

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0920-4399

Wellco/Lot 91 Hidden Lakes/Harnett

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

Pages or sheets covered by this seal: E14912393 thru E14912411

My license renewal date for the state of North Carolina is December 31, 2020.

North Carolina COA: C-0844



September 28,2020

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.

FINK J0920-4399 3 A1 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 28 08:03:27 2020 Page 1 Comtech, Inc. ID:I2dlSWmc?rsKCp8e01L4?Rzx8kL-B6MYHN69xfV4OrWm8NN_ss_MUsynFsSkYA0bkiyZ9jU -0-10-8 0-10-8 18-4-0 27-1-10 36-8-0 37-6-8 0-10-8 9-6-6 8-9-10 8-9-10 9-6-6 Scale = 1:74.1 5x8 = 7.00 12 5 22 2 4x8 / 4x8 < 6 4x4 > 20 15 16 14 1317 1812 11 19 10 4x6 = 2x4 4x8 = 4x4 =4x4 =4x8 = 12-5-10 24-2-6 27-8-0 36-8-0 12-5-10 11-8-13 9-0-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.49 Vert(LL) -0.16 11-14 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.54 Vert(CT) -0.29 2-14 >999 240 **BCLL** WB 0.93 0.0 Rep Stress Incr YES Horz(CT) 0.02 10 n/a n/a

Qty

Ply

Wellco/Lot 91 Hidden Lakes/Harnett

E14912393

LUMBER-

BCDL

Job

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

10.0

Wind(LL) BRACING-

TOP CHORD **BOT CHORD** WFBS

Structural wood sheathing directly applied or 5-10-9 oc purlins.

Weight: 251 lb

FT = 20%

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

240

1 Row at midpt 5-11

>999

2-14

0.05

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

Max Horz 2=267(LC 11)

Truss

Truss Type

Max Uplift 2=-91(LC 12), 10=-125(LC 13) Max Grav 2=1133(LC 19), 10=2008(LC 2)

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

TOP CHORD 2-3=-1526/175, 3-5=-1330/239, 5-7=-354/249, 7-8=-530/819 **BOT CHORD** 2-14=-149/1419. 11-14=0/592. 10-11=-486/531. 8-10=-572/562

Code IRC2015/TPI2014

3-14=-622/341, 5-14=-172/1145, 5-11=-847/388, 7-11=-142/1117, 7-10=-1872/595 **WEBS**

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 18-4-0, Exterior(2) 18-4-0 to 22-8-13, Interior(1) 22-8-13 to 37-4-13 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

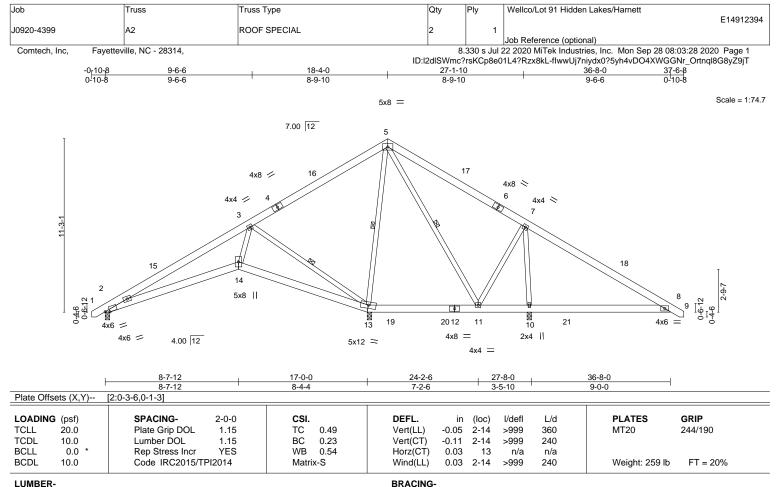
Matrix-S

- 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 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 10=125.



September 28,2020





BOT CHORD

WEBS

LUMBER-

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

WFBS 2x4 SP No.2

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

Max Horz 2=-267(LC 10)

Max Uplift 2=-46(LC 13), 13=-175(LC 12), 10=-226(LC 13) Max Grav 2=437(LC 23), 13=1764(LC 19), 10=1242(LC 24)

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

2-3=-513/60, 3-5=-122/808, 5-7=-177/654, 7-8=-532/824 TOP CHORD **BOT CHORD**

2-14=-132/437, 13-14=-138/321, 11-13=-572/330, 10-11=-539/535, 8-10=-577/563 WFBS 5-11=-249/317, 7-11=-111/285, 3-14=0/437, 3-13=-973/268, 7-10=-1015/558,

5-13=-1056/136

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 18-4-0, Exterior(2) 18-4-0 to 22-8-13, Interior(1) 22-8-13 to 37-4-13 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=175, 10=226,



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

5-11, 3-13, 5-13

Rigid ceiling directly applied or 6-0-0 oc bracing, Except:

10-0-0 oc bracing: 2-14.

