

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0920-4336
465 Bryant Road

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: E14893786 thru E14893810

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

North Carolina COA: C-0844



September 22, 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	465 Bryant Road	E14893786
J0920-4336	A1	HOWE	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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ID:Gej8M7ID_8d5xSTMbLIID7ztnZ3-L7ZU?td6gdNV6QAiwEA?NrYqCdp1B41TXvVJ8lyb4zQ



5x8 =

Scale = 1:82.1

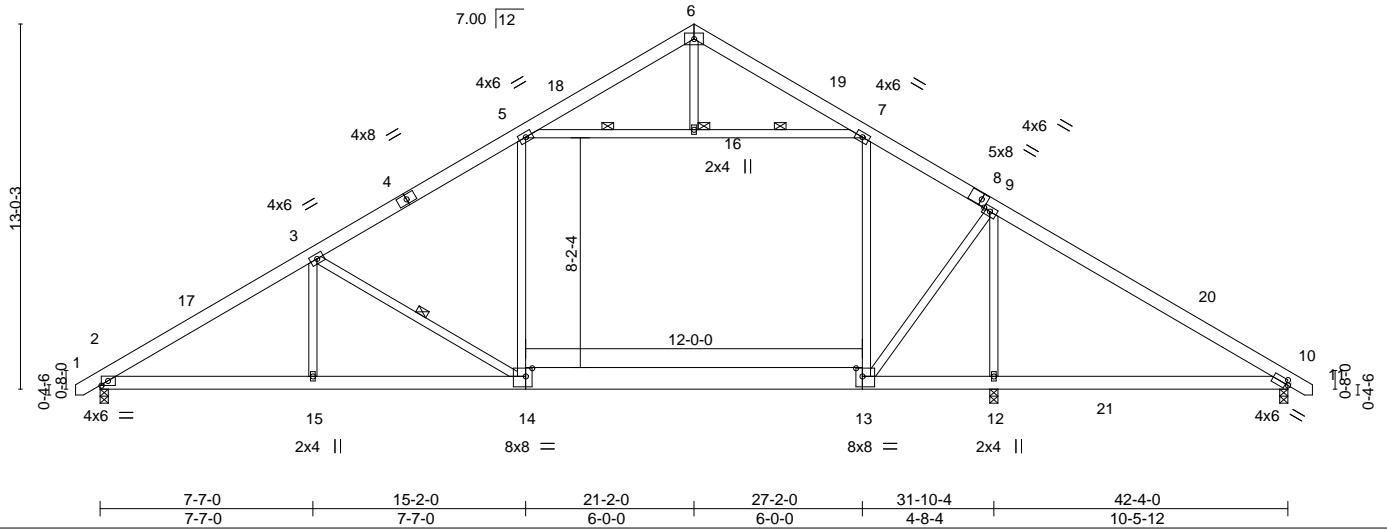


Plate Offsets (X,Y)-- [2:0-2-13,0-2-0], [8:0-2-11,0-2-8], [10:0-1-3,0-2-0], [13:0-2-12,0-3-8], [14:0-2-12,0-3-8]

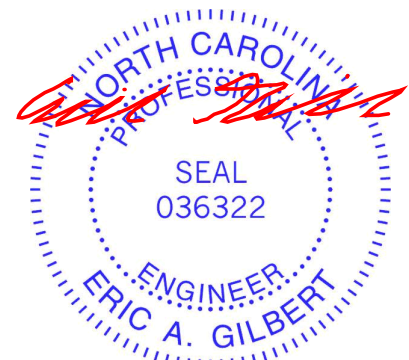
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.53	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) -0.21 13-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.42	Vert(CT) -0.37 14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) 0.07 10 n/a n/a		
	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 302 lb uplift at joint 2, 566 lb uplift at joint 12 and 305 lb uplift at joint 10.



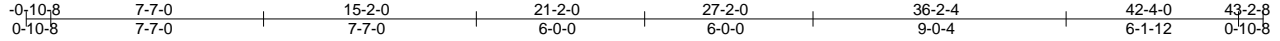
September 22, 2020

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893787
J0920-4336	A2	HOWE	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:49:43 2020 Page 1

ID:Gej8M7iD_8d5xSTMBLIID7ztnZ3-Duo?qEGdkrxb2TT94ExXhiYBE8q7wk3SWTWH3yb4zM



5x8 =

Scale = 1:82.1

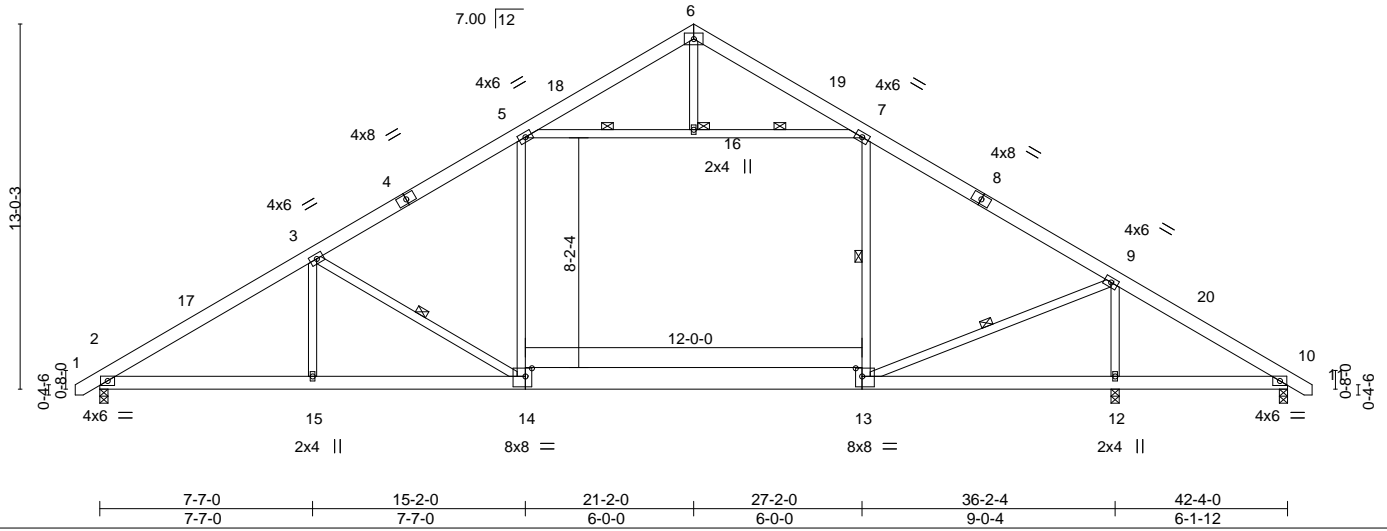


Plate Offsets (X,Y)-- [13:0-2-12,0-3-8], [14:0-2-12,0-3-8]

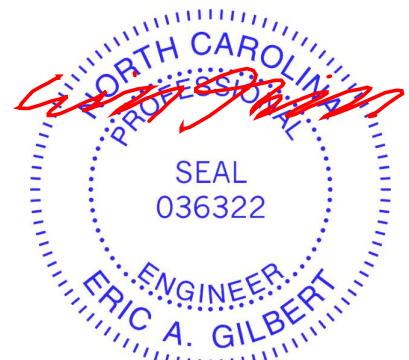
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.25	13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.90	Vert(CT) -0.43	14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) 0.07	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R					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 290 lb uplift at joint 2, 736 lb uplift at joint 12 and 490 lb uplift at joint 10.



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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	465 Bryant Road	E14893788
J0920-4336	A3	COMMON	5	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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ID:Gej8M7tD_8d5xSTMBLID7ztNz3-asbutyJZOVehpMRxdq6EkPQUFzno1VoboBHzGyb4zH

0-11-0	3-8-8	11-3-8	17-3-8	23-3-8	32-3-12	38-5-8	39-4-0
0-11-0	3-8-8	7-7-0	6-0-0	6-0-0	9-0-4	6-1-12	0-10-8

Scale = 1:78.6

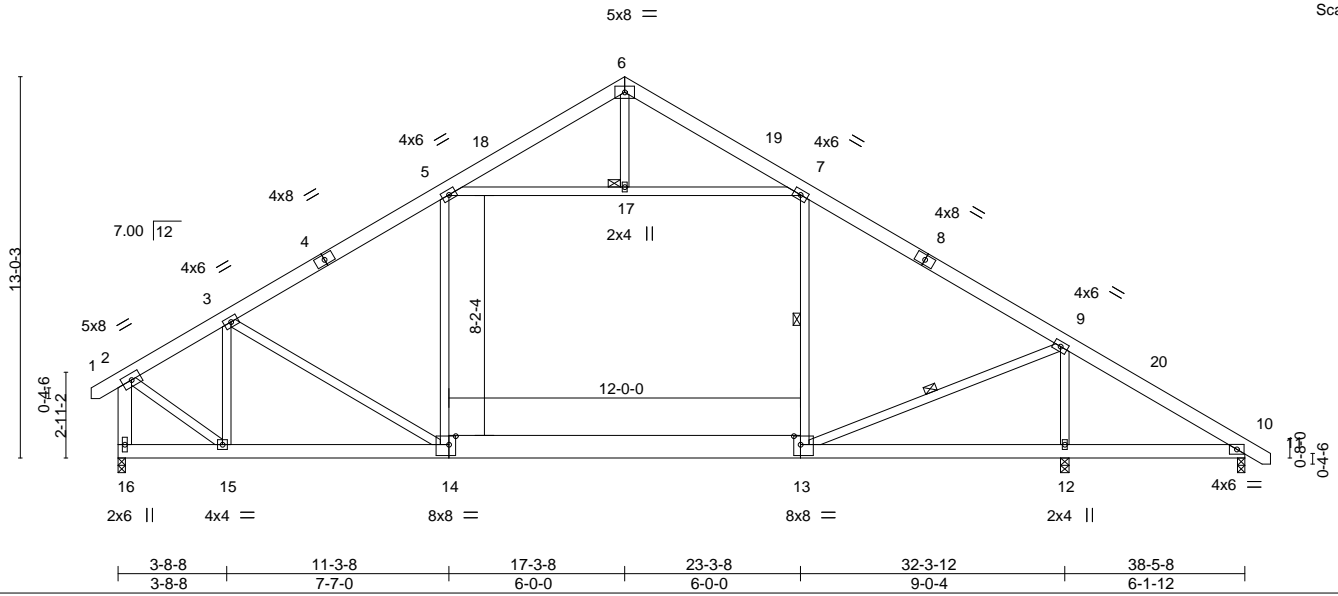


Plate Offsets (X,Y)-- [13:0-2-12,0-3-8], [14:0-2-12,0-3-8]

