

RE: J0724-4216

Lot 140 Duncans Creek

Trenco 818 Soundside Rd Edenton, NC 27932

> Date 3/6/2024 3/6/2024 3/6/2024 3/6/2024 3/6/2024 3/6/2024

Site Information:

Customer: Project Name: J0724-4216

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

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

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

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

This package includes 27 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date	No.	Seal#	Truss Name
1	164045914	A01GE	3/6/2024	21	164045934	VB1
2	164045915	A02	3/6/2024	22	164045935	VB2
3	164045916	A03	3/6/2024	23	164045936	VB3
4	164045917	A03A	3/6/2024	24	164045937	VC1
5	164045918	A04	3/6/2024	25	164045938	VD1
6	164045919	A05	3/6/2024	26	164045939	VD2
7	164045920	B01GE	3/6/2024	27	164045940	VD3
8	164045921	B02-GR	3/6/2024			
9	164045922	C01GE	3/6/2024			
10	164045923	C02	3/6/2024			
11	164045924	D01GE	3/6/2024			
12	164045925	D02-GR	3/6/2024			
13	164045926	M01GE	3/6/2024			
14	164045927	M02	3/6/2024			
15	164045928	M02A	3/6/2024			
16	164045929	M03	3/6/2024			
17	164045930	M04	3/6/2024			
18	164045931	M05GE	3/6/2024			
19	164045932	M06GE	3/6/2024			

3/6/2024

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

Truss Engineering Co. under my direct supervision

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

M07

Truss Design Engineer's Name: Gilbert, Eric

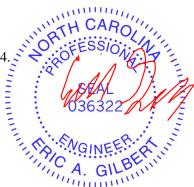
My license renewal date for the state of North Carolina is December 31, 2024

North Carolina COA: C-0844

164045933

20

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



March 06, 2024

Job Truss Truss Type Qty Lot 140 Duncans Creek 164045914 J0724-4216 A01GE **GABLE** 2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:18 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-11₋0 0-11-0 18-11-8 18-8-8 Scale = 1:69.2 5x8 = 6.00 12 13 14 12 15 4x8 / 48 49 16 4x8 ≈ 10 17 18 8 19 10-5-12 20 21 22 4x8 / 4x8 || 23 24 1-1-8 ^^^ 40 39 38 36 34 33 32 30 29 28 27 2625 4x8 = 4x8 = 4x6 ||

DEFL.

Vert(LL)

TCDL 10.0 Lumber DOL 1.15 ВС 0.04 Vert(CT) -0.00 **BCLL** 0.0 Rep Stress Incr YES WB 0.13 Horz(CT) 0.00 25 BCDL 10.0 Code IRC2015/TPI2014 Matrix-S BRACING-LUMBER-

2-0-0

1.15

2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, 2x6 SP No.1 except end verticals. 2x4 SP No.2 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

CSI

TC

OTHERS 2x4 SP No.2 **WEBS** 2x4 SPF No.2 - 13-36, 12-37, 14-35 SLIDER Left 2x4 SP No.2 0-11-1 Fasten (2X) T and I braces to narrow edge of web with 10d

0.09

(0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

PLATES

Weight: 328 lb

MT20

GRIP

244/190

FT = 20%

L/d

120

120

n/a

(loc)

-0.00

I/def

n/r

n/r

n/a

REACTIONS. All bearings 37-8-0.

Max Horz 2=216(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 25, 2, 37, 38, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29,

28, 27 except 46=-175(LC 12), 26=-234(LC 13)

All reactions 250 lb or less at joint(s) 2, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 35, 34, 32, 31, Max Grav

30, 29, 28, 27, 26 except 25=255(LC 13)

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

TOP CHORD 2-3=-340/113, 10-11=-101/306, 11-12=-124/370, 12-13=-137/406, 13-14=-137/408,

14-15=-124/372, 15-16=-101/309, 16-18=-81/250

LOADING (psf)

TOP CHORD

BOT CHORD

WEBS

20.0

TCLL

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

SPACING-

Plate Grip DOL

- 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 Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 18-11-8, Corner(3) 18-11-8 to 23-4-5, Exterior(2) 23-4-5 to 37-6-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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) 25, 2, 37, 38, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27 except (jt=lb) 46=175, 26=234.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



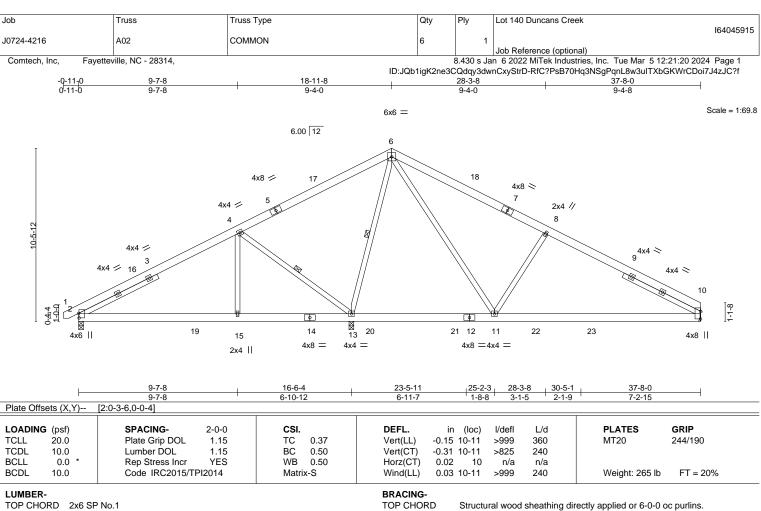
March 6,2024

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

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

building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/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)





BOT CHORD

WEBS

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

4-13, 6-13

1 Row at midpt

LUMBER-

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

SLIDER Left 2x4 SP No.2 5-3-12, Right 2x4 SP No.2 5-2-13

REACTIONS. (size) 2=0-3-8, 13=0-3-8, 10=Mechanical

Max Horz 2=-134(LC 8)

Max Uplift 2=-88(LC 12), 13=-23(LC 12), 10=-106(LC 13) Max Grav 2=676(LC 23), 13=1756(LC 2), 10=831(LC 20)

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

2-4=-745/274, 4-6=-54/306, 6-8=-852/396, 8-10=-1090/373 TOP CHORD

BOT CHORD 2-15=-133/577, 13-15=-133/577, 10-11=-172/883

WEBS 4-15=0/372, 4-13=-839/271, 6-13=-1047/143, 6-11=-157/1033, 8-11=-538/326

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 37-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13 except (jt=lb) 10=106.