1 Row at midpt

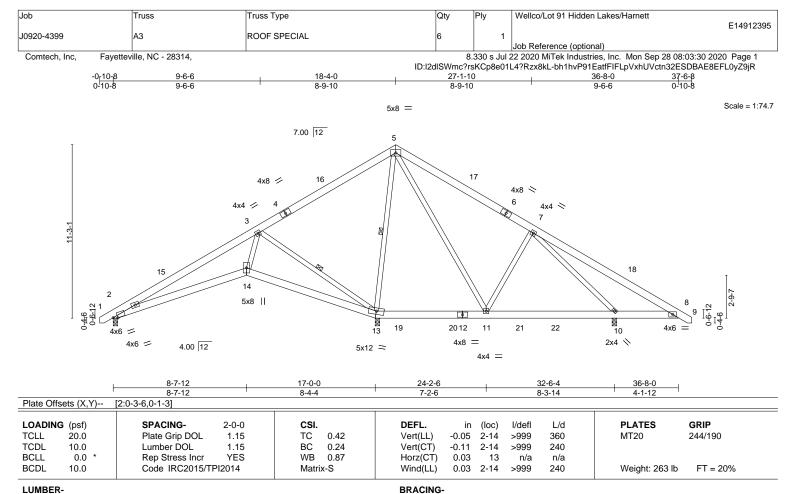
September 28,2020



Design valid for use only with MTI-sky 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/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information, pushed from True Blots pertitive. 2570 Crips Highways. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BOT CHORD

WFBS

LUMBER-

REACTIONS.

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

> 2=0-3-8, 13=0-3-8, 10=0-3-8 (size)

Max Horz 2=-267(LC 10)

Max Uplift 2=-49(LC 13), 13=-163(LC 12), 10=-155(LC 13) Max Grav 2=431(LC 23), 13=2021(LC 19), 10=865(LC 24)

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

2-3=-487/50, 3-5=-127/797, 5-7=-267/298, 7-8=-377/600 TOP CHORD

BOT CHORD 2-14=-124/460, 13-14=-130/341, 11-13=-520/257, 8-10=-408/433

WFBS 5-11=-113/661, 7-11=-481/247, 3-14=0/471, 3-13=-983/253, 5-13=-1329/192,

7-10=-852/453

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 18-4-0, Exterior(2) 18-4-0 to 22-8-13, Interior(1) 22-8-13 to 37-4-13 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=163, 10=155,



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

3-13. 5-13

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

1 Row at midpt

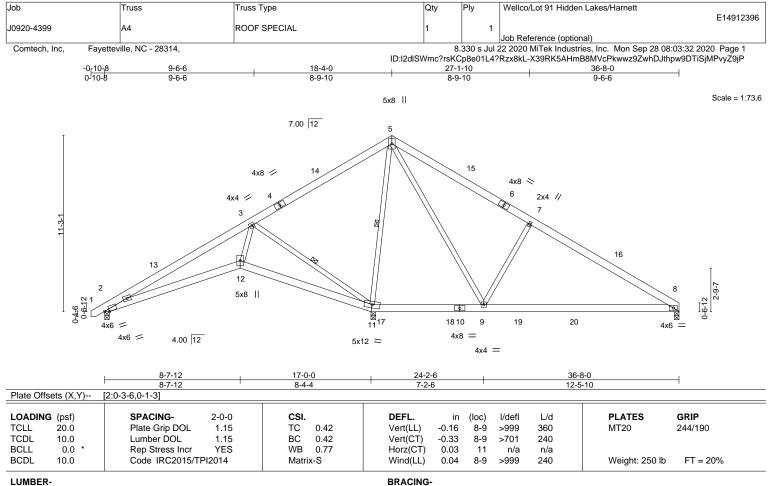
September 28,2020



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ANSI/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information, pushed from True Blots pertitive. 2570 Crips Highways. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BOT CHORD

WFBS

LUMBER-

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

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

Max Horz 2=264(LC 9)

Max Uplift 2=-45(LC 13), 11=-152(LC 12), 8=-109(LC 13) Max Grav 2=425(LC 23), 11=2159(LC 19), 8=659(LC 20)

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

TOP CHORD 2-3=-462/58 3-5=-116/821 5-7=-490/306 7-8=-691/252

BOT CHORD 2-12=-154/414. 11-12=-155/302. 9-11=-517/233. 8-9=-132/521

WFBS 5-9=-190/1061, 7-9=-637/343, 3-12=0/454, 3-11=-967/268, 5-11=-1508/240

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 18-4-0, Exterior(2) 18-4-0 to 22-8-13, Interior(1) 22-8-13 to 36-6-4 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 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.
- 5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=152. 8=109.



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

3-11, 5-11

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

1 Row at midpt

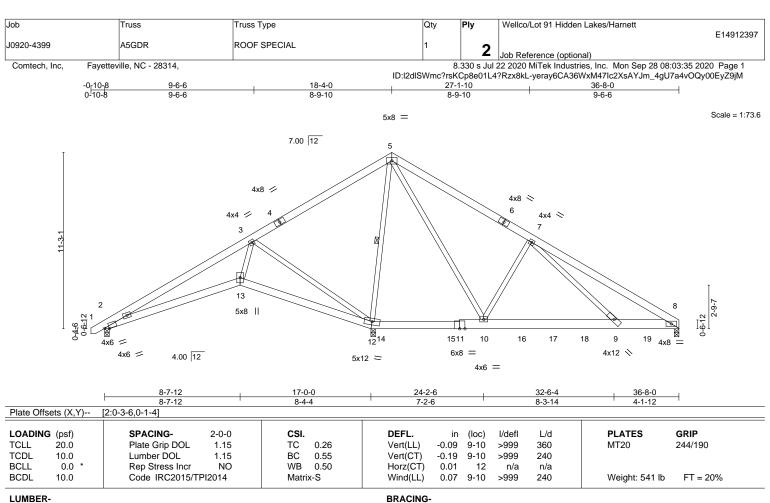
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ANSI/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information, pushed from True Blots pertitive. 2570 Crips Highways. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BOT CHORD

