

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J1024-5561

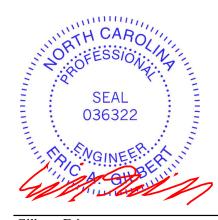
Lot 10 Turlington Acres

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: I68876631 thru I68876654

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

North Carolina COA: C-0844



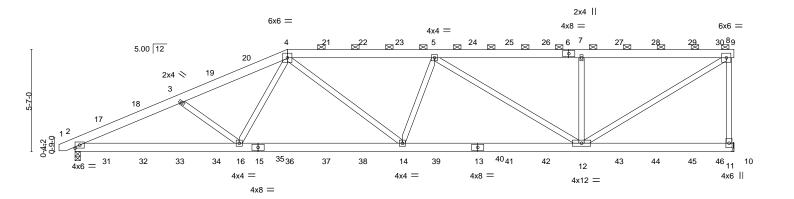
October 16,2024

Gilbert, Eric

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 Lot 10 Turlington Acres 168876631 J1024-5561 Α1 Half Hip Girder Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:19 2024 Page 1 ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-10-8 0-10-8 36-0-0 5-9-4 8-0-7 8-0-7 8-3-15

Scale = 1:62.9



8-11-10		17-10-10	27-8-1	36-0-0
8-11-10		8-10-15	9-9-7	8-3-15
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. TC 0.32 BC 0.44 WB 0.54 Matrix-S	DEFL. in (loc) l/defl L/d Vert(LL) -0.11 14 >999 360 Vert(CT) -0.23 12-14 >999 240 Horz(CT) 0.06 11 n/a n/a Wind(LL) 0.12 14 >999 240	PLATES GRIP MT20 244/190 Weight: 494 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

REACTIONS. 11=Mechanical, 2=0-3-8 (size) Max Horz 2=167(LC 8)

Max Uplift 11=-903(LC 5), 2=-561(LC 4) Max Grav 11=2890(LC 1), 2=2785(LC 1)

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

2-3=-5541/1271, 3-4=-5099/1187, 4-5=-4887/1367, 5-7=-3591/1082, 7-8=-3591/1082, TOP CHORD

8-11=-2725/984

BOT CHORD 2-16=-1230/4922, 14-16=-1185/4277, 12-14=-1492/4928

WFBS 3-16=-397/188, 4-16=0/838, 4-14=-236/860, 5-14=-177/388, 5-12=-1586/487,

7-12=-1028/663, 8-12=-1262/4199

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, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

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

- 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) 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
- 4) Provide adequate drainage to prevent water ponding.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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 903 lb uplift at joint 11 and 561 lb uplift at joint 2.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-9.

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

MARNING - 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 Ply Lot 10 Turlington Acres 168876631 J1024-5561 Α1 Half Hip Girder Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:19 2024 Page 2 ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 101 lb down and 67 lb up at 1-7-15, 94 lb down and 63 lb up at 3-7-15, 109 lb down and 68 lb up at 5-7-15, 101 lb down and 67 lb up at 7-7-15, 102 lb down and 87 lb up at 9-7-15, 150 lb down and 143 lb up at 11-7-3, 154 lb down and 143 lb up at 13-7-15, 154 lb down and 143 lb up at 15-7-15, 154 lb down and 143 lb up at 19-7-15, 154 lb up at 21-7-15, 154 lb down and 143 lb up at 23-7-15, 154 lb down and 143 lb up at 23-7-15, 154 lb down and 143 lb up at 31-7-15, 154 lb down and 143 lb up at 31-7-15, and 154 lb down and 154 lb up at 31-7-15, and 154 lb down and 154 lb up at 31-7-15, and 154 lb down and 154 lb up at 31-7-15, and 154 lb down and 154 lb up at 31-7-15, and 154 lb down and 154 lb up at 31-7-15, and 154 lb up 1-7-15, 67 lb down at 3-7-15, 57 lb down at 5-7-15, 70 lb down at 7-7-15, 69 lb down at 9-7-15, 79 lb down at 11-7-15, 79 lb down at 13-7-15, 79 lb down at 13-7 79 lb down at 17-7-15, 79 lb down at 19-7-15, 79 lb down at 29-7-15, lb down at 31-7-15, and 79 lb down at 33-7-15, and 82 lb down at 35-1-15 on bottom chord. The design/selection of such connection device(s) is the responsibility of

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-8=-60, 8-9=-20, 2-10=-20

Concentrated Loads (lb)

Vert: 4=-115(F) 3=-109(F) 14=-39(F) 5=-115(F) 7=-115(F) 12=-39(F) 17=-101(F) 18=-94(F) 19=-101(F) 20=-102(F) 21=-115(F) 22=-115(F) 23=-115(F) 24=-115(F) 25=-115(F) 26=-115(F) 27=-115(F) 28=-115(F) 29=-115(F) 30=-126(F) 31=-47(F) 32=-48(F) 33=-35(F) 34=-54(F) 35=-53(F) 36=-39(F) 37=-39(F) 38=-39(F) 39=-39(F) 40=-39(F) 41=-39(F) 42=-39(F) 43=-39(F) 44=-39(F) 45=-39(F) 46=-41(F)

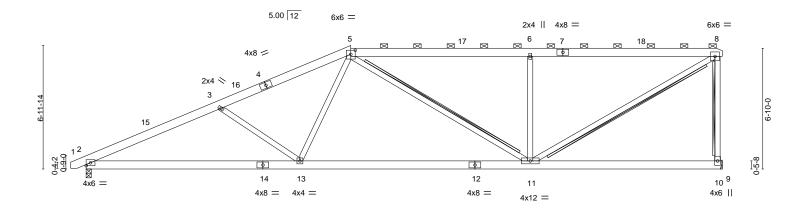


Job Truss Truss Type Qty Lot 10 Turlington Acres 168876632 J1024-5561 A2 HIP Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:20 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 25-1-9

10-1-14

7-4-2

Scale = 1:65.2



	12-1-3 12-1-3	-	25-1-9 13-0-7	36-0-0 10-10-7	4
Plate Offsets (X,Y) [5	5:0-3-0,0-2-12]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.54 BC 0.57 WB 0.51 Matrix-S	DEFL. in (loc) l/defl Vert(LL) -0.13 11-13 >999 Vert(CT) -0.30 11-13 >999 Horz(CT) 0.05 10 n/a Wind(LL) 0.08 11-13 >999	L/d PLATES GRIP 360 MT20 244/190 240 n/a 240 Weight: 244 lb FT = 20	0%

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

Structural wood sheathing directly applied or 4-4-5 oc purlins, except end verticals, and 2-0-0 oc purlins (4-11-9 max.): 5-8. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-8-0 oc bracing: 2-13.