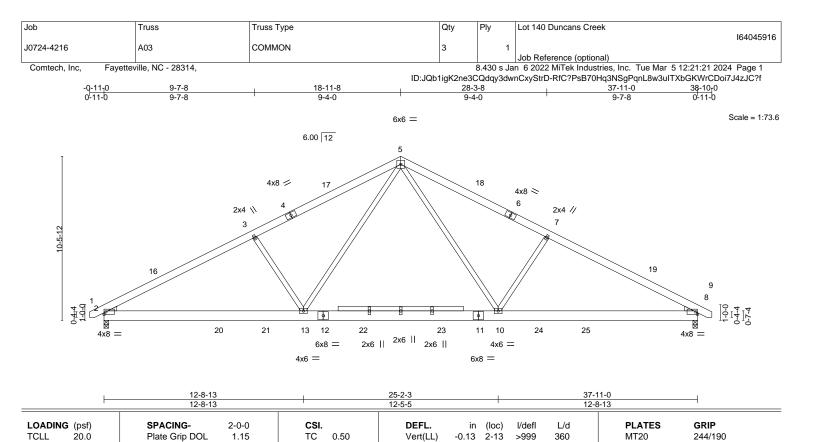
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Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.25 10-13

0.05

0.06

>999

>999

n/a

8

2-13

240

n/a

240

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

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

Weight: 285 lb

FT = 20%

LUMBER-

TCDL

BCLL

BCDL

2x6 SP No.1 TOP CHORD

10.0

0.0

10.0

2x8 SP No.1 *Except* BOT CHORD 14-15: 2x4 SP No.1

WEBS 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 2=130(LC 9)

Max Uplift 2=-2(LC 12), 8=-2(LC 13) Max Grav 2=1659(LC 1), 8=1659(LC 1)

Lumber DOL

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=-2761/320, 3-5=-2456/348, 5-7=-2456/348, 7-8=-2761/320

BOT CHORD 2-13=-162/2310, 10-13=0/1581, 8-10=-155/2310

WEBS 5-10=-20/985, 7-10=-481/334, 5-13=-20/985, 3-13=-481/334

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-8-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

ВС

WB

Matrix-S

0.46

0.30

- 3) 200.0lb AC unit load placed on the bottom chord, 18-11-8 from left end, supported at two points, 5-0-0 apart.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

YES

- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.

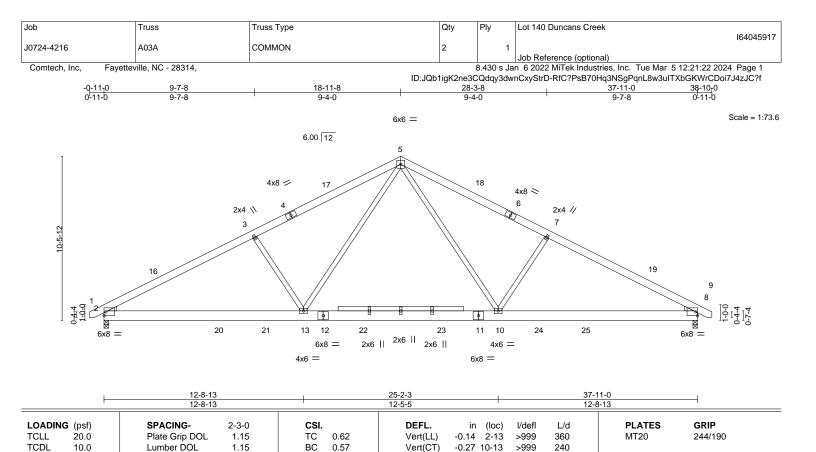


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Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

0.06

0.07

8

2-13

n/a

>999

n/a

240

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

Structural wood sheathing directly applied or 4-0-8 oc purlins.

Weight: 285 lb

FT = 20%

LUMBER-

BCLL

BCDL

2x6 SP No.1 TOP CHORD

0.0

10.0

2x8 SP No.1 *Except* BOT CHORD 14-15: 2x4 SP No.1

WEBS 2x4 SP No.2

WEDGE

Left: 2x4 SP No.3, Right: 2x4 SP No.3

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

Max Horz 2=146(LC 9)

Max Uplift 2=-15(LC 12), 8=-15(LC 13) Max Grav 2=1854(LC 1), 8=1854(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=-3077/388, 3-5=-2734/420, 5-7=-2734/420, 7-8=-3077/388

BOT CHORD 2-13=-207/2574, 10-13=0/1761, 8-10=-199/2574

WEBS 5-10=-38/1093, 7-10=-543/374, 5-13=-38/1093, 3-13=-543/374

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 38-8-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

WB

Matrix-S

0.34

- 3) 200.0lb AC unit load placed on the bottom chord, 18-11-8 from left end, supported at two points, 5-0-0 apart.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

NO

- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.

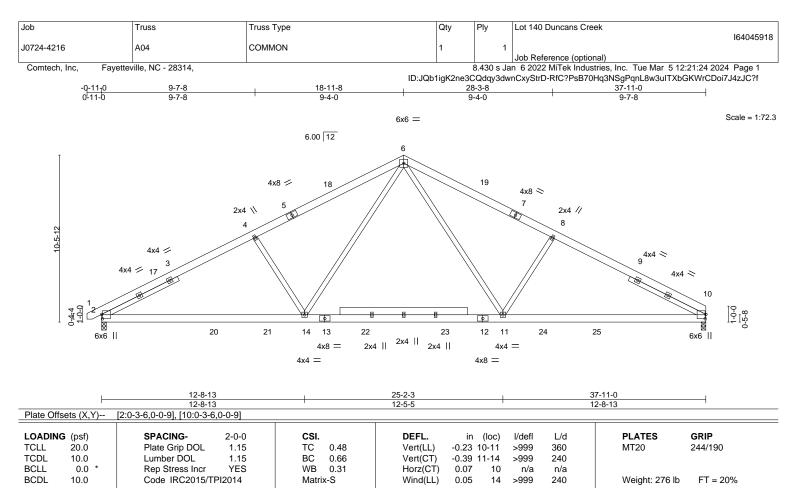


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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SP No.2 5-3-13, Right 2x4 SP No.2 5-3-13

REACTIONS. (size) 2=0-3-8, 10=0-3-8 Max Horz 2=-134(LC 8)

Max Uplift 2=-1(LC 12)

Max Grav 2=1663(LC 1), 10=1616(LC 1)

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

TOP CHORD $2\text{-}4\text{--}2725/328,\ 4\text{-}6\text{--}2442/351,\ 6\text{-}8\text{--}2444/364,\ 8\text{-}10\text{--}2726/343}$

BOT CHORD 2-14=-149/2300, 11-14=0/1599, 10-11=-154/2302

WEBS 6-11=-22/969, 8-11=-477/340, 6-14=-19/966, 4-14=-476/338

NOTES-

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 37-11-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 200.0lb AC unit load placed on the bottom chord, 18-11-8 from left end, supported at two points, 5-0-0 apart.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.



