

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J1020-4925
Lot 51 South Creek

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: E15012694 thru E15012714

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

North Carolina COA: C-0844



October 23, 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.

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012694
J1020-4925	A1	HOWE	3	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:21:54 2020 Page 1
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 0-10-8 7-7-0 15-2-0 21-2-0 27-2-0 31-10-4 42-4-0 43-2-8
 0-10-8 7-7-0 7-7-0 6-0-0 6-0-0 4-8-4 10-5-12 0-10-8

5x8 =

Scale = 1:84.1

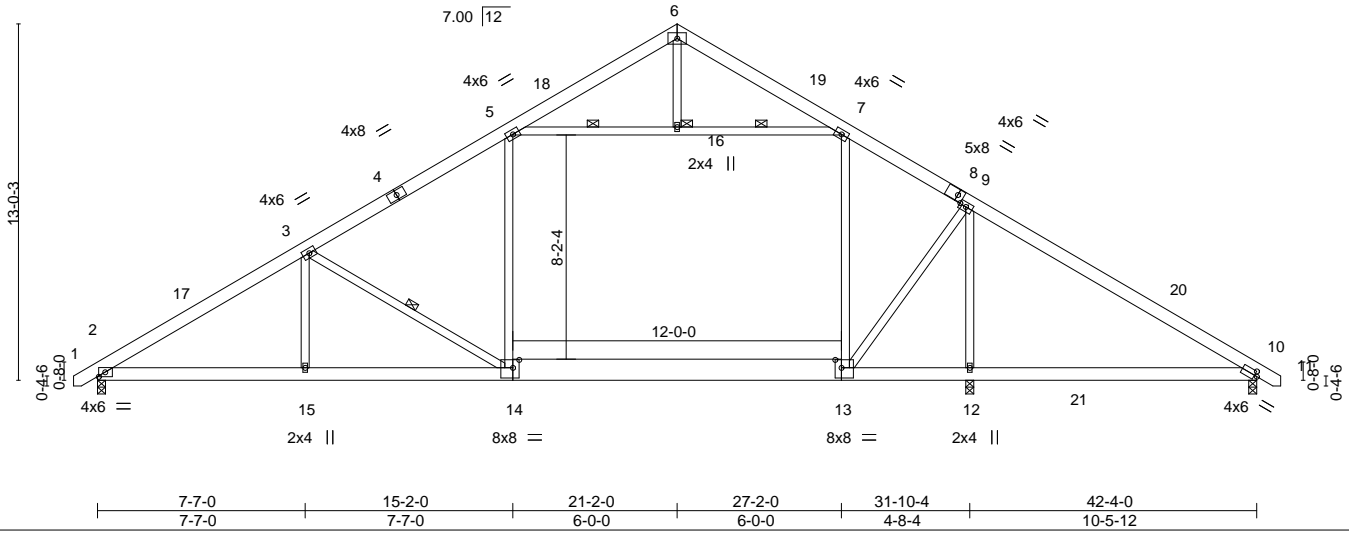


Plate Offsets (X,Y)-- [2:0-2-13,0-2-0], [8:0-2-11,0-2-8], [10:0-1-3,0-2-0], [13:0-2-12,0-3-8], [14:0-2-12,0-3-8]

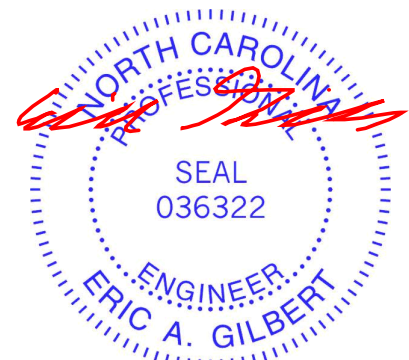
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	Vert(LL)	-0.21	13-14	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.83	Vert(CT)	-0.37	14	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Horz(CT)	0.07	10	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R						
	Code IRC2015/TPI2014						Weight: 324 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-3-4 oc purlins.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 9-5-12 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-14, 5-16, 7-16
	JOINTS 1 Brace at Jt(s): 16

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 10=0-3-8
 Max Horz 2=-355(LC 7)
 Max Uplift 2=-302(LC 9), 12=-566(LC 5), 10=-305(LC 9)
 Max Grav 2=1912(LC 16), 12=821(LC 23), 10=1690(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3160/815, 3-5=-2556/733, 5-6=-481/289, 6-7=-517/290, 7-9=-2621/788, 9-10=-2887/801
 BOT CHORD 2-15=-546/2855, 14-15=-546/2856, 13-14=-279/2296, 12-13=-500/2390, 10-12=-501/2386
 WEBS 7-13=-155/873, 9-13=-388/371, 9-12=-651/355, 5-14=-32/722, 3-14=-792/311, 5-16=-1858/542, 7-16=-1858/542

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; 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 16-9-3, Exterior(2) 16-9-3 to 25-6-13, Interior(1) 25-6-13 to 38-8-0, Exterior(2) 38-8-0 to 43-0-13 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=302, 12=566, 10=305.



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Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012695
J1020-4925	A2	HOWE	2	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:21:55 2020 Page 1
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 0-10-8 7-7-0 15-2-0 21-2-0 27-2-0 36-2-4 42-4-0 43-2-8
 0-10-8 7-7-0 7-7-0 6-0-0 6-0-0 9-0-4 6-1-12 0-10-8

5x8 =

Scale = 1:84.1

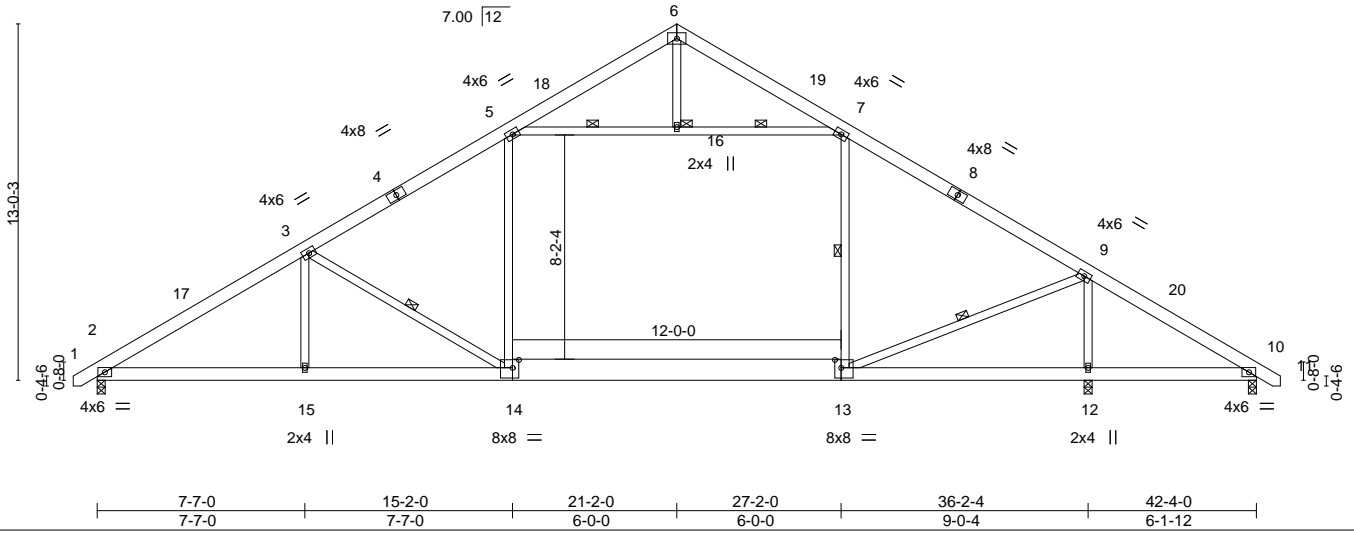


Plate Offsets (X,Y)-- [13:0-2-12,0-3-8], [14:0-2-12,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.90	Vert(LL) -0.25 13-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.27	Vert(CT) -0.43 14-15 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.07 10 n/a n/a		
	Code IRC2015/TPI2014			Weight: 323 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-0 oc purlins.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 9-2-1 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 7-13, 9-13, 3-14, 5-16, 7-16
	JOINTS 1 Brace at Jt(s): 16

REACTIONS. (size) 2=0-3-8, 12=0-3-8, 10=0-3-8
 Max Horz 2=355(LC 8)
 Max Uplift 2=-290(LC 9), 12=-736(LC 5), 10=-490(LC 6)
 Max Grav 2=1892(LC 16), 12=1290(LC 21), 10=1581(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3128/787, 3-5=-2502/705, 5-6=-431/248, 6-7=-485/261, 7-9=-2617/681, 9-10=-2711/858
 BOT CHORD 2-15=-521/2829, 14-15=-522/2829, 13-14=-256/2247, 12-13=-706/2272, 10-12=-705/2270
 WEBS 7-13=-165/717, 9-13=-441/728, 9-12=-1150/657, 5-14=-30/718, 3-14=-796/309, 5-16=-1833/559, 7-16=-1833/559

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; 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 16-9-3, Exterior(2) 16-9-3 to 25-6-13, Interior(1) 25-6-13 to 38-8-0, Exterior(2) 38-8-0 to 43-0-13 zone; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=290, 12=736, 10=490.



