHORD 2-3=-2111/325, 3-5=-1065/184, 6-8=-263/200 **BOT CHORD** 2-11=-509/1941, 9-11=-509/1941, 8-9=-293/936 **WEBS** 3-11=0/318, 3-9=-1040/248, 5-9=0/560, 5-8=-1141/253

### 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) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 24-2-8 zone; end vertical 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) except (jt=lb) 8=141, 2=119.





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 Precision/64 Liberty Meadows/Harnett 162780843 J0923-5140 B2-A MONOPITCH 6 Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:12 2023 Page 1 Comtech, Inc. ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 24-2-8 6-10-15 22-6-8 10-0-0 23-0<sub>-</sub>0 0-5-8 1-2-8 1-2-8 12-6-8 5-7-9 4.00 12 8 Scale = 1:49.4 4x6 = 2x4 || 17 2x6 =4x6 = 5 2x4 || 6x8 3x4 = 3 8-0-0 0<u>.4-</u>0 0<u>-6-3</u> 0 -0-5-8 <u>⊗</u> 10 18 12 14 13 3x4 =4x6 =4x6 =4x6 =6x6 = 8x8 || 2x4 || 4x8 5x8 = 3x4 П 23-0-0 6-10-15 5-7-9 10-5-8 Plate Offsets (X,Y)--[2:0-1-11,Edge], [13:0-1-8,0-1-12], [15:0-2-4,0-2-4] LOADING (psf) SPACING-DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.39 Vert(LL) -0.24 13-14 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.51 Vert(CT) -0.47 13-14 >582 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.76 Horz(CT) 0.03 10 n/a n/a Code IRC2015/TPI2014 Weight: 197 lb FT = 20% **BCDL** 10.0 Wind(LL) 0.19 13-14 >999 240 Matrix-S **BRACING-**2x6 SP 2400F 2.0E TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, BOT CHORD 2x6 SP 2400F 2.0E \*Except\* except end verticals. 11-13: 2x6 SP No.1 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing.

**WEBS** 

LUMBER-

**WEBS** 2x4 SP No.2 \*Except\* 8-10: 2x6 SP No.1

REACTIONS. (size) 10=0-3-8, 2=0-3-8

Max Horz 2=318(LC 9) Max Uplift 10=-141(LC 12), 2=-119(LC 8) Max Grav 10=1116(LC 2), 2=972(LC 1)

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

TOP CHORD 2-3=-2197/341, 3-4=-1124/166, 4-6=-922/196, 6-7=-441/997, 7-8=-374/1005, 8-10=-141/707

**BOT CHORD** 

2-14=-524/2035, 13-14=-524/2035, 11-13=-293/939, 10-11=-282/912 WEBS 3-14=0/400, 3-13=-1266/276, 4-13=0/376, 11-15=-96/1082, 6-15=-1868/462,

10-15=-2520/545, 8-15=-1499/434

### 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) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 24-2-8 zone; end vertical 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, with BCDL = 10.0psf.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=141, 2=119.

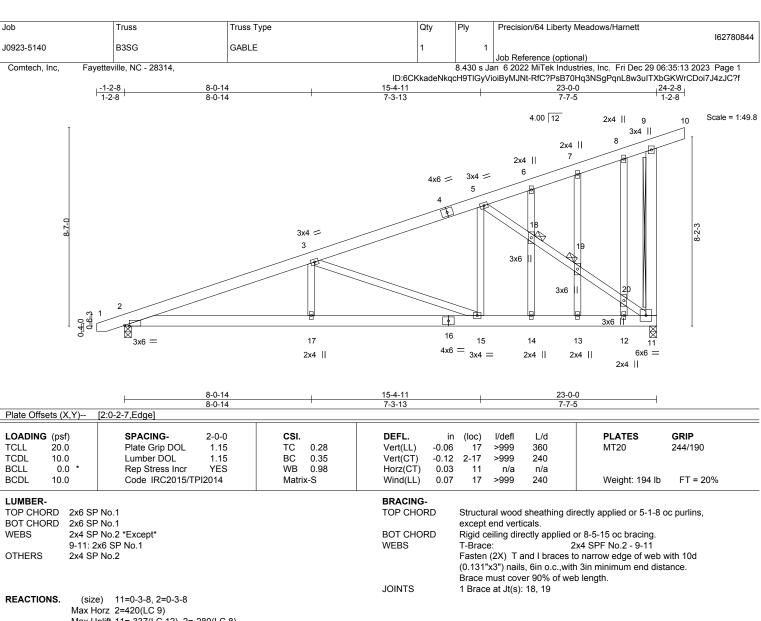


10-15

1 Row at midpt

December 29,2023





Max Uplift 11=-337(LC 12), 2=-280(LC 8) Max Grav 11=992(LC 1), 2=972(LC 1)

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

TOP CHORD 2-3=-1986/582, 3-5=-1053/335, 9-11=-225/255

**BOT CHORD** 2-17=-853/1811, 15-17=-853/1811, 14-15=-476/932, 13-14=-476/932, 12-13=-476/932,

11-12=-476/932

**WEBS** 3-17=0/326, 3-15=-938/402, 5-15=-97/533, 5-18=-1125/472, 18-19=-1101/462,

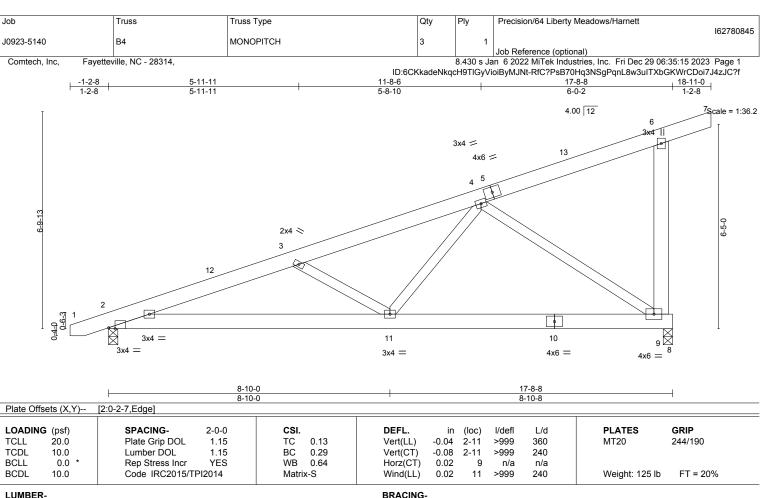
19-20=-1112/468, 11-20=-1139/477

### 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; end vertical 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=337, 2=280.
- 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.







TOP CHORD

**BOT CHORD** 

LUMBER-

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

6-9: 2x6 SP No.1

REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=250(LC 9)

Max Uplift 9=-111(LC 12), 2=-99(LC 8) Max Grav 9=791(LC 1), 2=754(LC 1)

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

TOP CHORD 2-3=-1447/263, 3-4=-1085/145 **BOT CHORD** 2-11=-404/1331, 9-11=-248/677

**WEBS** 3-11=-417/223, 4-11=-12/578, 4-9=-802/219

### 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) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 18-11-0 zone; end vertical 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) 9=111.



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

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

except end verticals.

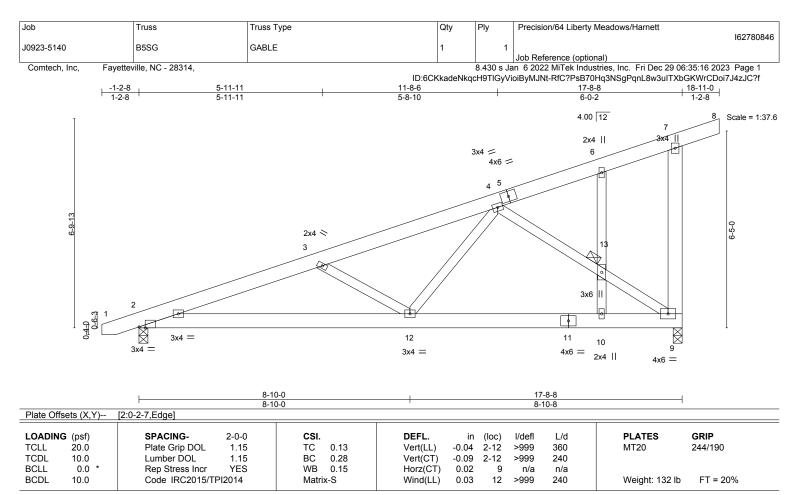
December 29,2023

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**BRACING-**

TOP CHORD

**BOT CHORD** 

**JOINTS** 

LUMBER-

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

2x4 SP No.2 \*Except\* 7-9: 2x6 SP No.1

**OTHERS** 2x4 SP No.2

REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=330(LC 9)

Max Uplift 9=-269(LC 12), 2=-226(LC 8)

Max Grav 9=781(LC 1), 2=760(LC 1)

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

TOP CHORD 2-3=-1462/479, 3-4=-1102/301, 7-9=-254/200 **BOT CHORD** 2-12=-708/1344, 10-12=-377/698, 9-10=-377/698

**WEBS** 3-12=-412/325, 4-12=-94/538, 4-13=-822/367, 9-13=-818/363

### 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; end vertical 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) 9=269, 2=226.



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

Rigid ceiling directly applied or 9-4-4 oc bracing.

except end verticals.