10-1-14

2x4 SPF No.2 - 5-11, 8-11, 8-10 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. 10=Mechanical, 2=0-3-8 (size)

-0-10-8 0-10-8

7-7-10

Max Horz 2=209(LC 12)

Max Uplift 10=-137(LC 9), 2=-73(LC 12) Max Grav 10=1428(LC 1), 2=1474(LC 1)

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

TOP CHORD $2\text{-}3\text{--}2789/670,\ 3\text{-}5\text{--}2426/552,\ 5\text{-}6\text{--}1809/455,\ 6\text{-}8\text{--}1806/453,\ 8\text{-}10\text{--}1333/416}$

BOT CHORD 2-13=-807/2479, 11-13=-562/1936

WFBS 3-13=-390/294, 5-13=-14/654, 6-11=-747/369, 8-11=-521/2079

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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 14-11-11, Exterior(2) 14-11-11 to 21-2-6, Interior(1) 21-2-6 to 35-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 10 and 73 lb uplift at ioint 2.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



October 16,2024

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



Job Truss Truss Type Qty Lot 10 Turlington Acres 168876633 J1024-5561 **A3** COMMON Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:20 2024 Page 1 ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f 26-10-4 0-10-8 36-0-0

8-10-4

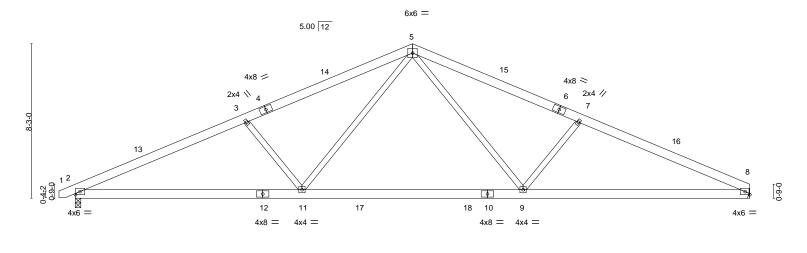
8-10-4

Scale = 1:61.5

9-1-12

Structural wood sheathing directly applied or 4-1-14 oc purlins.

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



	12-1-3 12-1-3		11-9-11	-	12-1-3
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.40 BC 0.62 WB 0.23 Matrix-S	DEFL. in (loc) Vert(LL) -0.33 9-11 Vert(CT) -0.46 9-11 Horz(CT) 0.07 8 Wind(LL) 0.07 2-11	l/defl L/d >999 360 >934 240 n/a n/a >999 240	PLATES GRIP MT20 244/190 Weight: 220 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2

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

Max Horz 2=94(LC 12)

Max Uplift 8=-90(LC 13), 2=-101(LC 12) Max Grav 8=1431(LC 1), 2=1483(LC 1)

9-1-12

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

TOP CHORD 2-3=-2774/604, 3-5=-2509/576, 5-7=-2519/591, 7-8=-2791/624

BOT CHORD 2-11=-456/2468, 9-11=-203/1680, 8-9=-459/2487

WEBS 5-9=-118/942, 7-9=-540/308, 5-11=-115/927, 3-11=-526/301

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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 18-0-0, Exterior(2) 18-0-0 to 22-4-13, Interior(1) 22-4-13 to 35-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 8 and 101 lb uplift at joint 2.



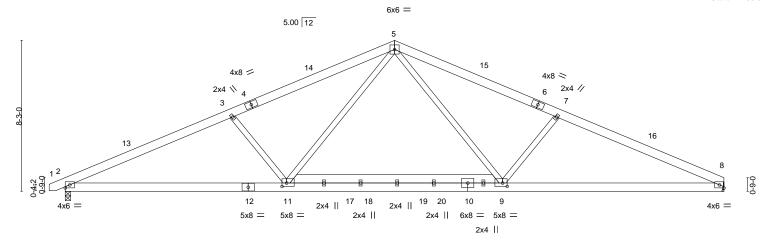
October 16,2024





ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f -0-10-8 0-10-8 26-10-4 36-0-0 9-1-12 8-10-4 8-10-4 9-1-12

Scale = 1:63.0



	12-1-3		23-10-13	1	36-0-0
	12-1-3	ı ı	11-9-11	1	12-1-3
Plate Offsets (X,Y)	[9:0-3-0,0-2-4], [11:0-3-0,0-2-4]				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.41 BC 0.76 WB 0.25 Matrix-S	Vert(CT) -0.55 9-11 Horz(CT) 0.08 8	l/defl L/d >999 360 >785 240 n/a n/a >999 240	PLATES GRIP MT20 244/190 Weight: 247 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 *Except* 9-11: 2x6 SP No.1

(size) 8=Mechanical, 2=0-3-8 Max Horz 2=94(LC 12) Max Uplift 2=-1(LC 12)

Max Grav 8=1531(LC 1), 2=1583(LC 1)

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

TOP CHORD 2-3=-3046/332, 3-5=-2731/300, 5-7=-2743/315, 7-8=-3064/351

BOT CHORD 2-11=-210/2710. 9-11=-26/1838. 8-9=-213/2731 **WEBS** 5-9=0/1002, 7-9=-526/322, 5-11=0/987, 3-11=-510/317

- 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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 18-0-0, Exterior(2) 18-0-0 to 22-4-13, Interior(1) 22-4-13 to 35-11-4 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, 18-0-0 from left end, supported at two points, 3-0-0 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 2.



Structural wood sheathing directly applied or 3-11-8 oc purlins.

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





8-10-4

26-10-4

8-10-4

Scale = 1:64.8

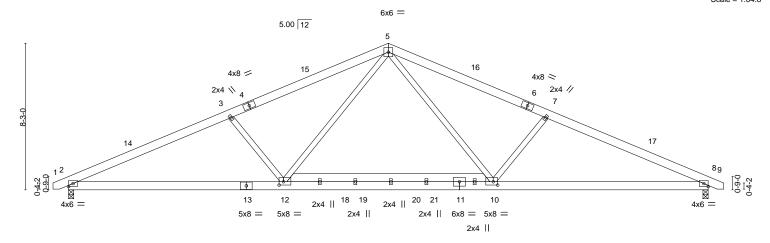
36-10₋8 0-10-8

36-0-0

9-1-12

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

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



	12-1-3			23-10-13		36-0-0
- DI + O"	. 0/10	12-1-3	·	11-9-11	<u>'</u>	12-1-3
Plate Offs	sets (X,Y)	[10:0-3-0,0-2-4], [12:0-3-0,0-2-4]				
LOADING	(psf)	SPACING- 2-3-0	CSI.	DEFL. in (loc)	I/defI L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.25 10-12	>999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.89	Vert(CT) -0.59 10-12	>729 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.27	Horz(CT) 0.09 8	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08 2-12	>999 240	Weight: 249 lb FT = 20%