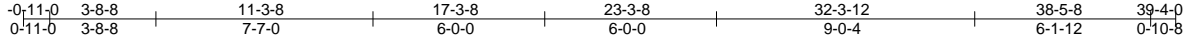
October 23, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012696
J1020-4925	A3	COMMON	5	1		

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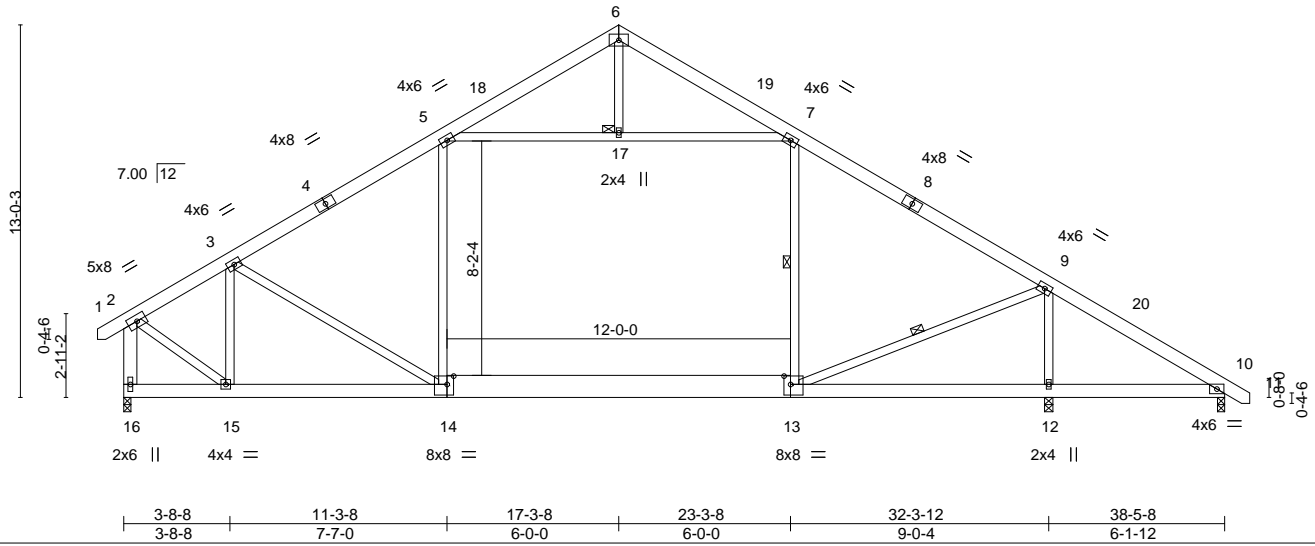


Plate Offsets (X,Y)-- [13:0-2-12,0-3-8], [14:0-2-12,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.15	13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.21	13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.85	Horz(CT) 0.03	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R						
							Weight: 315 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1 *Except*
 13-14: 2x10 SP No.1
 WEBS 2x4 SP No.2 *Except*
 2-16: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 7-13, 9-13
 JOINTS 1 Brace at Jt(s): 17

REACTIONS.

(size) 16=0-3-0, 12=0-3-8, 10=0-3-0
 Max Horz 16=-397(LC 7)
 Max Uplift 16=-244(LC 9), 12=-632(LC 5), 10=-506(LC 6)
 Max Grav 16=1651(LC 16), 12=1714(LC 17), 10=902(LC 16)

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

TOP CHORD 2-3=-1382/432, 3-5=-1807/549, 5-6=-441/243, 6-7=-453/250, 7-9=-1954/536, 9-10=-1509/891, 2-16=-1609/491
 BOT CHORD 15-16=-312/360, 14-15=-308/1400, 13-14=-173/1658, 12-13=-734/1244, 10-12=-734/1243
 WEBS 7-13=-175/464, 9-13=-341/1156, 9-12=-1622/570, 5-14=0/420, 2-15=-285/1365, 3-14=-32/439, 3-15=-733/219, 5-17=-1268/439, 7-17=-1268/439

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-5 to 3-8-8, Interior(1) 3-8-8 to 12-10-11, Exterior(2) 12-10-11 to 21-8-5, Interior(1) 21-8-5 to 34-9-8, Exterior(2) 34-9-8 to 39-2-5 zone; end vertical left exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=244, 12=632, 10=506.



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WARNING - 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012697
J1020-4925	A3GE	FINK	1	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:21:58 2020 Page 1
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 0-11-0 5-5-3 14-3-8 17-3-8 23-5-3 32-6-0 38-5-8 39-4-0
 0-11-0 5-5-3 8-10-5 3-0-0 6-1-11 9-0-13 5-11-8 0-10-8

Scale = 1:76.0

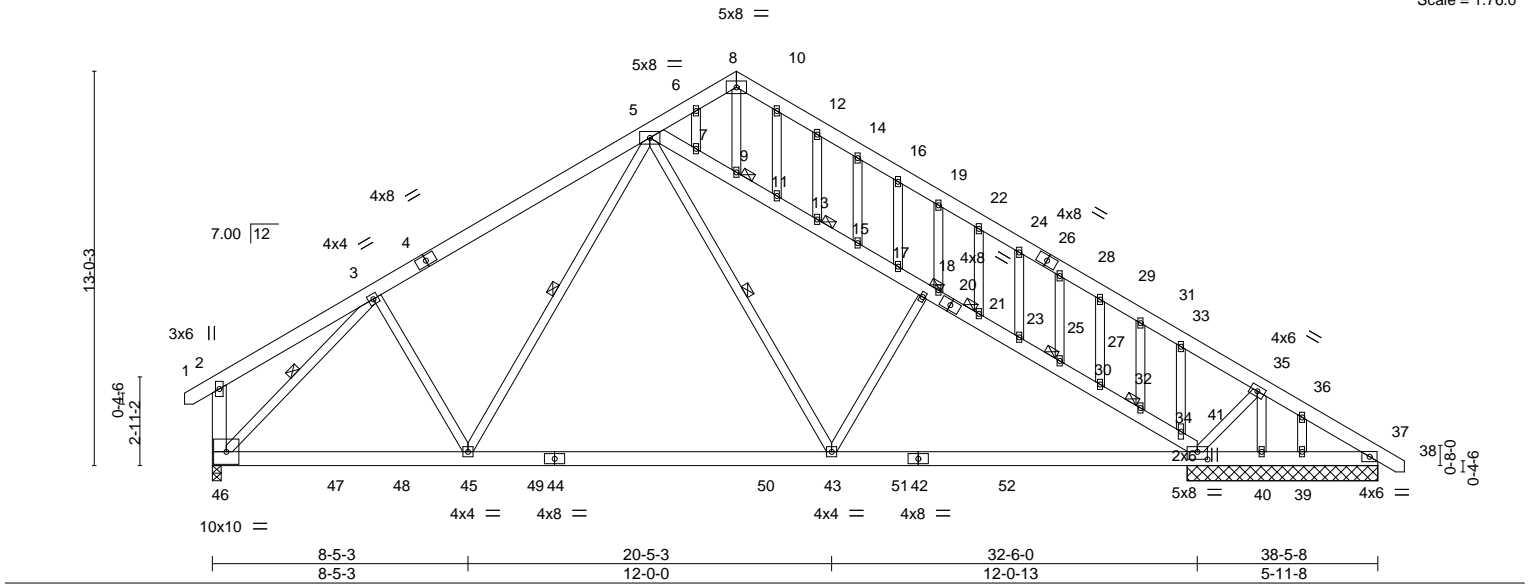


Plate Offsets (X,Y)-- [41:0-4-0,0-3-0]

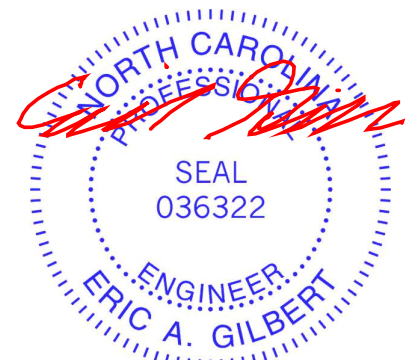
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.29	43-45	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.40	43-45	>960	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.57	Horz(CT) 0.04	37	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R					Weight: 381 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-9-12 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-2-6 oc bracing.
WEBS 2x4 SP No.2 *Except* 2-46: 2x6 SP No.1	WEBS 1 Row at midpt 5-45, 5-43, 3-46
	JOINTS 1 Brace at Jt(s): 9, 18, 13, 23, 27, 32

REACTIONS. All bearings 6-3-8 except (jt=length) 46=0-3-8.
 (lb) - Max Horz 46=-495(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 40 except 39=-136(LC 10), 46=-394(LC 9), 41=-880(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 37 except 40=280(LC 10), 39=269(LC 17), 46=1608(LC 16), 41=1464(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-211/299, 3-5=-1729/1463, 5-6=-371/292, 6-8=-320/291, 8-10=-284/269, 10-12=-305/252, 12-14=-312/221, 14-16=-336/200, 16-19=-323/139, 19-22=-283/49, 22-24=-313/22, 24-28=-343/6, 28-29=-376/4, 29-31=-407/2, 31-33=-433/0, 33-35=-453/180, 35-36=-330/90, 36-37=-372/165, 5-7=-1626/1566, 7-9=-1626/1557, 9-11=-1592/1502, 11-13=-1597/1511, 13-15=-1610/1532, 15-17=-1619/1547, 17-18=-1648/1599, 18-20=-1645/1594, 20-23=-1688/1677, 23-25=-1699/1694, 25-27=-1710/1712, 27-30=-1722/1732, 30-32=-1730/1747, 32-34=-1753/1767, 34-41=-1929/1931, 2-46=-269/285
 BOT CHORD 45-46=-817/1582, 43-45=-561/1371, 41-43=-1109/1814, 40-41=-153/325, 39-40=-153/325, 37-39=-153/325
 WEBS 3-45=-152/326, 18-43=-459/391, 5-45=-491/487, 5-43=-838/901, 33-34=-382/303, 3-46=-1724/1159

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 40 except (jt=lb) 39=136, 46=394, 41=880.
 - 6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012698
J1020-4925	A4	ROOF TRUSS	6	1		

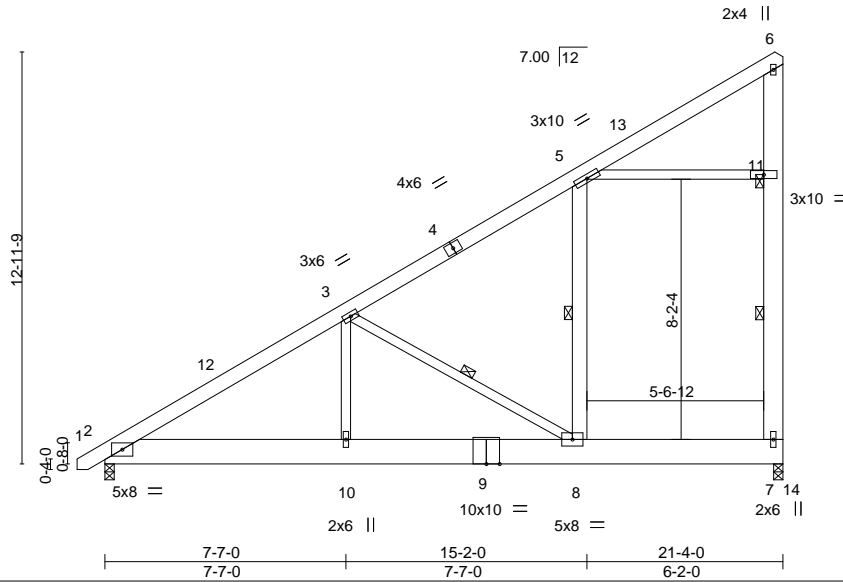
Comtech, Inc., Fayetteville, NC - 28314,

8,330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:21:59 2020 Page 1

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-0-10-8 7-7-0 15-2-0 21-0-15 21-4-0
0-10-8 7-7-0 7-7-0 5-10-15 0-3-1

Scale = 1:72.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.93	Vert(LL) 0.32 8-10 >781 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.77	Vert(CT) -0.53 8-10 >471 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 225 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x4 SP No.2 *Except*
5-8: 2x6 SP No.1, 6-7: 2x8 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS 1 Row at midpt 3-8, 5-8, 7-11
JOINTS 1 Brace at Jt(s): 11

REACTIONS.