Structural wood sheathing directly applied or 4-4-7 oc purlins.

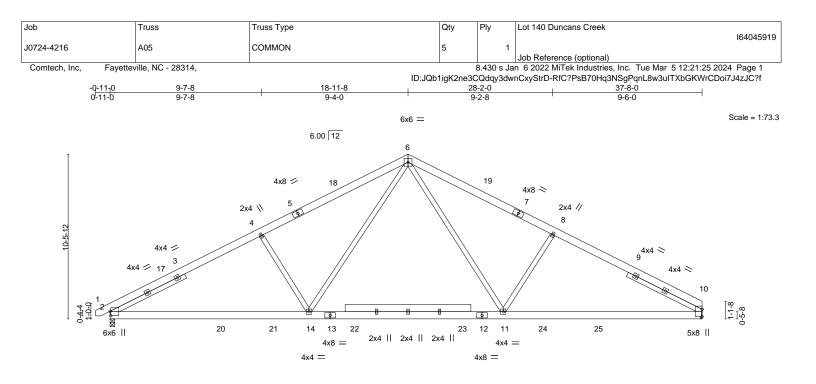
Rigid ceiling directly applied or 10-0-0 oc bracing.

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	12-7-13	l	12-4-5	12	!-7-13	<u> </u>
Plate Offsets (X,Y)	[2:0-3-6,0-0-9]					
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 0.44	Vert(LL) -0.24 10-11	l >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.41 10-11	l >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.34	Horz(CT) 0.06 10) n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 14	4 >999 240	Weight: 275 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x4 SP No.2 5-3-14, Right 2x4 SP No.2 5-3-11

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

Max Horz 2=-134(LC 8)

Max Uplift 2=-101(LC 12), 10=-89(LC 13) Max Grav 2=1553(LC 1), 10=1506(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-4=-2479/550, 4-6=-2200/578, 6-8=-2155/582, 8-10=-2436/559

12-7-13

BOT CHORD 2-14=-339/2088, 11-14=-107/1436, 10-11=-336/2036

WEBS 4-14=-495/319, 6-14=-140/852, 6-11=-129/814, 8-11=-464/312

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

- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-2 to 3-7-11, Interior(1) 3-7-11 to 18-11-8, Exterior(2) 18-11-8 to 23-4-5, Interior(1) 23-4-5 to 37-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) 10 except (jt=lb) 2=101.



37-8-0

Structural wood sheathing directly applied or 4-8-13 oc purlins.

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

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



Job Truss Truss Type Qty Lot 140 Duncans Creek 164045920 J0724-4216 B01GE **GABLE** Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:26 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 14-0-0 0-11-0 6-6-8 6-6-8 0-11-0 Scale = 1:32.8 5x5 = 6 8.00 12 4x4 <> 11 10 -2-1 3x6 || 3x6 || 16 15 14 13 12

LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES GRIP** 2-0-0 (loc) I/def 20.0 Plate Grip DOL Vert(LL) 0.00 120 244/190 **TCLL** 1.15 TC 0.02 10 n/r MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.02 Vert(CT) 0.00 10 n/r 120 **BCLL** 0.0 Rep Stress Incr YES WB 0.04 Horz(CT) 0.00 10 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 108 lb FT = 20%

BOT CHORD

LUMBER-**BRACING-**TOP CHORD

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

SLIDER Left 2x6 SP No.1 2-6-0, Right 2x6 SP No.1 2-6-0

REACTIONS. All bearings 13-1-0.

(lb) -Max Horz 2=150(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-143(LC 12), 12=-136(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

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

NOTES-

- 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 Corner(3) -0-11-0 to 3-5-13, Exterior(2) 3-5-13 to 6-6-8, Corner(3) 6-6-8 to 10-11-5, Exterior(2) 10-11-5 to 14-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13 except (jt=lb) 16=143, 12=136.



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

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

March 6,2024



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Job Truss Truss Type Qty Ply Lot 140 Duncans Creek 164045921 J0724-4216 B02-GR Common Girder ▲ Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:28 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 6-6-8 6-6-8 Scale = 1:32.8 5x5 = 3 8.00 12 4x4 🖊 4x4 <> 4x4 🖊 4x4 > 5 1-2-1 7 8 9 10 11 6 4x8 4x8 3x10 || 6-6-8 13-1-0 LOADING (psf) SPACING-CSI. DEFL. L/d **PLATES GRIP** 2-0-0 (loc) I/defl 20.0 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.15 Vert(LL) -0.06 5-6 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.85 Vert(CT) -0.11 5-6 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.37 Horz(CT) 0.01 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Wind(LL) 0.05 5-6 >999 240 Weight: 188 lb FT = 20%

> BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2 **SLIDER** Left 2x6 SP No.1 3-11-3, Right 2x6 SP No.1 3-11-3

REACTIONS.

(size) 1=0-3-8, 5=0-5-8 Max Horz 1=121(LC 24)

Max Uplift 1=-386(LC 8), 5=-448(LC 9) Max Grav 1=2703(LC 1), 5=3080(LC 1)

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

1-3=-3040/471, 3-5=-3030/469 TOP CHORD **BOT CHORD** 1-6=-307/2358, 5-6=-307/2358

WFBS 3-6=-403/3046

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=386, 5=448.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 789 lb down and 139 lb up at 2-0-12, 789 lb down and 139 lb up at 4-0-12, 789 lb down and 139 lb up at 6-0-12, 789 lb down and 139 lb up at 8-0-12, and 789 lb down and 139 lb up at 10-0-12, and 789 lb down and 139 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

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



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

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

Continued on page 2

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

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Job Truss Truss Type Qty Ply Lot 140 Duncans Creek 164045921 J0724-4216 B02-GR Common Girder

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

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:28 2024 Page 2
ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 7=-789(B) 8=-789(B) 9=-789(B) 10=-789(B) 11=-789(B) 12=-789(B)



Job Truss Truss Type Qty Lot 140 Duncans Creek 164045922 J0724-4216 C01GE **GABLE** Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:29 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

7-6-8

15-1-0

except end verticals.