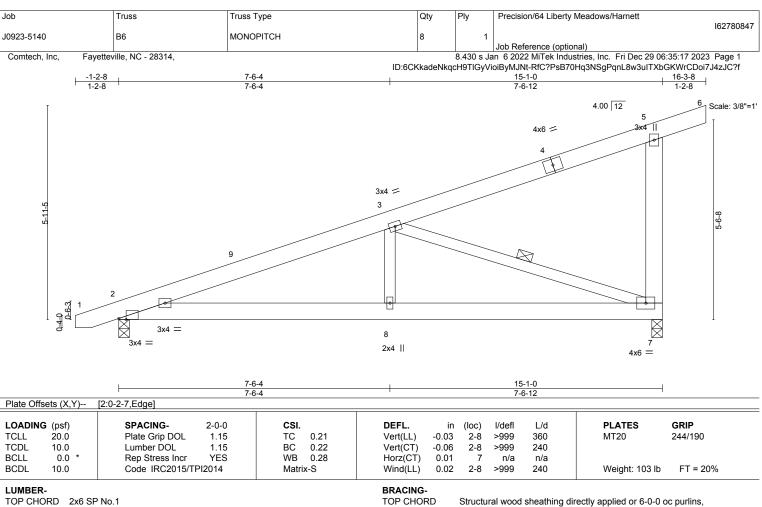
1 Brace at Jt(s): 13

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**BOT CHORD** 

**WEBS** 

except end verticals.

1 Row at midpt

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

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

5-7: 2x6 SP No.1 REACTIONS. (size) 7=0-3-8, 2=0-3-8

Max Horz 2=217(LC 9) Max Uplift 7=-101(LC 12), 2=-90(LC 8) Max Grav 7=676(LC 1), 2=654(LC 1)

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

2-3=-1095/159, 5-7=-279/213 TOP CHORD **BOT CHORD** 2-8=-290/975. 7-8=-290/975 **WEBS** 3-8=0/336, 3-7=-999/231

### 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) -0-11-13 to 3-5-0, Interior(1) 3-5-0 to 16-3-8 zone; end vertical 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) 7=101.



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b	Truss	Truss Type		Qt	y F	Ply	Precision/6	4 Liberty Meado	ows/Harnett	16278084
923-5140	B7GE	GABLE		1		1	Job Refere	nce (optional)		
•	vetteville, NC - 28314,			ID:6CKka 15-1-0			an 6 2022 M	iTek Industries,		:35:18 2023 Page 1 GKWrCDoi7J4zJC?f
1-2	2-8 2-8			15-1-0					+	16-3-8 1-2-8
0.4±0 0.4±0 0.6±3 1 1	2	3	4	5	6		7 7	x6 = 9 8 9 8 9 8 9 8 9 8 9 8 9 8 9 9 8 9	10 12 3x4 11	11 Scale: 3/8"  δ φ φ φ φ
0	3x4 =	18	17	16	15		14	13	12 3x4	<b>!</b>
	-			15-1-0 15-1-0						
OADING (psf) CLL 20.0 CDL 10.0 CLL 0.0 * CDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/T	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.07 BC 0.03 WB 0.03 Matrix-S	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.00 -0.00 -0.00	(loc) 10 11 12	n/r 1 n/r 1	_/d 20 20 20 n/a	PLATES MT20 Weight: 110 lb	<b>GRIP</b> 244/190 FT = 20%

LUMBER-BRACING-

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

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

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

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 15-1-0.

Max Horz 2=285(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 14, 15, 16, 17, 18 except 12=-106(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 12, 2, 13, 14, 15, 16, 17, 18

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

TOP CHORD 2-3=-352/183, 3-4=-298/159, 4-5=-263/148

### 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; end vertical 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) \* This truss has been designed for a live load of 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) 2, 13, 14, 15, 16, 17, 18 except (jt=lb) 12=106.



December 29,2023

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Job Truss Truss Type Qty Precision/64 Liberty Meadows/Harnett Ply 162780849 J0923-5140 C1GE MONOPITCH SUPPORTED Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:19 2023 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

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.

2x4 SPF No.2 - 8-10

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

Brace must cover 90% of web length.

except end verticals.

T-Brace:

13-10-8 12-8-0

Scale = 1:46.4

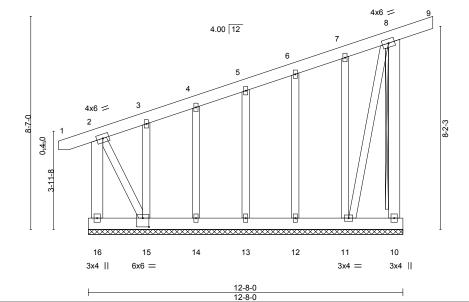


Plate Off	sets (X,Y)	[15:0-3-0,0-4-4]			
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.00 8 n/r 120	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) 0.00 8 n/r 120	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.19	Horz(CT) -0.00 10 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 146 lb FT = 20%

TOP CHORD

**BOT CHORD** 

**WEBS** 

LUMBER-BRACING-2x6 SP No.1

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

2-15,8-11: 2x4 SP No.2

**OTHERS** 2x4 SP No.2

REACTIONS. All bearings 12-8-0.

Max Horz 16=398(LC 9) Max Uplift All uplift 100 lb or less at joint(s) 13, 14, 12, 11 except 10=-232(LC 9),

15=-470(LC 9)

Max Grav All reactions 250 lb or less at joint(s) 10, 13, 14, 15, 12, 11 except

16=485(LC 9)

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

TOP CHORD 2-16=-679/388, 2-3=-295/173, 3-4=-264/169, 8-10=-197/301

BOT CHORD 15-16=-532/379 **WEBS** 2-15=-496/797

(lb) -

### NOTES-

TOP CHORD

- 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; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 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) 13, 14, 12, 11 except (jt=lb) 10=232, 15=470.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



December 29,2023



Job Truss Truss Type Qty Precision/64 Liberty Meadows/Harnett 162780850 J0923-5140 D1GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:20 2023 Page 1 ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 15-7-8 14-5-0 1-2-8 4.00 12 Scale = 1:30.6 8 6 8x8 = 3x4 =15 14 13 12 11 10 3x4 || Plate Offsets (X,Y)--[5:0-4-0,0-4-8] SPACING-**GRIP** LOADING (psf) CSI **DEFL** in (loc) I/defl L/d **PLATES** TCLL 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) 0.00 8 120 244/190 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 9 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.03 -0.00 10 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Weight: 103 lb Matrix-S

LUMBER-TOP CHORD

2x6 SP No.1

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

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

except end verticals.

**BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 14-5-0.

Max Horz 2=274(LC 9) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 11, 12, 13, 14 except 10=-115(LC 9), 15=-116(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 10, 2, 11, 12, 13, 14 except 15=334(LC 1)

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

TOP CHORD 2-3=-329/177, 3-4=-252/136

### 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; end vertical 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) All plates are 2x4 MT20 unless otherwise indicated.
- 4) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11, 12, 13, 14 except (jt=lb) 10=115, 15=116.



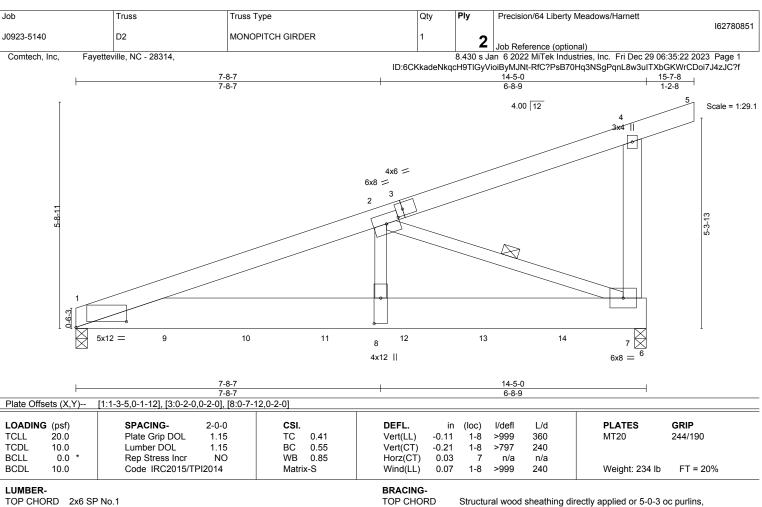


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**BOT CHORD** 

**WEBS** 

except end verticals.