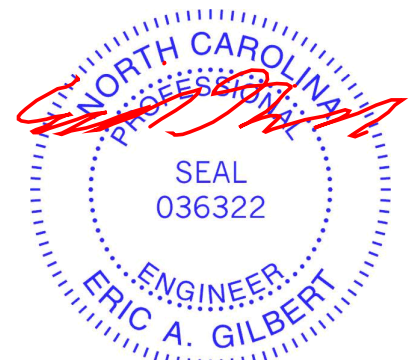
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	-0.15	13-14	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(CT)	-0.21	13-14	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.85	Horz(CT)	0.03	10	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-R						
	Code IRC2015/TPI2014						Weight: 315 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-6-10 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1 *Except*	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 7-13, 9-13
2-16: 2x6 SP No.1	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 244 lb uplift at joint 16, 632 lb uplift at joint 12 and 506 lb uplift at joint 10.



September 22, 2020

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893789
J0920-4336	A3GE	FINK	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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ID: gDOH_9v5H3?fovBxGTISrlztnZ0-SdrPjJNGdc?fAQfCATv2Oaa6OsH1kpwOWQ9V62yb4zD

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

5x8 =

Scale = 1:77.9

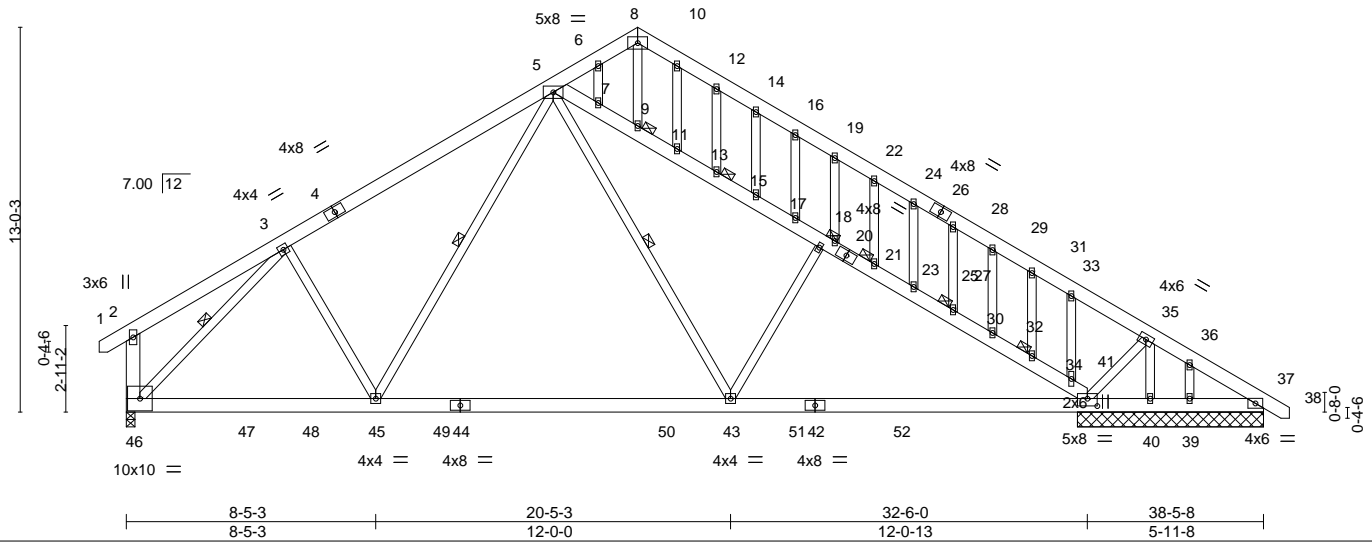


Plate Offsets (X,Y)-- [41:0-4-0,0-3-0]

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-**
- 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 exposed; porch right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - * 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) 40 except (jt=lb) 39=136, 46=394, 41=880.
 - 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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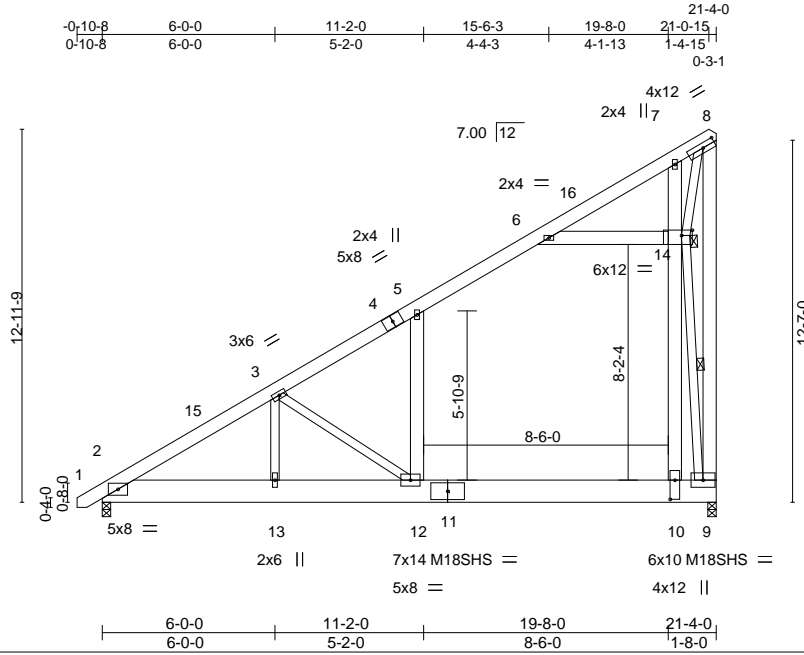
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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 ANS/TPPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893790
J0920-4336	A4	ATTIC	6	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:49:56 2020 Page 1
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Scale = 1:80.1

Plate Offsets (X,Y)-- [8:0-5-3,0-2-0], [10:0-8-0,0-2-0], [14:0-4-8,0-2-4]

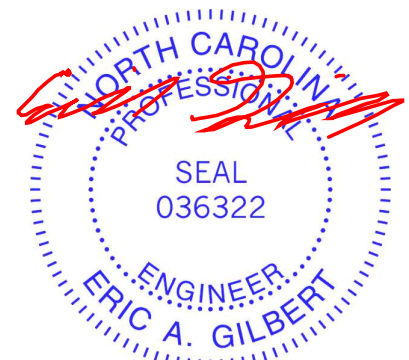
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.60	Vert(LL)	-0.27 10-12	>937	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.88	Vert(CT)	-0.56 10-12	>446	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.88	Horz(CT)	0.01 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Attic	-0.12 10-12	871	360		
							Weight: 252 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-7-15 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 5-1-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 3-13,3-12,8-14: 2x4 SP No.2, 9-14: 2x4 SP 2400F 2.0E	WEBS 1 Row at midpt 9-14
	JOINTS 1 Brace at Jt(s): 14

REACTIONS. (size) 2=0-3-8, 9=0-3-8
Max Horz 2=478(LC 9)
Max Uplift 9=28(LC 9)
Max Grav 2=1149(LC 17), 9=1683(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1943/0, 3-5=-881/0, 5-6=-682/0, 6-7=-308/768, 7-8=-127/641, 8-9=-412/1258
BOT CHORD 2-13=-367/1753, 12-13=-367/1753, 10-12=-93/709, 9-10=-84/619
WEBS 3-13=-79/768, 3-12=-1281/337, 6-14=-1286/228, 10-14=-48/3006, 7-14=-147/284, 9-14=-4762/662, 8-14=-1749/453

- 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 16-8-7, Exterior(2) 16-8-7 to 21-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Ceiling dead load (10.0 psf) on member(s). 5-6, 6-14; Wall dead load (5.0psf) on member(s).5-12, 10-14
 - 5) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9.
 - 7) Attic room checked for L/360 deflection.



September 22, 2020

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893791
J0920-4336	A4A	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:49:59 2020 Page 1
ID:ccW1PrxLpgFN2DLKNUkwwAztnZ_-lzm2BiSfzmugWViY5RXhB3NELhjt?RQ70LMs8yb4z6

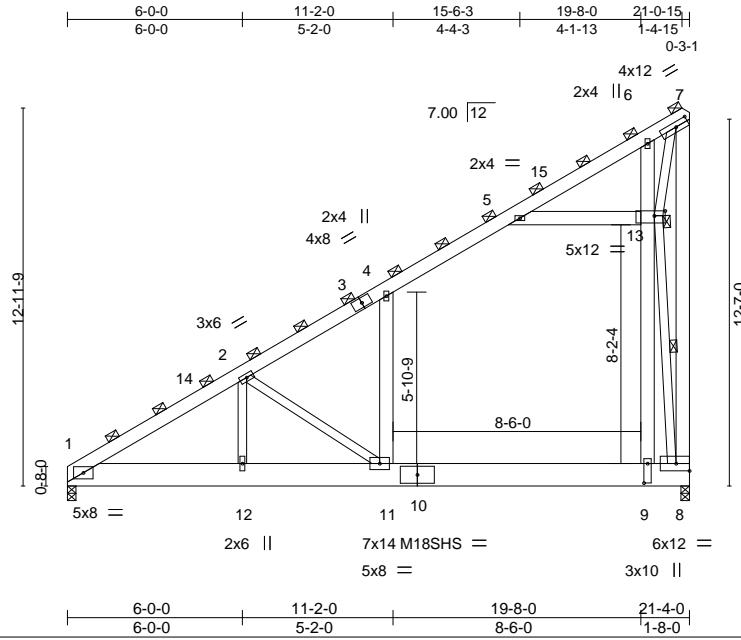


Plate Offsets (X,Y)-- [7:0-5-3,0-2-0], [9:0-8-0,0-1-8], [13:0-4-8,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.51	Vert(LL) -0.22	9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.77	Vert(CT) -0.45	9-11	>554	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.90	Horz(CT) 0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Attic -0.10	9-11	1093	360		
							Weight: 499 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
2-12,2-11,8-13,7-13: 2x4 SP No.2

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals
(Switched from sheeted: Spacing > 2-8-0).
Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD 1 Row at midpt 8-13
WEBS 1 Brace at Jt(s): 7, 13

REACTIONS.