WFBS

LUMBER-

TOP CHORD 2x6 SP No 1

BOT CHORD 2x6 SP No.1 *Except*

8-11: 2x8 SP No.1

WFBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 8=0-3-8

Max Horz 2=264(LC 5)

Max Uplift 2=-113(LC 28), 12=-224(LC 8), 8=-236(LC 9) Max Grav 2=382(LC 16), 12=3070(LC 1), 8=2365(LC 20)

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

TOP CHORD 2-3=-323/472, 3-5=-130/1022, 5-7=-1227/382, 7-8=-4291/419

BOT CHORD 2-13=-413/389, 12-13=-381/282, 10-12=-467/155, 9-10=-213/1535, 8-9=-279/3588 **WEBS** 5-10=-259/2393, 7-10=-1254/313, 3-13=-137/392, 3-12=-952/364, 5-12=-2593/183,

7-9=-115/2917

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, 2x8 - 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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * 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.
- 7) Bearing at joint(s) 2 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) 2=113, 12=224, 8=236,
- 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 527 lb down and 46 lb up at 26-7-4, 527 lb down and 46 lb up at 28-7-4, 527 lb down and 46 lb up at 30-7-4, and 527 lb down and 46 lb up at 32-7-4, and 527 Ib down and 46 lb up at 34-7-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard



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

5-12

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

1 Row at midpt

September 28,2020

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

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ANSI/PTI Quality Criteria, DSB-89 and BCSI Building Component Settle Management and Component Settle Management fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Wellco/Lot 91 Hidden Lakes/Harnett E14912397 J0920-4399 A5GDR ROOF SPECIAL 2 Job Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 28 08:03:35 2020 Page 2 ID:I2dlSWmc?rsKCp8e01L4?Rzx8kL-yeray6CA36WxM47lc2XsAYJm_4gU7a4vOQy00EyZ9jM

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-5=-60, 5-8=-60, 2-13=-20, 12-13=-20, 8-12=-20

Concentrated Loads (lb)

Vert: 9=-527(F) 16=-527(F) 17=-527(F) 18=-527(F) 19=-527(F)



Job Truss Truss Type Qty Ply Wellco/Lot 91 Hidden Lakes/Harnett E14912398 соммон 6 J0920-4399 A6 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 28 08:03:36 2020 Page 1 Comtech, Inc. ID:I2dlSWmc?rsKCp8e01L4?Rzx8kL-QrPyASDoqQeo_DiV9m25jmsvYU1Cs?13d4hZYgyZ9jL 9-6-6 18-4-0 25-4-0 8-9-10 9-6-6 7-0-0 Scale = 1:66.0 5x12 || 7.00 12 4 13 14 12 4x6 / 3x4 II 5 3 1/ 7-2-1 0-6-12 \boxtimes 15 9 17 16 10 19 ₇6 3x4 = 18 8 3x4 = 4x6 =2x4 \\ 4x6 = 19-6-8 19₋9-4 0-2-12 12-5-10 7-0-14 5-6-12

Plate Offsets (X,Y)-- [1:0-0-6,Edge]

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 0.40	Vert(LL) -0	0.16 1-10	>999 360	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.46	Vert(CT) -0	0.34 1-10	>688 240		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.59	Horz(CT)	0.01 8	n/a n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.05 1-10	>999 240	Weight: 204 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

LUMBER-

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

2x4 SP No.2 *Except* **WEBS** 5-7: 2x6 SP No.1

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

Max Horz 1=271(LC 12)

Max Uplift 1=-28(LC 12), 8=-102(LC 12) Max Grav 1=785(LC 19), 8=1439(LC 19)

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

TOP CHORD 1-2=-935/145, 2-4=-731/210

BOT CHORD 1-10=-247/858

WEBS 2-10=-639/344, 4-10=-187/1055, 4-7=-126/309, 4-8=-1195/362

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-12 to 4-5-9, Interior(1) 4-5-9 to 18-4-0, Exterior(2) 18-4-0 to 22-8-13, Interior(1) 22-8-13 to 24-11-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.
- 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) 1 except (jt=lb) 8=102.



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

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

except end verticals.

1 Row at midpt

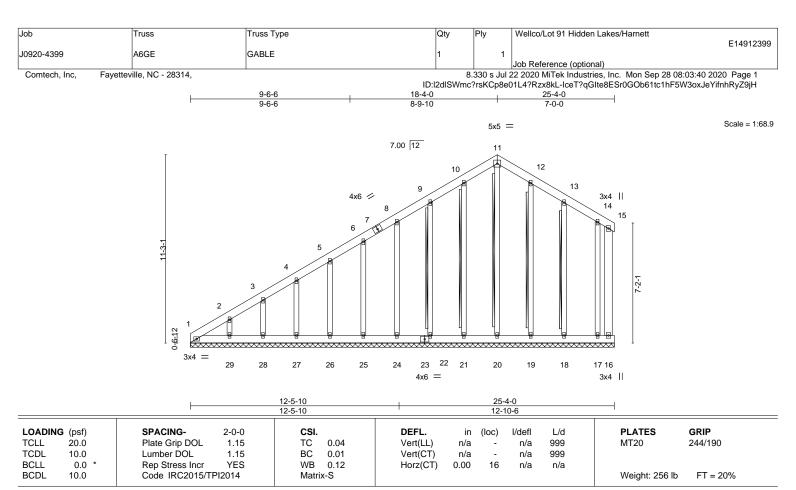
September 28,2020



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LUMBER-

OTHERS

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

BRACING-

WFBS

TOP CHORD

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

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

T-Brace:

2x4 SPF No.2 - 11-20, 10-21, 9-22, 12-19,

13-18

Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 25-4-0.