BRACING-TOP CHORD

BOT CHORD

LUMBER-

-0-10-8 0-10-8

9-1-12

TOP CHORD 2x6 SP No.1 BOT CHORD 2x6 SP No.1 WEBS 2x4 SP No.2 *Except* 10-12: 2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 8=0-3-8 Max Horz 2=-105(LC 17)

Max Uplift 2=-14(LC 12), 8=-14(LC 13)

Max Grav 2=1763(LC 1), 8=1763(LC 1)

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

2-3=-3382/405, 3-5=-3026/370, 5-7=-3026/370, 7-8=-3382/405 TOP CHORD **BOT CHORD** 2-12=-265/3008, 10-12=-50/2036, 8-10=-262/3008

WEBS 5-10=0/1094, 7-10=-576/354, 5-12=0/1094, 3-12=-576/354

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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 18-0-0, Exterior(2) 18-0-0 to 22-4-13, Interior(1) 22-4-13 to 36-8-5 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, 18-0-0 from left end, supported at two points, 3-0-0 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 2 and 14 lb uplift at joint 8.



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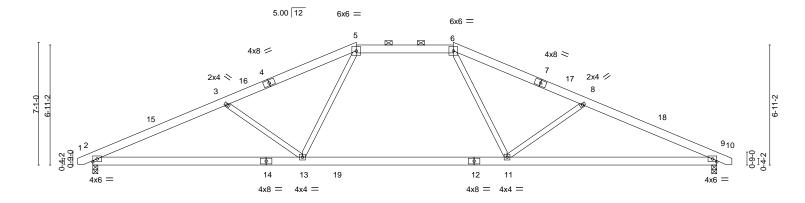


Job	Truss	Truss Type	Qty	Ply	Lot 10 Turlington Acres				
					16887663	36			
J1024-5561	A5	HIP	1	1					
					Job Reference (optional)				
Comtech, Inc, Fayette	/ille, NC - 28314,	8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:22 2024 Page 1							
		ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f							

28-3-1 7-5-7

Scale = 1:66.5

36-10₋8 0-10-8



	12-1-3	23-10-13	36-0-0
	12-1-3	11-9-11	12-1-3
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. DEFL. in (label of the control of	-11 >999 240 9 n/a n/a

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 4-4-9 oc purlins, except BOT CHORD 2x6 SP No.1 2-0-0 oc purlins (5-6-15 max.): 5-6. WEBS

7-5-7

2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 9-9-9 oc bracing.

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

Max Horz 2=-79(LC 17) Max Uplift 9=-86(LC 13), 2=-86(LC 12) Max Grav 9=1479(LC 1), 2=1479(LC 1)

7-8-15

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

 $2\hbox{-}3\hbox{-}-2796/743,\ 3\hbox{-}5\hbox{-}-2453/625,\ 5\hbox{-}6\hbox{-}-1921/615,\ 6\hbox{-}8\hbox{-}-2453/625,\ 8\hbox{-}9\hbox{-}-2796/743}$ TOP CHORD

BOT CHORD 2-13=-615/2487, 11-13=-349/1921, 9-11=-603/2487 WEBS 3-13=-508/317, 5-13=-28/649, 6-11=-28/650, 8-11=-508/317

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) -0-8-5 to 3-8-8, Interior(1) 3-8-8 to 15-2-6, Exterior(2) 15-2-6 to 27-0-4, Interior(1) 27-0-4 to 36-8-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 86 lb uplift at joint 9 and 86 lb uplift at
- 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 16,2024

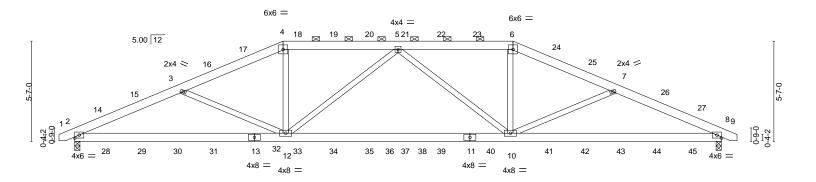
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.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 10 Turlington Acres 168876637 J1024-5561 A6 Hip Girder Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:23 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314, ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 24-4-13 36-10₇8 0-10-8 -0-10-8 0-10-8 36-0-0 6-0-9 5-6-10 6-4-13 6-4-13 5-6-10 6-0-9

Scale: 3/16"=1



	11-7-3 11-7-3	24-4-13 12-9-10				
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr NO Code IRC2015/TPI2014	CSI. DEFL. TC 0.22 Vert(LL) BC 0.57 Vert(CT) WB 0.18 Horz(CT) Matrix-S Wind(LL)	in (loc) -0.12 10-12 -0.29 10-12 0.08 8 0.11 10-12	l/defl L/d >999 360 >999 240 n/a n/a >999 240	PLATES MT20 Weight: 466 lb	GRIP 244/190 FT = 20%

LUMBER-BRACING-

TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except BOT CHORD 2x6 SP No.1

2-0-0 oc purlins (6-0-0 max.): 4-6. **BOT CHORD**

WEBS 2x4 SP No.2 Rigid ceiling directly applied or 10-0-0 oc bracing.

Max Grav 8=2823(LC 1), 2=2858(LC 1)

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

 $2 - 3 = -5631/1288, \ 3 - 4 = -5023/1157, \ 4 - 5 = -4567/1088, \ 5 - 6 = -4489/1045, \ 6 - 7 = -4939/1110,$ TOP CHORD

7-8=-5552/1244

(size)

Max Horz 2=62(LC 31)

BOT CHORD 2-12=-1147/5011, 10-12=-1270/5020, 8-10=-1079/4940

8=0-3-8, 2=0-3-8

Max Uplift 8=-531(LC 5), 2=-551(LC 4)

WFBS 3-12=-530/222, 4-12=-4/1204, 5-12=-647/397, 5-10=-749/453, 6-10=-57/1204,

7-10=-539/229

NOTES-

REACTIONS.