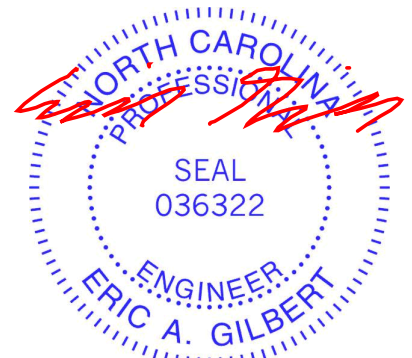
(size) 2=0-3-8, 7=0-3-8
Max Horz 2=476(LC 9)
Max Uplift 2=-44(LC 9), 7=-301(LC 9)
Max Grav 2=907(LC 16), 7=1129(LC 16)

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

TOP CHORD 2-3=-1441/99, 3-5=-349/77, 5-6=-296/590
BOT CHORD 2-10=-522/1364, 8-10=-522/1364
WEBS 3-10=-165/753, 3-8=-1402/536, 5-11=-583/217, 7-11=-498/257, 6-11=-497/257

NOTES-

- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 16-7-9, Exterior(2) 16-7-9 to 21-0-6 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 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.
- 3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 7=301.



October 23, 2020

WARNING - 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



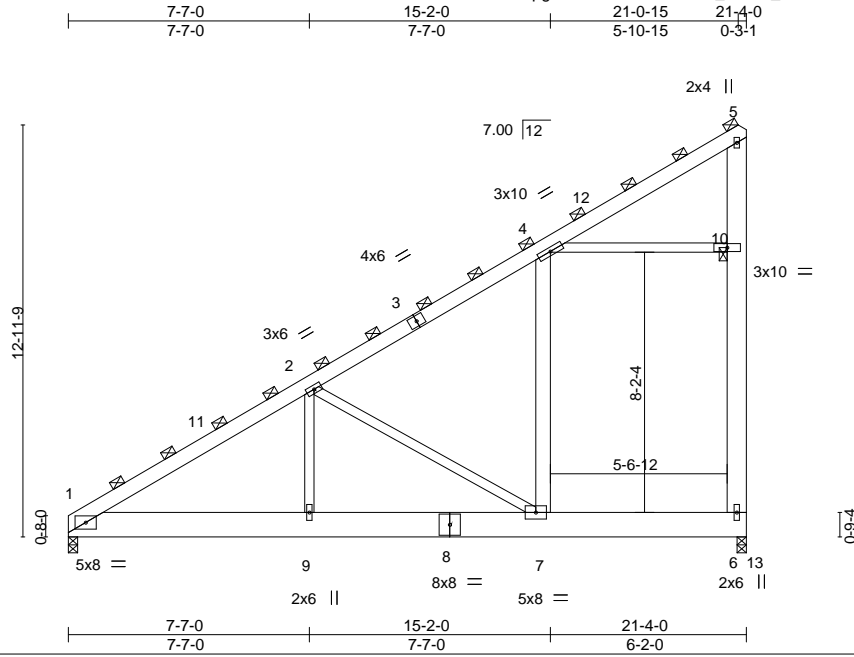
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012699
J1020-4925	A4A	ROOF TRUSS	1	2	Job Reference (optional)	

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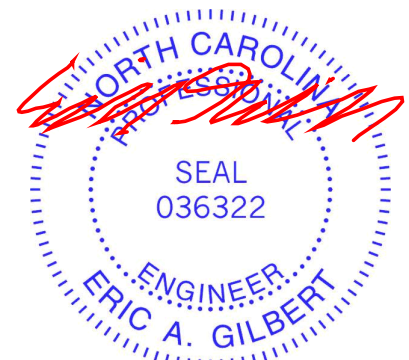
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	3-3-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) 0.26 7-9 >960 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.60	Vert(CT) -0.43 7-9 >580 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-R	Horz(CT) 0.01 6 n/a n/a	Weight: 447 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD 2x10 SP No.1	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x4 SP No.2 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
4-7: 2x6 SP No.1, 5-6: 2x8 SP No.1	JOINTS 1 Brace at Jt(s): 5, 10

REACTIONS. (size) 1=0-3-8, 6=0-3-8
 Max Horz 1=755(LC 9)
 Max Uplift 1=-46(LC 9), 6=-490(LC 9)
 Max Grav 1=1394(LC 16), 6=1837(LC 16)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2349/182, 2-4=-568/125, 4-5=-484/958
 BOT CHORD 1-9=-871/2214, 7-9=-871/2214, 6-7=-103/275
 WEBS 2-9=-283/1221, 2-7=-2276/897, 4-7=-117/264, 4-10=-949/356, 6-10=-809/420,
 5-10=-807/419

- NOTES-**
- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BC DL=5.0psf; 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 16-7-9, Exterior(2) 16-7-9 to 21-0-6 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 6=490.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



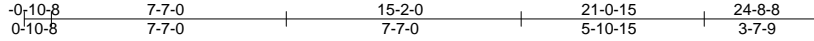
October 23, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012700
J1020-4925	A5	GABLE	3	1		

Comtech, Inc., Fayetteville, NC - 28314,

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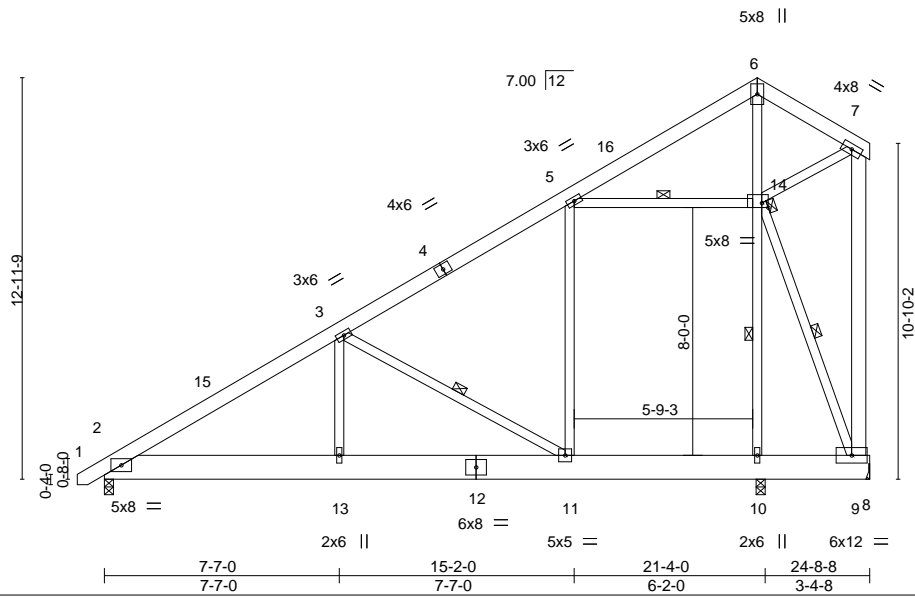


Plate Offsets (X,Y)-- [14:0-2-8,0-1-12]

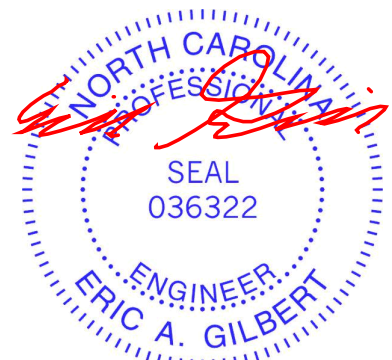
LOADING (psf)	SPACING-	CS.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.06	11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.13	11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.57	Horz(CT) 0.01	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Attic -0.03	10-11	2771	360	Weight: 264 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 7-9: 2x6 SP No.1	WEBS 1 Row at midpt 3-11, 10-14, 5-14, 9-14
	JOINTS 1 Brace at Jt(s): 14

REACTIONS. (size) 2=0-3-8, 10=0-3-8, 9=Mechanical
 Max Horz 2=432(LC 9)
 Max Uplift 2=-26(LC 9), 9=-82(LC 23)
 Max Grav 2=953(LC 17), 10=1836(LC 17), 9=118(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1385/63, 3-5=-669/0, 5-6=-226/1323, 6-7=-192/1271, 7-9=-160/1151
 BOT CHORD 2-13=-392/1319, 11-13=-392/1319, 10-11=-114/556, 9-10=-114/554
 WEBS 3-13=0/330, 3-11=-914/324, 5-11=0/395, 10-14=-835/181, 6-14=-1545/401, 5-14=-1595/306, 7-14=-1177/218, 9-14=-1555/316

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 16-8-2, Exterior(2) 16-8-2 to 24-4-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Ceiling dead load (10.0 psf) on member(s). 5-14; Wall dead load (5.0psf) on member(s). 5-11, 10-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-11
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
 - Attic room checked for L/360 deflection.



