

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J1018-4723
06-18-161 Allen

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: E12424849 thru E12424887

My license renewal date for the state of North Carolina is December 31, 2018.

North Carolina COA: C-0844



November 16, 2018

Gilbert, Eric

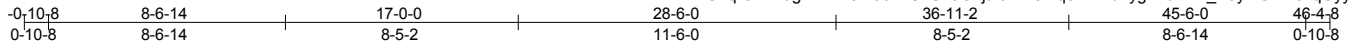
IMPORTANT NOTE: Truss Engineer's responsibility is solely for design of individual trusses based upon design parameters shown on referenced truss drawings. Parameters have not been verified as appropriate for any use. Any location identification specified is for file reference only and has not been used in preparing design. Suitability of truss designs for any particular building is the responsibility of the building designer, not the Truss Engineer, per ANSI/TPI-1, Chapter 2.

Job J1018-4723	Truss A01	Truss Type HIP	Qty 1	Ply 1	06-18-161 Allen	E12424849
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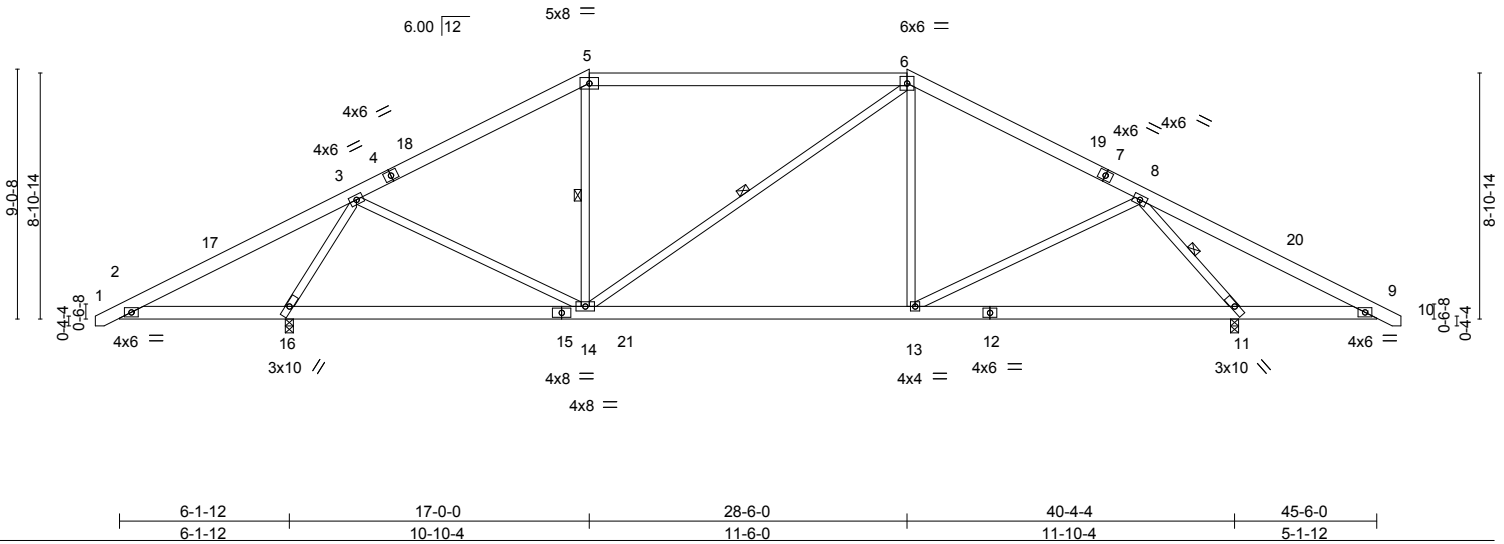
Comtech, Inc., Fayetteville, NC 28309

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ID:FU2qI0DKlugRTPmem99rDUzUkoG-ljt1trYR8mq3mVLd1ygZxbHvP_V9ymSDRovqCyyIuck



Scale = 1:83.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.27	13-14	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.37	13-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.93	Horz(CT) 0.03	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05	13-14	>999	240	Weight: 314 lb	FT = 20%

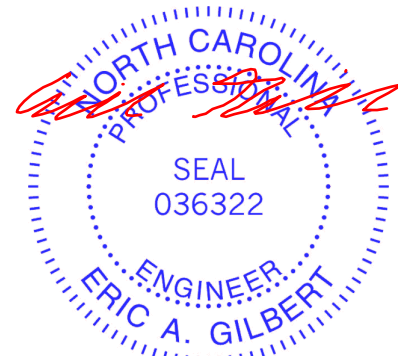
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-9-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-14, 6-14, 8-11

REACTIONS. (lb/size) 16=1920/0-3-8, 11=1806/0-3-8
 Max Horz 16=-133(LC 8)
 Max Uplift 16=-264(LC 10), 11=-254(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-698/721, 3-5=-1449/513, 5-6=-1210/559, 6-8=-1542/561, 8-9=-659/645
 BOT CHORD 2-16=-528/735, 14-16=-128/614, 13-14=-126/1292, 11-13=-54/856, 9-11=-464/703
 WEBS 3-16=-1955/1155, 3-14=-256/793, 6-13=0/314, 8-13=-78/533, 8-11=-2004/1182