2x4 SP No 2

(lb) -Max Horz 1=401(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 16, 1, 21, 22, 24, 25, 26, 27, 28,

19, 18, 17 except 29=-108(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 16, 1, 20, 21, 22, 24, 25, 26, 27, 28, 29, 19, 18, 17

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 1-2=-439/281, 2-3=-358/236, 3-4=-297/216

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) 0-0-0 to 4-4-0, Exterior(2) 4-4-0 to 18-4-0, Corner(3) 18-4-0 to 22-8-13, Exterior(2) 22-8-13 to 24-11-12 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 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 1, 21, 22, 24, 25, 26, 27, 28, 19, 18, 17 except (jt=lb) 29=108.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



September 28,2020



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WILLIA REPEARANCE FROM MILES OF THIS AND INCLUDED WILLIA REPEARANCE FROM MILES OF AN INDIVIDUAL SECTION OF THIS AND INCLUDED WILLIAM SECTION OF THE WILLIAM SECTIO fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Wellco/Lot 91 Hidden Lakes/Harnett E14912400 ATTIC J0920-4399 B1 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 28 08:03:42 2020 Page 1 ID:I2dISWmc?rsKCp8e01L4?Rzx8kL-F_mDQVIZPGOyi8AfW09Vz16q4v04Gqqx??8umKyZ9jF

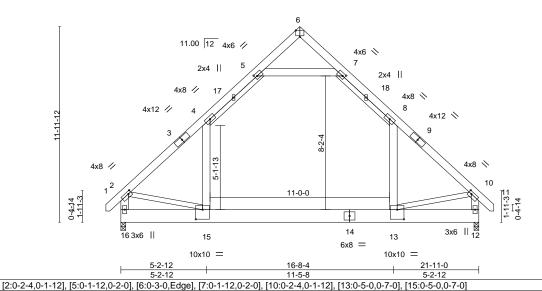
5-2-12 5-2-12 5-5₇8 8-7-2 0-2-12 3-1-10 10-11-8 13-3-14 16-8-4 21-11-0 2-4-6 2-4-6 3-4-6 5-2-12

> Scale = 1:70.5 4x6 =

> > Structural wood sheathing directly applied or 3-5-6 oc purlins,

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

except end verticals.



LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.85 Vert(LL) -0.24 13-15 >999 360 MT20 244/190 TCDL вс 10.0 Lumber DOL 1.15 0.75 Vert(CT) -0.41 13-15 >621 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.18 Horz(CT) 0.01 12 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.08 13-15 >999 240 Weight: 232 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

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

Plate Offsets (X,Y)--

2x10 SP No.1

WEBS 2x6 SP No.1 *Except*

2-15,10-13,4-5,7-8: 2x4 SP No.2

REACTIONS. (size) 16=0-3-8, 12=0-3-8

Max Horz 16=-309(LC 10)

Max Grav 16=1457(LC 20), 12=1457(LC 21)

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

TOP CHORD 2-4=-1611/0, 4-5=-1005/142, 5-6=0/319, 6-7=0/319, 7-8=-1005/142, 8-10=-1610/0,

2-16=-1519/33. 10-12=-1520/33

BOT CHORD 15-16=-263/594, 13-15=0/1041, 12-13=-77/383

WEBS 5-7=-1325/166, 4-15=0/672, 8-13=0/672, 2-15=0/756, 10-13=0/762

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-11, Interior(1) 3-7-11 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13, Interior(1) 15-4-13 to 22-9-1 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.
- 4) * 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.
- 5) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 7) Attic room checked for L/360 deflection.



September 28,2020



Job Truss Truss Type Qty Ply Wellco/Lot 91 Hidden Lakes/Harnett E14912401 B2 ATTIC 10 J0920-4399 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 28 08:03:43 2020 Page 1

ID:I2dISWmc?rsKCp8e01L4?Rzx8kL-jBKberJBAZWpJlkr4kgkVEf?wJMB?H25EfuRImyZ9jE 10-11-8 5-5₇8 8-7-2 0-2-12 3-1-10 13-3-14 16-8-4 <u>21-11-</u>0 2-4-6 2-4-6 5-2-12

> Scale = 1:70.5 4x6 =

> > 21-11-0

except end verticals.

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

Rigid ceiling directly applied or 9-7-6 oc bracing.

4x6 / 4x6 💉 5 11.00 12 2x4 2x4 || 15 4x8 6 16 13 8-2-4 4x6 📏 4x6 11-0-0 1-11-3 1-11-3 3x6 || 10 12 3x6 II 11 9 6x8 = 10x10 = 10x10 =

16-8-4

BRACING-

TOP CHORD

BOT CHORD

5-2-12 11-5-8 5-2-12 Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [3:0-1-12,0-2-0], [4:0-3-0,Edge], [5:0-1-12,0-2-0], [7:0-1-4,0-2-0], [9:0-5-0,0-7-0], [11:0-5-0,0-7-0]

5-2-12

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.84	Vert(LL)	-0.25	9-11	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.42	9-11	>606	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.19	Horz(CT)	0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matri	x-S	Wind(LL)	0.08	9-11	>999	240	Weight: 227 lb	FT = 20%

LUMBER-

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

WEBS 2x6 SP No.1 *Except*

1-11,7-9,2-3,5-6: 2x4 SP No.2

REACTIONS. (size) 12=0-3-8, 8=0-3-8

Max Horz 12=236(LC 9)

Max Grav 12=1410(LC 21), 8=1410(LC 20)

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

TOP CHORD 1-2=-1593/0, 2-3=-1006/141, 3-4=0/327, 4-5=0/327, 5-6=-1006/141, 6-7=-1593/0,

1-12=-1475/0. 7-8=-1476/0

BOT CHORD 11-12=-237/453, 9-11=0/1024, 8-9=-66/280

WEBS 3-5=-1340/168, 2-11=0/643, 6-9=0/643, 1-11=0/844, 7-9=0/848

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13, Interior(1) 15-4-13 to 21-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.
- 5) Ceiling dead load (10.0 psf) on member(s). 2-3, 5-6, 3-5; Wall dead load (5.0psf) on member(s).2-11, 6-9
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
- 7) Attic room checked for L/360 deflection.