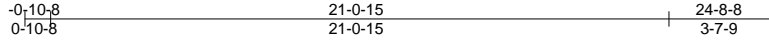
October 23, 2020

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012701
J1020-4925	A5GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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5x5 =

Scale = 1:78.5

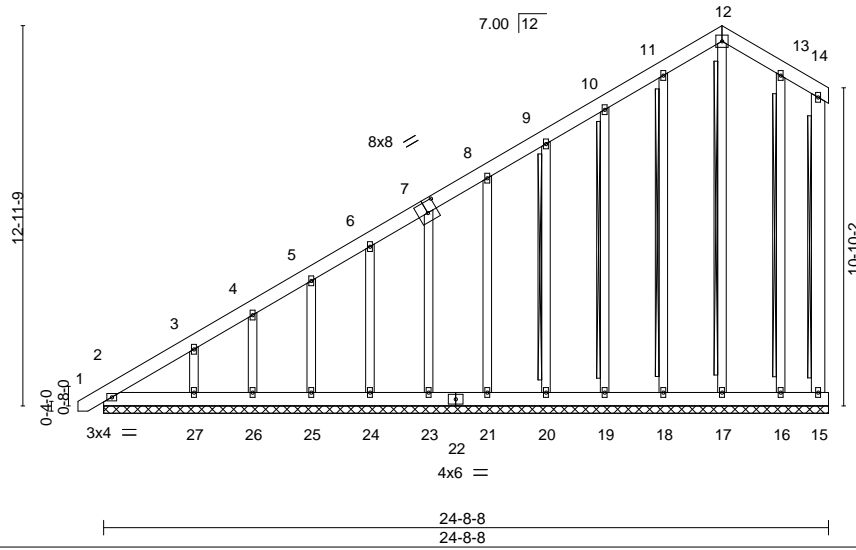


Plate Offsets (X,Y)-- [7:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00	1	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.16	Horz(CT) -0.00	15	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R					Weight: 269 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 14-15, 12-17, 11-18, 10-19, 9-20, 13-16
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 24-8-8.
(lb) - Max Horz 2=629(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 15, 17, 18, 24, 26, 16 except 19=-106(LC 9), 20=-102(LC 9), 21=-105(LC 9), 23=-104(LC 9), 25=-105(LC 9), 27=-187(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 15, 17, 18, 19, 20, 21, 23, 24, 25, 26, 16 except 2=294(LC 9), 27=282(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-673/497, 3-4=-551/390, 4-5=-483/342, 5-6=-409/282, 6-7=-340/228, 7-8=-269/175

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2'-0-0 oc.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15, 17, 18, 24, 26, 16 except (jt=lb) 19=106, 20=102, 21=105, 23=104, 25=105, 27=187.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - Attic room checked for L/360 deflection.



October 23, 2020

WARNING - 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

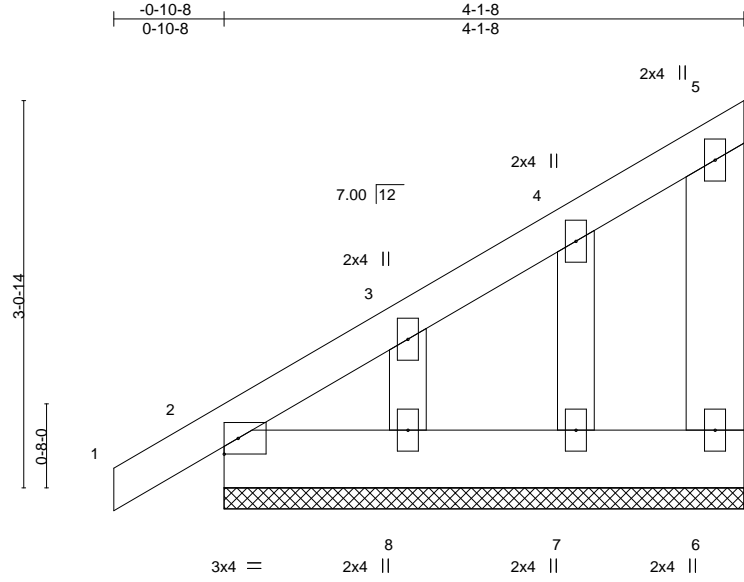


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012702
J1020-4925	A6GE	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:03 2020 Page 1
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 4-1-8
 4-1-8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	Vert(LL) 0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.00	Vert(CT) -0.00	1	n/r	90		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 27 lb	FT = 20%
	Code IRC2015/TPI2014							

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-1-8.
 (lb) - Max Horz 2=149(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 6, 7, 8
 Max Grav All reactions 250 lb or less at joint(s) 6, 2, 7, 8

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Gable studs spaced at 1-4-0 oc.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 7, 8.



October 23, 2020

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

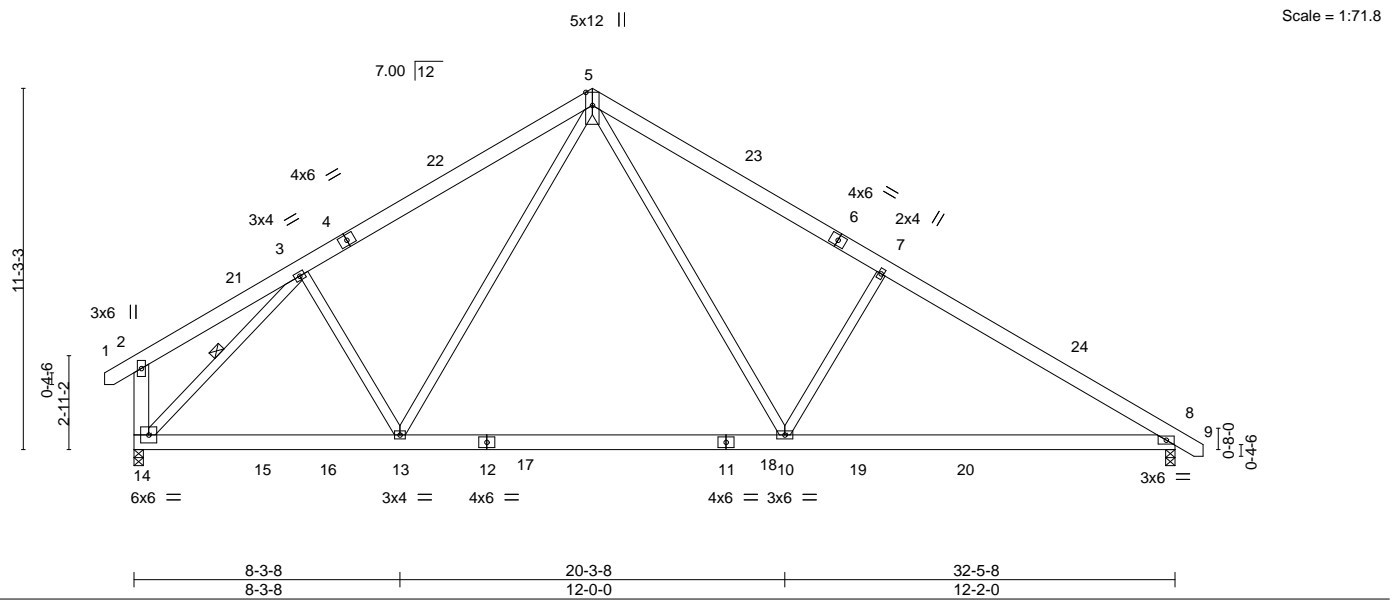
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012703
J1020-4925	B1	FINK	7	1		

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 0-11-0 5-3-8 14-3-8 23-3-8 32-5-8 33-4-0
 0-11-0 5-3-8 9-0-0 9-0-0 9-2-0 0-10-8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.70	Vert(LL) -0.29 10-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.62	Vert(CT) -0.39 10-13 >977 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.04 8 n/a n/a		
	Code IRC2015/TPI2014			Weight: 237 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-12 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 3-14
2-14: 2x6 SP No.1	

REACTIONS. (size) 14=0-3-8, 8=0-3-8
 Max Horz 14=-349(LC 7)
 Max Uplift 14=-180(LC 9), 8=-202(LC 10)
 Max Grav 14=1547(LC 16), 8=1551(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-5=-1651/599, 5-7=-2100/693, 7-8=-2299/630
 BOT CHORD 13-14=-213/1422, 10-13=-74/1233, 8-10=-368/1868
 WEBS 3-13=-81/293, 5-13=-116/457, 5-10=-233/1208, 7-10=-606/362, 3-14=-1664/362

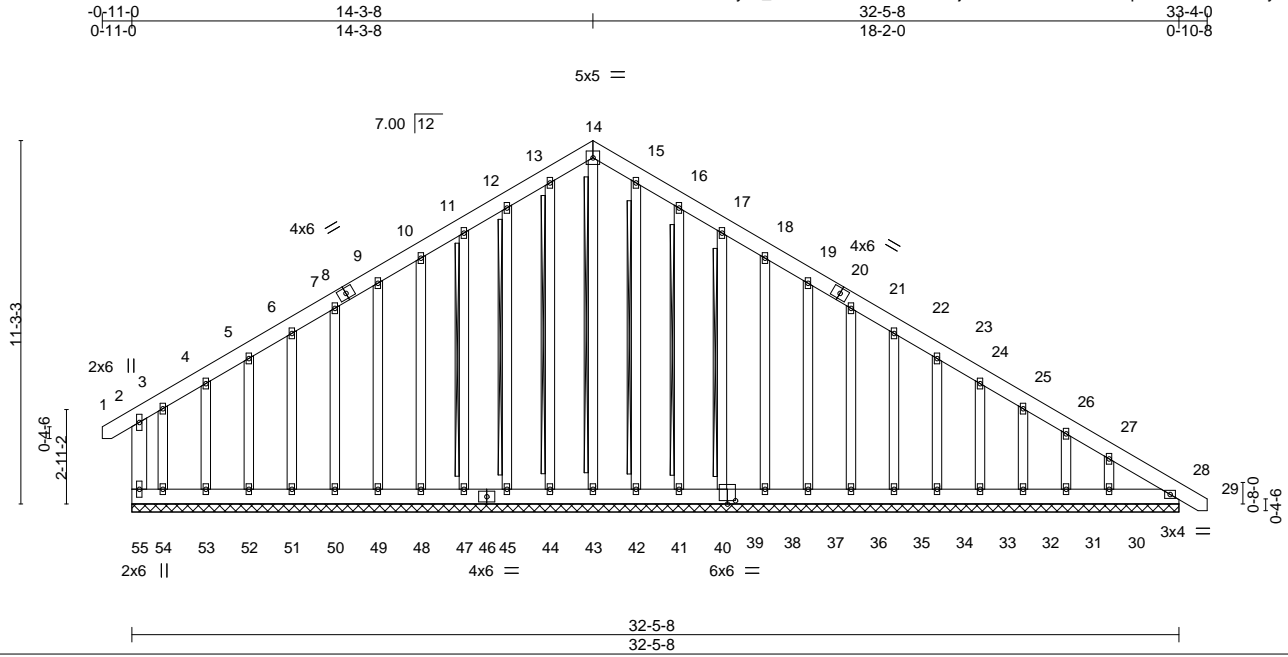
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 9-10-11, Exterior(2) 9-10-11 to 18-8-5, Interior(1) 18-8-5 to 28-9-8, Exterior(2) 28-9-8 to 33-2-5 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 14=180, 8=202.



Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012704
J1020-4925	B1GE	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:06 2020 Page 1
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Scale = 1:71.4

Plate Offsets (X,Y)-- [39:0-0-0,0-2-12], [39:0-3-0,0-1-4], [40:0-1-12,0-0-0]

LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) 0.00	28	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) 0.00	28	n/r	90		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.01	28	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R					Weight: 375 lb	FT = 20%

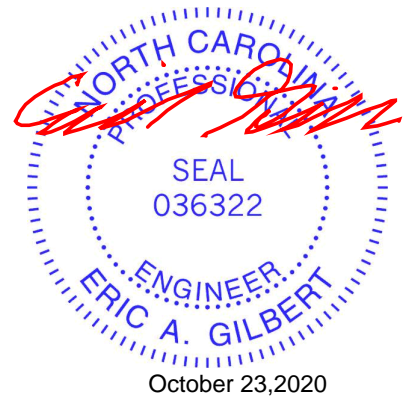
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x6 SP No.1
 OTHERS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 14-43, 13-44, 12-45, 11-47, 15-42, 16-41, 17-40
 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 32-5-8.
 (lb) - Max Horz 55=349(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 43, 45, 47, 48, 49, 50, 51, 52, 53, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30 except 55=290(LC 7), 28=101(LC 6), 54=361(LC 6)
 Max Grav All reactions 250 lb or less at joint(s) 28, 43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30 except 55=358(LC 6), 54=391(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 7-9=193/261, 9-10=231/307, 10-11=270/354, 11-12=313/405, 12-13=351/452, 13-14=341/436, 14-15=341/436, 15-16=351/452, 16-17=313/405, 17-18=270/354, 18-19=231/307, 19-21=193/261, 27-28=277/255
 BOT CHORD 54-55=218/250, 53-54=218/250, 52-53=218/250, 51-52=218/250, 50-51=218/250, 49-50=218/250, 48-49=218/250, 47-48=218/250, 45-47=218/250, 44-45=218/250, 43-44=218/250, 42-43=218/250, 41-42=218/250, 40-41=218/250, 38-40=218/250, 37-38=218/250, 36-37=218/250, 35-36=218/250, 34-35=218/250, 33-34=218/250, 32-33=218/250, 31-32=218/250, 30-31=218/250, 28-30=218/250

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BC DL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-5 to 3-7-8, Exterior(2) 3-7-8 to 9-10-11, Corner(3) 9-10-11 to 18-8-5, Exterior(2) 18-8-5 to 28-9-8, Corner(3) 28-9-8 to 33-2-5 zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 1'-4'-0 oc.
 - * 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.



Continued on page 2

WARNING - 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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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012704
J1020-4925	B1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:06 2020 Page 2
 ID:5o4QdByza_NEfNwWxbr9SOztnYz-6rjSE6cw3xDJ?Lvx10sWpBwSIQ3bEXZslHyFMayQb0?

NOTES-

- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 43, 45, 47, 48, 49, 50, 51, 52, 53, 42, 41, 40, 38, 37, 36, 35, 34, 33, 32, 31, 30 except (jt=lb) 55=290, 28=101, 54=361.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

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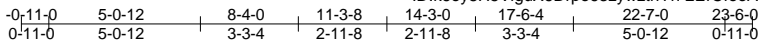
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012705
J1020-4925	C1	ATTIC	2	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:08 2020 Page 1

ID:k6oy8H5VlguX6Drpe63zywztnYn-2ErCfoeAbZT1Ee3K8Ru_uc?fUDcTIRs9CbRLQTyQb?z



6x8 =

Scale = 1:77.0

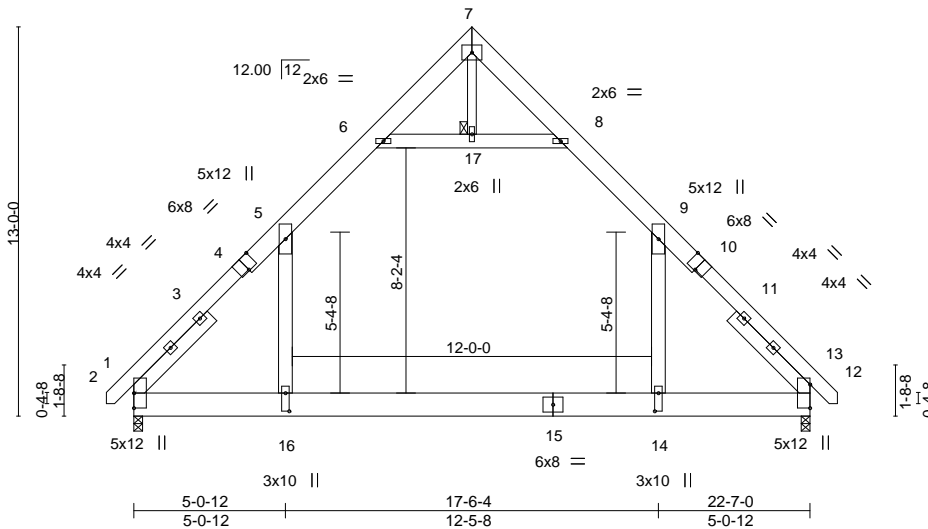


Plate Offsets (X,Y)-- [4:0-4-0,Edge], [10:0-4-0,Edge], [14:0-7-4,0-1-8], [16:0-7-4,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL)	-0.19 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT)	-0.31 14-16	>861	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Attic	-0.13 14-16	1176	360	Weight: 248 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP No.1 *Except*
 1-4,10-13: 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 7-17: 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 - 3-8-0, Right 2x6 SP No.1 -H 3-8-0

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 17

REACTIONS.

(size) 2=0-3-8, 12=0-3-8
 Max Horz 2=-422(LC 5)
 Max Uplift 2=-42(LC 10), 12=-42(LC 9)
 Max Grav 2=1529(LC 18), 12=1529(LC 17)

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

TOP CHORD 2-5=-2109/129, 5-6=-1132/274, 8-9=-1132/274, 9-12=-2108/128
 BOT CHORD 2-16=0/1215, 14-16=0/1215, 12-14=0/1215
 WEBS 6-17=-1347/410, 8-17=-1347/410, 5-16=-2/1063, 9-14=-1/1063

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- * 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.
- Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-17, 8-17; Wall dead load (5.0psf) on member(s).5-16, 9-14
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-16
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
- Attic room checked for L/360 deflection.



October 23, 2020

WARNING - 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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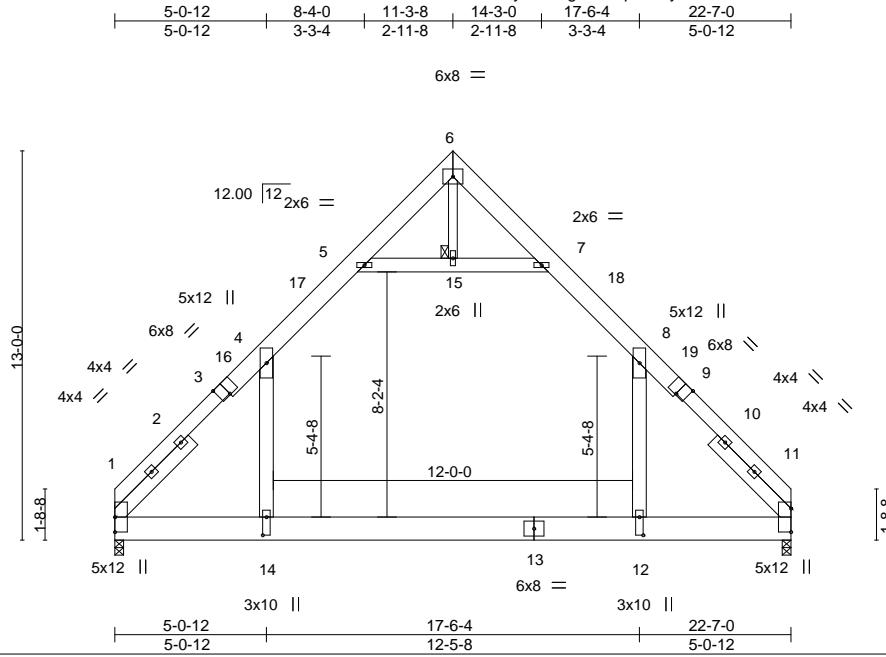
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012706
J1020-4925	C2	ATTIC	9	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:09 2020 Page 1

ID:k6oy8H5VlguX6Drpe63zywztnYn-WQObt7eoMsbuseoWi8QDRpYqEdyRu6JRFVvyvYQb?y



Scale = 1:77.0

Plate Offsets (X,Y)-- [3:0-4-0,Edge], [9:0-4-0,Edge], [12:0-7-4,0-1-8], [14:0-7-4,0-1-8]

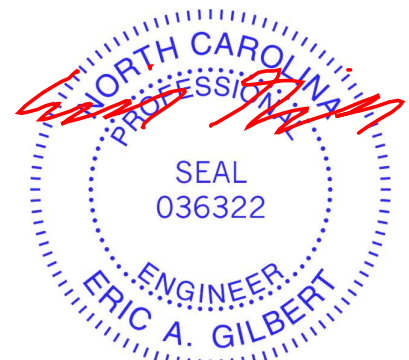
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.69	Vert(LL)	-0.19 12-14	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.70	Vert(CT)	-0.32 12-14	>860	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Horz(CT)	0.01 11	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Attic	-0.13 12-14	1176	360	Weight: 243 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1 *Except* 1-3,9-11: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-11-5 oc purlins.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 6-15: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 15
SLIDER Left 2x6 SP No.1 -H 3-8-0, Right 2x6 SP No.1 -H 3-8-0	

REACTIONS. (size) 1=0-3-8, 11=0-3-8
 Max Horz 1=339(LC 5)
 Max Grav 1=1508(LC 18), 11=1508(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-4=-2107/60, 4-5=-1129/253, 7-8=-1128/253, 8-11=-2106/60
 BOT CHORD 1-14=0/1191, 12-14=0/1191, 11-12=0/1191
 WEBS 5-15=-1360/367, 7-15=-1360/367, 4-14=0/1064, 8-12=0/1064

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 6-10-11, Exterior(2) 6-10-11 to 15-8-5, Interior(1) 15-8-5 to 18-2-3, Exterior(2) 18-2-3 to 22-7-0 zone; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s).4-14, 8-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
 - Attic room checked for L/360 deflection.