1 Row at midpt

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

TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2 \*Except\*
4-7: 2x6 SP No.1

REACTIONS. (size) 7=0-3-8, 1=0-3-8 Max Horz 1=197(LC 5)

Max Uplift 7=-335(LC 8), 1=-342(LC 4) Max Grav 7=5420(LC 2), 1=6557(LC 2)

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

TOP CHORD 1-2=-9508/502, 2-4=-272/26, 4-7=-285/103

BOT CHORD 1-8=-501/9000, 7-8=-501/9000 WEBS 2-8=-196/5975, 2-7=-9437/567

### NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-3-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 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) 7=335, 1=342.
- 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1567 lb down and 78 lb up at 0-1-12, 1559 lb down and 86 lb up at 2-4-4, 1559 lb down and 86 lb up at 6-4-4, 1559 lb down and 86 lb up at 6-4-4, 1559 lb down and 86 lb up at 8-4-4, and 1559 lb down and 86 lb up at 12-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

### LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-5=-60, 1-6=-20

## SEAL 45844 WGINEER SOLUTION OF THE WORLD STATE OF

December 29,2023



🗥 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 chort Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Buildling Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job Truss Truss Type Qty Ply Precision/64 Liberty Meadows/Harnett 162780851 MONOPITCH GIRDER J0923-5140 D2

Comtech, Inc, Fayetteville, NC - 28314,

**Z** | Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:22 2023 Page 2 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 1=-1474(B) 9=-1466(B) 10=-1466(B) 11=-1466(B) 12=-1466(B) 13=-1466(B) 14=-1466(B)



Job Truss Truss Type Qty Ply Precision/64 Liberty Meadows/Harnett 162780852 J0923-5140 G1SG **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:23 2023 Page 1 Comtech, Inc. ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 6-5-8 6-5-8 Scale: 3/4"=1" 3x4\_H 2x4 || 4.00 12 2x4 || 0-6-3 6 2x4 || 2x4 || 4x6 = Plate Offsets (X,Y)--[6:Edge,0-2-0] LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.14 Vert(LL) 0.04 7-8 >999 240 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.17 Vert(CT) -0.03 7-8 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.02 -0.00 6 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Matrix-S Weight: 34 lb **BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

**OTHERS** 

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

2x4 SP No.2 REACTIONS. (size) 2=0-3-0, 6=0-1-8 Max Horz 2=120(LC 8)

Max Uplift 2=-194(LC 8), 6=-149(LC 8) Max Grav 2=333(LC 1), 6=235(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=194, 6=149.



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

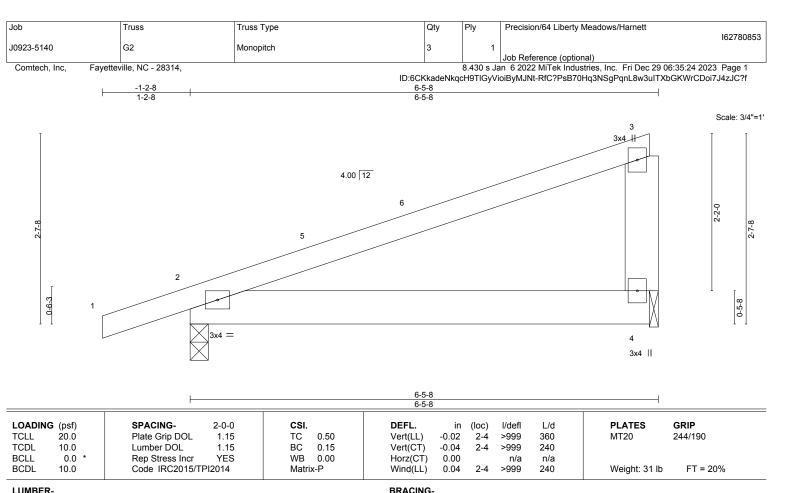
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

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)





TOP CHORD

**BOT CHORD** 

LUMBER-TOP CHORD

2x4 SP No.1 2x6 SP No.1

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

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

Max Horz 2=85(LC 8) Max Uplift 2=-135(LC 8), 4=-102(LC 8) Max Grav 2=333(LC 1), 4=235(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) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 6-2-12 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) except (jt=lb) 2=135, 4=102,



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

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

except end verticals.





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)

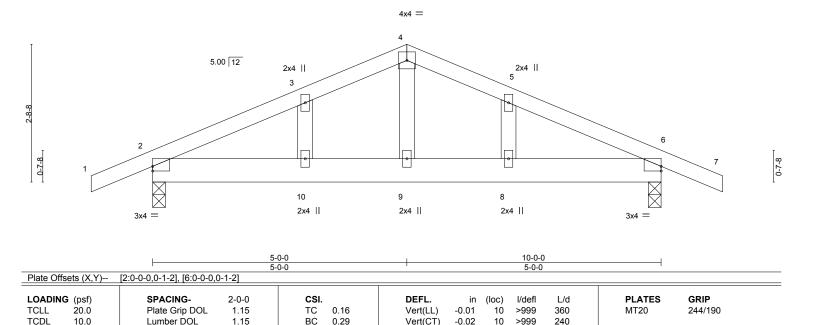


Job Truss Truss Type Qty Ply Precision/64 Liberty Meadows/Harnett 162780854 J0923-5140 H1 **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:25 2023 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f 11-2-8 5-0-0 5-0-0 1-2-8 5-0-0 1-2-8

Scale = 1:22.7

FT = 20%

Weight: 50 lb



Horz(CT)

Wind(LL)

**BRACING-**

**TOP CHORD** 

**BOT CHORD** 

0.00

0.02

6

8 >999

n/a

n/a

240

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

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

LUMBER-

**BCLL** 

**BCDL** 

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

0.0

10.0

REACTIONS.

(size) 2=0-3-0, 6=0-3-0 Max Horz 2=52(LC 12)

Max Uplift 2=-204(LC 8), 6=-204(LC 9) Max Grav 2=470(LC 1), 6=470(LC 1)

Rep Stress Incr

Code IRC2015/TPI2014

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

TOP CHORD 2-3=-542/623, 3-4=-499/662, 4-5=-499/662, 5-6=-542/624 **BOT CHORD** 2-10=-482/442, 9-10=-482/442, 8-9=-482/442, 6-8=-482/442

**WEBS** 4-9=-384/234

- 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

WB

Matrix-S

0.06

- 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.
- Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

YES

- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=204, 6=204.



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

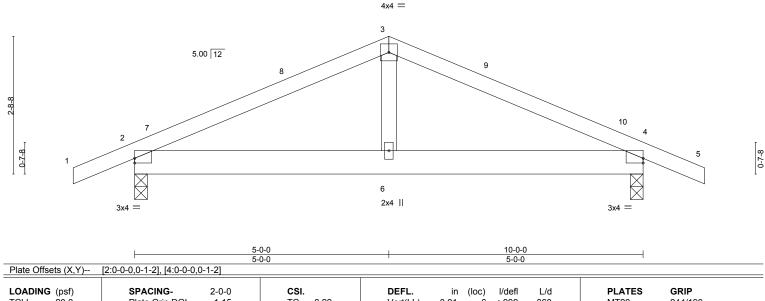
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall

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Job		Truss	Truss Type	Qty	/	Ply	Precision/64 Liberty Meadows/Harnett	
								162780855
J0923-5140		H2	COMMON	4		1		
							Job Reference (optional)	
Comtech, Inc,	Fayettev	rille, NC - 28314,				8.430 s Ja	n 6 2022 MiTek Industries, Inc. Fri Dec 2	29 06:35:26 2023 Page 1
				ID:6CKkad	deNkqc	H9TlGyVi	oiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ul	TXbGKWrCDoi7J4zJC?f
L	-1-2-8	1	5-0-0				10-0-0	11-2-8
	1-2-8		5-0-0				5-0-0	1-2-8

Scale = 1:22.7



20.Ó 244/190 TCLL Plate Grip DOL 1.15 TC 0.22 Vert(LL) -0.01 6 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.38 Vert(CT) -0.01 2-6 >999 240 BCLL 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 n/a n/a **BCDL** Code IRC2015/TPI2014 Weight: 47 lb FT = 20% 10.0 Wind(LL) 0.02 2-6 >999 240 Matrix-S

**BRACING-**

TOP CHORD

**BOT CHORD** 

LUMBER-

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

REACTIONS. (size) 2=0-3-0, 4=0-3-0 Max Horz 2=31(LC 12)

Max Uplift 2=-147(LC 8), 4=-147(LC 9) Max Grav 2=470(LC 1), 4=470(LC 1)

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

TOP CHORD 2-3=-553/619, 3-4=-553/619 BOT CHORD 2-6=-456/439, 4-6=-456/439

WFBS 3-6=-321/238

### 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) -1-2-8 to 3-2-5, Interior(1) 3-2-5 to 5-0-0, Exterior(2) 5-0-0 to 9-4-13, Interior(1) 9-4-13 to 11-2-8 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
- 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) except (jt=lb) 2=147, 4=147.



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

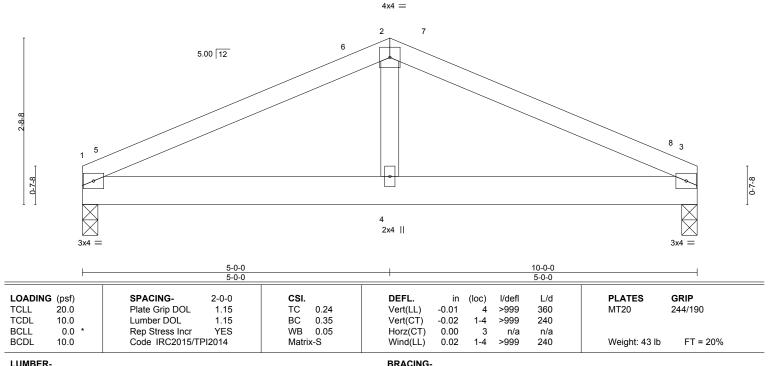
Rigid ceiling directly applied or 10-0-0 oc bracing.

December 29,2023



Job Truss Truss Type Qty Precision/64 Liberty Meadows/Harnett 162780856 J0923-5140 COMMON Н3 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:27 2023 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-0-0 5-0-0

Scale = 1:18.7



TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2

REACTIONS. 1=0-3-0, 3=0-3-0 (size) Max Horz 1=-28(LC 17)

Max Uplift 1=-109(LC 9), 3=-109(LC 8) Max Grav 1=390(LC 1), 3=390(LC 1)

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

TOP CHORD 1-2=-579/661, 2-3=-579/661

**BOT CHORD** 1-4=-518/468, 3-4=-518/468

WEBS 2-4=-320/240

### 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) 0-1-8 to 4-6-5, Interior(1) 4-6-5 to 5-0-0, Exterior(2) 5-0-0 to 9-4-13, Interior(1) 9-4-13 to 9-10-8 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
- 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) except (jt=lb) 1=109, 3=109



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.