Structural wood sheathing directly applied or 3-0-7 oc purlins,

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

Scale = 1:26.5

16-0-0

0-11-0

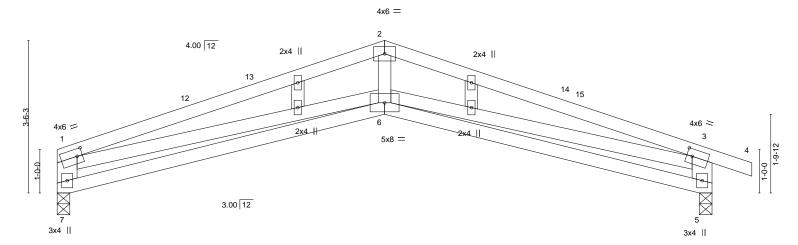


Plate Offsets (X,Y)--[1:0-1-8,0-2-0], [3:0-1-8,0-2-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.73 Vert(LL) -0.10 5-6 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.35 Vert(CT) -0.23 5-6 >761 240 BCLL 0.0 Rep Stress Incr YES WB 0.31 Horz(CT) 0.10 5 n/a n/a Code IRC2015/TPI2014 Weight: 76 lb FT = 20% **BCDL** 10.0 Wind(LL) 6 >999 240 Matrix-S 0.08

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

1-7,3-5: 2x6 SP No.1

OTHERS 2x4 SP No.2

REACTIONS. (size) 7=0-3-8, 5=0-3-8

Max Horz 7=-34(LC 17)

Max Uplift 7=-136(LC 8), 5=-195(LC 9) Max Grav 7=582(LC 1), 5=656(LC 1)

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

7-6-8

TOP CHORD 1-2=-1783/429, 2-3=-1787/444, 1-7=-592/248, 3-5=-698/339

BOT CHORD 6-7=-149/393, 5-6=-221/526

WEBS 2-6=-34/694, 1-6=-214/1269, 3-6=-177/1141

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 7-6-8, Exterior(2) 7-6-8 to 11-11-5, Interior(1) 11-11-5 to 16-0-0 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Bearing at joint(s) 7, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=136, 5=195,



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Job Truss Truss Type Qty Lot 140 Duncans Creek 164045923 J0724-4216 C02 **SCISSORS** Job Reference (optional) 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:30 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

7-6-8

Structural wood sheathing directly applied or 3-0-7 oc purlins,

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

except end verticals.

Scale = 1:26.5

16-0-0

0-11-0

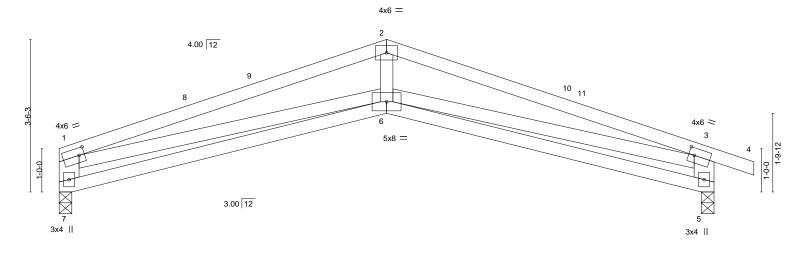


Plate Off	sets (X,Y)	[1:0-1-8,0-2-0], [3:0-1-8,0)-2-0]										
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.73	Vert(LL)	-0.10	5-6	>999	360	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.23	5-6	>761	240			
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.31	Horz(CT)	0.10	5	n/a	n/a			
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S	Wind(LL)	0.07	6	>999	240	Weight: 75 lb	FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

1-7,3-5: 2x6 SP No.1

(size) 7=0-3-8, 5=0-3-8

Max Horz 7=-19(LC 17)

Max Uplift 7=-46(LC 8), 5=-88(LC 9) Max Grav 7=582(LC 1), 5=656(LC 1)

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

7-6-8

1-2=-1783/429, 2-3=-1787/444, 1-7=-592/248, 3-5=-698/339 TOP CHORD

BOT CHORD 6-7=-144/393. 5-6=-200/526

WEBS 2-6=-34/694, 1-6=-214/1269, 3-6=-177/1141

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) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 7-6-8, Exterior(2) 7-6-8 to 11-11-5, Interior(1) 11-11-5 to 16-0-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 5) Bearing at joint(s) 7, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 5.



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Job Truss Truss Type Qty Lot 140 Duncans Creek 164045924 J0724-4216 D01GE **GABLE** Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:31 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-11-0 0-11-0 11-7-0 12-6-0 5-9-8 5-9-8 0-11-0 Scale = 1:30.1 5x5 = 6 8.00 12 8 4x4 / 4x4 ≫ 11 10 <u>-</u>5

14

11-7-0

BRACING-

TOP CHORD

BOT CHORD

13

12

3x6 II

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

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

			11-7-0	
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.02	Vert(LL) -0.00 10 n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.01	Vert(CT) -0.00 10 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 10 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 93 lb $FT = 20\%$

15

LUMBER-

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

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

SLIDER Left 2x6 SP No.1 1-7-15, Right 2x6 SP No.1 1-7-15

3x6 II

REACTIONS. All bearings 11-7-0.

(lb) -Max Horz 2=135(LC 9)

Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 15, 13 except 16=-131(LC 12), 12=-122(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 10, 14, 15, 16, 13, 12

16

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-11-0 to 3-5-13, Exterior(2) 3-5-13 to 5-9-8, Corner(3) 5-9-8 to 10-2-5, Exterior(2) 10-2-5 to 12-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 15, 13 except (jt=lb) 16=131, 12=122.



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Job Truss Truss Type Qty Ply Lot 140 Duncans Creek 164045925 J0724-4216 D02-GR Common Girder ▲ Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:32 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-9-8 5-9-8 Scale = 1:30.1 5x5 || 3 8.00 12 4x4 🖊 4x4 × 2 4x4 🥢 4x4 > 8 9 10 6 4x12 || 4x12 || 4x12 || 5-9-8 11-7-0 Plate Offsets (X,Y)-- [1:0-5-8,Edge], [5:0-7-8,Edge]

BCLL 0.0 * Rep Stress Incr NO WB 0.68 Horz(CT) 0.02 5 n/a n/a No Weight: 167 lb F BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.04 1-6 >999 240 Weight: 167 lb F		20.0 10.0 0.0 *	.0 Pla .0 Lui .0 * Re						- (- /		(loc) 1-6 1-6 5 1-6			PLATES MT20 Weight: 167 lb	GRIP 244/190 FT = 2
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BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