(size) 1=0-3-8, 8=0-3-8
Max Horz 1=699(LC 9)
Max Uplift 8=42(LC 9)
Max Grav 1=1650(LC 17), 8=2527(LC 17)

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

TOP CHORD 1-2=-2937/0, 2-4=-1296/0, 4-5=-1003/0, 5-6=-454/1108, 6-7=-186/904, 7-8=-587/1661
BOT CHORD 1-12=-579/2648, 11-12=-579/2648, 9-11=-138/1035, 8-9=-124/893
WEBS 2-12=-143/1216, 2-11=-1980/542, 4-11=-137/308, 5-13=-1848/337, 9-13=-59/4318,
6-13=-184/417, 8-13=-6682/949, 7-13=-2417/656

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.
- 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; TCDL=6.0psf; BCDL=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 16-8-7, Exterior(2) 16-8-7 to 21-1-4 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.
- * 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, 5-13; Wall dead load (5.0psf) on member(s).4-11, 9-13
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Attic room checked for L/360 deflection.



September 22, 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



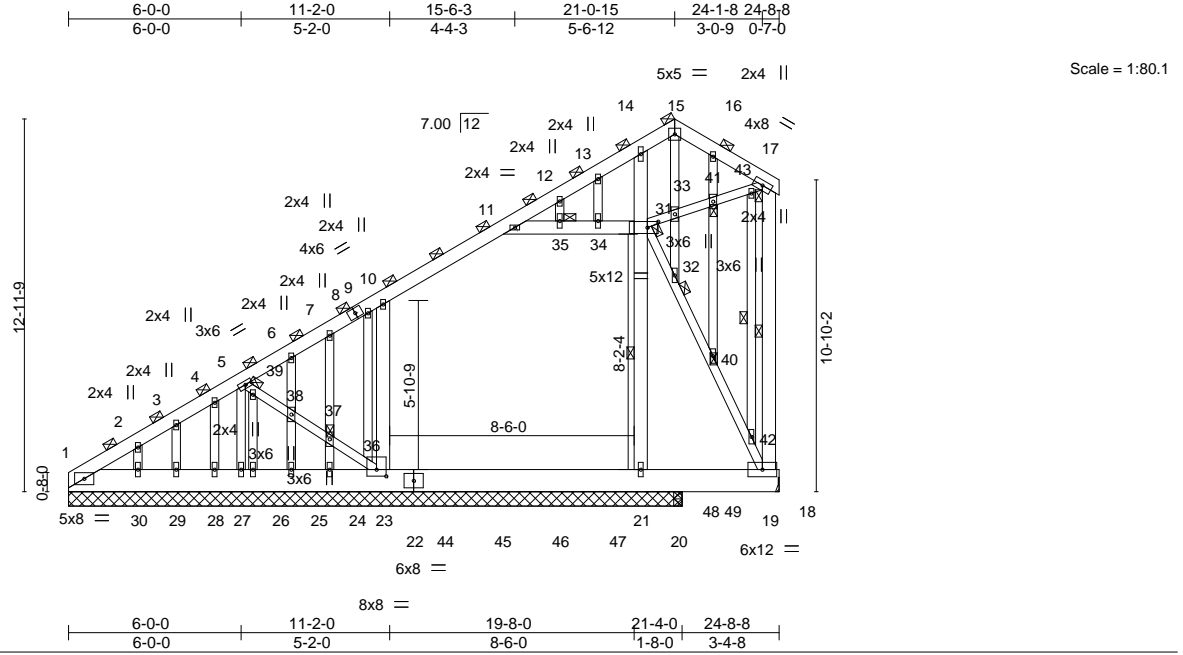
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893792
J0920-4336	A5	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:03 2020 Page 1

ID:ccW1PrxLpgFN2DLKnuKwwAztnZ_el?Z14VA1?O5?6?JKHbdLvX_h14Xp_j?2eJa?vyb4z2



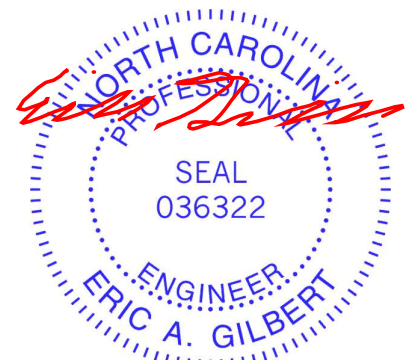
LOADING (psf)	SPACING-	CS.I.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.03 21-23 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.45	Vert(CT) -0.05 21-23 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.18	Horz(CT) -0.00 19 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R		Weight: 337 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals (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* 5-27,5-23,17-31,19-31: 2x4 SP No.2	WEBS 1 Row at midpt 21-31, 17-19, 42-43
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 15, 17, 31, 32, 35, 37, 39, 40, 41

REACTIONS. All bearings 21-4-0 except (jt=length) 19=Mechanical, 20=0-3-8.
 (lb) - Max Horz 1=914(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 27, 28, 29 except 23=695(LC 7), 21=520(LC 7), 19=475(LC 7), 24=1040(LC 22), 25=172(LC 7), 26=154(LC 22), 30=187(LC 27), 20=586(LC 2)
 Max Grav All reactions 250 lb or less at joint(s) 24, 26, 28, 29, 20 except 1=303(LC 35), 27=260(LC 2), 23=1950(LC 33), 21=2237(LC 2), 19=708(LC 33), 25=582(LC 33), 30=325(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=581/205, 2-3=471/156, 3-4=401/135, 4-5=372/116, 5-6=447/110, 6-7=408/75, 7-9=352/87, 9-10=291/90, 10-11=410/97, 11-12=511/479, 12-13=439/463, 13-14=461/575, 15-16=267/384, 16-17=286/340
 BOT CHORD 1-30=361/270, 29-30=361/270, 28-29=361/270, 27-28=361/270, 26-27=361/270, 25-26=361/270, 24-25=361/270, 23-24=361/270, 21-23=266/297, 20-21=263/292, 19-20=263/292
 WEBS 10-23=500/393, 21-31=370/225, 14-31=777/586, 11-35=599/568, 34-35=599/568, 31-34=600/567, 31-33=320/316, 33-41=318/317, 41-43=319/318, 17-43=309/308, 31-32=569/519, 32-40=653/591, 40-42=656/595, 19-42=633/572

- 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; 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 2x6 MT20 unless otherwise indicated.
 - 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, with BCDL = 10.0psf.
 - 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) 1, 27, 28, 29 except (jt=lb) 23=695, 21=520, 19=475, 24=1040, 25=172, 26=154, 30=187, 20=586.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 22, 2020

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.

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

TRENCO ENGINEERING BY
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893792
J0920-4336	A5	GABLE	1	1	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:03 2020 Page 2
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NOTES-

- 10) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 225 lb down and 123 lb up at 13-0-12, 221 lb down and 95 lb up at 15-0-12, 221 lb down and 109 lb up at 17-0-12, 221 lb down and 136 lb up at 19-0-12, and 221 lb down and 191 lb up at 21-0-12, and 268 lb down and 261 lb up at 23-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) Attic room checked for L/360 deflection.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf)
 - Vert: 1-15=-90, 15-17=-90, 1-18=-30
 - Concentrated Loads (lb)
 - Vert: 20=-221(F) 44=-225(F) 45=-221(F) 46=-221(F) 47=-221(F) 49=-220(F)

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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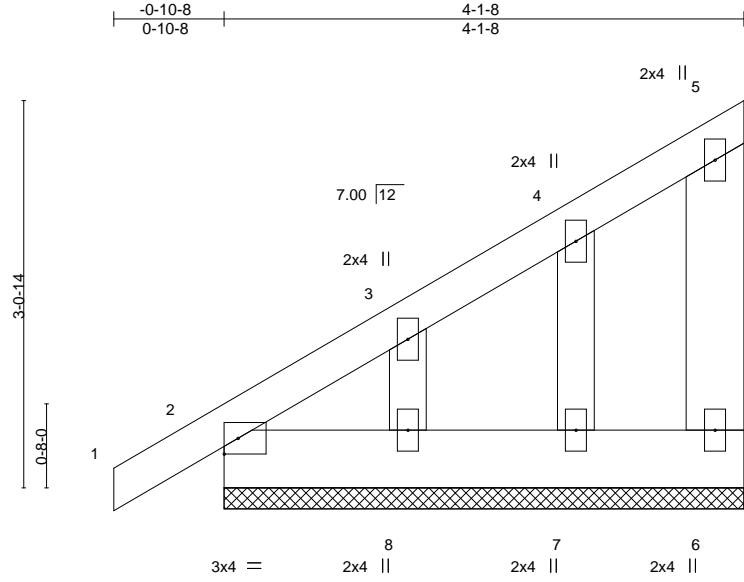


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893793
J0920-4336	A6GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:05 2020 Page 1
 ID:k6oy8H5VlguX6Drpe63zywztnYn-a77JSmXQZcepEQ9iRhd5QKcOF6t0HwhIWxoh3nyb4z0



Scale = 1:18.3

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	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.00	Vert(CT)	-0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 27 lb	FT = 20%

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.