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Job	Truss	Truss Type	Qty	Ply	Precision/64 Liberty Meadows/Harnett
J0923-5140	P1GE	MONOPITCH	1	1	162780857
30323-3140	I IGL	MONOTHER	'	'	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:28 2023 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

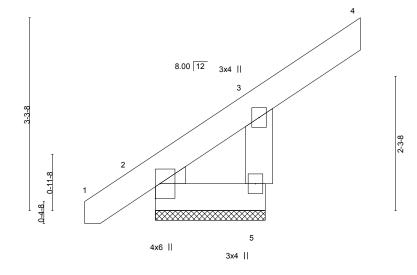
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.

-1-2-8 1-2-8 2-0-0 1-6-0

Scale = 1:19.7



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	0.07	Vert(LL)	0.00	4	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	0.00	3	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P						Weight: 22 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEDGE Left: 2x4 SP No.2

REACTIONS. (size) 5=1-10-8, 2=1-10-8

Max Horz 2=133(LC 12)

Max Uplift 5=-176(LC 12), 2=-12(LC 8) Max Grav 5=223(LC 19), 2=113(LC 21)

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

TOP CHORD 3-5=-253/322

### 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) Gable requires continuous bottom chord bearing.
- 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 except (jt=lb) 5=176.



December 29,2023



Job Truss Truss Type Qty Ply Precision/64 Liberty Meadows/Harnett 162780858 J0923-5140 P2 MONOPITCH 5 Job Reference (optional)

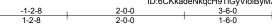
Fayetteville, NC - 28314, Comtech, Inc.

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:29 2023 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

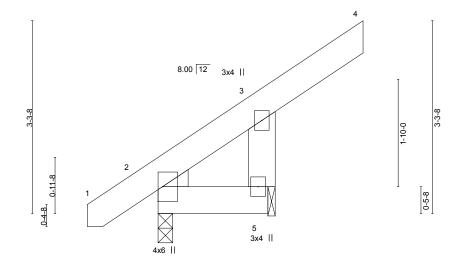
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.



Scale = 1:19.7



2-0-0 2-0-0

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 0.07	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.02	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 22 lb	FT = 20%

BRACING-

TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEDGE Left: 2x4 SP No.2

REACTIONS. (size) 2=0-3-0, 5=0-1-8

Max Horz 2=90(LC 12)

Max Uplift 2=-11(LC 8), 5=-139(LC 9) Max Grav 2=106(LC 21), 5=213(LC 19)

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

TOP CHORD 3-5=-253/323

### 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) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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) 5 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) 5.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=139.



December 29,2023

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 Precision/64 Liberty Meadows/Harnett 162780859 J0923-5140 P3 MONOPITCH 6

Comtech, Inc, Fayetteville, NC - 28314, Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:30 2023 Page 1 ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

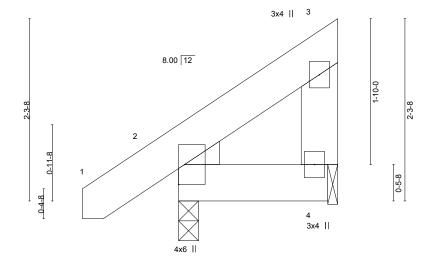
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.

2-0-0 -1-2-8 1-2-8

Scale = 1:14.5



2-0-0

BRACING-

TOP CHORD

**BOT CHORD** 

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	0.03	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.	.15	BC	0.03	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr Y	ES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TPI201	4	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 18 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1 **BOT CHORD** 2x6 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=60(LC 12)

Max Uplift 2=-3(LC 12), 4=-27(LC 12) Max Grav 2=157(LC 1), 4=60(LC 19)

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

- 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) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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.



December 29,2023



Job	Truss	Truss Type	Qty	Ply	Precision/64 Liberty Meadows/Harnett
J0923-5140	P4GE	MONOPITCH	1	1	162780860
J0923-5140	P4GE	MONOPITCH	1	1	Job Reference (optional)

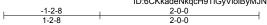
Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:31 2023 Page 1 ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

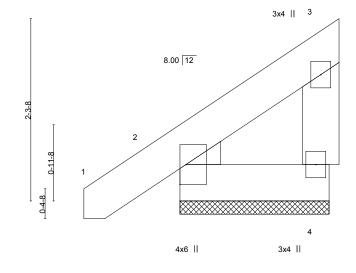
Structural wood sheathing directly applied or 2-0-0 oc purlins,

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

except end verticals.



Scale = 1:14.5



LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	<b>CSI.</b> TC 0.03	<b>DEFL.</b> in (loc) I/defl L/d Vert(LL) 0.00 1 n/r 120	PLATES         GRIP           MT20         244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL 1.15 Rep Stress Incr YES	BC 0.01 WB 0.00	Vert(CT) -0.00 1 n/r 120 Horz(CT) 0.00 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 18 lb FT = 20%

**BRACING-**TOP CHORD

**BOT CHORD** 

LUMBER-

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

WEDGE Left: 2x4 SP No.2

REACTIONS.

(size) 4=1-10-8, 2=1-10-8 Max Horz 2=87(LC 12)

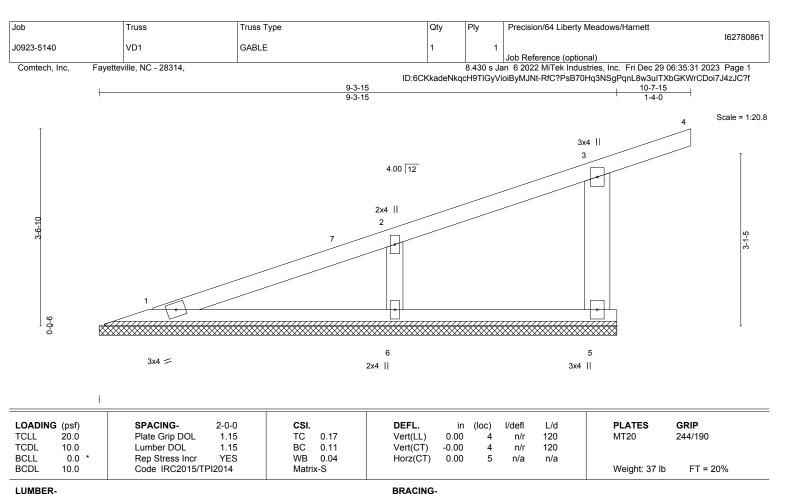
Max Uplift 4=-46(LC 12), 2=-25(LC 12) Max Grav 4=64(LC 19), 2=155(LC 1)

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

- 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; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 2) Gable requires continuous bottom chord bearing.
- 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.







TOP CHORD

**BOT CHORD** 

LUMBER-

TOP CHORD 2x4 SP No.1

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

**OTHERS** 2x4 SP No.2

REACTIONS. (size) 1=9-3-15, 5=9-3-15, 6=9-3-15

Max Horz 1=102(LC 8)

Max Uplift 5=-68(LC 9), 6=-55(LC 8)

Max Grav 1=137(LC 1), 5=226(LC 1), 6=378(LC 1)

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

WEBS 2-6=-272/205

### 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) 0-11-11 to 5-3-15, Interior(1) 5-3-15 to 10-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Gable requires continuous bottom chord bearing.
- 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) 5, 6.



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

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

except end verticals.



Job Truss Truss Type Qty Ply Precision/64 Liberty Meadows/Harnett 162780862 J0923-5140 VD2 VALLEY Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:32 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-3-15 5-3-15 1-4-0 Scale = 1:13.8 3 3x4 || 4.00 12 9-0-0 5 3x4 II 3x4 = 5-2-13 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defl L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 Vert(LL) 0.00 120 244/190 **TCLL** TC 0.15 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.14 Vert(CT) 0.01 3 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.00 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-P Weight: 19 lb FT = 20% BRACING-LUMBER-TOP CHORD TOP CHORD Structural wood sheathing directly applied or 5-3-15 oc purlins,

**BOT CHORD** 

except end verticals.

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

2x4 SP No.1 2x4 SP No.1

BOT CHORD WEBS 2x6 SP No.1

REACTIONS. (size)

1=5-2-13, 5=5-2-13 Max Horz 1=59(LC 8) Max Uplift 5=-68(LC 9)

Max Grav 1=138(LC 1), 5=290(LC 1)

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

TOP CHORD 2-5=-243/295

### 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) 0-11-11 to 5-4-8, Interior(1) 5-4-8 to 6-7-15 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 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) 5.
- 5) Non Standard bearing condition. Review required.





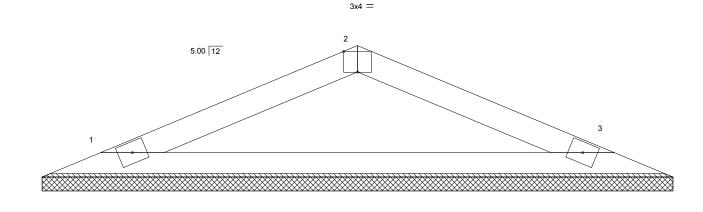
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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 bucking 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 Precision/64 Liberty Meadows/Harnett 162780863 J0923-5140 VH1 VALLEY Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:33 2023 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 3-9-5 3-9-5 3-9-4

Scale = 1:13.8



7-6-9

Plate Offsets (X,Y) [2:0-2-0,Edge]												
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	0.12	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-P						Weight: 21 lb	FT = 20%

LUMBER-

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

3x4 <

REACTIONS.