SLIDER Left 2x6 SP No.1 3-5-13, Right 2x6 SP No.1 3-5-13

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

Max Horz 1=109(LC 24)

Max Uplift 1=-268(LC 8), 5=-279(LC 9) Max Grav 1=4574(LC 2), 5=4746(LC 2)

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

TOP CHORD 1-3=-4995/330, 3-5=-4992/330 **BOT CHORD** 1-6=-199/3951, 5-6=-199/3951

WEBS 3-6=-260/5578

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-6-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=268, 5=279.
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1702 lb down and 109 lb up at 1-11-4, 1702 lb down and 109 lb up at 3-11-4, 1702 lb down and 109 lb up at 5-11-4, and 1702 lb down and 109 lb up at 7-11-4. and 1702 lb down and 109 lb up at 9-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others

LOAD CASE(S) Standard

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

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



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

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

March 6,2024

Continued on page 2



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



Job Truss Truss Type Qty Ply Lot 140 Duncans Creek 164045925 J0724-4216 D02-GR Common Girder

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

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:33 2024 Page 2
ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 6=-1486(B) 7=-1486(B) 8=-1486(B) 9=-1486(B) 10=-1486(B)



Job Truss Truss Type Qty Lot 140 Duncans Creek 164045926 J0724-4216 M01GE **GABLE** Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:33 2024 Page 1 Comtech, Inc,

Fayetteville, NC - 28314,

ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

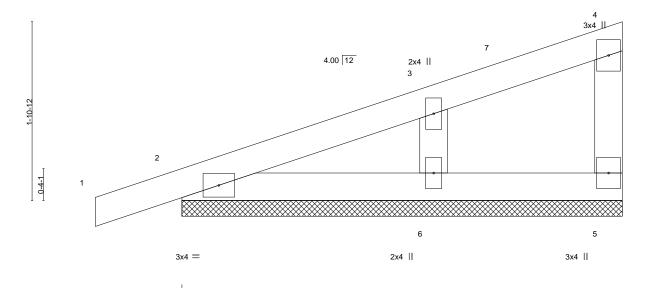
Structural wood sheathing directly applied or 4-8-0 oc purlins,

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

except end verticals.

4-8-0 0-11-0 4-8-0

Scale = 1:12.2



LOADIN	IG (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	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TP	PI2014	Matri	x-P						Weight: 19 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

2x4 SP No.2 **OTHERS** 2x4 SP No.2

(size) 5=4-8-0, 2=4-8-0, 6=4-8-0

Max Horz 2=89(LC 8)

Max Uplift 5=-19(LC 8), 2=-63(LC 8), 6=-74(LC 12) Max Grav 5=48(LC 1), 2=153(LC 1), 6=215(LC 1)

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

WEBS 3-6=-157/287

NOTES-

REACTIONS.

- 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 Corner(3) -0-11-0 to 3-5-13, Exterior(2) 3-5-13 to 4-6-4 zone; 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 requires continuous bottom chord bearing.
- 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) 5, 2, 6.

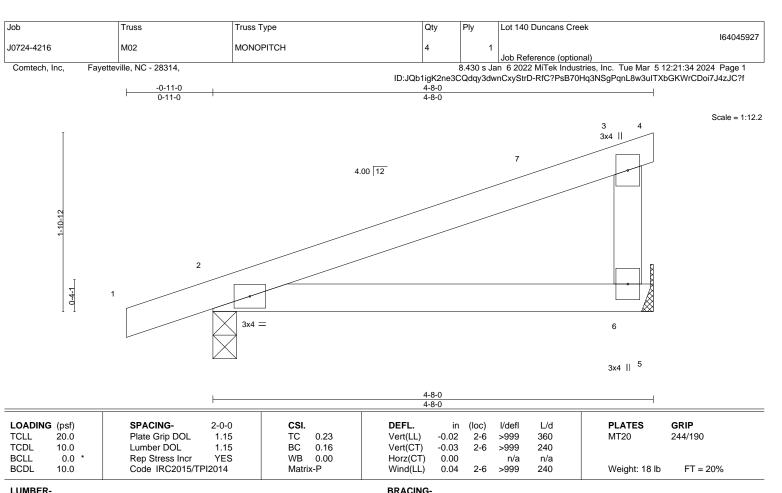


WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.2

> 6=Mechanical, 2=0-3-0 (size) Max Horz 2=64(LC 8)

Max Uplift 6=-71(LC 8), 2=-99(LC 8) Max Grav 6=174(LC 1), 2=241(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-8-0 zone; porch left 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



Structural wood sheathing directly applied or 4-8-0 oc purlins,

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

except end verticals.



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Job Truss Truss Type Qty Lot 140 Duncans Creek 164045928 J0724-4216 M02A **ROOF SPECIAL** 2 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:35 2024 Page 1 ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 0-11-0 4-8-0 1-0-0 Scale = 1:12.6 4x4 || 4.00 12 2 6x6 2x4 0-4-1 12 3x4 = 10 3x6 || 6x6 = 7 4-8-0 Plate Offsets (X,Y)--[2:0-2-0,Edge] **PLATES** LOADING (psf) SPACING-CSI. DEFL. in (loc) I/defl L/d GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.70 Vert(LL) -0.02 2-10 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.32 Vert(CT) -0.03 2-10 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.29 Horz(CT) -0.01 8 n/a n/a Code IRC2015/TPI2014 FT = 20% **BCDL** 10.0 Wind(LL) 2-10 >999 240 Matrix-S 0.05 Weight: 23 lb BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2

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

Max Horz 2=64(LC 8)

Max Uplift 2=-177(LC 8), 8=-438(LC 8) Max Grav 2=427(LC 1), 8=1064(LC 3)

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

TOP CHORD 2-3=-681/906, 9-10=-636/440 **BOT CHORD** 2-10=-917/609, 8-10=-1235/815

WFBS 8-9=-1083/1641

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-8-0 zone; porch left 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.
- * 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 7) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 500 lb down and 688 lb up at 4-9-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-20, 2-7=-20, 6-9=-25, 5-6=-20

Concentrated Loads (lb)

Vert: 9=-500 12=-500



Structural wood sheathing directly applied or 4-8-0 oc purlins,

Rigid ceiling directly applied or 5-5-6 oc bracing.

except end verticals. Except:

10-0-0 oc bracing: 3-9

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 Lot 140 Duncans Creek 164045929 J0724-4216 M03 **ROOF SPECIAL** Job Reference (optional) Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:36 2024 Page 1 Comtech, Inc. ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 0-11-0 4-8-0 1-0-0 Scale = 1:12.6 3x4 || 4.00 12 3x4 =2 0-4-1 3x4 = 10 8 3x4 || 2x4 || ⁷ 4-8-0 1-0-0 LOADING (psf) SPACING-DEFL. **PLATES** GRIP 2-0-0 CSI (loc) I/def L/d 20.0 -0.01 244/190 **TCLL** Plate Grip DOL 1.15 TC 0.18 Vert(LL) 2-10 >999 360 MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) -0.02 2-10 >999 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.04 Horz(CT) -0.00 8 n/a n/a **BCDL** 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.02 2-10 >999 240 Weight: 43 lb FT = 20% LUMBER-BRACING-TOP CHORD 2x4 SP No 1 TOP CHORD Structural wood sheathing directly applied or 4-8-0 oc purlins,

BOT CHORD

except end verticals. Except:

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

6-0-0 oc bracing: 3-9

2x4 SP No.1

BOT CHORD WEBS 2x4 SP No.2

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

Max Horz 2=64(LC 8)

Max Uplift 2=-128(LC 8), 8=-177(LC 8) Max Grav 2=298(LC 1), 8=369(LC 3)

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

TOP CHORD 2-3=-277/345 **BOT CHORD** 2-10=-383/225 WEBS 6-8=-247/408

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.

Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.

- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 4-8-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=128. 8=177.
- 9) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-20, 2-7=-20, 6-9=-170, 5-6=-20



Continued on page 2

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

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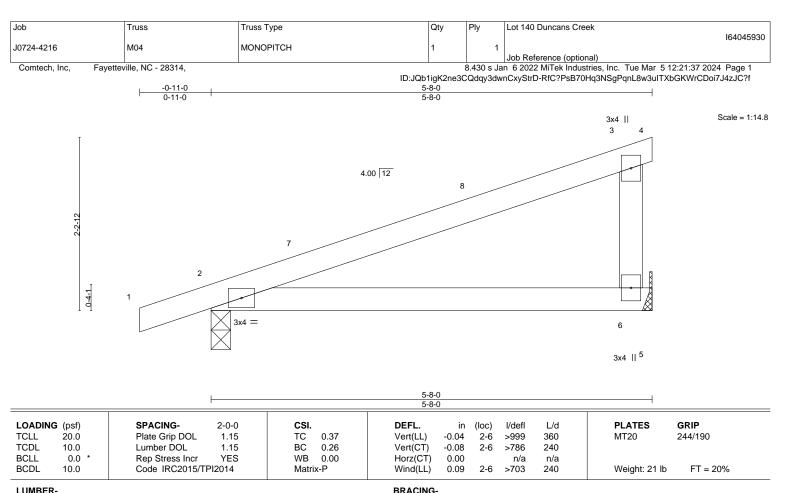
Job Truss Truss Type Qty Ply Lot 140 Duncans Creek 164045929 ROOF SPECIAL J0724-4216 M03

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

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:36 2024 Page 2
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LOAD CASE(S) Standard Concentrated Loads (lb) Vert: 9=-40





TOP CHORD

BOT CHORD

LUMBER-

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

BOT CHORD WEBS 2x4 SP No.2

REACTIONS. (size)

Max Horz 2=75(LC 8) Max Uplift 6=-89(LC 8), 2=-112(LC 8) Max Grav 6=216(LC 1), 2=279(LC 1)

6=Mechanical, 2=0-3-0

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 5-8-0 zone; porch left 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) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=112.



Structural wood sheathing directly applied or 5-8-0 oc purlins,

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

except end verticals.



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Comtech, Inc, Fayetteville, NC - 28314,

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Structural wood sheathing directly applied or 5-8-0 oc purlins,

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

except end verticals.

5-8-0 0-11-0 5-8-0

Scale = 1:14.4

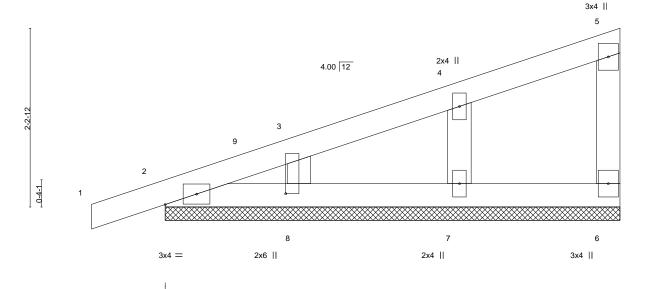


Plate Offsets (X,Y)	[8:0-1-10,1-6-0]			
LOADING (psf) TCLL 20.0	SPACING- 2-0-0 Plate Grip DOL 1.15	CSI. TC 0.06	DEFL. in (loc) I/defl L/d Vert(LL) 0.00 1 n/r 120	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 * BCDL 10.0	Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	BC 0.02 WB 0.04 Matrix-P	Vert(CT) -0.00 1 n/r 120 Horz(CT) 0.00 n/a n/a	Weight: 23 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2 **OTHERS** 2x4 SP No.2

REACTIONS. All bearings 5-8-0.

Max Horz 2=105(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7, 8 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

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 Corner(3) -0-11-0 to 3-8-0, Exterior(2) 3-8-0 to 5-6-4 zone; 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 requires continuous bottom chord bearing.
- 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) 6, 2, 7, 8.





Job	Truss	Truss Type	Qty	Ply	Lot 140 Duncans Creek	
					16404	45932
J0724-4216	M06GE	GABLE	1	1		
					Job Reference (optional)	
Comtech, Inc, Fayettev	rille, NC - 28314,			8.430 s Ja	n 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:39 2024 Page	1
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10-0-0

10-0-0

Scale = 1:19.9

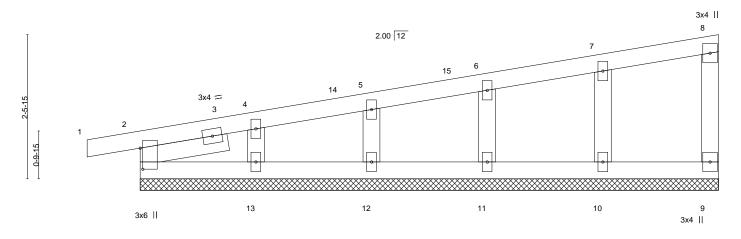


Plate Offsets (X,Y)	[2:0-4-6,0-0-9]			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.06	Vert(LL) 0.00 1 n/r 120	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 1 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) -0.00 9 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 43 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-**BRACING-**

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

OTHERS 2x4 SP No.2

0-11-0

SLIDER Left 2x4 SP No.2 1-6-11

REACTIONS. All bearings 10-0-0.