September 22, 2020

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893795
J0920-4336	B1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:10 2020 Page 1

ID:5o4QdByza_NEfNwWxbr9SOztnYz-x5wCVtbZN8H6KB1gEFDG7NKE97Zty961fDWSj?yb4yx

0-11-0 14-3-8 32-5-8 33-4-0
 0-11-0 14-3-8 18-2-0 0-10-8

5x5 =

Scale = 1:70.4

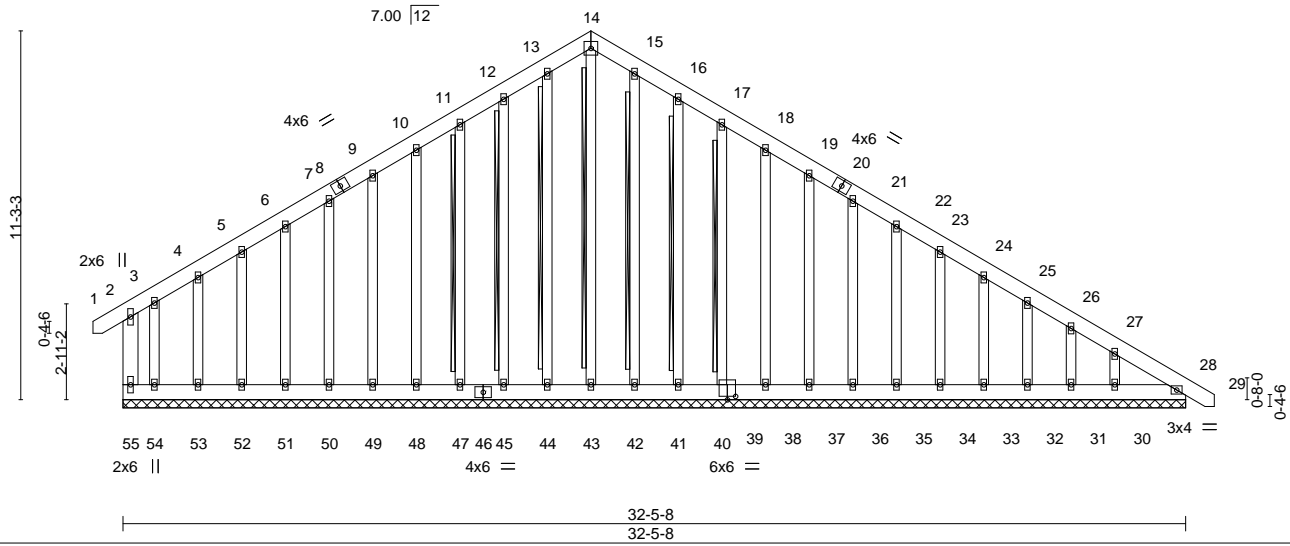


Plate Offsets (X,Y)-- [39:0-0-0,0-2-12], [39:0-3-0,0-1-4], [40:0-1-12,0-0-0]

LOADING (psf)	SPACING-	CSI.	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; TCDL=6.0psf; BCDL=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.



September 22, 2020

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	465 Bryant Road	E14893795
J0920-4336	B1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:11 2020 Page 2
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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.

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	465 Bryant Road	E14893796
J0920-4336	C1	ATTIC	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:14 2020 Page 1

ID:k6oy8H5VlguX6Drpe63zywztnYn-psAjLre3RNnYppLRT4lCHDUmskoDuzdwadUrtfnyb4yt

-0-11-0 5-0-12 8-4-0 11-3-8 14-3-0 17-6-4 22-7-0 23-6-0
0-11-0 5-0-12 3-3-4 2-11-8 2-11-8 3-3-4 5-0-12 0-11-0

6x8 =

Scale = 1:78.5

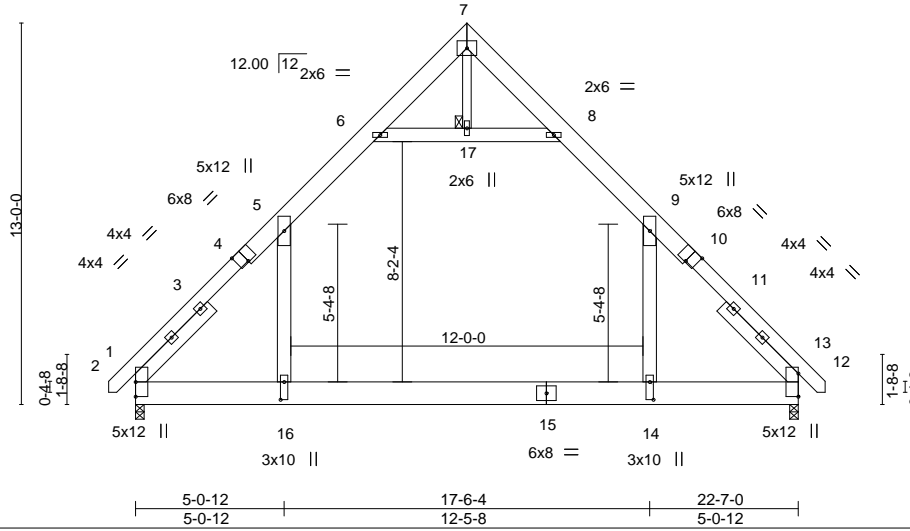


Plate Offsets (X,Y)-- [4:0-4-0,Edge], [10:0-4-0,Edge], [14:0-7-4,0-1-8], [16:0-7-4,0-1-8]

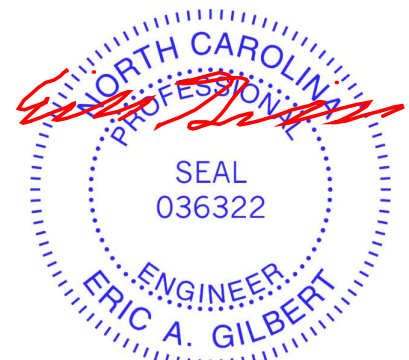
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.69	Vert(LL)	-0.19 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT)	-0.31 14-16	>861	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.15	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014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

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1 *Except* 1-4,10-13: 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* 7-17: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 17
SLIDER Left 2x6 SP No.1 - 3-8-0, Right 2x6 SP No.1 -x 3-8-0	

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.



September 22,2020

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893797
J0920-4336	C2	ATTIC	9	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:15 2020 Page 1

ID:k6oy8H5VlguX6Drpe63zywznYn-H2k5YBehChvORywd1opRqR1xb87SdQAmPVDDPCyb4ys
 0-11-0 5-0-12 8-4-0 11-3-8 14-3-0 17-6-4 22-7-0
 0-11-0 5-0-12 3-3-4 2-11-8 2-11-8 3-3-4 5-0-12

6x8 =

Scale = 1:78.5

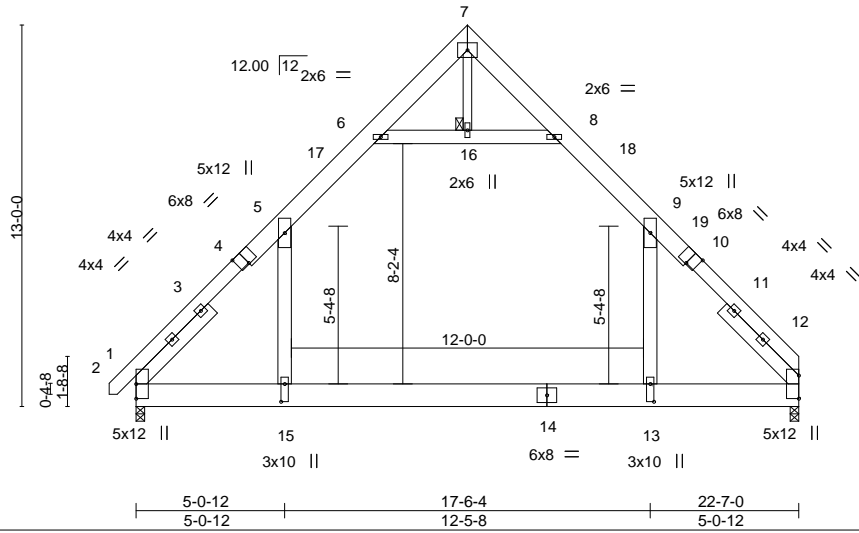


Plate Offsets (X,Y)-- [4:0-4-0,Edge], [10:0-4-0,Edge], [13:0-7-4,0-1-8], [15:0-7-4,0-1-8]

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 13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.70	Vert(CT)	-0.31 13-15	>860	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 13-15	1176	360	Weight: 246 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x8 SP No.1 *Except* 1-4,10-12: 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* 7-16: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 16
SLIDER Left 2x6 SP No.1 -x 3-8-0, Right 2x6 SP No.1 -x 3-8-0	

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=343(LC 5)
 Max Grav 2=1537(LC 18), 12=1508(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-2106/57, 5-6=-1128/249, 8-9=-1127/249, 9-12=-2104/51
 BOT CHORD 2-15=0/1189, 13-15=0/1189, 12-13=0/1189
 WEBS 6-16=-1359/358, 8-16=-1359/358, 5-15=0/1064, 9-13=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) -0-9-6 to 3-7-7, Interior(1) 3-7-7 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). 5-6, 8-9, 6-16, 8-16; Wall dead load (5.0psf) on member(s).5-15, 9-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 - Attic room checked for L/360 deflection.