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) Provide adequate drainage to prevent water ponding.
- 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 20.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 531 lb uplift at joint 8 and 551 lb uplift at ioint 2.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



October 16,2024

Continued on page 2



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Job	Truss	Truss Type	Qty	Ply	Lot 10 Turlington Acres	
J1024-5561	A6	Hip Girder	1	2	Job Reference (optional)	168876637

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:23 2024 Page 2 ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-

10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 141 lb down and 67 lb up at 1-7-15, 134 lb down and 63 lb up at 3-7-15, 149 lb down and 68 lb up at 5-7-15, 141 lb down and 67 lb up at 7-7-15, 142 lb down and 87 lb up at 9-7-15, 150 lb down and 143 lb up at 11-7-3, 153 lb down and 143 lb up at 12-4-1, 154 lb down and 143 lb up at 14-4-1, 154 lb down and 143 lb up at 16-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 143 lb up at 18-4-1, 154 lb down and 18-4-1, 20-4-1, 154 lb down and 143 lb up at 22-4-1, 150 lb down and 143 lb up at 24-4-13, 142 lb down and 87 lb up at 26-4-1, 141 lb down and 67 lb up at 28-4-1, 149 lb down and 68 lb up at 30-4-1, and 134 lb down and 63 lb up at 32-4-1, and 141 lb down and 67 lb up at 34-4-1 on top chord, and 80 lb down at 1-7-15, 67 lb down at 3-7-15, 57 lb down at 5-7-15, 70 lb down at 7-7-15, 69 lb down at 9-7-15, 79 lb down at 11-7-15, 79 lb down at 12-4-1, 79 lb down at 14-4-1, 79 lb down at 16-4-1, 79 lb down at 18-4-1, 79 lb down at 20-4-1, 79 lb down at 22-4-1, 79 lb down at 22-4-1, 79 lb down at 24-4-1, 69 lb down at 26-4-1, 70 lb down at 28-4-1, 57 lb down at 30-4-1, and 67 lb down at 32-4-1, and 80 lb down at 34-4-1 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)

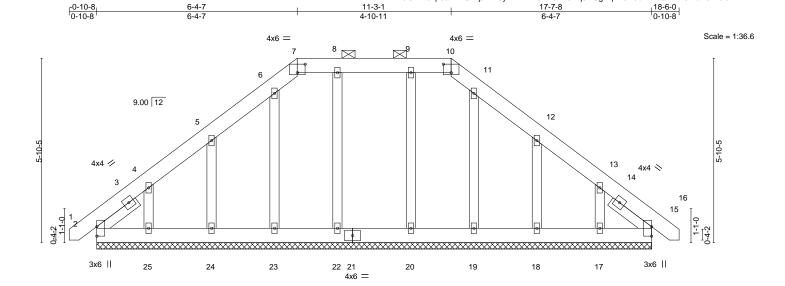
Vert: 1-4=-60, 4-6=-60, 6-9=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 4=-115(B) 6=-115(B) 12=-39(B) 3=-109(B) 10=-39(B) 7=-109(B) 14=-101(B) 15=-94(B) 16=-101(B) 17=-102(B) 18=-115(B) 19=-115(B) 20=-115(B) 21=-115(B) 22=-115(B) 23=-115(B) 24=-102(B) 25=-101(B) 26=-94(B) 27=-101(B) 28=-47(B) 29=-48(B) 30=-35(B) 31=-54(B) 32=-53(B) 33=-39(B) 34=-39(B) 35=-39(B) 37=-39(B) 39=-39(B) 40=-39(B) 41=-53(B) 42=-54(B) 43=-35(B) 44=-48(B) 45=-47(B)







						17-7-0						
	17-7-8											
Plate Offs	sets (X.Y)	[7:0-3-0,0-3-4], [10:0-3-0	.0-3-41									
	() /	1										
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	-0.00	15	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.02	Vert(CT)	-0.00	15	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	15	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S	, ,					Weight: 141 lb	FT = 20%

LUMBER-BRACING-

2x6 SP No.1 TOP CHORD TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except

BOT CHORD 2x6 SP No.1 2-0-0 oc purlins (6-0-0 max.): 7-10.

OTHERS 2x4 SP No.2 **BOT CHORD** Rigid ceiling directly applied or 10-0-0 oc bracing. SLIDER Left 2x4 SP No.2 1-6-11, Right 2x4 SP No.2 1-6-11

REACTIONS. All bearings 17-7-8.

Max Horz 2=-162(LC 8) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 23, 20, 19, 15 except 24=-106(LC 12), 25=-150(LC 12),

18=-109(LC 13), 17=-139(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 2, 22, 23, 24, 25, 20, 19, 18, 15, 17

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) -0-8-11 to 3-7-12, Exterior(2) 3-7-12 to 6-4-7, Corner(3) 6-4-7 to 10-9-3, Exterior(2) 10-9-3 to 11-3-1, Corner(3) 11-3-1 to 15-7-14, Exterior(2) 15-7-14 to 18-4-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are 2x4 MT20 unless otherwise indicated.
- 6) Gable requires continuous bottom chord bearing.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 23, 20, 19, 15 except (jt=lb) 24=106, 25=150, 18=109, 17=139.
- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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 10 Turlington Acres 168876639 J1024-5561 B2 Hip Girder Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:25 2024 Page 1 ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f 0-10-8 0-10-8 10-3-7 13-9-11 3-6-5 3-9-13 2-11-5 3-6-5 3-9-13 Scale = 1:38.0 6x6 = 6x6 = 3 \bowtie 9.00 12 9 7 10 11 12 6 8 8x8 = 6x8 Π 8x8 =3x10 || 3x10 || 10-3-7 Plate Offsets (X,Y)--[6:0-6-4,0-1-8], [8:0-6-4,0-1-8] LOADING (psf) SPACING-CSI. DEFL. in (loc) I/def L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.76 Vert(LL) -0.12 5-6 >999 360 244/190 MT20 TCDL 10.0 Lumber DOL 1.15 BC 0.90 Vert(CT) -0.25 5-6 >827 240 **BCLL** 0.0 Rep Stress Incr NO WB 0.51 Horz(CT) 0.03 5 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Wind(LL) 2-8 >999 240 Weight: 253 lb FT = 20%Matrix-S 0.13 LUMBER-BRACING-TOP CHORD 2x6 SP No.1 TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins,

BOT CHORD

2-0-0 oc purlins (6-0-0 max.): 3-4.

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

BOT CHORD 2x8 SP No.1 *Except*

5-7: 2x8 SP 2400F 2.0E

2x4 SP No.2 WEBS

WEDGE

Left: 2x6 SP No.1, Right: 2x4 SP No.2

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

Max Horz 2=145(LC 5) Max Uplift 2=-445(LC 8)

Max Grav 2=4910(LC 1), 5=6750(LC 1)

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

TOP CHORD 2-3=-6963/239, 3-4=-5370/227, 4-5=-6946/245 **BOT CHORD** 2-8=-126/5273, 6-8=-129/5370, 5-6=-129/5270

3-8=-283/4077, 4-6=0/4195 **WEBS**

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: 2x8 - 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.
- 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) Provide adequate drainage to prevent water ponding.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb)
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2870 lb down and 923 lb up at 6-1-8, 1408 lb down and 157 lb up at 7-11-4, 1411 lb down and 110 lb up at 9-11-4, 1511 lb down at 11-11-4, and 1511 lb down at 13-11-4, and 1511 lb down at 15-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility



Continued on page 2



Edenton, NC 27932

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

Truss Type Job Truss Qty Ply Lot 10 Turlington Acres 168876639 B2 J1024-5561 Hip Girder

Comtech, Inc, Fayetteville, NC - 28314,

| **Z** | Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:25 2024 Page 2 ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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=-60, 4-5=-60, 2-5=-20

Concentrated Loads (lb)

Vert: 7=-1408(B) 6=-1411(B) 9=-2870(B) 10=-1511(B) 11=-1511(B) 12=-1511(B)



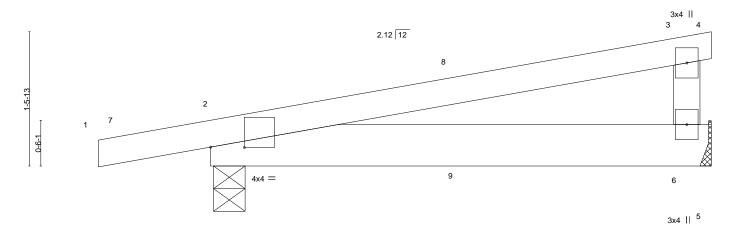
818 Soundside Road Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 10 Turlington Acres			
						I68876640		
J1024-5561	CJ-6	DIAGONAL HIP GIRDER	2	1				
					Job Reference (optional)			
Comtech, Inc,	Fayetteville, NC - 28314,	8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:25 2024 Page 1						
		ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f						

5-6-6

5-6-6

Scale = 1:12.7



		'						5-6-0					<u>'</u>
Plate Offs	Plate Offsets (X,Y) [2:0-4-7,0-0-1]												
	, ,	1											
LOADING	(psf)	SPACING-	2-0-0	CSI.		DE	FL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.38	Ver	t(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.19	Ver	t(CT)	-0.02	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Hor	z(CT)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-P	Win	d(LL)	0.01	2-6	>999	240	Weight: 24 lb	FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x4 SP No.1 TOP CHORD Structural wood sheathing directly applied or 5-6-6 oc purlins, BOT CHORD 2x6 SP No.1 except end verticals.

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

REACTIONS. (size) 6=Mechanical, 2=0-4-3

Max Horz 2=39(LC 4) Max Uplift 6=-80(LC 4), 2=-112(LC 4)

1-2-14

Max Grav 6=206(LC 1), 2=283(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); porch left exposed; 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 21 lb down and 28 lb up at 2-9-8, and 17 lb down and 19 lb up at 2-9-8 on top chord, and 5 lb down and 25 lb up at 2-9-8, and 2 lb down and 21 lb up at 2-9-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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



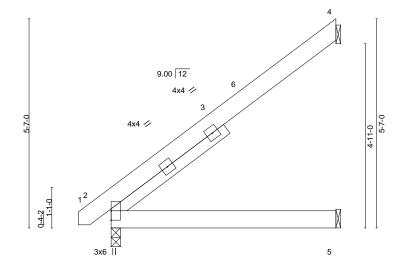


Job Truss Truss Type Qty Lot 10 Turlington Acres 168876641 J1024-5561 J01 Jack-Open 21 Job Reference (optional) 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:25 2024 Page 1 Comtech, Inc, Fayetteville, NC - 28314,

ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

Scale = 1:30.7



BRACING-

TOP CHORD

BOT CHORD

6-0-0 6-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL. I/defI L/d (loc)

20.0 Plate Grip DOL 1.15 Vert(LL) -0.02 360 **TCLL** TC 0.27 2-5 >999 TCDL 10.0 Lumber DOL 1.15 ВС 0.14 Vert(CT) -0.03 2-5 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.00 Horz(CT) 0.01 n/a **** n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-P Wind(LL) 0.00 240 **PLATES** GRIP 244/190 MT20

Weight: 40 lb FT = 20%

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

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

LUMBER-

REACTIONS.

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

SLIDER Left 2x4 SP No.2 3-9-6

4=Mechanical, 2=0-3-0, 5=Mechanical

Max Horz 2=163(LC 12) Max Uplift 4=-130(LC 12)

Max Grav 4=202(LC 19), 2=283(LC 1), 5=119(LC 3)

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) -0-8-11 to 3-8-2, Interior(1) 3-8-2 to 5-11-4 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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) except (jt=lb) 4=130





Job Truss Truss Type Qty Ply Lot 10 Turlington Acres 168876642 J1024-5561 J02 Jack-Open 3 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

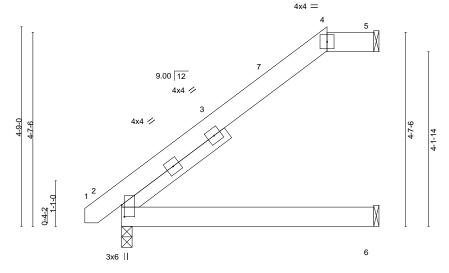
8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:26 2024 Page 1 ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

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

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

-0-10-8 0-10-8 6-0-0 4-10-11 1-1-5

Scale = 1:27.4



6-0-0

BRACING-

TOP CHORD

BOT CHORD

2-0-0 oc purlins: 4-5.

	Plate	Oliseis	(A, Y)	[2:0-3-6,0-0-12]	
=						

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL)	-0.01	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.13	Vert(CT)	-0.03	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT)	0.03	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL)	0.02	2-6	>999	240	Weight: 39 lb	FT = 20%

LUMBER-

REACTIONS.

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

SLIDER Left 2x4 SP No.2 3-1-1

(size) 5=Mechanical, 2=0-3-0, 6=Mechanical

Max Horz 2=135(LC 12) Max Uplift 5=-74(LC 12)

Max Grav 5=162(LC 1), 2=283(LC 1), 6=109(LC 3)

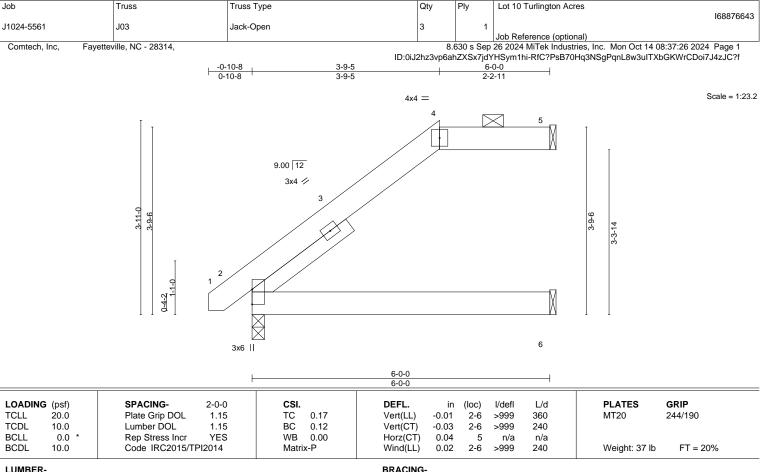
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-11 to 3-8-2, Interior(1) 3-8-2 to 4-10-11, Exterior(2) 4-10-11 to 5-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.