September 28,2020



Job Truss Truss Type Qty Ply Wellco/Lot 91 Hidden Lakes/Harnett E14912402 C1GE GABLE J0920-4399 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 28 08:03:44 2020 Page 1 Comtech, Inc.

ID:I2dISWmc?rsKCp8e01L4?Rzx8kL-BNuzrBJpxtefxSJ1dRBz2SBIsiqlkgxESJd_qDyZ9jD 8-4-0 8-4-0 12-4-0 14-0-0 4-0-0 1-8-0

> Scale = 1:41.7 5x12 ||

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

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

except end verticals.

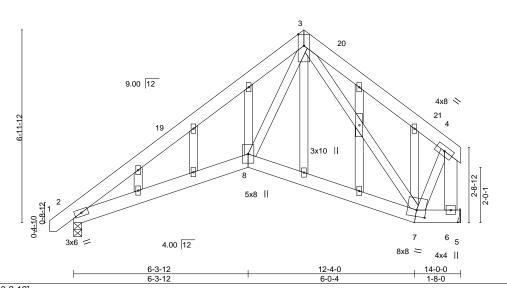


Plate Offsets (X,Y)--[7:0-4-0,0-2-12] LOADING (psf) SPACING-2-0-0 CSI. DEFL. in (loc) I/defl L/d **PLATES** GRIP TCLL 20.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) -0.02 2-8 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.22 Vert(CT) -0.05 2-8 >999 240 **BCLL** 0.0 Rep Stress Incr YES WB 0.40 Horz(CT) 0.02 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Wind(LL) 0.04 2-8 >999 240 Weight: 130 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 *Except*

4-6: 2x6 SP No.1 **OTHERS** 2x4 SP No.2

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

Max Horz 2=211(LC 12)

Max Uplift 2=-121(LC 12), 6=-100(LC 12) Max Grav 2=595(LC 1), 6=545(LC 1)

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

TOP CHORD 2-3=-895/163, 3-4=-294/137, 4-6=-525/120

BOT CHORD 2-8=-149/686, 7-8=-119/431

WEBS 3-8=-44/555, 4-7=-23/334, 3-7=-421/154

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) -0-9-0 to 3-7-13, Interior(1) 3-7-13 to 8-4-0, Exterior(2) 8-4-0 to 12-8-13, Interior(1) 12-8-13 to 13-7-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 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.
- 8) Refer to girder(s) for truss to truss connections.
- 9) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=121, 6=100.



September 28,2020



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

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED WILLIA REPEARANCE FROM MILES OF THIS AND INCLUDED WILLIA REPEARANCE FROM MILES OF AN INDIVIDUAL SECTION OF THIS AND INCLUDED WILLIAM SECTION OF THE WILLIAM SECTIO fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Wellco/Lot 91 Hidden Lakes/Harnett E14912403 C2 SCISSORS J0920-4399 5 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 28 08:03:45 2020 Page 1 Comtech, Inc. ID:I2dlSWmc?rsKCp8e01L4?Rzx8kL-fZRM2XKRiBmWZcuDB8iCafkSE6AJT7OOhzNYNfyZ9jC 8-4-0 12-4-0 14-0-0 8-4-0 4-0-0 1-8-0 Scale = 1:41.4 5x8 || 2 10 9.00 12 4x8 💉 11 3 5x8 II 0-8-12 \mathbb{R} 6 5 4 3x4 = 4.00 12 6x6 = 4x4 || 6-3-12 14-0-0 6-3-12 6-0-4 1-8-0

Plate Offsets (X,Y)				
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 0.34	Vert(LL) -0.02 1-7 >999 360	MT20 244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.20	Vert(CT) -0.04 1-7 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.39	Horz(CT) 0.02 5 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 1-7 >999 240	Weight: 103 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 *Except* 3-5: 2x6 SP No.1

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

Max Horz 1=153(LC 9)

Max Uplift 1=-22(LC 12), 5=-26(LC 12) Max Grav 1=540(LC 1), 5=547(LC 1)

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

1-2=-890/152, 2-3=-293/137, 3-5=-528/121 **BOT CHORD** 1-7=-86/664, 6-7=-83/422

WEBS

2-7=0/555, 3-6=0/327, 2-6=-408/95

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 8-4-0, Exterior(2) 8-4-0 to 12-8-13, Interior(1) 12-8-13 to 13-7-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Bearing at joint(s) 1 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 capable of withstanding 100 lb uplift at joint(s) 1, 5.



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

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

except end verticals.