Max Horz 2=87(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 10, 11, 12, 13 Max Grav All reactions 250 lb or less at joint(s) 9, 2, 10, 11, 12, 13

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 Corner(3) -0-11-0 to 3-5-13, Exterior(2) 3-5-13 to 9-10-4 zone; 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) 9, 2, 10, 11, 12, 13.



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

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

except end verticals.

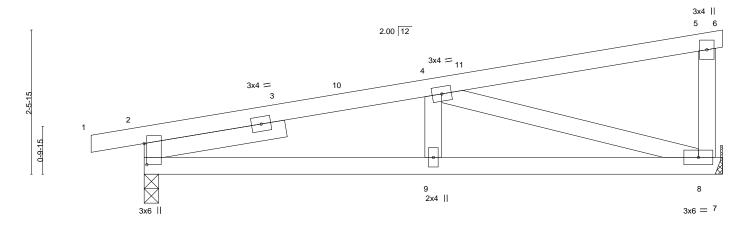
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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)



Job		Truss	Truss Type	Qty	Ply	Lot 140 Duncans Creek
						164045933
J0724-4216		M07	Monopitch	7	1	
						Job Reference (optional)
Comtech, Inc,	Fayettev	/ille, NC - 28314,			8.430 s Ja	n 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:40 2024 Page 1
			ID:JQt	1igK2ne30	Qdqy3dw	nCxyStrD-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f
Ĺ	-0-11-0	i i	5-0-0			10-0-0
Г	0-11-0		5-0-0			5-0-0

Scale = 1:19.9



5-0-0 5-0-0						10-0-0 5-0-0						
Plate Offse	ets (X,Y)	[2:0-4-6,0-0-9]										
LOADING TCLL TCDL BCLL	(psf) 20.0 10.0 0.0 *	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	CSI. TC BC WB	0.21 0.19 0.30	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.05 -0.04 0.01	(loc) 2-9 2-9 8	l/defl >999 >999 n/a	L/d 240 240 n/a	PLATES MT20	GRIP 244/190
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S						Weight: 46 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

Rigid ceiling directly applied or 6-9-9 oc bracing.

except end verticals.

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

LUMBER-

TOP CHORD 2x4 SP No.1

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

SLIDER Left 2x4 SP No.2 2-6-0

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

Max Horz 2=62(LC 12)

Max Uplift 8=-157(LC 8), 2=-177(LC 8) Max Grav 8=398(LC 1), 2=447(LC 1)

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

TOP CHORD 2-4=-800/779

BOT CHORD 2-9=-819/738, 8-9=-819/738 WEBS 4-8=-709/778, 4-9=-255/203

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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 10-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 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.
- Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=157, 2=177.



March 6,2024

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 Lot 140 Duncans Creek 164045934 Valley J0724-4216 VB1 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:41 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 5-2-8 5-2-8 5-2-8 Scale = 1:22.6 4x4 = 8 8.00 12 3x4 N 3x4 / 2x4 || 10-5-1 10-4-8 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.23 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.16 Vert(CT) n/a 999 n/a **BCLL** 0.0 Rep Stress Incr YES WB 0.05 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-S Weight: 36 lb FT = 20% LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

REACTIONS.

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

OTHERS 2x4 SP No.2

> 1=10-3-15, 3=10-3-15, 4=10-3-15 (size) Max Horz 1=-76(LC 8)

Max Uplift 1=-23(LC 12), 3=-31(LC 13)

Max Grav 1=187(LC 1), 3=187(LC 1), 4=380(LC 1)

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

NOTES-

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



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

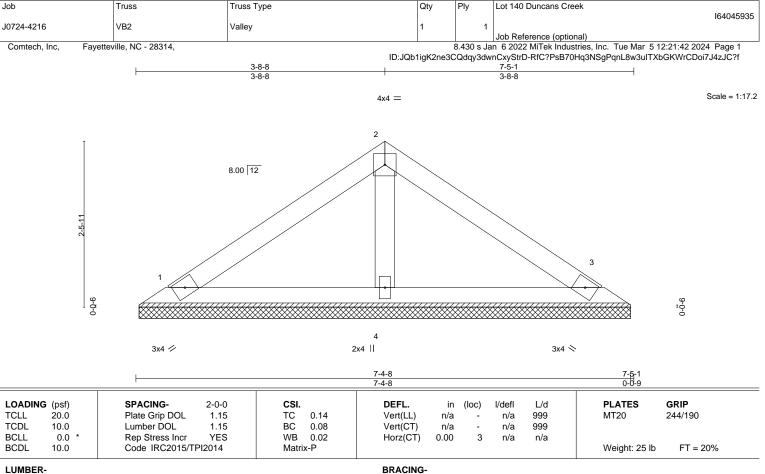
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

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TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

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

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

REACTIONS.

1=7-3-15, 3=7-3-15, 4=7-3-15 (size) Max Horz 1=-52(LC 8) Max Uplift 1=-22(LC 12), 3=-27(LC 13)

Max Grav 1=140(LC 1), 3=140(LC 1), 4=235(LC 1)

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

NOTES-

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



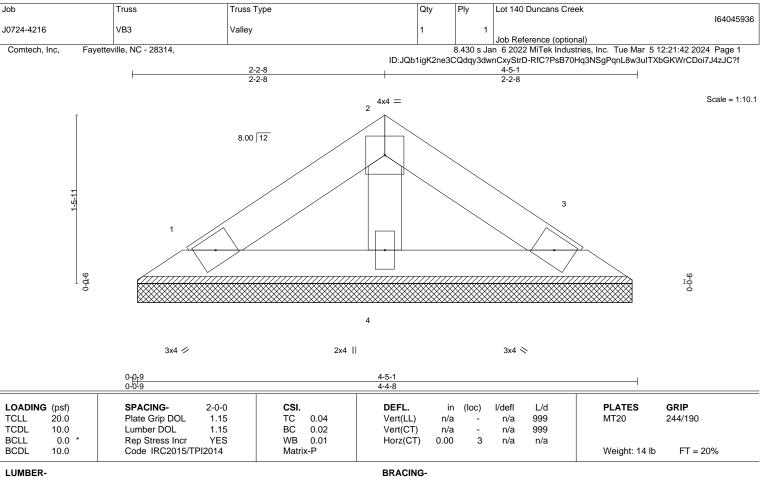
Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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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TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

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

Max Horz 1=28(LC 11)

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

Max Grav 1=75(LC 1), 3=75(LC 1), 4=125(LC 1)

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

NOTES-

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



Structural wood sheathing directly applied or 4-5-1 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 Lot 140 Duncans Creek 164045937 J0724-4216 VC1 VALLEY Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:43 2024 Page 1

Comtech, Inc, Fayetteville, NC - 28314,

ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

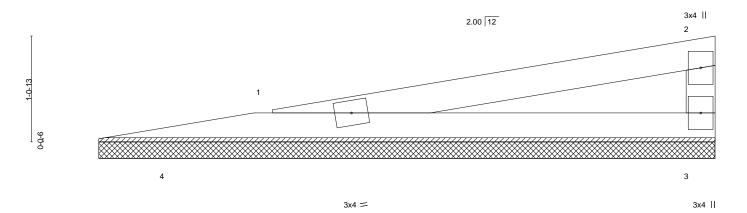
Structural wood sheathing directly applied or 6-4-12 oc purlins,

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

except end verticals.