TOP CHORD

BOT CHORD

2-0-0 oc purlins: 4-5.

LUMBER-

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

SLIDER Left 2x4 SP No.2 2-4-11

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

Max Horz 2=108(LC 12)

Max Uplift 5=-54(LC 9), 2=-1(LC 12)

Max Grav 5=161(LC 1), 2=283(LC 1), 6=110(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



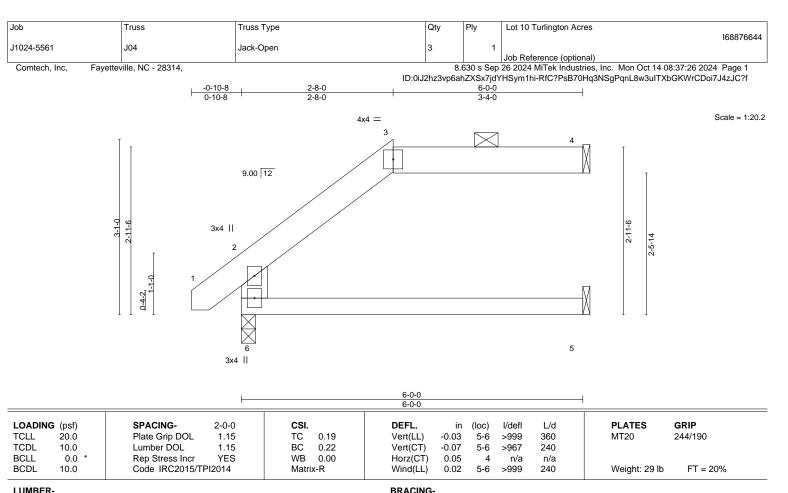
Structural wood sheathing directly applied or 6-0-0 oc purlins, except

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-

REACTIONS.

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

WEBS 2x6 SP No.1

> (size) 6=0-3-0, 4=Mechanical, 5=Mechanical Max Horz 6=76(LC 12) Max Uplift 6=-9(LC 12), 4=-55(LC 9)

Max Grav 6=290(LC 1), 4=169(LC 1), 5=97(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; 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) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

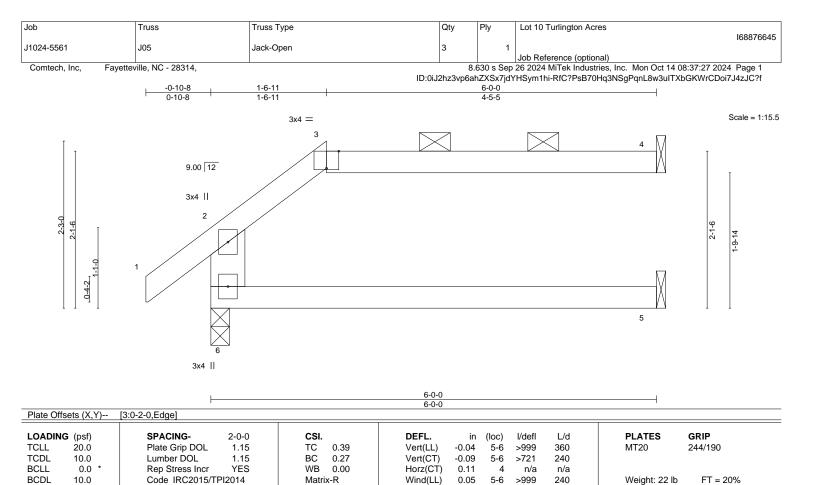


Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals, and 2-0-0 oc purlins: 3-4.

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





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x6 SP No.1 REACTIONS.

(size) 6=0-3-0, 4=Mechanical, 5=Mechanical

Max Horz 6=51(LC 12) Max Uplift 6=-12(LC 9), 4=-50(LC 9)

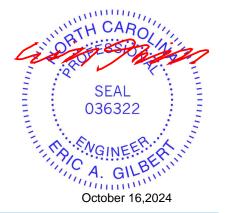
Max Grav 6=300(LC 1), 4=154(LC 1), 5=107(LC 3)

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

TOP CHORD 2-6=-253/233

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
- Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

except end verticals, and 2-0-0 oc purlins: 3-4.

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

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

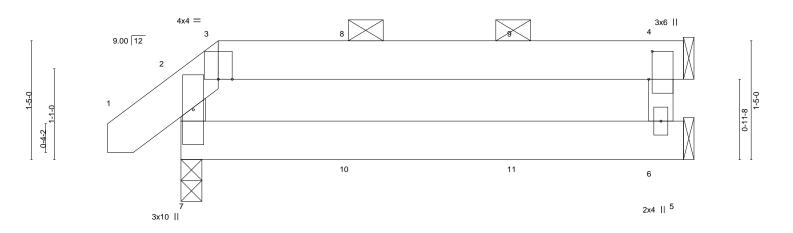
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



Job Truss Truss Type Qty Lot 10 Turlington Acres 168876646 J1024-5561 J06 Jack-Open Girder 3 Job Reference (optional) Comtech, Inc, Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:27 2024 Page 1 ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

6-0-0 0-10-8 0-5-5 5-6-11

Scale = 1:13.8



	<u>'</u>	3-0-0	3-0-0	<u> </u>
Plate Offsets (X,Y)	[4:0-4-0,0-0-8]			
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 0.20	Vert(LL) -0.01 6-7 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.02 6-7 >999 240	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.02 4 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.00 6-7 >999 240	Weight: 32 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.2

> Max Horz 7=24(LC 8) Max Uplift 7=-22(LC 5), 4=-54(LC 5)

Max Grav 7=268(LC 1), 4=161(LC 20), 6=120(LC 3)

(size) 7=0-3-0, 4=Mechanical, 6=Mechanical

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); Lumber DOL=1.60 plate grip DOL=1.60

3-0-0

- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 4.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 14 lb down and 23 lb up at 2-0-12, and 14 lb down and 23 lb up at 4-0-12 on top chord, and 4 lb down at 2-0-12, and 4 lb down at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

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



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

except end verticals, and 2-0-0 oc purlins: 3-4.

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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Comtech, Inc, Fayetteville, NC - 28314,

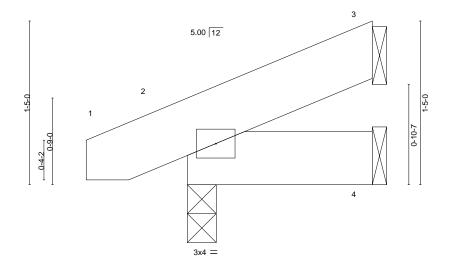
8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:28 2024 Page 1 ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Structural wood sheathing directly applied or 1-7-3 oc purlins.