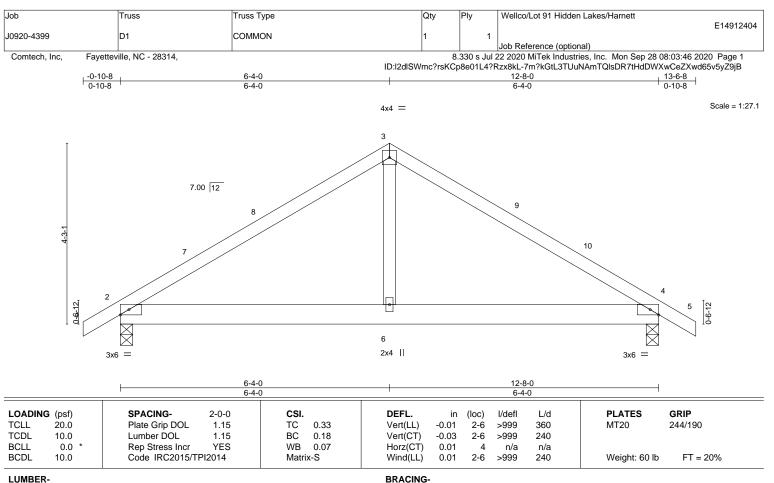
September 28,2020



Design valid for use only with MTReks connectors. This design is based only upon parameters shown, and is for an individual building ocomponent, 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/THI Quality Criteria, DSB-89 and BCSI Building Component Sector Members and Property damage. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Qu Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601





BOT CHORD

LUMBER-

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

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

Max Horz 2=-101(LC 10)

Max Uplift 2=-42(LC 12), 4=-42(LC 13) Max Grav 2=556(LC 1), 4=556(LC 1)

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

2-3=-639/164, 3-4=-639/165 TOP CHORD **BOT CHORD** 2-6=-16/455, 4-6=-16/455

WEBS 3-6=0/317

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 6-4-0, Exterior(2) 6-4-0 to 10-8-13, Interior(1) 10-8-13 to 13-6-8 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 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.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.

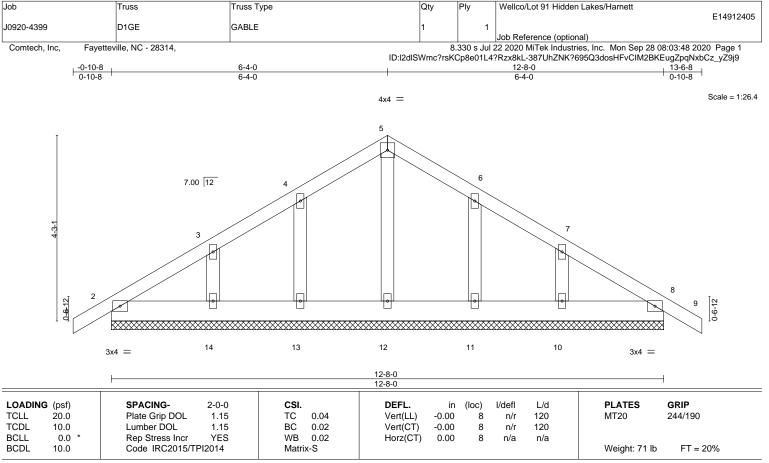


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

September 28,2020





LUMBER-

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

BRACING-

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

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

REACTIONS. All bearings 12-8-0.

Max Horz 2=-126(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

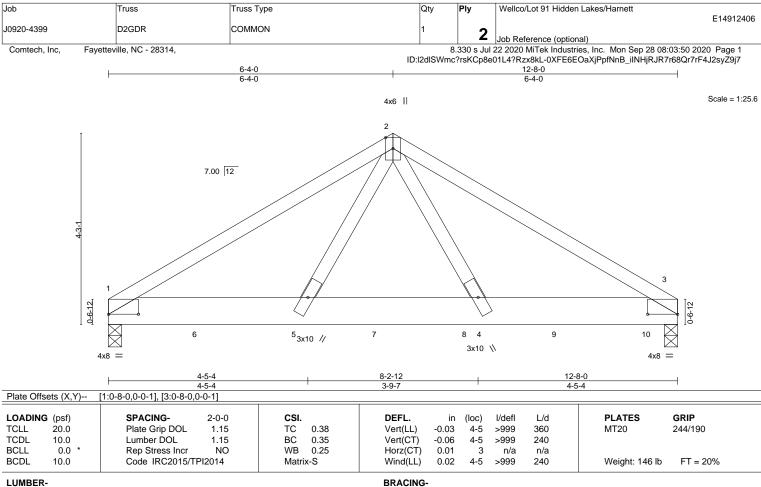
NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 6-4-0, Corner(3) 6-4-0 to 10-8-13, Exterior(2) 10-8-13 to 13-6-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 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.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.



September 28,2020





BOT CHORD

LUMBER-

TOP CHORD 2x4 SP No 1 BOT CHORD 2x8 SP No 1 WFBS 2x4 SP No 2

REACTIONS.