6-4-12

Scale = 1:11.6



	0-2-4					6-2-8						
LOADING	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	0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.11	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	1	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-P						Weight: 17 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.2

> 1=6-2-8, 3=6-2-8, 4=6-2-8 (size)

Max Horz 4=24(LC 8) Max Uplift 3=-26(LC 8), 4=-59(LC 3)

Max Grav 1=245(LC 3), 3=164(LC 1)

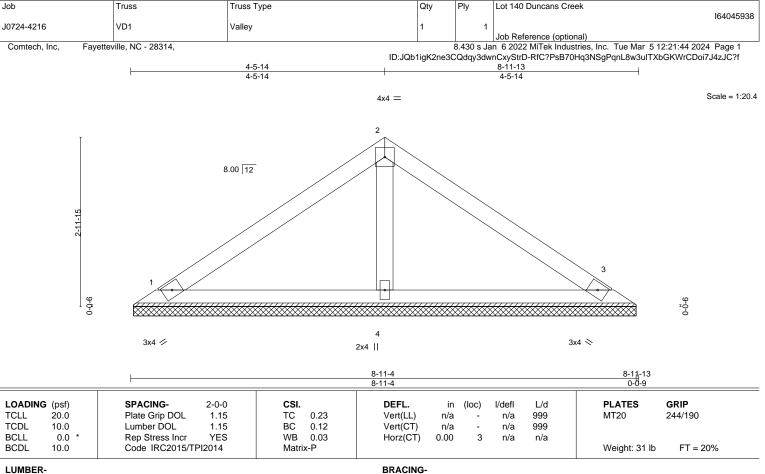
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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) 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) 3, 4.
- 5) Non Standard bearing condition. Review required.







TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS.

1=8-10-11, 3=8-10-11, 4=8-10-11 (size) Max Horz 1=-64(LC 8) Max Uplift 1=-27(LC 12), 3=-34(LC 13)

Max Grav 1=174(LC 1), 3=174(LC 1), 4=292(LC 1)

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

NOTES-

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



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

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

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 Lot 140 Duncans Creek 164045939 Valley J0724-4216 VD2 Job Reference (optional)
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Mar 5 12:21:45 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:JQb1igK2ne3CQdqy3dwnCxyStrD-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 2-11-14 2-11-14 Scale = 1:14.6 4x4 = 8.00 12 3 9-0-0 9-0-0 2x4 || 3x4 / 3x4 × 5-11-13 5-11-4 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d **PLATES** GRIP (loc) 20.0 Plate Grip DOL 1.15 TC Vert(LL) 999 244/190 **TCLL** 0.08 n/a n/a MT20 TCDL 10.0 Lumber DOL 1.15 ВС 0.05 Vert(CT) n/a n/a 999 **BCLL** 0.0 Rep Stress Incr YES WB 0.01 Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 20 lb FT = 20% **BRACING-**

TOP CHORD

BOT CHORD

LUMBER-

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

OTHERS 2x4 SP No.2

REACTIONS.

1=5-10-11, 3=5-10-11, 4=5-10-11 (size) Max Horz 1=40(LC 9) Max Uplift 1=-17(LC 12), 3=-21(LC 13)

Max Grav 1=109(LC 1), 3=109(LC 1), 4=182(LC 1)

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

NOTES-

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



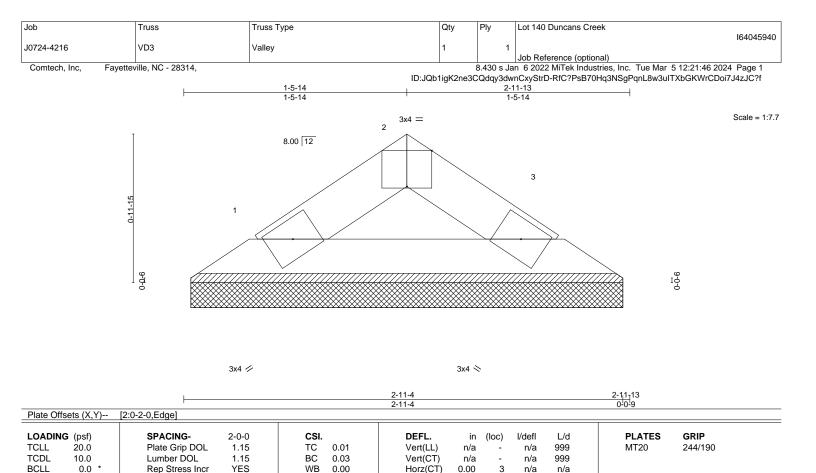
Structural wood sheathing directly applied or 5-11-13 oc purlins.

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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LUMBER-

BCDL

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

10.0

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 2-11-13 oc purlins.

Weight: 8 lb

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

REACTIONS. 1=2-10-11, 3=2-10-11 (size)

Max Horz 1=-16(LC 10)

Max Uplift 1=-4(LC 12), 3=-4(LC 13) Max Grav 1=80(LC 1), 3=80(LC 1)

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

Code IRC2015/TPI2014

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

Matrix-P

- 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.



FT = 20%

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)

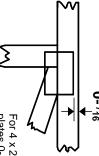


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE

4 × 4

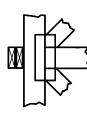
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



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

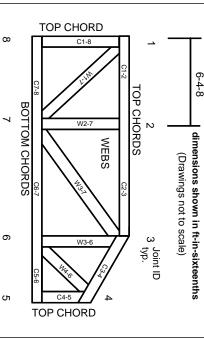
Industry Standards:

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

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

ANSI/TPI1: DSB-22:

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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

▲ General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor I bracing should be considered.
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- 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.
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.

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