(size) 1=7-6-9, 3=7-6-9 Max Horz 1=15(LC 16) Max Uplift 1=-15(LC 12), 3=-15(LC 13)

3x4 =

Max Grav 1=244(LC 1), 3=244(LC 1)

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

TOP CHORD 1-2=-266/216, 2-3=-266/216

### 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.



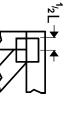
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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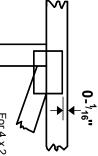


### Symbols

## PLATE LOCATION AND ORIENTATION



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



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

₹

connector plates required direction of slots in This symbol indicates the

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

### **PLATE SIZE**

4 × 4

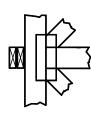
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



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

### **BEARING**



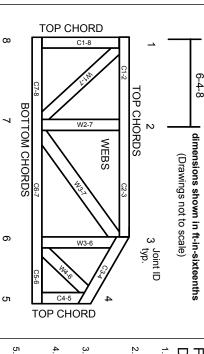
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### Industry Standards:

DSB-22:

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

## 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

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

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

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## MiTek



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

# General Safety Notes

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

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For 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
- Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
- 5 Cut members to bear tightly against each other
- 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.

œ

- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 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 project engineer before use environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated



### **Trenco**

818 Soundside Rd Edenton, NC 27932

Re: J0923-5141

Precision/64 Liberty Meadows/Harnett

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

Pages or sheets covered by this seal: I62780864 thru I62780870

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



December 29,2023

Johnson, Andrew

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

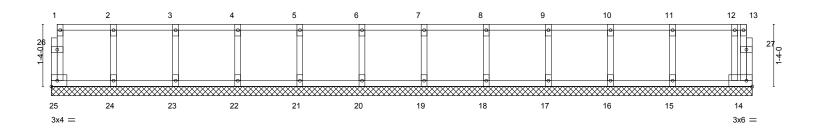
Job	Truss	Truss Type	Qty	Ply	Precision/64 Liberty Meadows/Harnett
J0923-5141		GABLE	1	1	162780864
JU923-3141	E	GABLE	'	'	Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc,

0118

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:52 2023 Page 1 ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hg3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Scale = 1:24.7



1-4-0	2-8-0 4-0-0 5-4-0 1-4-0 1-4-0 1-4-0		8-0-0   9-4-0   10-8-0   12-0-0 1-4-0   1-4-0   1-4-0	13-4-0 1-4-0 1-4-0 1-4-0 1-4-0 1-4-8
LOADING (psf) TCLL 40.0 TCDL 10.0 BCLL 0.0 BCDL 5.0	SPACING- 2-0-0 Plate Grip DOL 1.00 Lumber DOL 1.00 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.07 BC 0.02 WB 0.03 Matrix-R	DEFL.         in (loc)         l/defl         L/d           Vert(LL)         n/a         -         n/a         999           Vert(CT)         n/a         -         n/a         999           Horz(CT)         0.00         14         n/a         n/a	PLATES GRIP MT20 244/190 Weight: 68 lb FT = 20%F, 11%E

**BOT CHORD** 

LUMBER-BRACING-

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

2x4 SP No.3(flat) **OTHERS** 2x4 SP No.3(flat)

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

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

REACTIONS. All bearings 15-0-8.

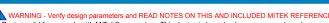
(lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 14, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 5) Gable studs spaced at 1-4-0 oc.
- 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 29,2023



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Job	Truss	Truss Type	Qty	Ply	Precision/64 Liberty Meadows/Harnett
10000 5444		FLOOD			162780865
J0923-5141	F1	FLOOR	8	1	Inh Defended (antique)
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:53 2023 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

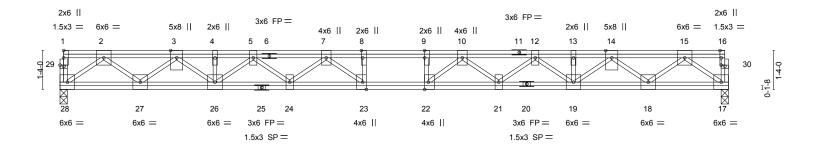
Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.





0-1-8 Scale = 1:39.5



22-11-0 Plate Offsets (X,Y)--[8:0-3-0,Edge], [9:0-3-0,0-0-0], [16:0-3-0,Edge], [22:0-3-0,Edge], [23:0-3-0,Edge], [29:0-1-8,0-0-8], [30:0-1-8,0-0-8] LOADING (psf) SPACING-CSI. (loc) **PLATES** GRIP -0.32 22-23 TCLL 40.0 Plate Grip DOL 1.00 TC 0.16 Vert(LL) >845 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.62 Vert(CT) -0.44 22-23 >615 360 **BCLL** 0.0 Rep Stress Incr YES WB 0.65 Horz(CT) 0.05 17 n/a n/a Code IRC2015/TPI2014 Weight: 181 lb FT = 20%F, 11%E **BCDL** 5.0 Matrix-S

TOP CHORD

**BOT CHORD** 

LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2400F 2.0E(flat) 2x4 SP No.1(flat) BOT CHORD

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

REACTIONS. (size) 28=0-3-0, 17=0-3-0

Max Grav 28=1240(LC 1), 17=1240(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-3=-2540/0, 3-4=-4486/0, 4-5=-4486/0, 5-7=-5702/0, 7-8=-6347/0, 8-9=-6347/0,

9-10=-6347/0, 10-12=-5700/0, 12-13=-4486/0, 13-14=-4486/0, 14-15=-2540/0

BOT CHORD 27-28=0/1517, 26-27=0/3619, 24-26=0/5238, 23-24=0/6134, 22-23=0/6347, 21-22=0/6134,

19-21=0/5238, 18-19=0/3619, 17-18=0/1517

WFBS 2-28=-1876/0, 2-27=0/1357, 3-27=-1428/0, 3-26=0/1124, 15-17=-1876/0, 15-18=0/1357, 14-18=-1428/0, 14-19=0/1124, 12-19=-975/0, 12-21=0/612, 10-21=-591/0, 5-26=-975/0,

5-24=0/614, 7-24=-581/0, 7-23=-229/745, 8-23=-352/63, 10-22=-226/749, 9-22=-369/68

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x6 MT20 unless otherwise indicated.
- 3) The Fabrication Tolerance at joint 25 = 11%, joint 20 = 11%
- 4) Plates checked for a plus or minus 1 degree rotation about its center.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 29,2023



Job	Truss	Truss Type	Qty	Ply	Precision/64 Liberty Meadows/Harnett
		5,000			162780866
J0923-5141	F1-A	FLOOR	1	1	
					Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:55 2023 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

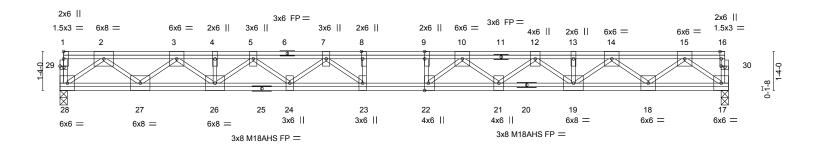
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.



2-0-0 1-2-0 0-1-8 Scale = 1:39.5



22-11-0 Plate Offsets (X,Y)--[8:0-3-0,Edge], [9:0-3-0,0-0-0], [16:0-3-0,Edge], [22:0-3-0,Edge], [29:0-1-8,0-0-8], [30:0-1-8,0-0-8] LOADING (psf) SPACING-(loc) L/d **PLATES GRIP** 1.00 -0.35 23-24 TCLL 40.0 Plate Grip DOL TC 0.36 Vert(LL) >783 480 MT20 244/190 TCDL 10.0 Lumber DOL 1.00 ВС 0.56 Vert(CT) -0.47 23-24 >570 360 M18AHS 186/179 **BCLL** 0.0 Rep Stress Incr NO WB 0.85 Horz(CT) 0.05 17 n/a n/a Code IRC2015/TPI2014 FT = 20%F. 11%E **BCDL** 5.0 Matrix-S Weight: 181 lb

TOP CHORD

**BOT CHORD** 

LUMBER-**BRACING-**

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

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

REACTIONS. (size) 28=0-3-0, 17=0-3-0

Max Grav 28=1777(LC 1), 17=1106(LC 1)

FORCES. (ib) - Max. Comp./Max. Ten. - All forces 250 (ib) or less except when shown. TOP CHORD 2-3=-3515/0, 3-4=-5984/0, 4-5=-5984/0, 5-7=-7227/0, 7-8=-7099/0, 8-9=-7099/0,

9-10=-7099/0, 10-12=-5730/0, 12-13=-4301/0, 13-14=-4301/0, 14-15=-2347/0

27-28=0/2165, 26-27=0/4967, 24-26=0/6854, 23-24=0/7495, 22-23=0/7099, 21-22=0/6396, BOT CHORD

19-21=0/5135, 18-19=0/3392, 17-18=0/1366

WFBS 2-28=-2677/0, 2-27=0/1791, 3-27=-1921/0, 3-26=0/1319, 15-17=-1688/0, 15-18=0/1302,

14-18=-1382/0, 14-19=0/1179, 12-19=-1081/0, 12-21=0/788, 10-21=-898/0, 5-26=-1127/0, 5-24=0/493, 7-24=-367/0, 7-23=-845/0, 8-23=0/296, 10-22=0/1244,