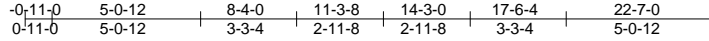


September 22,2020

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893798
J0920-4336	C2-GR	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:18 2020 Page 1



6x8 =

Scale = 1:78.5

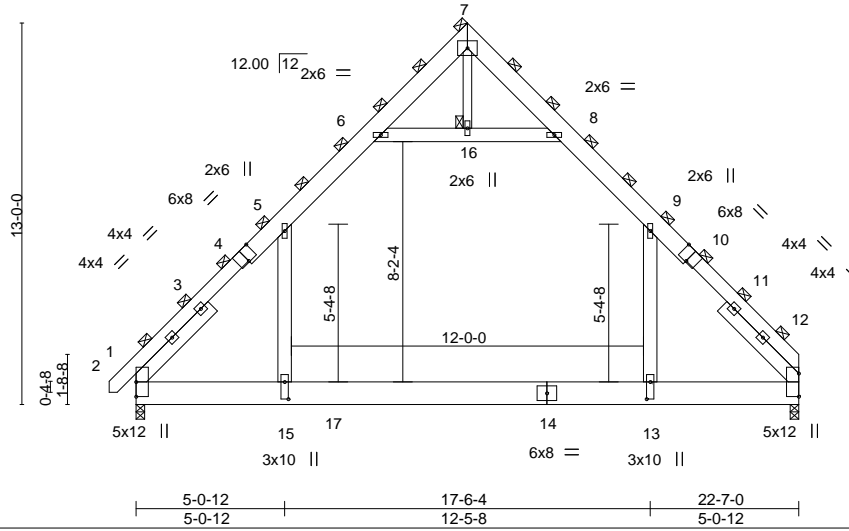


Plate Offsets (X,Y)-- [4:0-4-0,Edge], [10:0-4-0,Edge], [13:0-7-0,0-1-8], [15:0-7-0,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.68	Vert(LL) -0.15	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.26	13-15	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.12	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Attic -0.10	13-15	1546	360	Weight: 491 lb	FT = 20%

LUMBER-

TOP CHORD 2x8 SP No.1 *Except*
1-4,10-12: 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
7-16: 2x4 SP No.2
SLIDER Left 2x6 SP No.1 -x 3-8-0, Right 2x6 SP No.1 -x 3-8-0

BRACING-

TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
(Switched from sheeted: Spacing > 2-8-0).
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
JOINTS 1 Brace at Jt(s): 7, 16

REACTIONS.

(size) 2=0-3-8, 12=0-3-8
Max Horz 2=-514(LC 3)
Max Uplift 2=-201(LC 8)
Max Grav 2=2718(LC 34), 12=2435(LC 33)

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

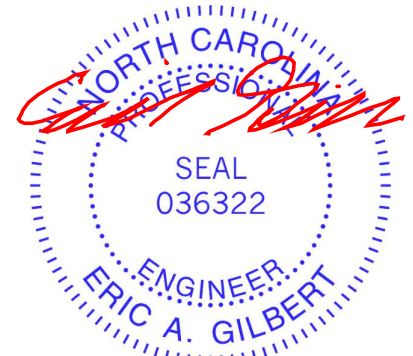
TOP CHORD 2-5=-3629/280, 5-6=-1835/250, 6-7=-197/415, 7-8=-161/374, 8-9=-1876/285,
9-12=-3552/228
BOT CHORD 2-15=-34/2016, 13-15=-34/2016, 12-13=-34/2016
WEBS 6-16=-2399/452, 8-16=-2399/452, 5-15=-318/1959, 9-13=-189/1807

NOTES-

- 1) 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.
- 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=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
- 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) Ceiling dead load (10.0 psf) on member(s). 5-6, 8-9, 6-16, 8-16; Wall dead load (5.0psf) on member(s).5-15, 9-13
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=201.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 637 lb down and 519 lb up at 6-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 11) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

Continued on page 2



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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	465 Bryant Road	E14893798
J0920-4336	C2-GR	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:18 2020 Page 2
 ID:k6oy8H5VlguX6Drpe63zywztnYn-idPEAChaVcHzlQfCiwM8S3fSyLAXqoGCVTSt0Xyb4yp

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 2-15=-30, 13-15=-60, 12-13=-30, 1-5=-90, 5-6=-120, 6-7=-90, 7-8=-90, 8-9=-120, 9-12=-90, 6-8=-30

Drag: 5-15=-15, 9-13=-15

Concentrated Loads (lb)

Vert: 17=-637(B)

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893799
J0920-4336	D1	Common	4	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:19 2020 Page 1

ID:ccW1PrxLpgFN2DLKNUkwwAztnZ_-AqzcOYiCGvPqvaDOGeuN_HCjXIZvZFiMk7BQYzyb4yo



4x6 ==

Scale = 1:25.7

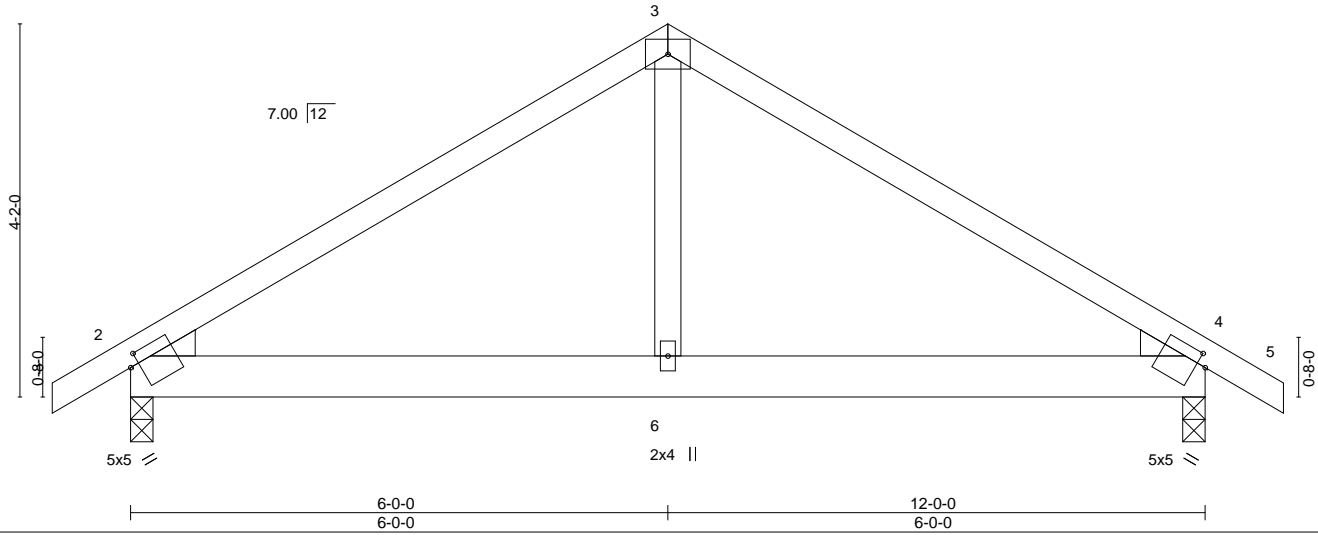


Plate Offsets (X,Y)-- [2:0-1-3,0-1-8], [4:0-1-3,0-1-8]

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						
	Code IRC2015/TPI2014						Weight: 59 lb	FT = 20%

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-

- 1) Unbalanced roof live loads HAVING 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; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=127, 4=127.



September 22,2020

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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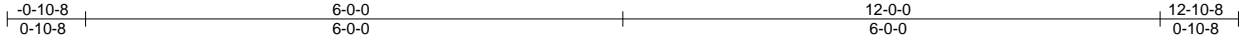


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893800
J0920-4336	D1GE	GABLE	1	1	Job Reference (optional)	

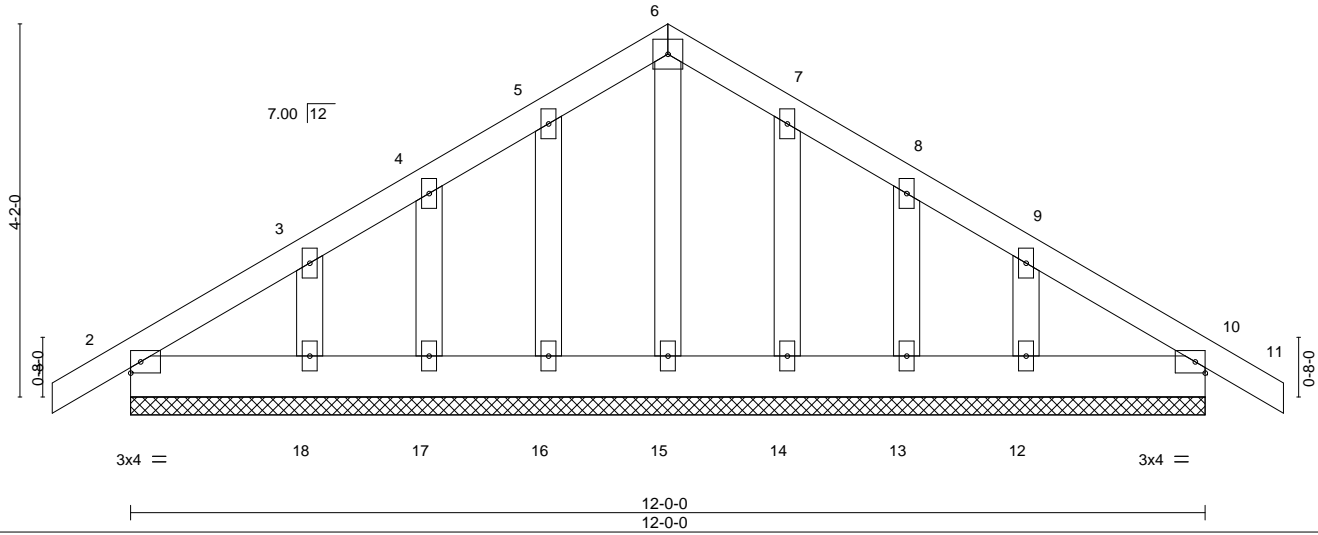
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:20 2020 Page 1
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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	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	-0.00	10	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 74 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 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

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; 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 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.