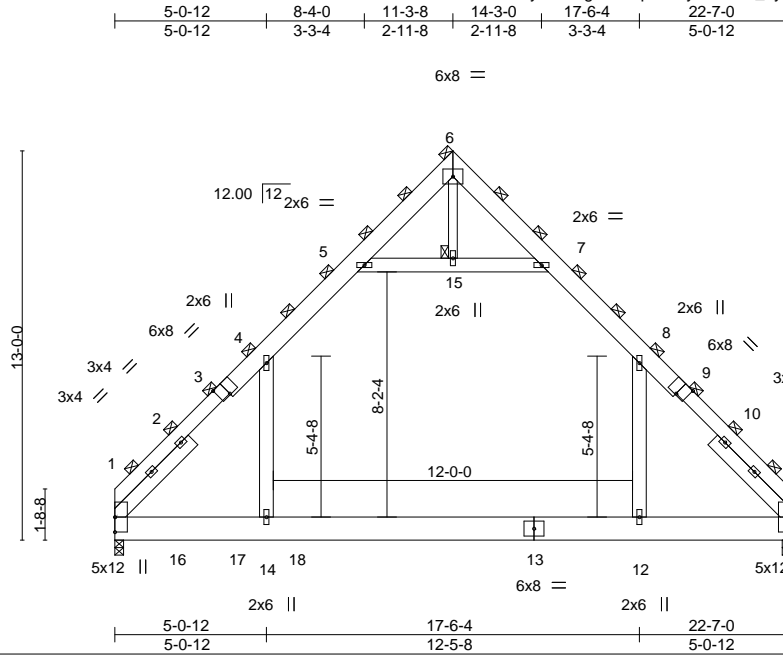
October 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012707
J1020-4925	C2-GR	ATTIC	1	2		

Comtech, Inc., Fayetteville, NC - 28314,

8,330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:10 2020 Page 1

ID:k6oy8H5VlguX6Drpe63zywztnYn_dy4z4TfQ6AjUyDiGsxsZ150b1KyAM?SgwwSUMyQb?x



Scale = 1:77.0

Plate Offsets (X,Y)-- [3:0-4:0,Edge], [9:0-4:0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.58	Vert(LL) -0.14	12-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.57	Vert(CT) -0.23	12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.11	Horz(CT) 0.01	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Attic -0.09	12-14	1587	360		
							Weight: 486 lb	FT = 20%

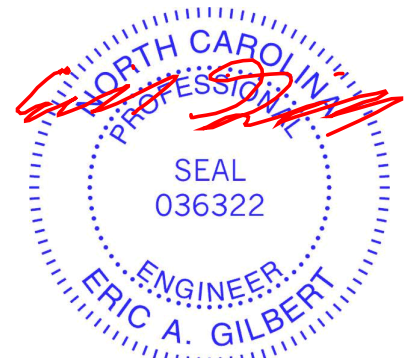
LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1 *Except* 1-3,9-11: 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.) (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 6-15: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 6, 15
SLIDER Left 2x6 SP No.1 -H 3-8-0, Right 2x6 SP No.1 -H 3-8-0	

REACTIONS. (size) 1=0-3-8, 11=0-3-8
Max Horz 1=508(LC 3)
Max Grav 1=2270(LC 2), 11=2263(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-4=-3161/0, 4-5=-1694/157, 5-6=-192/305, 6-7=-184/306, 7-8=-1693/167,
8-11=-3160/0
BOT CHORD 1-14=0/1787, 12-14=0/1787, 11-12=0/1787
WEBS 5-15=-2042/222, 7-15=-2042/222, 4-14=-30/1520, 8-12=0/1536

- NOTES-**
- 2-ply truss to be connected together with 10d (0.148"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCdL=6.0psf; BCdL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-15, 7-15; Wall dead load (5.0psf) on member(s).4-14, 8-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 99 lb down and 101 lb up at 2-0-12, and 99 lb down and 101 lb up at 4-0-12, and 99 lb down and 101 lb up at 6-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - Attic room checked for L/360 deflection.

LOAD CASE(S) Standard



October 23, 2020

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012707
J1020-4925	C2-GR	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:10 2020 Page 2
 ID:k6oy8H5VlguX6Drpe63zywztnYn_dy4TfQ6AjUyDiGsxSz150b1KyAM?SgvwSUMyQb?x

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-14=-30, 12-14=-60, 11-12=-30, 1-4=-90, 4-5=-120, 5-6=-90, 6-7=-90, 7-8=-120, 8-11=-90, 5-7=-30

Drag: 4-14=-15, 8-12=-15

Concentrated Loads (lb)

Vert: 16=-99(B) 17=-99(B) 18=-99(B)

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012708
J1020-4925	D1	Common	4	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:11 2020 Page 1
 ID:ccW1PrxLpgFN2DLKnuKwwAztnZ_-SpWlIpg3tUrc56ovqZShWEdGgRihvp9cvZf00oyQb?w
 12-0-0 12-10-8 6-0-0 0-10-8

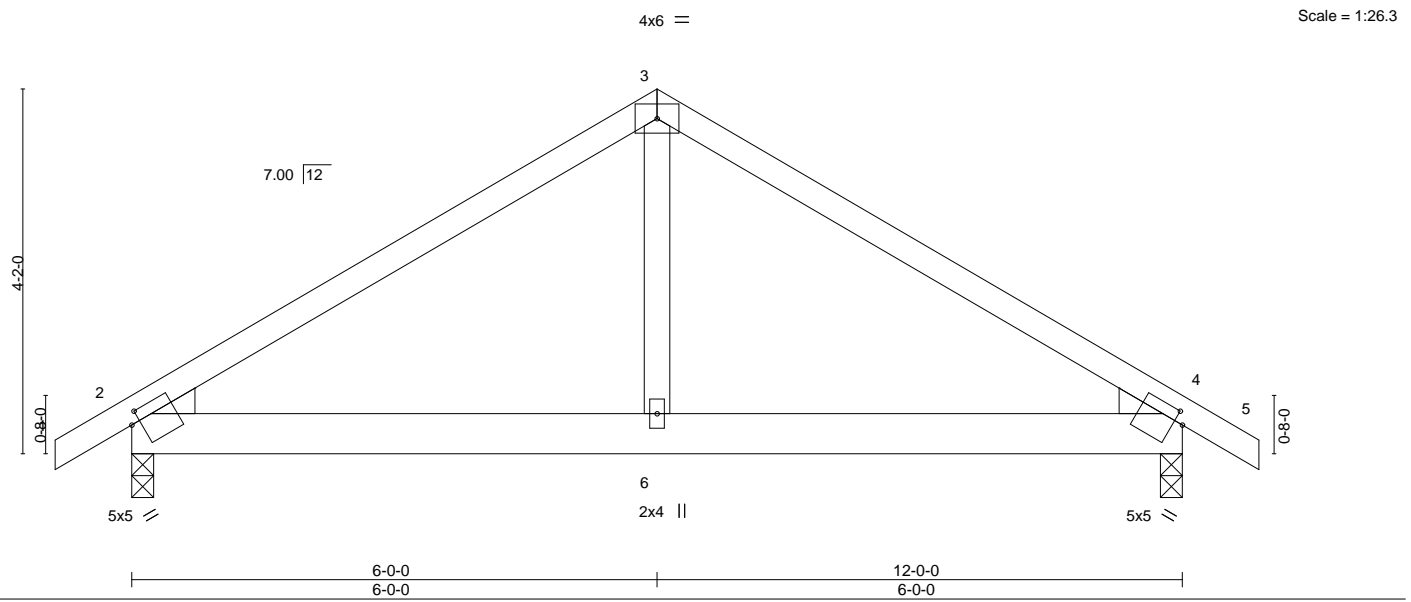


Plate Offsets (X,Y)-- [2:0-1-3,0-1-8], [4:0-1-3,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	Vert(LL)	0.03	2-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(CT)	-0.02	2-6	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R					Weight: 59 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x4 SP No.3 , Right: 2x4 SP No.3

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

REACTIONS. (size) 2=0-3-0, 4=0-3-0
 Max Horz 2=112(LC 8)
 Max Uplift 2=-127(LC 6), 4=-127(LC 5)
 Max Grav 2=530(LC 1), 4=530(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-611/712, 3-4=-611/712
 BOT CHORD 2-6=-469/439, 4-6=-469/439
 WEBS 3-6=-480/192

- NOTES-**
- Unbalanced roof live loads HAVING been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=127, 4=127.



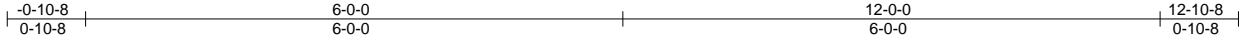
October 23,2020

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012709
J1020-4925	D1GE	GABLE	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

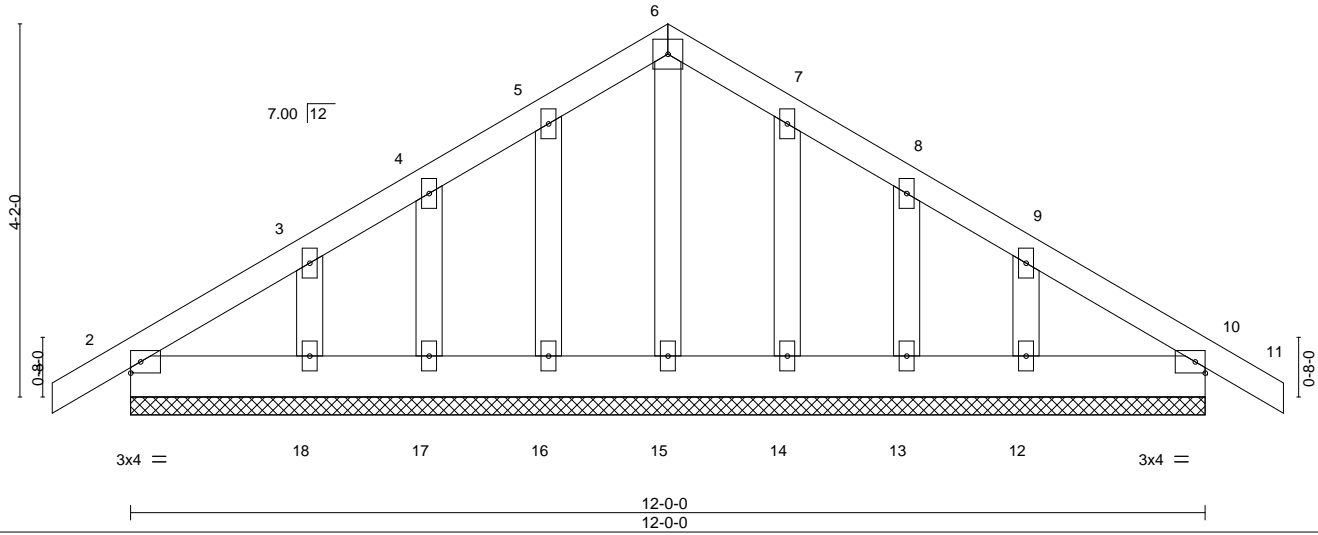
8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:12 2020 Page 1