9-22=-549/0

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are MT20 plates unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

### LOAD CASE(S) Standard

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

Vert: 17-28=-7, 1-8=-187, 8-16=-67



December 29,2023



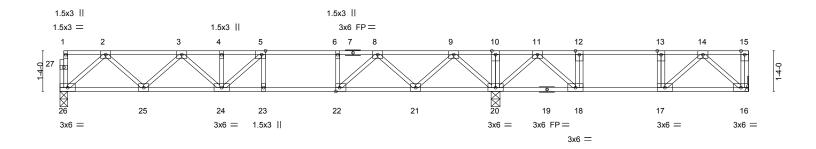
Job	Truss	Truss Type	Qty	Ply	Precision/64 Liberty Meadows/Harnett
J0923-5141	E2	Floor	4	1	162780867
30923-3141	2	1 1001	7	'	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:56 2023 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Scale = 1:37.9



2-3-12 2-5-4



	14	3-12	22-1-8					
	14-3	3-12	8-3-12					
Plate Offsets (X,Y)	[5:0-1-8,Edge], [22:0-1-8,Edge]							
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP				
TCLL 40.0	Plate Grip DOL 1.00	TC 0.55	Vert(LL) -0.16 23-24 >999 480	MT20 244/190				
TCDL 10.0	Lumber DOL 1.00	BC 0.79	Vert(CT) -0.21 23-24 >803 360					
BCLL 0.0	Rep Stress Incr YES	WB 0.36	Horz(CT) 0.03 16 n/a n/a					
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 120 lb FT = 20%F, 11%E				
				_				

LUMBER-**BRACING-**

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

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, Except:

6-0-0 oc bracing: 18-20.

REACTIONS. (size) 26=0-3-0, 20=0-3-8, 16=Mechanical

Max Grav 26=759(LC 10), 20=1309(LC 1), 16=433(LC 7)

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

TOP CHORD 2-3=-1319/0, 3-4=-2078/0, 4-5=-2078/0, 5-6=-2131/0, 6-8=-2131/0, 8-9=-1198/0, 9-10=0/452, 10-11=0/452, 11-12=-665/0, 12-13=-665/0, 13-14=-665/0

25-26=0/814, 24-25=0/1800, 23-24=0/2131, 22-23=0/2131, 21-22=0/1722, 20-21=0/675, BOT CHORD

18-20=-120/334, 17-18=0/665, 16-17=0/409

9-20=-1135/0, 9-21=0/757, 8-21=-774/0, 8-22=0/712, 6-22=-342/0, 2-26=-1081/0, WFBS

2-25=0/703, 3-25=-669/0, 3-24=0/379, 5-24=-312/157, 11-20=-642/0, 11-18=0/584,

14-16=-545/0, 14-17=-8/341, 12-18=-320/0

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 3x4 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 6) CAUTION, Do not erect truss backwards.



December 29,2023



Job	Truss	Truss Type	Qty	Ply	Precision/64 Liberty Meadows/Harnett
J0923-5141	E2	Floor		1	162780868
30923-3141	F3		0	!	Job Reference (optional)

8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:57 2023 Page 1 ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

0-1-8 1-3-0  $H \vdash$ 

→ <del>- 0-9-0</del>

0-1-8 Scale = 1:24.6

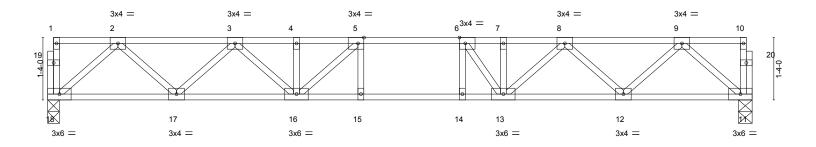


Plate Offsets (X,Y)--[5:0-1-8,Edge], [6:0-1-8,Edge] LOADING (psf) SPACING-CSI. DEFL. (loc) L/d **PLATES** GRIP -0.12 15-16 TCLL 40.0 Plate Grip DOL 1.00 TC 0.42 Vert(LL) >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.66 Vert(CT) -0.17 15-16 >999 360 BCLL 0.0 Rep Stress Incr YES WB 0.37 0.04 Horz(CT) n/a 11 n/a Code IRC2015/TPI2014 Weight: 81 lb FT = 20%F. 11%E **BCDL** 5.0 Matrix-S

LUMBER-**BRACING-**

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

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

REACTIONS. (size) 18=0-3-0, 11=0-3-8 Max Grav 18=807(LC 1), 11=807(LC 1)

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

TOP CHORD 2-3=-1424/0, 3-4=-2269/0, 4-5=-2269/0, 5-6=-2455/0, 6-7=-2254/0, 7-8=-2254/0,

8-9=-1426/0 BOT CHORD 17-18=0/868, 16-17=0/1952, 15-16=0/2455, 14-15=0/2455, 13-14=0/2455, 12-13=0/1952,

11-12=0/868

WFBS 2-18=-1153/0, 2-17=0/774, 3-17=-733/0, 3-16=0/431, 9-11=-1153/0, 9-12=0/776,

8-12=-732/0, 8-13=0/411, 5-16=-507/40, 6-13=-606/20

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) All plates are 1.5x3 MT20 unless otherwise indicated.
- 3) Plates checked for a plus or minus 1 degree rotation about its center.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



December 29,2023



Job Truss Truss Type Qty Precision/64 Liberty Meadows/Harnett 162780869 J0923-5141 F4 **FLOOR** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:58 2023 Page 1 ID:6CKkadeNkgcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 0-4-0 1-3-0 Scale = 1:14.1 3x6 II 1.5x3 II 3x4 =3x4 =6 3x4 || <sub>5</sub> 3x4 = 2 3 12 11 10 1.5x3 II 1.5x3 II 3x4 =3x6 =0-4-0 Plate Offsets (X,Y)--[3:0-1-8,Edge], [8:0-1-8,Edge] SPACING-DEFL. **PLATES** LOADING (psf) CSI. in (loc) I/def L/d **GRIP** TCLL 40.0 Plate Grip DOL 1.00 TC 0.30 Vert(LL) -0.03 7-8 >999 480 244/190 MT20 TCDL 10.0 Lumber DOL 1.00 ВС 0.32 Vert(CT) -0.03 7-8 >999 360 BCLL 0.0 Rep Stress Incr NO WB 0.23 0.01 Horz(CT) n/a n/a Code IRC2015/TPI2014 FT = 20%F, 11%E **BCDL** 5.0 Weight: 41 lb Matrix-S **BRACING-**LUMBER-TOP CHORD 2x4 SP No.1(flat) 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.

BOT CHORD 2x4 SP No.1(flat)

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

REACTIONS. (size) 7=Mechanical, 1=0-3-8 Max Grav 7=628(LC 1), 1=436(LC 1)

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

TOP CHORD

1-3=-364/0, 3-4=-685/0, 4-5=-685/0 9-10=0/685, 8-9=0/685, 7-8=0/557 **BOT CHORD** 

1-10=0/477, 3-10=-443/0, 5-7=-742/0, 5-8=0/333, 4-8=-256/0 WEBS

### NOTES-

- 1) Unbalanced floor live loads have been considered for this design.
- 2) Plates checked for a plus or minus 1 degree rotation about its center.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- 5) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 6) CAUTION, Do not erect truss backwards.

### LOAD CASE(S) Standard

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

Vert: 7-11=-10, 1-12=-100, 6-12=-220





Job Truss Truss Type Qty Ply Precision/64 Liberty Meadows/Harnett 162780870 J0923-5141 FG1 FLOOR GIRDER Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Fri Dec 29 06:35:59 2023 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:6CKkadeNkqcH9TlGyVioiByMJNt-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

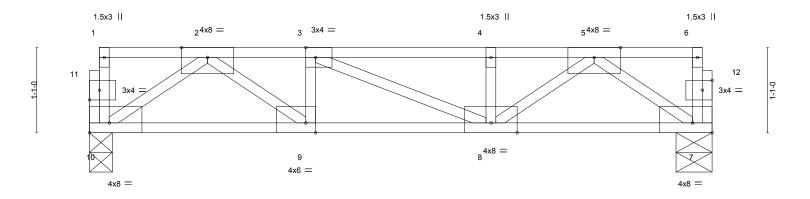
Structural wood sheathing directly applied or 6-0-0 oc purlins,

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

except end verticals.