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



Scale = 1:10.0



1-7-3

BRACING-

TOP CHORD

BOT CHORD

LOADING	G (psf)	SPACING- 2-0	-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.1	15	TC	0.01	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.1	15	BC	0.01	Vert(CT)	-0.00	2	>999	240		
BCLL	0.0 *	Rep Stress Incr YE	S	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	4	Matri	x-P	Wind(LL)	0.00	2	****	240	Weight: 10 lb	FT = 20%

LUMBER-

REACTIONS.

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

2x6 SP No.1

3=Mechanical, 2=0-3-0, 4=Mechanical (size)

Max Horz 2=31(LC 12)

Max Uplift 3=-23(LC 12), 2=-17(LC 8)

Max Grav 3=37(LC 1), 2=115(LC 1), 4=31(LC 3)

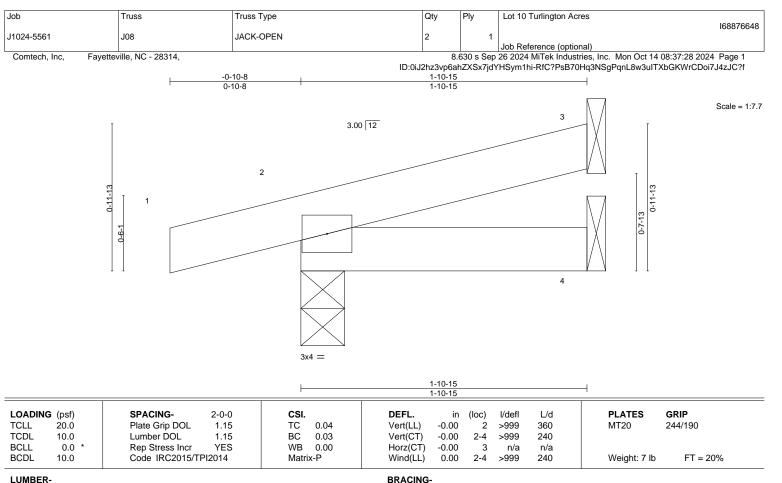
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

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.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 3, 2.







TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

2x4 SP No.1

TOP CHORD 2x4 SP No.1 BOT CHORD

> 3=Mechanical, 2=0-3-8, 4=Mechanical Max Horz 2=23(LC 8)

Max Uplift 3=-20(LC 12), 2=-65(LC 8), 4=-10(LC 8) Max Grav 3=43(LC 1), 2=142(LC 1), 4=37(LC 3)

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; 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 3, 2, 4.



Structural wood sheathing directly applied or 1-10-15 oc purlins.

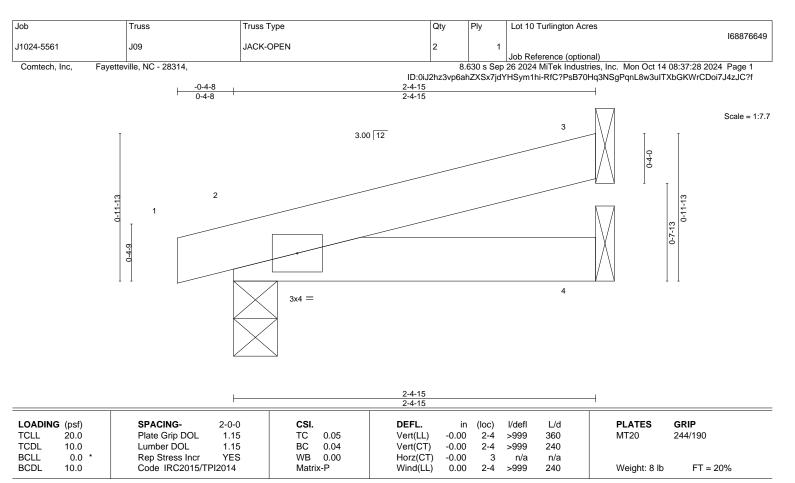
Rigid ceiling directly applied or 10-0-0 oc bracing.

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LUMBER-BOT CHORD

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

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

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

REACTIONS. 3=Mechanical, 2=0-3-8, 4=Mechanical

Max Horz 2=22(LC 8)

Max Uplift 3=-25(LC 12), 2=-52(LC 8), 4=-11(LC 8) Max Grav 3=62(LC 1), 2=123(LC 1), 4=44(LC 3)

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

NOTES-

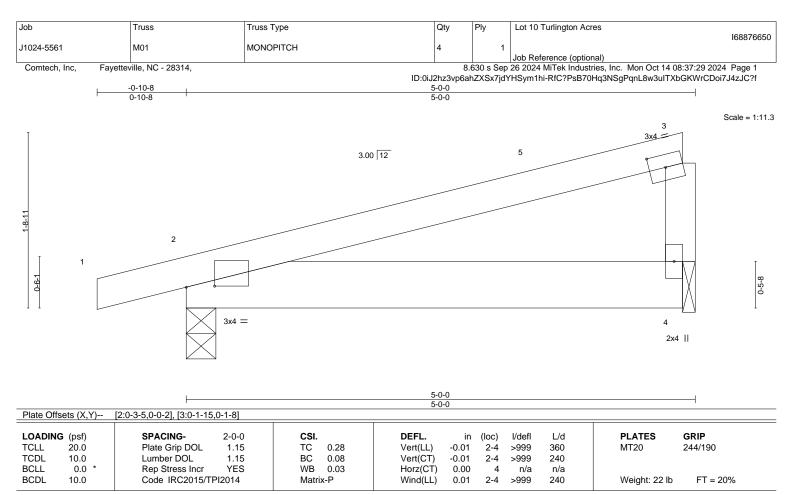
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 3, 2, 4.



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)





BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

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

Max Horz 2=48(LC 8) Max Uplift 2=-107(LC 8), 4=-75(LC 8) Max Grav 2=256(LC 1), 4=181(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 4-10-1 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 4 except (jt=lb) 2 = 107



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

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

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

building design. Bracing indicated is to prevent buckling of individual truss web and/or 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 10 Turlington Acres 168876651 J1024-5561 M02 ROOF SPECIAL GIRDER 2 Job Reference (optional) Fayetteville, NC - 28314, 8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:29 2024 Page 1 Comtech, Inc. ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSqPqnL8w3ulTXbGKWrCDoi7J4zJC?f 0-10-8 4-0-0 1-0-0 Scale = 1:11.6 3x4 = 3x4 || 3 3.00 12 3x6 II 2-10-5

Plate Offsets (X,Y)-- [2:0-3-5,0-0-2], [4:Edge,0-2-0], [5:Edge,0-2-0]

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	0.23	Vert(LL)	0.02	2-5	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.20	Vert(CT)	-0.02	2-5	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2	2014	Matri	x-R						Weight: 21 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-BRACING-

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

> (size) 2=0-3-8, 5=0-1-8 Max Horz 2=41(LC 4)

Max Uplift 2=-133(LC 4), 5=-180(LC 4) Max Grav 2=318(LC 1), 5=458(LC 1)

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

NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=133, 5=180.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 338 lb down and 192 lb up at 4-0-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

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=-60, 2-5=-20

Concentrated Loads (lb)

Vert: 6=-338(B)



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

except end verticals, and 2-0-0 oc purlins: 3-4.