ID:ccW1PrxLpgFN2DLKnuKwwAztnZ_-x?4jV9hhenzTJGM5NHzw3SAVer75eHrl7DPZZEyQb?v



4x4 =

Scale = 1:25.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	10	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	10	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	10	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R						Weight: 74 lb	FT = 20%

LUMBER-

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

BRACING-

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

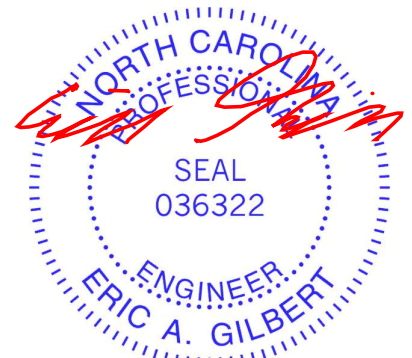
REACTIONS.

All bearings 12-0-0.
 (lb) - Max Horz 2=139(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 10, 16, 17, 14, 13 except 18=-108(LC 9), 12=-105(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 2, 10, 15, 16, 17, 18, 14, 13, 12

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 1-4-0 oc.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10, 16, 17, 14, 13 except (jt=lb) 18=108, 12=105.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



October 23, 2020

WARNING - 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road
 Edenton, NC 27932

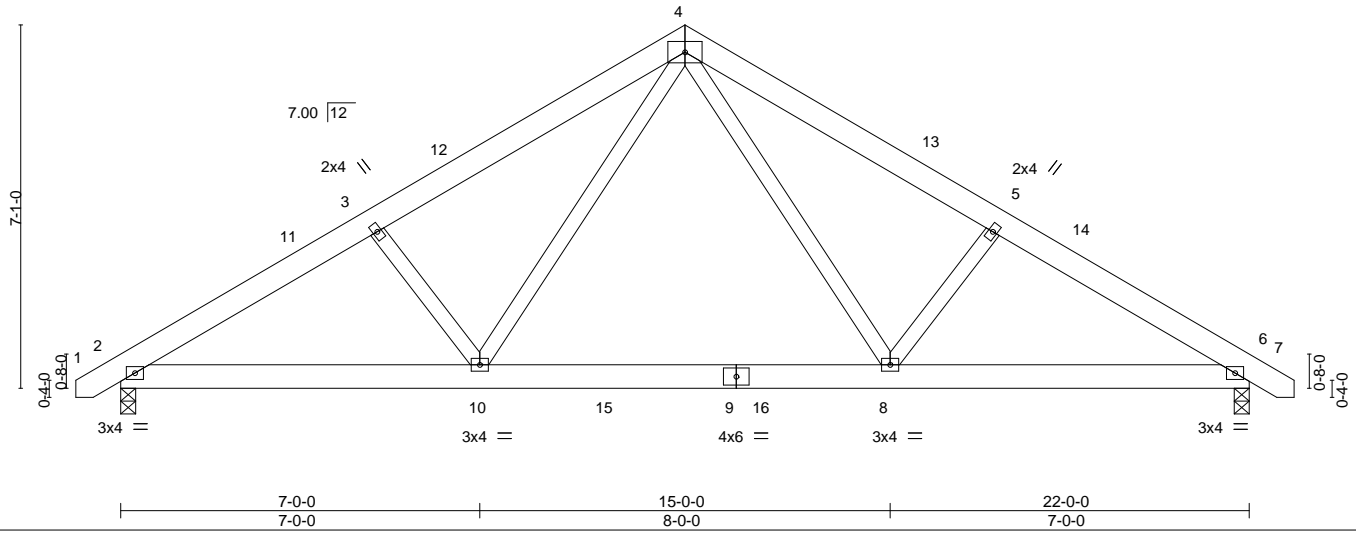
Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012710
J1020-4925	G1	COMMON	5	1		

Comtech, Inc., Fayetteville, NC - 28314, 8,330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:13 2020 Page 1
 ID:ccW1PrxLpgFN2DLKNuKwwAztnZ_PCe5iVhJP55KLPxHx_U9bfjeYEPUNiPuMt865gyQb?u
 Job Reference (optional)



5x8 =

Scale = 1:44.9



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(LL) -0.06 8-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.13	Vert(CT) -0.10 8-10 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.02 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 148 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=190(LC 7)
 Max Uplift 2=135(LC 9), 6=135(LC 10)
 Max Grav 2=938(LC 16), 6=938(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1399/466, 3-4=-1293/487, 4-5=-1293/487, 5-6=-1399/466
 BOT CHORD 2-10=-290/1257, 8-10=-93/813, 6-8=-290/1115
 WEBS 4-8=-128/550, 5-8=-325/225, 4-10=-128/550, 3-10=-325/225

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-8 to 3-8-5, Interior(1) 3-8-5 to 6-7-3, Exterior(2) 6-7-3 to 15-4-13, Interior(1) 15-4-13 to 18-3-11, Exterior(2) 18-3-11 to 22-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=135, 6=135.

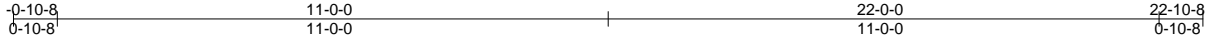


Job J1020-4925	Truss G1GE	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Lot 51 South Creek Job Reference (optional)	E15012711
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Comtech, Inc., Fayetteville, NC - 28314,

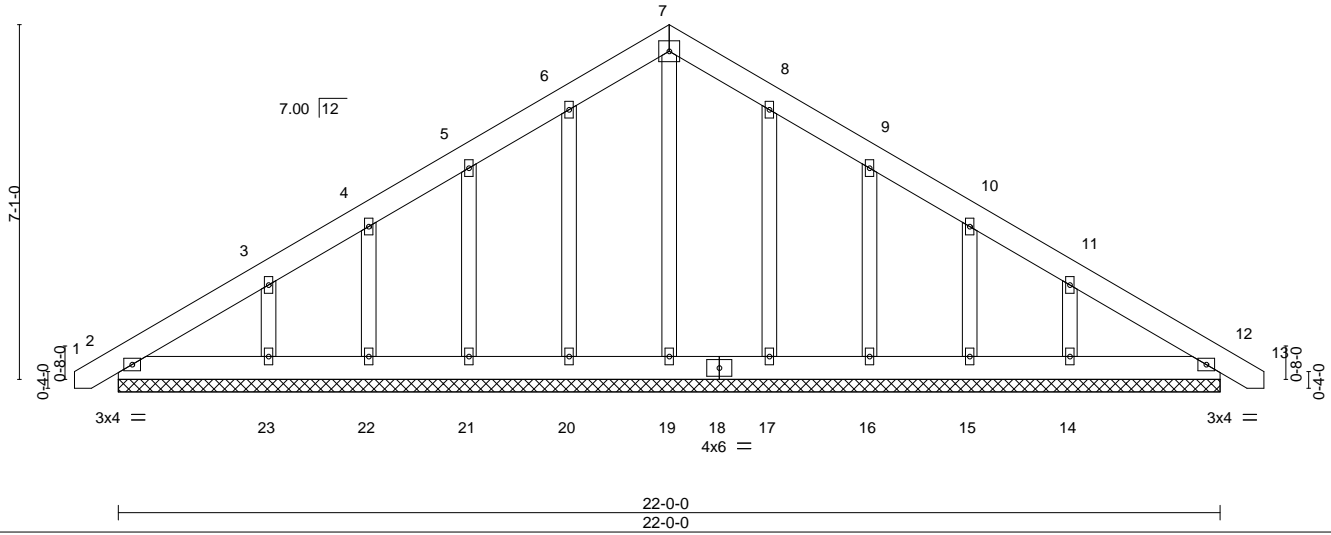
8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:14 2020 Page 1

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5x5 =

Scale = 1:46.0



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 0.04	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	12	n/r	90		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R						Weight: 164 lb	FT = 20%

LUMBER-

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

BRACING-

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

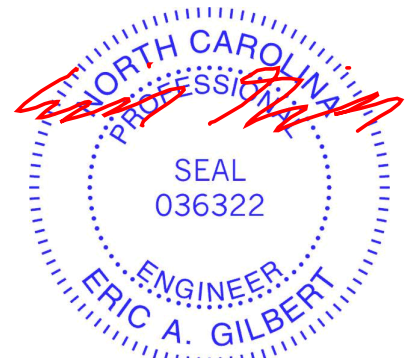
REACTIONS.