7-11-0

Plate Off	fsets (X,Y)	[3:0-1-8,Edge], [7:Edge,0-1-8], [9:0-1-8,Edge], [10:Edge,0-1-8], [11:0-1-8,0-1-8], [12:0-1-8,0-1-8]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.68	Vert(LL)	-0.06	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.08	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.74	Horz(CT)	0.03	7	n/a	n/a		
BCDL	5.0	Code IRC2015/Ti	PI2014	Matri	x-P						Weight: 42 lb	FT = 20%F, 11%E

TOP CHORD

**BOT CHORD** 

LUMBER-**BRACING-**

TOP CHORD 2x4 SP 2400F 2.0E(flat) BOT CHORD 2x4 SP No.1(flat)

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

REACTIONS. (size) 10=0-3-8, 7=0-5-8 Max Grav 10=1735(LC 1), 7=1735(LC 1)

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

TOP CHORD 1-10=-261/0, 6-7=-261/0, 2-3=-3357/0, 3-4=-3359/0, 4-5=-3359/0

**BOT CHORD** 9-10=0/2110, 8-9=0/3357, 7-8=0/2110

2-10=-2551/0, 2-9=0/1544, 3-9=-888/0, 5-7=-2551/0, 5-8=0/1546, 4-8=-890/0 **WEBS** 

### NOTES-

- 1) Plates checked for a plus or minus 1 degree rotation about its center.
- 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

### LOAD CASE(S) Standard

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

Vert: 7-10=-10, 1-6=-450

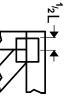


December 29,2023

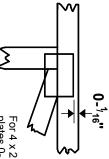


## Symbols

## PLATE LOCATION AND ORIENTATION



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



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

connector plates required direction of slots in This symbol indicates the

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

### **PLATE SIZE**

4 × 4

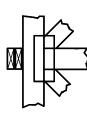
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

## LATERAL BRACING LOCATION



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

### **BEARING**



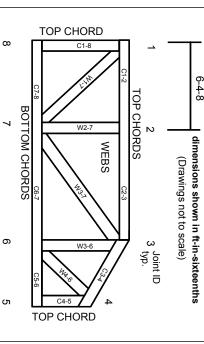
Min size shown is for crushing only number/letter where bearings occur reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

### Industry Standards:

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

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

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

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

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## MiTek



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

# General Safety Notes

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

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

5

- 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.

œ

- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 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 project engineer before use environmental, health or performance risks. Consult with
- 19. Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated



Date: 12/28/2023 Input by: Neal Baggett

Job Name: 64 LIBERTY MEADOWS

Page 1 of 8

Const 0 0

Ld. Comb.

D+S

D+S

Project #:

**GDH SP #2** 

2.000" X 12.000" 2-Ply - PASSED

Level: Level

Reactions UNPATTERNED Ib (Uplift)

Dir.

Vert

Vert

Cap. React D/L lb

337 / 337

337 / 337

13%

13%

Total Ld. Case

673 L

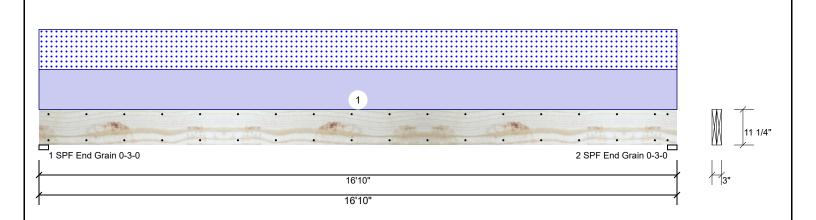
673 L

Bearing Length

1-SPF 3.000"

End Grain 2 - SPF 3.000"

End Grain



							( -	/		
Туре:	Girder	Application:	Floor	Brg	Direction	Live	Dead	Snow	Wind	
Plies:	2	Design Method:	ASD	1	Vertical	0	337	337	0	
Moisture Condition	: Dry	Building Code:	IBC/IRC 2015	2	Vertical	0	337	337	0	
Deflection LL:	480	Load Sharing:	No							
Deflection TL:	360	Deck:	Not Checked							
Importance:	Normal - II									
Temperature:	Temp <= 100°F									_
'	,			Bea	rings					

Analysis	Results
A I ! -	۸ - ۱۰۰

Member Information

•						
Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	2709 ft-lb	8'5"	4548 ft-lb	0.596 (60%)	D+S	L
Unbraced	2709 ft-lb	8'5"	2710 ft-lb	1.000 (100%)	D+S	L
Shear	578 lb	1'2 1/4"	4528 lb	0.128 (13%)	D+S	L
LL Defl inch	0.133 (L/1490)	8'5 1/16"	0.411 (L/480)	0.322 (32%)	S	L
TL Defl inch	0.265 (L/745)	8'5 1/16"	0.549 (L/360)	0.483 (48%)	D+S	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 2 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 14' 3/16" o.c.
- 7 Bottom must be laterally braced at end bearings.

8 Lateral slenderness ratio based on single ply width.											
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments	
1	Uniform			Тор	40 PLF	0 PLF	40 PLF	0 PLF	0 PLF	P3	

This design is valid until 6/28/2026

Manufacturer Info

	Project:		Input by:	Neal Baggett	Page 2 of 8
isDesign	Address:			64 LIBERTY MEADOWS	
			Project #:		
GDH SP #2	2.000" X 12.000"	2-Ply - PASSED	Le	evel: Level	
		•			
			<u> </u>		
					\$ _ <del>/</del>
	• • • • •	• • •	• •	• • •	11 1/4"
1 SPF End Grain 0-3-0				2 SPF End Grain 0-	3-0
		16'10"			7 13"
†		16'10"			<del> </del>
Manual Dis Assal					
Multi-Ply Analysis					
	ws of 10d Box nails (.128x3") a	t 12" o.c Maximum end dis	tance not	t to exceed 6".	
Capacity	0.0 %				
Load Viold Limit per Foot	0.0 PLF				
Yield Limit per Foot Yield Limit per Fastener	202.6 PLF 101.3 lb.				
CM	101.3 lb.				
Yield Mode	IV				
Edge Distance	1 1/2"				
Min. End Distance	3"				
Load Combination	4.00				
Duration Factor	1.00	_			
			N	Manufacturer Info	
				-	
		This design is valid until 6/28/2	2026		
Vorcion 22 40 705 Danie 11 101 17	M Datacet: 22000101 2007	mis design is Valid until 6/28/2	-020		
Version 23.40.705 Powered by iStruct <sup>™</sup>	Dataset: 23090101.2907				CSD DRAW DESIGN BUILD



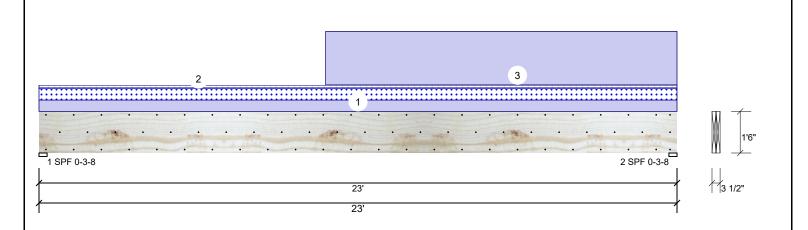
12/28/2023

Input by: Neal Baggett Job Name: 64 LIBERTY MEADOWS Page 3 of 8

Project #:

1.750" X 18.000" 2-Ply - PASSED **Kerto-S LVL** DB<sub>1</sub>

\_evel: Level



Member Info	rmation			Rea	ctions UNP	ATTER	NED II	b (Uplift)			
Type:	Girder	Application:	Floor	Brg	Direction	Live	Э	Dead	Snow	Wind	Const
Plies:	2	Design Method:	ASD	1	Vertical	278	8	1762	621	0	0
Moisture Condition	on: Dry	Building Code:	IBC/IRC 2015	2	Vertical	278	8	3241	621	0	0
Deflection LL:	480	Load Sharing:	No								
Deflection TL:	360	Deck:	Not Checked								
Importance:	Normal - II										
Temperature:	Temp <= 100°F										
				Bea	rings						
				Bea	aring Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
				1 -	SPF 3.500"	Vert	47%	1762 / 674	2436	L	D+0.75(L+S)
					SPF 3.500"	Vert	75%	3241 / 674	3915	L	D+0.75(L+S)

### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	15112 ft-lb	13'2 7/8"	38683 ft-lb	0.391 (39%)	D	Uniform
Unbraced	18767 ft-lb	12'11 3/4"	18779 ft-lb	0.999 (100%)	D+0.75(L+S)	L
Shear	2761 lb	21'2 1/2"	12096 lb	0.228 (23%)	D	Uniform
LL Defl inch	0.107 (L/2523)	11'6 1/16"	0.564 (L/480)	0.190 (19%)	0.75(L+S)	L
TL Defl inch	0.522 (L/519)	11'11 11/16"	0.752 (L/360)	0.694 (69%)	D+0.75(L+S)	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at a maximum of 7'1 3/8" o.c.
- 7 Bottom must be laterally braced at end bearings.