September 22, 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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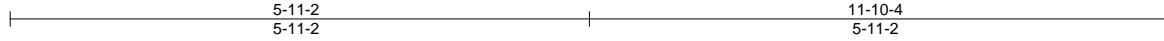


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893801
J0920-4336	V1	VALLEY	1	1	Job Reference (optional)	

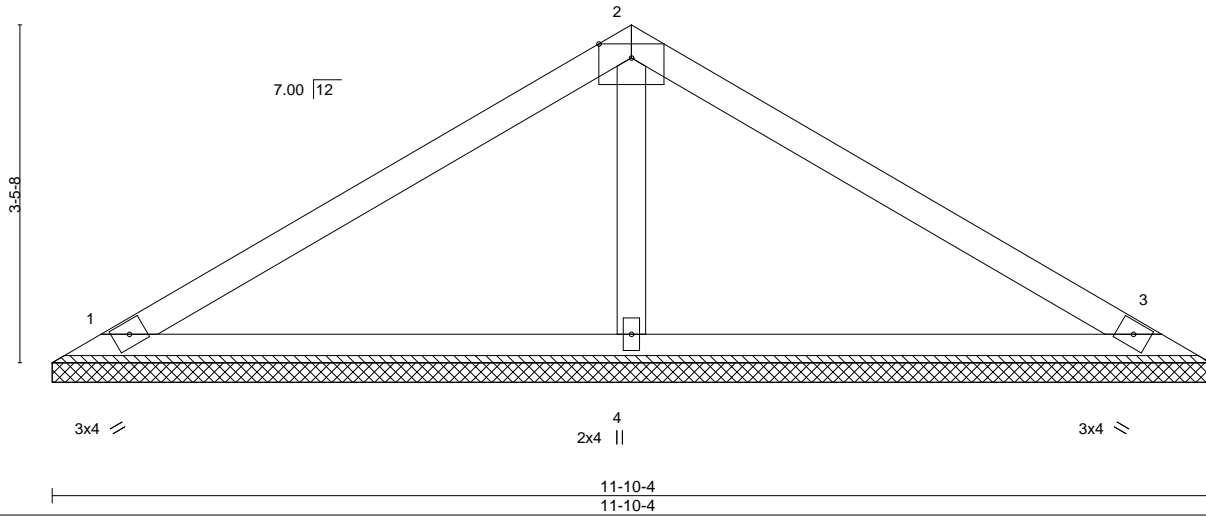
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:21 2020 Page 1
ID:ccW1PrxLpgFN2DLKNuKwwAztnZ_-6C5MpEjSnXfy9tNnN2wr4iH3LY16191fBRgXcsyb4ym



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.



September 22, 2020

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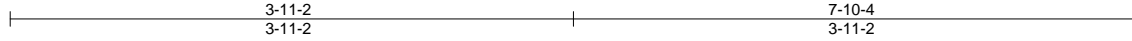


818 Soundside Road
Edenton, NC 27932

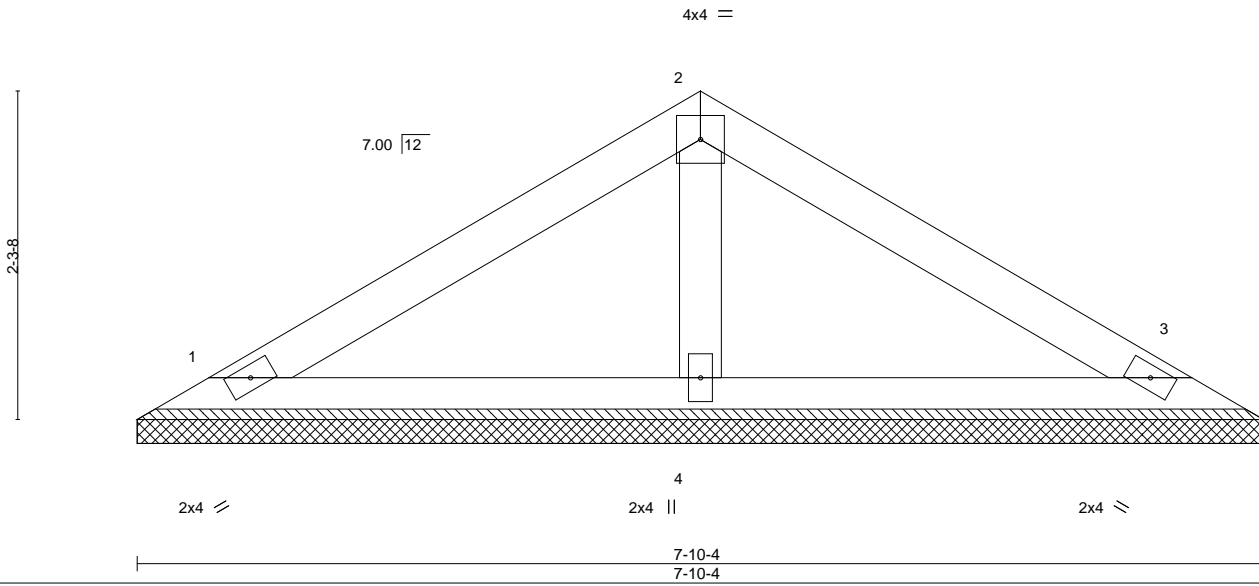
Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893802
J0920-4336	V2	VALLEY	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:22 2020 Page 1
 ID:ccW1PrxLpgFN2DLKnuKwwAztnZ_-aPfk0ak4YqnPm1yzzmR4cvgG6yg7mcr0Q5Q49lyb4yl



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-

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.

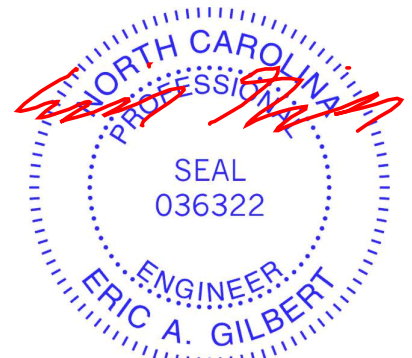
REACTIONS.

(size) 1=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-

- 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) 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
- 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.



September 22, 2020

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Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893803
J0920-4336	V3	VALLEY	1	1	Job Reference (optional)	

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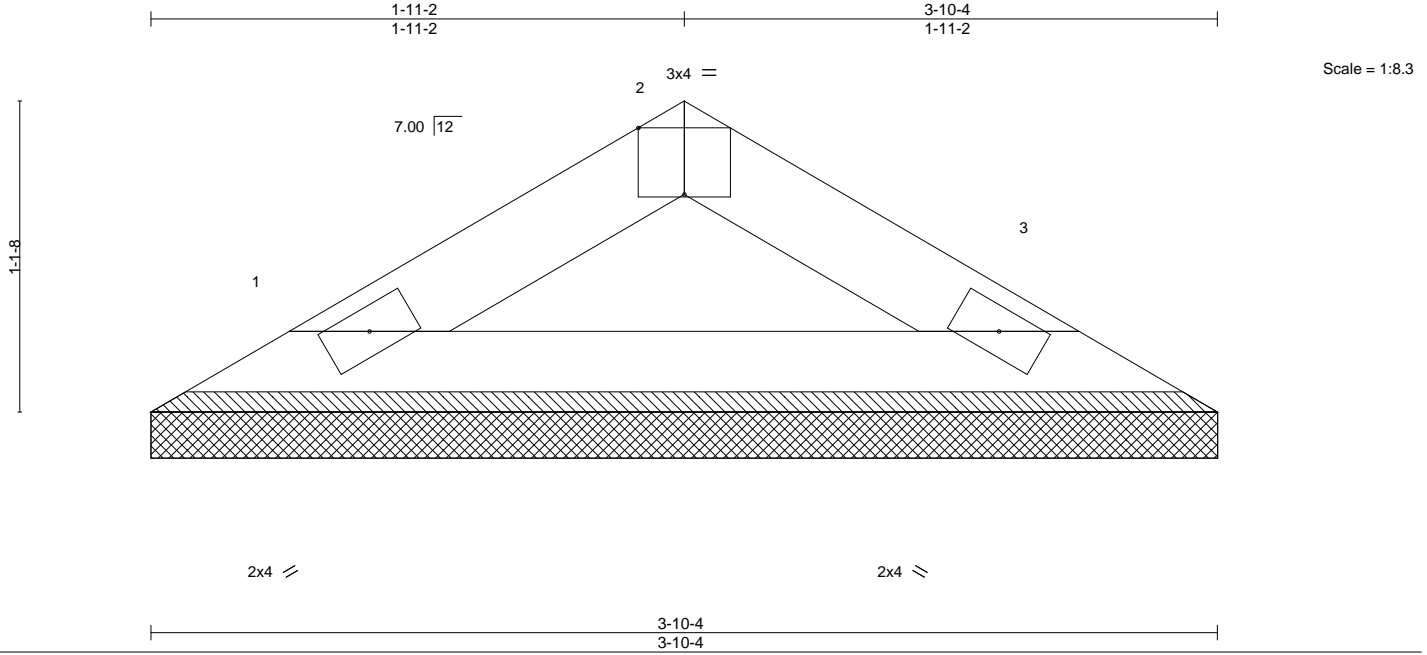


Plate Offsets (X,Y)--	[2:0-2:0,Edge]
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LOADING (psf)	SPACING-	2:0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P					Weight: 11 lb	FT = 20%

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.