(size) 1=0-3-8, 3=0-3-8 Max Horz 1=-91(LC 25)

Max Uplift 1=-132(LC 8), 3=-158(LC 9) Max Grav 1=2437(LC 1), 3=2989(LC 1)

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

TOP CHORD 1-2=-3718/200, 2-3=-3761/201

BOT CHORD 1-5=-127/3091, 4-5=-97/2178, 3-4=-118/3129

WFBS 2-5=-61/1923, 2-4=-65/2001

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: 2x8 - 2 rows staggered at 0-5-0 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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads
- * This truss has been designed for a live load of 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.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=132, 3=158,
- 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 738 lb down and 48 lb up at 2-0-12, 738 lb down and 48 lb up at 4-0-12, 738 lb down and 48 lb up at 6-0-12, 738 lb down and 48 lb up at 8-0-12, and 738 lb down and 48 lb up at 10-0-12, and 744 lb down and 42 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=-20, 1-2=-60, 2-3=-60



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

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

September 28,2020

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

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

ANSI/PTI Quality Criteria, DSB-89 and BCSI Building Component Settle Management and Component Settle Management fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Wellco/Lot 91 Hidden Lakes/Harnett
J0920-4399	D2GDR	COMMON	1	_	E14912406
30320 4333	DZODIK	COMMUNICIA	'	2	Job Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 28 08:03:50 2020 Page 2 ID:I2dISWmc?rsKCp8e01L4?Rzx8kL-0XFE6EOaXjPpfNnB_iINHjRJR7r68Qr7rF4J2syZ9j7

LOAD CASE(S) Standard Concentrated Loads (lb)

Vert: 5=-738(F) 6=-738(F) 7=-738(F) 8=-738(F) 9=-738(F) 10=-744(F)





Job Truss Type Qty Ply E14912407 MONOPITCH J0920-4399 M1 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 28 08:03:51 2020 Page 1 Comtech, Inc. ID:I2dlSWmc?rsKCp8e01L4?Rzx8kL-UjpdJaPCI1XgHXMNYPpcqw_V8XDutrFG3vqsaJyZ9j6 -0-10-8 0-10-8 8-8-0 17-4-0 8-8-0 8-8-0 Scale = 1:58.5 3x4 || 7.00 12 5 6 4x6 / 12 3x6 / 3 10-8-1 0-4-6 0-6-12 8 7 9 10 3x4 4x6 = 4x6 =2x4 || 8-8-0 17-4-0 8-8-0 8-8-0 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) -0.03 2-10 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.25 Vert(CT) -0.07 2-10 >999 240 **BCLL** WB 0.0 Rep Stress Incr YES 0.36 Horz(CT) 0.01 8 n/a n/a Code IRC2015/TPI2014 2-10 **BCDL** 10.0 Matrix-S Wind(LL) 0.03 >999 240 Weight: 133 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WFBS

Wellco/Lot 91 Hidden Lakes/Harnett

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

5-8.3-8

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

except end verticals.

1 Row at midpt

LUMBER-

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

2x4 SP No.2 *Except* **WEBS** 5-8: 2x6 SP No.1

REACTIONS. (size) 8=0-3-8, 2=0-3-8 Max Horz 2=340(LC 12)

Max Uplift 8=-172(LC 12)

Truss

Max Grav 8=740(LC 19), 2=727(LC 1)

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

TOP CHORD 2-3=-893/0

BOT CHORD 2-10=-229/760. 8-10=-229/760 WFBS 3-10=0/396, 3-8=-871/261

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 17-4-0 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 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=172.



September 28,2020





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ANSI/PTI Quality Criteria, DSB-89 and BCSI Building Component Safety Information, pushed from True Blots pertitive. 2570 Crips Highways. fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSVTP/1 Qu Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



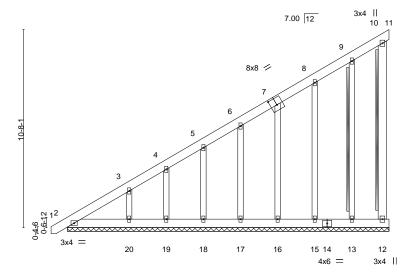
Job Truss Truss Type Qty Ply Wellco/Lot 91 Hidden Lakes/Harnett E14912408 J0920-4399 M1GE GABLE Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 28 08:03:51 2020 Page 1 ID:I2dISWmc?rsKCp8e01L4?Rzx8kL-UjpdJaPCI1XgHXMNYPpcqw_Z4XGRtuWG3vqsaJyZ9j6

-0-10-8 0-10-8 17-4-0

Scale = 1:62.1



17-4-0

Plate Offsets (X,Y)				
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 0.03	Vert(CT) 0.00 1 n/r 120	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT) -0.01 11 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Weight: 166 lb FT = 20%	

LUMBER-

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

BOT CHORD WEBS

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

Rigid ceiling directly applied or 10-0-0 oc bracing. T-Brace: 2x4 SPF No.2 - 10-12, 9-13 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 17-4-0.

Max Horz 2=491(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 11, 12, 13, 15, 16, 17, 18, 19 except

20=-133(I C 12)

All reactions 250 lb or less at joint(s) 11, 12, 2, 13, 15, 16, 17, 18, Max Grav

19 except 20=285(LC 19)

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

TOP CHORD 2-3=-509/411, 3-4=-407/317, 4-5=-351/279, 5-6=-286/227

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) -0-8-13 to 3-8-0, Exterior(2) 3-8-0 to 17-4-0 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 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.
- 8) Bearing at joint(s) 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 12, 13, 15, 16, 17, 18, 19 except (jt=lb) 20=133.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



September 28,2020

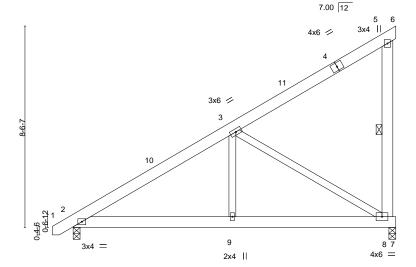


MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal in-juny and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/TP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Wellco/Lot 91 Hidden Lakes/Harnett E14912409 M2 MONOPITCH J0920-4399 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 28 08:03:52 2020 Page 1 Comtech, Inc, ID:I2dlSWmc?rsKCp8e01L4?Rzx8kL-ywN?WwQq3KfXuhxa57KrN8WivxadcDoQIZZP7IyZ9j5 -0-10-8 0-10-8 6-8-15 13-8-0 6-8-15 6-11-1



LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.19 Vert(LL) -0.01 2-9 >999 360 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.16 Vert(CT) -0.03 2-9 >999 240 **BCLL** WB 0.0 Rep Stress Incr YES 0.66 Horz(CT) 0.01 8 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-S Wind(LL) 0.01 2-9 >999 240 Weight: 105 lb FT = 20%

> BRACING-TOP CHORD

BOT CHORD

WFBS

13-8-0

6-11-1

except end verticals.