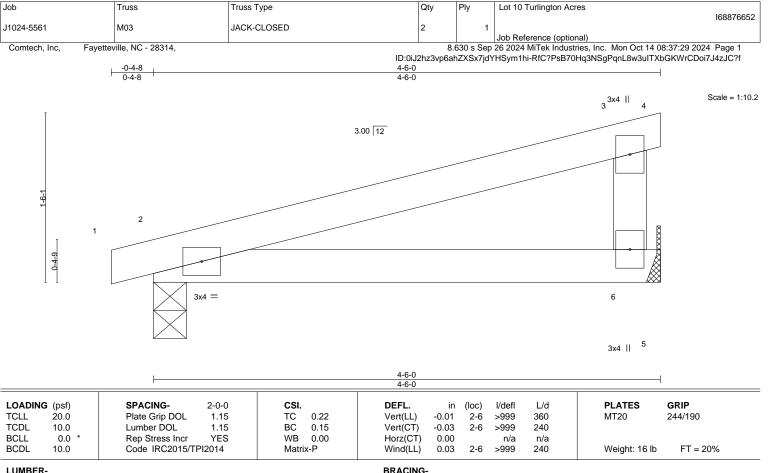
Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

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





TOP CHORD

BOT CHORD

LUMBER-

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

WEBS 2x4 SP No.2

REACTIONS.

6=Mechanical, 2=0-3-8 (size) Max Horz 2=39(LC 8) Max Uplift 6=-68(LC 8), 2=-77(LC 8) Max Grav 6=173(LC 1), 2=196(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; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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 4-6-0 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.

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Job Truss Truss Type Qty Lot 10 Turlington Acres 168876653 J1024-5561 P1 **GABLE** 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:30 2024 Page 1 ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-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.

 $\frac{-0-4-8}{0-4-8}$ 8-0-0

Scale: 3/4"=1

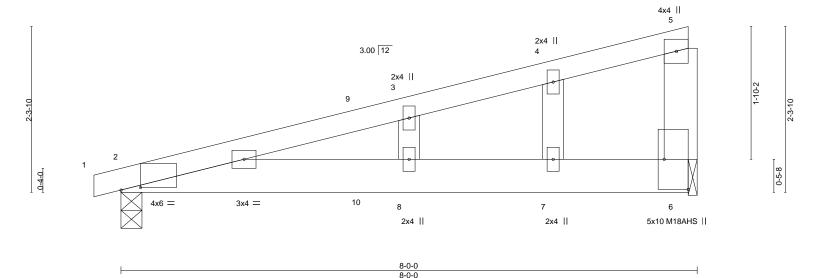


Plate Off	rsets (X,Y)	[2:0-3-4,0-0-7], [6:Edge,0	-4-0]									
LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.29	Vert(LL)	0.12	8	>741	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.09	8	>999	240	M18AHS	186/179
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	6	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S	, ,					Weight: 37 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS. (size) 2=0-3-8, 6=0-1-8

Max Horz 2=98(LC 8) Max Uplift 2=-188(LC 8), 6=-182(LC 8) Max Grav 2=337(LC 1), 6=304(LC 1)

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

2-3=-244/258, 3-4=-221/304, 4-5=-203/320 TOP CHORD BOT CHORD 2-8=-365/204, 7-8=-365/204, 6-7=-365/204

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) -0-4-8 to 4-0-0, Exterior(2) 4-0-0 to 7-9-4 zone; porch left 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 MT20 plates 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.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) 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.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=188, 6=182,





Job Truss Truss Type Qty Lot 10 Turlington Acres 168876654 J1024-5561 P2 MONOPITCH 6 Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 14 08:37:30 2024 Page 1 ID:0iJ2hz3vp6ahZXSx7jdYHSym1hi-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

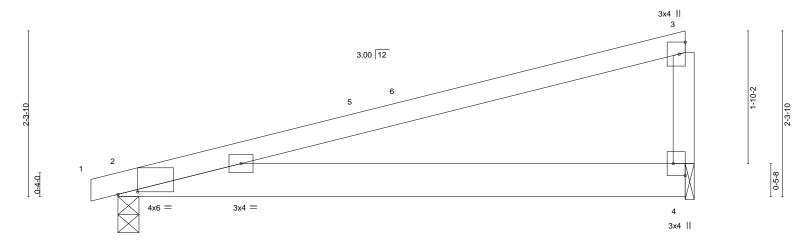
Structural wood sheathing directly applied or 2-2-0 oc purlins,

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

except end verticals.

0-4-8 8-0-0

Scale: 3/4"=1



							8-0-0 8-0-0						─
Plate Offsets (X,Y) [2:0-3-4,0-0-7], [4:Edge,0-2-0]													
LOADING	(psf)	SPACING-	2-0-0	CSI.			DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.90		Vert(LL)	-0.05	2-4	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.24		Vert(CT)	-0.10	2-4	>969	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00		Horz(CT)	0.00	4	n/a	n/a		
BCDL	10.0	Code IRC2015/TI	PI2014	Matri	x-P		Wind(LL)	0.10	2-4	>886	240	Weight: 33 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-

REACTIONS.

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

WEBS 2x4 SP No.2

> (size) 2=0-3-8, 4=0-1-8 Max Horz 2=69(LC 8)

Max Uplift 2=-131(LC 8), 4=-126(LC 8) Max Grav 2=341(LC 1), 4=306(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) -0-4-8 to 4-0-5, Interior(1) 4-0-5 to 7-10-1 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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=131, 4=126



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Symbols

PLATE LOCATION AND ORIENTATION



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



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

₹

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

* Plate location details available in MiTek software or upon request

PLATE SIZE

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

LATERAL BRACING LOCATION



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

BEARING



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

ANSI/TPI1: Industry Standards: National Design Specification for Metal

DSB-22:

Plate Connected Wood Trusses Installing, Restraining & Bracing of Metal Guide to Good Practice for Handling, Building Component Safety Information, Design Standard for Bracing. 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.
- Cut members to bear tightly against each other

'n

- joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1. Place plates on each face of truss at each
- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

9

- Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- 11. 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.