8 Lateral slend	8 Lateral slenderness ratio based on single ply width.									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Near Face	54 PLF	0 PLF	54 PLF	0 PLF	0 PLF	P TRUSSES
2	Tie-In Far	0-0-0 to 23-0-0	0-7-4	Far Face	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	FLOOR LOADING
2	Tie-In Near	0-0-0 to 23-0-0	0-0-0	Тор	15 PSF	40 PSF	0 PSF	0 PSF	0 PSF	FLOOR LOADING
3	Part. Uniform	10-4-0 to 23-0-0		Тор	255 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL & C1GE
	Self Weight				14 PLF					

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

- Dry service conditions, unless noted otherwise
   LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- I. LVL beams must not be cut or drilled
   Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals
   Damagee Beams must not be used

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

This design is valid until 6/28/2026

Metsä Wood

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

Manufacturer Info



12/28/2023 Input by: Neal Baggett

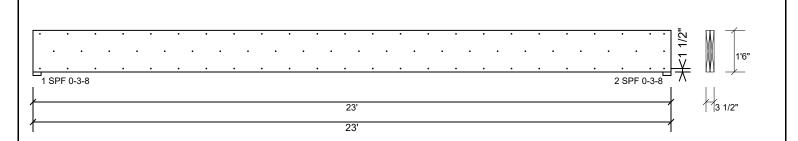
Job Name: 64 LIBERTY MEADOWS

Page 4 of 8

Project #:

2-Ply - PASSED 1.750" X 18.000" **Kerto-S LVL** DB<sub>1</sub>

Level: Level



### Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

	•	•
Capacity	19.1 %	
Load	54.0 PLF	
Yield Limit per Foot	282.4 PLF	
Yield Limit per Fastener	94.1 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination	D+S	
Duration Factor	1.15	

### Notes

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

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

### Handling & Installation

Handling & Installation

1. UVI beams must not be cut or drilled

2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

3. Damaged Beams must not be used

4. Design assumes top edge is laterally restrained

5. Provide lateral support at bearing points to avoid lateral displacement and rotation

For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851



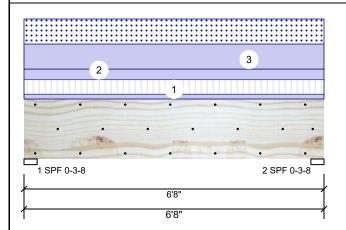
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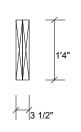
Neal Baggett Job Name: 64 LIBERTY MEADOWS

Project #:

1.750" X 16.000" 2-Ply - PASSED **Kerto-S LVL** FB2

\_evel: Level





Page 5 of 8

### **Member Information**

Type: Plies: 2 Moisture Condition: Dry Deflection LL: 480 Deflection TL: 360 Importance: Normal - II Temperature: Temp <= 100°F

Application: Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift) Brg Direction Snow Wind Const Live Dead 540 1558 937 0 Vertical 0 2 Vertical 540 1558 937 0 0

### **Bearings**

Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	51%	1558 / 1108	2666	L	D+0.75(L+S)
2 - SPF	3.500"	Vert	51%	1558 / 1108	2666	L	D+0.75(L+S)

### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	3879 ft-lb	3'4"	39750 ft-lb	0.098 (10%)	D+0.75(L+S)	L
Unbraced	3879 ft-lb	3'4"	18821 ft-lb	0.206 (21%)	D+0.75(L+S)	L
Shear	1617 lb	5' 1/2"	13739 lb	0.118 (12%)	D+0.75(L+S)	L
LL Defl inch	0.008 (L/9314)	3'4"	0.156 (L/480)	0.052 (5%)	0.75(L+S)	L
TL Defl inch	0.019 (L/3870)	3'4"	0.208 (L/360)	0.093 (9%)	D+0.75(L+S)	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.

8 Lateral siend	8 Lateral sienderness ratio based on single ply width.									
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Near Face	54 PLF	162 PLF	0 PLF	0 PLF	0 PLF	F2
2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
3	Uniform			Тор	281 PLF	0 PLF	281 PLF	0 PLF	0 PLF	B2-A
	Self Weight				12 PLF					

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

- Dry service conditions, unless noted otherwise
   LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

  Damaged Beams must not be used

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

This design is valid until 6/28/2026

Manufacturer Info Metsä Wood 301 Merritt 7 Building, 2nd Floor Norwalk, CT 06851

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Date: 12/28/2023 Input by:

Neal Baggett Job Name: 64 LIBERTY MEADOWS

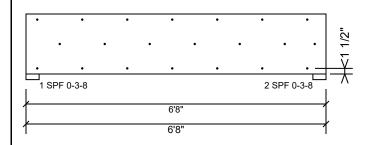
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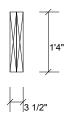
**Kerto-S LVL** FB<sub>2</sub>

1.750" X 16.000"

2-Ply - PASSED

Level: Level





Page 6 of 8

### Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

	· · · · · · · · · · · · · · · · ·	,
Capacity	44.0 %	
Load	108.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination	D+L	
Duration Factor	1.00	

### Notes

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

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

### Handling & Installation

- Handling & Installation

  1. UVI beams must not be cut or drilled

  2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

  3. Damaged Beams must not be used

  4. Design assumes top edge is laterally restrained

  5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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

Manufacturer Info



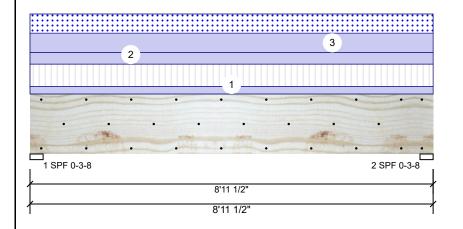
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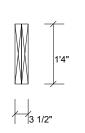
Job Name: 64 LIBERTY MEADOWS

Project #:

1.750" X 16.000" 2-Ply - PASSED **Kerto-S LVL** FB1

\_evel: Level





Page 7 of 8

### Member Information

Type:	Girder
Plies:	2
Moisture Condition:	Dry
Deflection LL:	480
Deflection TL:	360
Importance:	Normal - II
Temperature:	Temp <= 100°F

Application: Design Method: ASD **Building Code: IBC/IRC 2015** Load Sharing: No Deck: Not Checked

Reactions UNPATTERNED Ib (Uplift) Live Snow Wind Const Brg Direction Dead 1021 1807 873 0 Vertical 0 1 2 Vertical 1021 1807 873 0 0

### **Bearings**

Bearing	Length	Dir.	Сар.	React D/L lb	Total	Ld. Case	Ld. Comb.
1 - SPF	3.500"	Vert	62%	1807 / 1421	3228	L	D+0.75(L+S)
2 - SPF	3.500"	Vert	62%	1807 / 1421	3228	L	D+0.75(L+S)

### **Analysis Results**

Analysis	Actual	Location	Allowed	Capacity	Comb.	Case
Moment	5731 ft-lb	4'5 3/4"	34565 ft-lb	0.166 (17%)	D+L	L
Unbraced	6541 ft-lb	4'5 3/4"	13975 ft-lb	0.468 (47%)	D+0.75(L+S)	L
Shear	2224 lb	1'7 1/2"	11947 lb	0.186 (19%)	D+L	L
LL Defl inch	0.022 (L/4718)	4'5 13/16"	0.213 (L/480)	0.102 (10%)	0.75(L+S)	L
TL Defl inch	0.049 (L/2077)	4'5 13/16"	0.284 (L/360)	0.173 (17%)	D+0.75(L+S)	L

### **Design Notes**

- 1 Provide support to prevent lateral movement and rotation at the end bearings. Lateral support may also be required at the interior bearings by the building code.
- 2 Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c. Maximum end distance not to exceed 6".
- 3 Refer to last page of calculations for fasteners required for specified loads.
- 4 Girders are designed to be supported on the bottom edge only.
- 5 Top loads must be supported equally by all plies.
- 6 Top must be laterally braced at end bearings.
- 7 Bottom must be laterally braced at end bearings.

8 Lateral sier	iderness ratio based on singi	e piy widin.								
ID	Load Type	Location	Trib Width	Side	Dead 0.9	Live 1	Snow 1.15	Wind 1.6	Const. 1.25	Comments
1	Uniform			Near Face	76 PLF	228 PLF	0 PLF	0 PLF	0 PLF	F4
2	Uniform			Тор	120 PLF	0 PLF	0 PLF	0 PLF	0 PLF	WALL
3	Uniform			Тор	195 PLF	0 PLF	195 PLF	0 PLF	0 PLF	B4
	Self Weight				12 PLF					

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

- Dry service conditions, unless noted otherwise
   LVL not to be treated with fire retardant or corrosive
- Handling & Installation
- LVL beams must not be cut or drilled
  Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

  2 Damaged Beams must not be used

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

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This design is valid until 6/28/2026



Date: 12/28/2023

Input by: Neal Baggett Job Name: 64 LIBERTY MEADOWS

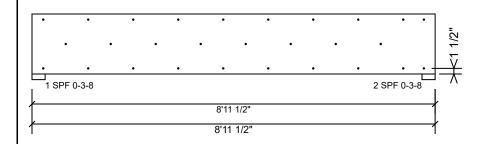
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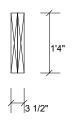
**Kerto-S LVL** FB<sub>1</sub>

1.750" X 16.000"

2-Ply - PASSED

Level: Level





Page 8 of 8

### Multi-Ply Analysis

Fasten all plies using 3 rows of 10d Box nails (.128x3") at 12" o.c.. Maximum end distance not to exceed 6".

	· · · · · · · · · · · · · · · · · · ·	,
Capacity	61.9 %	
Load	152.0 PLF	
Yield Limit per Foot	245.6 PLF	
Yield Limit per Fastener	81.9 lb.	
См	1	
Yield Mode	IV	
Edge Distance	1 1/2"	
Min. End Distance	3"	
Load Combination	D+L	
Duration Factor	1.00	

### Notes

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

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

### Handling & Installation

- Handling & Installation

  1. UVI beams must not be cut or drilled

  2. Refer to manufacturer's product information regarding installation requirements, multi-ply fastening details, beam strength values, and code approvals

  3. Damaged Beams must not be used

  4. Design assumes top edge is laterally restrained

  5. Provide lateral support at bearing points to avoid lateral displacement and rotation
- 6. For flat roofs provide proper drainage to prevent ponding

This design is valid until 6/28/2026

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Manufacturer Info						
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Metsa Wood 301 Merritt 7 Building						