1 Row at midpt

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

5-8

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

6-8-15

6-8-15

LUMBER-

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

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

5-8: 2x6 SP No.1

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

Max Horz 2=270(LC 12)

Max Uplift 8=-136(LC 12)

Max Grav 8=585(LC 19), 2=581(LC 1)

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

TOP CHORD 2-3=-694/0

BOT CHORD 2-9=-198/599, 8-9=-198/599 WFBS 3-9=0/306, 3-8=-683/224

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-13 to 3-8-0, Interior(1) 3-8-0 to 13-8-0 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 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=136.



Scale = 1:48.8

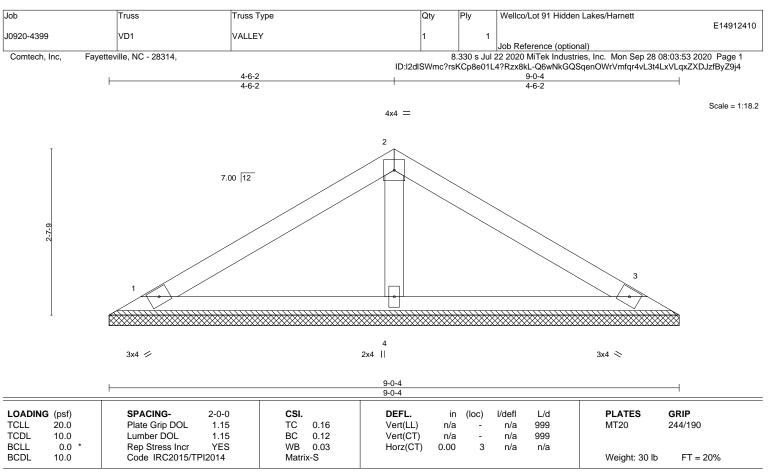
September 28,2020



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LUMBER-

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

BRACING-

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

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

REACTIONS. (size) 1=9-0-4, 3=9-0-4, 4=9-0-4

Max Horz 1=-56(LC 8)

Max Uplift 1=-20(LC 12), 3=-25(LC 13)

Max Grav 1=151(LC 1), 3=151(LC 1), 4=333(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 (3-second gust) 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 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.







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Job Truss Truss Type Qty Ply Wellco/Lot 91 Hidden Lakes/Harnett E14912411 J0920-4399 VD2 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 28 08:03:54 2020 Page 1 Comtech, Inc. ID:I2dlSWmc?rsKCp8e01L4?Rzx8kL-uIUIxcR5ayvF8_4yDXMJSZc4ZkH44HUimt2WBdyZ9j3 Scale = 1:11.8 4x4 = 2 7.00 12 3 3x4 // 2x4 || 3x4 < 5-0-4 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 0.05 Vert(LL) n/a n/a 999 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.03 Vert(CT) n/a n/a 999 **BCLL** WB 0.01 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 **BCDL** 10.0 Matrix-P Weight: 16 lb FT = 20% LUMBER-BRACING-TOP CHORD Structural wood sheathing directly applied or 5-0-4 oc purlins.

BOT CHORD

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

REACTIONS.

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

(size) 1=5-0-4, 3=5-0-4, 4=5-0-4

Max Horz 1=-28(LC 8)

Max Uplift 1=-13(LC 12), 3=-16(LC 13) Max Grav 1=83(LC 1), 3=83(LC 1), 4=150(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 (3-second gust) 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 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.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.







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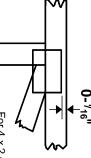


Symbols

PLATE LOCATION AND ORIENTATION



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



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

?

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

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

PLATE SIZE



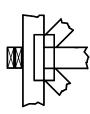
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



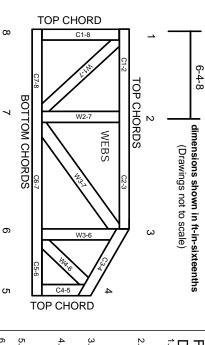
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

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

DSB-89: ANSI/TPI1:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

ESR-1311, ESR-1352, ESR1988 ER-3907, ESR-2362, ESR-1397, ESR-3282

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

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

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

General Safety Notes

Failure to Follow Could Cause Property

- Damage or Personal Injury

 1. 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.
- ω Never exceed the design loading shown and never stack materials on inadequately braced trusses.
- Provide copies of this truss design to the building all other interested parties. designer, erection supervisor, property owner and
- Cut members to bear tightly against each other
- Place plates on each face of truss at each locations are regulated by ANSI/TPI 1. oint and embed fully. Knots and wane at joint

6 5

Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.

7.

- œ Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication
- 9 Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
- 10. Camber is a non-structural consideration and is the camber for dead load deflection responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements
- Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- Do not cut or alter truss member or plate without prior approval of an engineer.
- 17. Install and load vertically unless indicated otherwise.
- 18. Use of green or treated lumber may pose unacceptable project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.