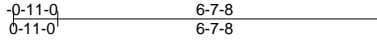
September 22,2020

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893804
J0920-4336	X1	JACK-CLOSED	1	1	Job Reference (optional)	

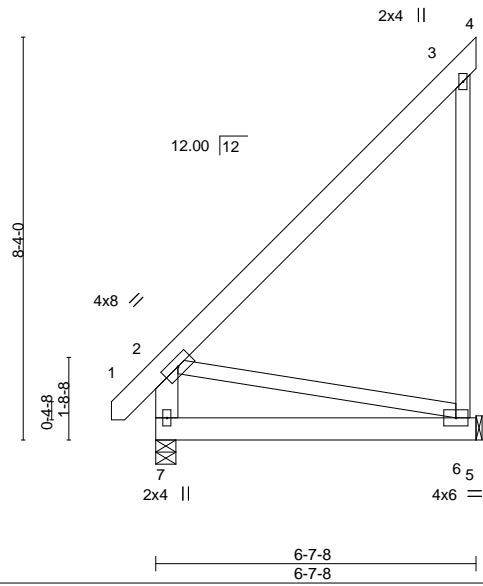
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:23 2020 Page 1

ID:ccW1PrxLpgFN2DLKNUkwwAztnZ_-2bD7EwjJ8vGOBX9VTyJ97MOqM?hV1wyeI9ehlyb4yk



Scale: 1/4"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	Vert(LL) 0.00	7	****	360		MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT) -0.02	6-7	>999	240			
BCLL 0.0 *	Lumber DOL 1.15	WB 0.16	Horz(CT) -0.00	6	n/a	n/a			
BCDL 10.0	Rep Stress Incr YES	Matrix-P						Weight: 63 lb	FT = 20%
	Code IRC2015/TPI2014								

LUMBER-

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

BRACING-

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

REACTIONS.

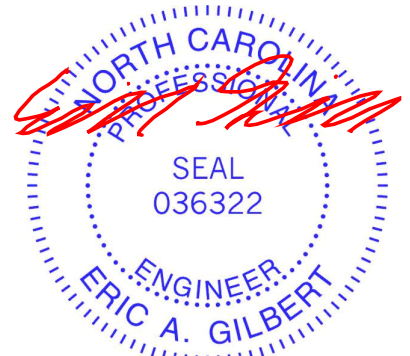
(size) 7=0-5-0, 6=Mechanical
 Max Horz 7=270(LC 9)
 Max Uplift 6=231(LC 9)
 Max Grav 7=310(LC 1), 6=321(LC 16)

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

TOP CHORD 2-3=-263/236, 3-6=-353/303
 BOT CHORD 6-7=-444/244
 WEBS 2-6=-249/454

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) 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.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=231.



September 22, 2020

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818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893806
J0920-4336	X3	JACK-CLOSED	1	1	Job Reference (optional)	

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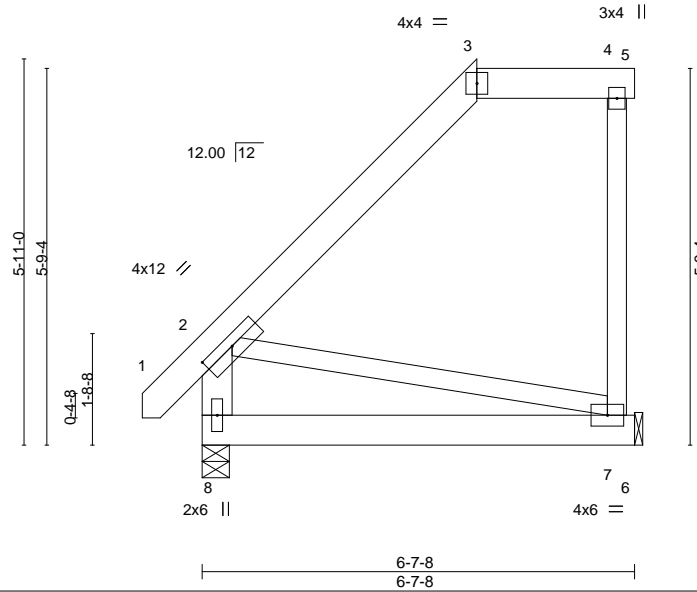


Plate Offsets (X,Y)-- [2-0-6-0,0-1-12]

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 0.25	Vert(LL)	0.00 7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01 7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	-0.00 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 57 lb	FT = 20%

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

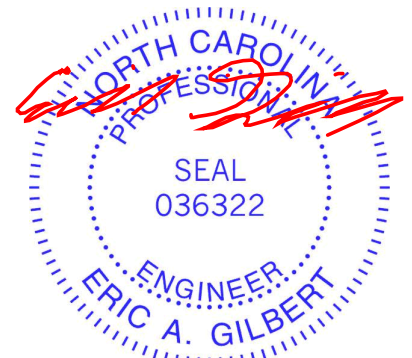
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 8=0-5-0, 7=Mechanical
 Max Horz 8=179(LC 9)
 Max Uplift 7=106(LC 9)
 Max Grav 8=310(LC 1), 7=251(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 BOT CHORD 7-8=-417/400
 WEBS 2-7=-378/398

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
- Provide adequate drainage to prevent water ponding.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 7=106.



September 22,2020

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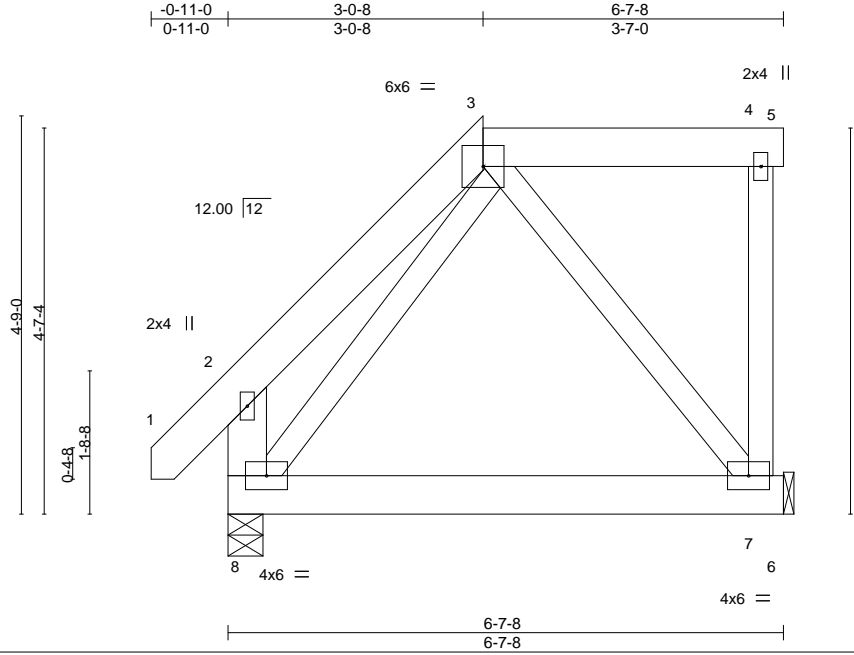


818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893807
J0920-4336	X4	JACK-CLOSED	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:26 2020 Page 1
ID:ccW1PrxLpgFN2DLKNuKwwAztnZ_-TAuFsnbc3lrFtGkAcW0nl_zVZ1LiPvOLjOI3yb4yh



Scale = 1:27.5

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 0.07	Vert(LL)	0.00	8	****	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	-0.02	7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	-0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 59 lb	FT = 20%

LUMBER-

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

BRACING-

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

REACTIONS.

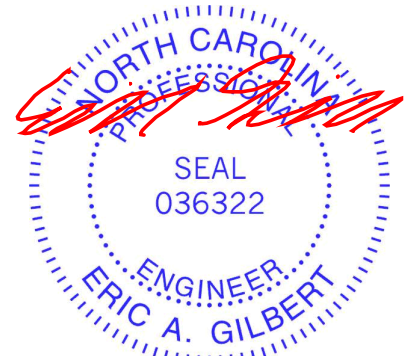
(size) 8=0-5-0, 7=Mechanical
Max Horz 8=135(LC 9)
Max Uplift 8=-4(LC 9), 7=-79(LC 6)
Max Grav 8=310(LC 1), 7=251(LC 1)

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

TOP CHORD 2-8=-181/332, 2-3=-92/264

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) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 7.



September 22, 2020

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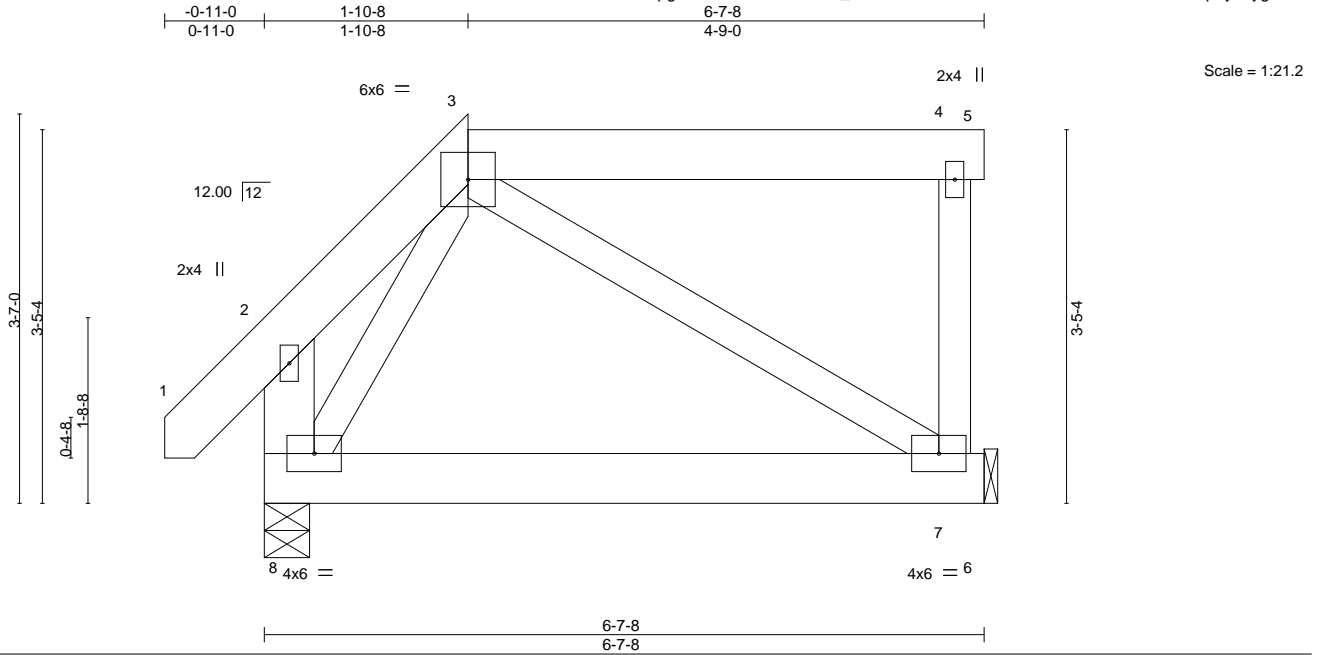