All bearings 22-0-0.
 (lb) - Max Horz 2=237(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 22, 17, 15, 12 except 21=112(LC 9), 23=162(LC 9), 16=115(LC 10), 14=159(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 12 except 23=271(LC 16), 14=268(LC 17)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 22, 17, 15, 12 except (jt=lb) 21=112, 23=162, 16=115, 14=159.
- Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



October 23, 2020

WARNING - 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



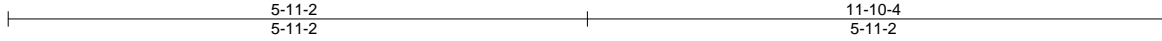
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012712
J1020-4925	V1	VALLEY	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

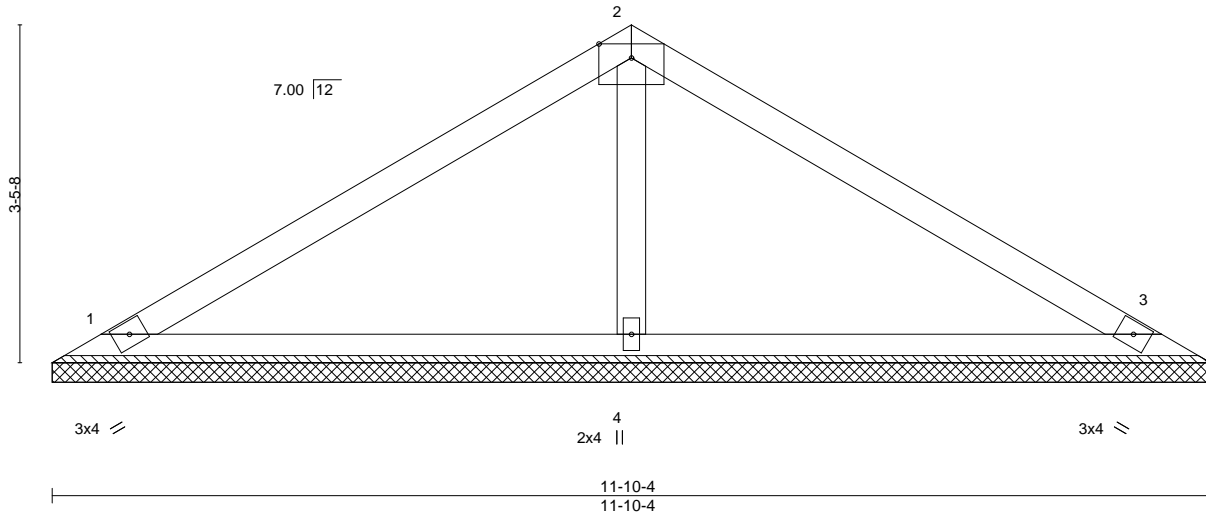
8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:15 2020 Page 1

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5x8 M18SHS =

Scale = 1:23.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999	M18SHS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R							
	Code IRC2015/TPI2014							Weight: 41 lb	FT = 20%

LUMBER-

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

BRACING-

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

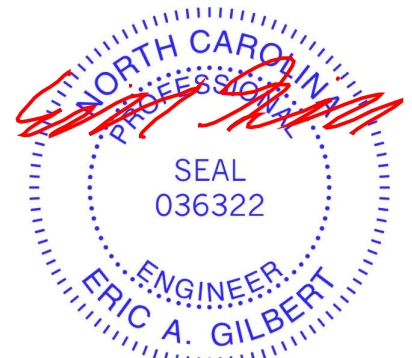
REACTIONS.

(size) 1=11-10-4, 3=11-10-4, 4=11-10-4
 Max Horz 1=87(LC 8)
 Max Uplift 1=-38(LC 9), 3=-46(LC 10), 4=-45(LC 9)
 Max Grav 1=197(LC 20), 3=199(LC 17), 4=476(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-4=-310/182

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; 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
- All plates are MT20 plates unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



October 23, 2020

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

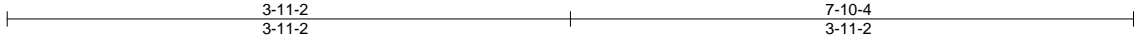
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



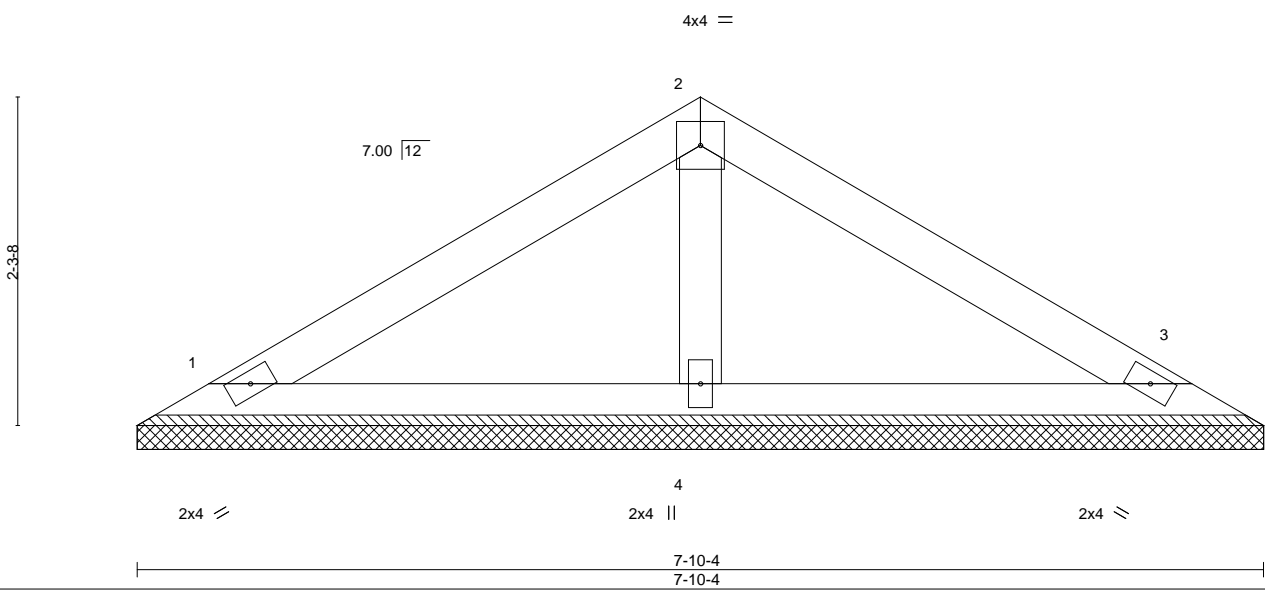
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012713
J1020-4925	V2	VALLEY	1	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:15 2020 Page 1
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Scale: 3/4"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.16	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 3 n/a n/a		
	Code IRC2015/TPI2014			Weight: 26 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 1=7-10-4, 3=7-10-4, 4=7-10-4
 Max Horz 1=-55(LC 7)
 Max Uplift 1=-35(LC 9), 3=-40(LC 10), 4=-5(LC 9)
 Max Grav 1=142(LC 1), 3=143(LC 17), 4=257(LC 1)

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

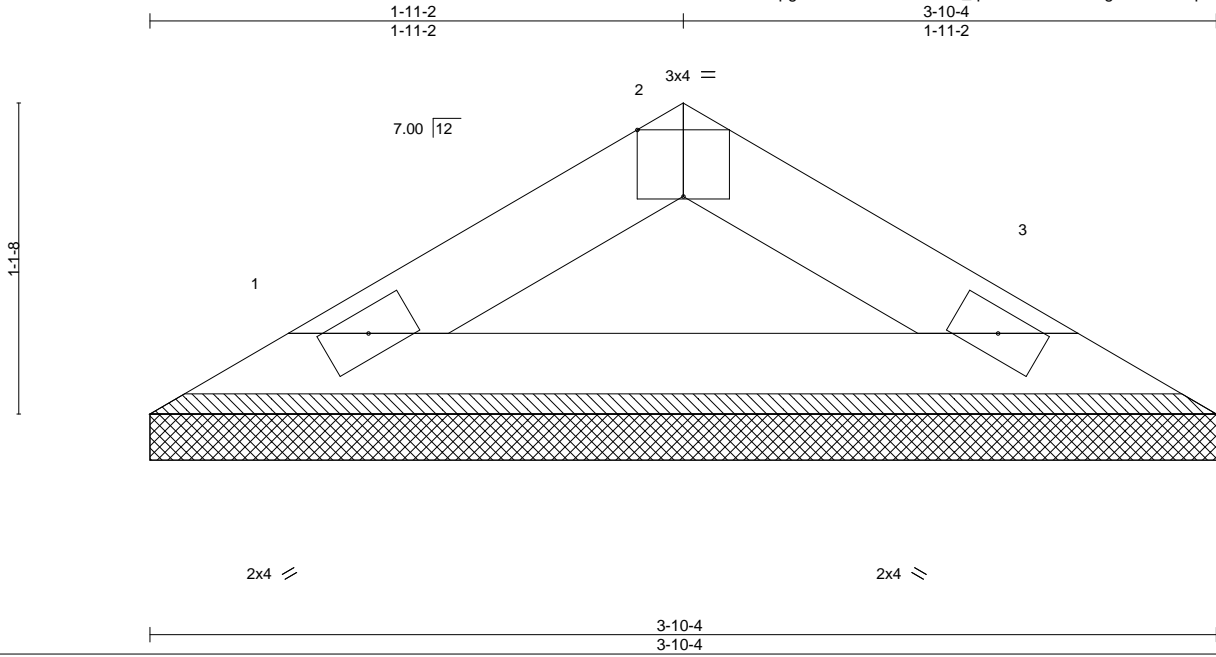
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3, 4.



Job	Truss	Truss Type	Qty	Ply	Lot 51 South Creek	E15012714
J1020-4925	V3	VALLEY	1	1		

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Oct 23 08:22:16 2020 Page 1
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LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	n/a	-	n/a	999	MT20	244/190	
TCDL	10.0	Lumber DOL	1.15	BC	0.05	Vert(CT)	n/a	-	n/a	999	Weight: 11 lb FT = 20%		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a			
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P									

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-10-4 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-10-4, 3=3-10-4
 Max Horz 1=23(LC 8)
 Max Uplift 1=-15(LC 9), 3=-15(LC 10)
 Max Grav 1=111(LC 1), 3=111(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=140mph (3-second gust) Vasd=111mph; TCDL=6.0psf; BCDL=5.0psf; 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 live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

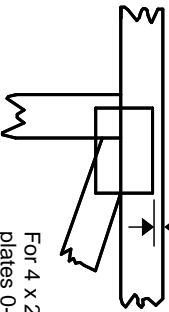


Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



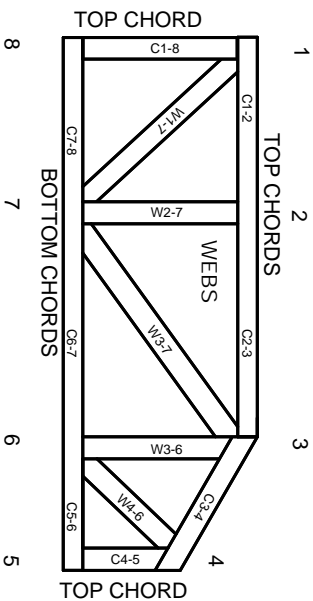
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TPI 1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses.

Numbering System

6-4-8
dimensions shown in ft-in-sixteenths
(Drawings not to scale)



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

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

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

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MITek Engineering Reference Sheet: Mill-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.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
8. 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 responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. 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.
14. 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.
16. 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 environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. 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.