818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893808
J0920-4336	X5	JACK-CLOSED	1	1	Job Reference (optional)	

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8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:27 2020 Page 1
 ID:ccW1PrxLpgFN2DLKNUkwwAztnZ_xMSd3HoDNNQitorxk1FJzX8VzNaRtcXZM7rqWyb4yg



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.12	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) 0.00 8 **** 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.05	Vert(CT) -0.02 7-8 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) -0.00 7 n/a n/a	Weight: 54 lb	FT = 20%
	Code IRC2015/TPI2014				

LUMBER-

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

BRACING-

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

REACTIONS.

(size) 8=0-5-0, 7=Mechanical
 Max Horz 8=91(LC 9)
 Max Uplift 8=-22(LC 6), 7=-65(LC 6)
 Max Grav 8=310(LC 1), 7=251(LC 1)

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

TOP CHORD 2-8=-146/293

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) Provide adequate drainage to prevent water ponding.
- 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) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 7.



September 22, 2020

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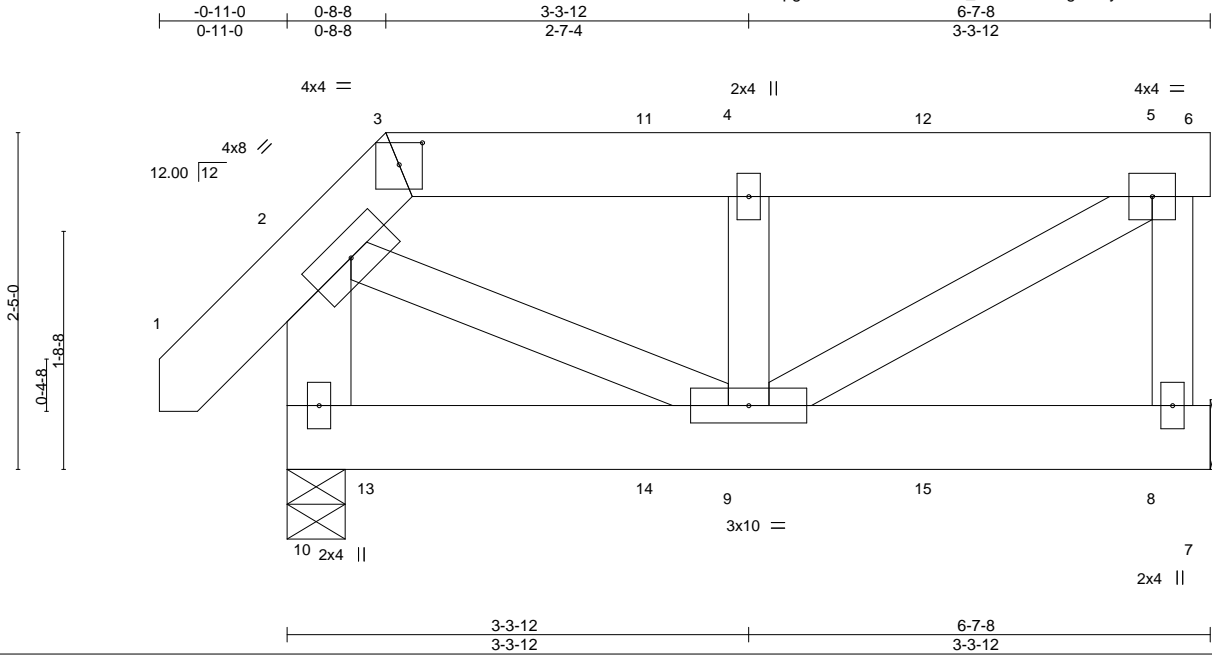
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893809
J0920-4336	X6	JACK-CLOSED GIRDER	1	1	Job Reference (optional)	

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Scale = 1:16.5

Plate Offsets (X,Y)-- [3:0-2-0,0-1-14]

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 0.07	Vert(LL)	-0.00	9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	9	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.05	Horz(CT)	-0.00	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 51 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 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 2-10: 2x6 SP No.1	

REACTIONS. (size) 10=0-5-0, 8=Mechanical
 Max Horz 10=52(LC 7)
 Max Uplift 10=-100(LC 4), 8=-93(LC 4)
 Max Grav 10=315(LC 1), 8=255(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-10=-266/110

- 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); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 10=100.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 69 lb down and 65 lb up at 0-9-10, and 78 lb down and 59 lb up at 2-8-4, and 78 lb down and 59 lb up at 4-8-4 on top chord, and 12 lb down at 0-8-4, and 9 lb down at 2-8-4, and 9 lb down at 4-8-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-2=-60, 2-3=-60, 3-5=-60, 5-6=-20, 7-10=-20
 Concentrated Loads (lb)
 Vert: 13=-5(B)



September 22, 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

ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	465 Bryant Road	E14893810
J0920-4336	Y1	JACK-OPEN	3	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Tue Sep 22 11:50:29 2020 Page 1
 ID:ccW1PrxLpgFN2DLKNuKwwAztnZ_-tlaOUzpTv_gP66_Jrk3jOOcUDn3Zvnwq1gcyuOyb4ye



Scale = 1:15.1

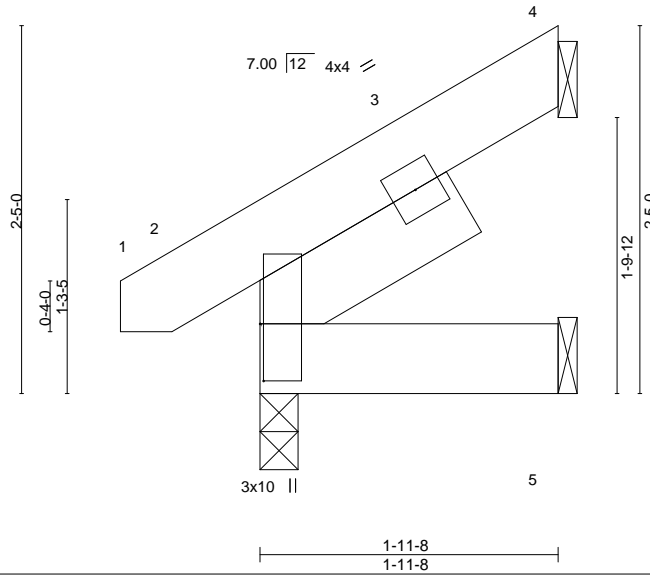


Plate Offsets (X,Y)-- [2:0-4-8,0-0-4]

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	2	****	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P						Weight: 16 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 SLIDER Left 2x6 SP No.1 -x 1-6-12

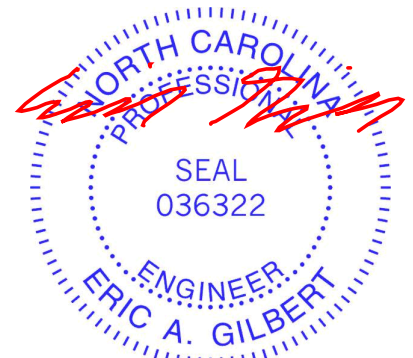
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 1-11-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 4=Mechanical, 2=0-3-0, 5=Mechanical
 Max Horz 2=62(LC 9)
 Max Uplift 4=57(LC 9)
 Max Grav 4=65(LC 16), 2=131(LC 1), 5=19(LC 1)

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) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) * This truss has been designed for a 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.
- 3) Refer to girder(s) for truss to truss connections.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4.



September 22, 2020

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

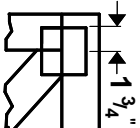
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



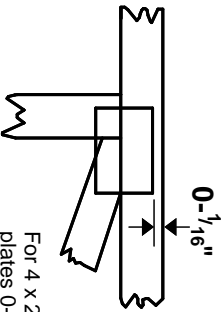
818 Soundside Road
 Edenton, NC 27932

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



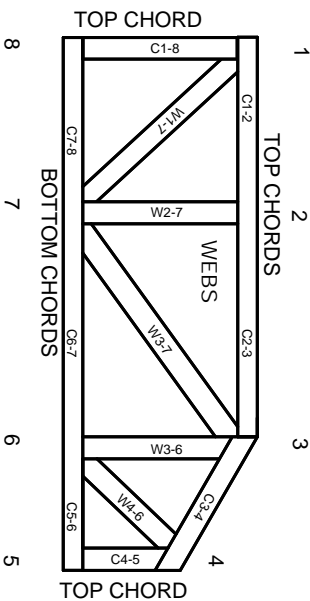
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.