- 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) 0-8-10 to 3-8-3, Interior(1) 3-8-3 to 10-9-5, Exterior(2) 10-9-5 to 34-8-11, Interior(1) 34-8-11 to 41-9-13 zone; cantilever left and right exposed ;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, 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=264, 11=254.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

Job J1018-4723	Truss A02	Truss Type HIP	Qty 1	Ply 1	06-18-161 Allen	E12424850
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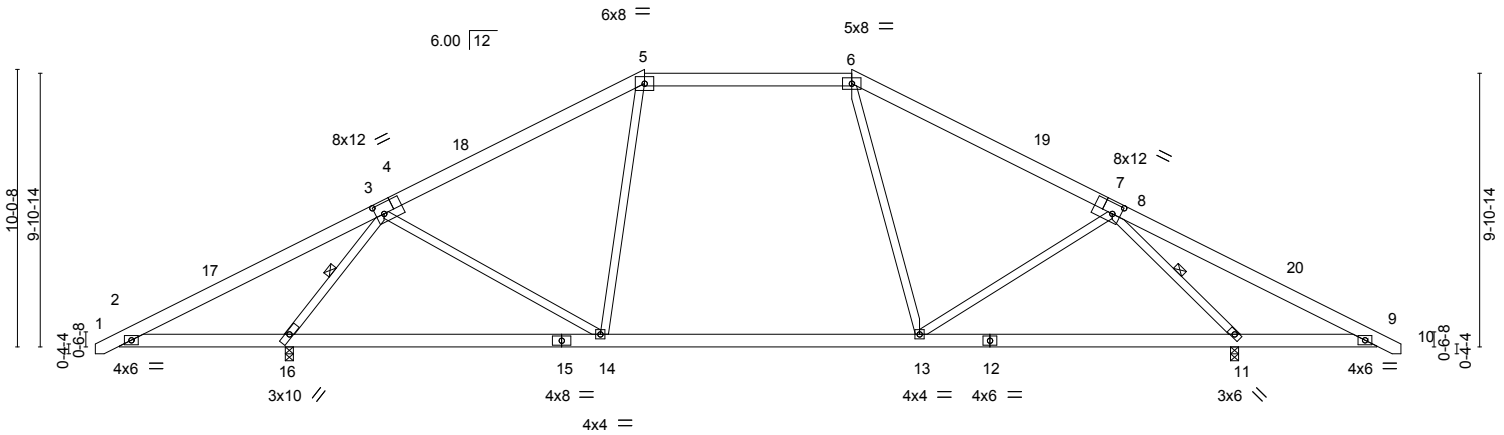
Comtech, Inc., Fayetteville, NC 28309

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ID:FU2qIODKlugRTPmem99rDUzUkoG-h5_oHWahgN5n0oV?8Ni100MIMoAIQILWv6OxHqylucl

0-10-8	9-6-14	19-0-0	26-6-0	35-11-2	45-6-0	46-4-8
0-10-8	9-6-14	9-5-2	7-6-0	9-5-2	9-6-14	0-10-8

Scale = 1:83.4



6-1-12	17-6-9	28-11-7	40-4-4	45-6-0
6-1-12	11-4-13	11-4-14	11-4-13	5-1-12

Plate Offsets (X,Y)-- [4:0-0-0,0-2-12], [4:0-3-8,0-4-8], [7:0-0-0,0-2-12], [7:0-3-8,0-4-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.31	11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.61	Vert(CT) -0.41	11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Horz(CT) 0.03	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.26	11-13	>999	240		
							Weight: 299 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 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 6-0-0 oc bracing.
 WEBS 1 Row at midpt 3-16, 8-11

REACTIONS.

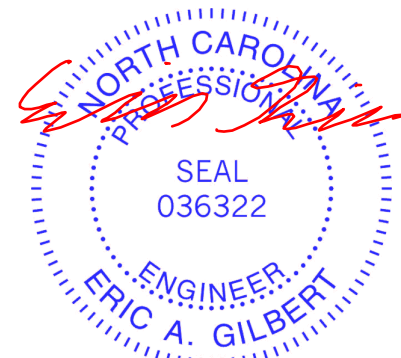
(lb/size) 16=1918/0-3-8, 11=1808/0-3-8
 Max Horz 16=-148(LC 8)
 Max Uplift 16=-278(LC 10), 11=-267(LC 11)

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

TOP CHORD 2-3=-734/772, 3-5=-1447/516, 5-6=-1168/591, 6-8=-1498/523, 8-9=-650/661
 BOT CHORD 2-16=-560/775, 14-16=-154/842, 13-14=-72/1168, 11-13=-116/1025, 9-11=-461/701
 WEBS 3-16=-2091/1222, 3-14=-108/598, 5-14=0/271, 6-13=0/327, 8-13=-59/374,
 8-11=-2088/1181

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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-9-5, Exterior(2) 12-9-5 to 32-8-11, Interior(1) 32-8-11 to 41-9-13 zone; cantilever left and right exposed ;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, 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=278, 11=267.



November 16, 2018

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818 Soundside Road
 Edenton, NC 27932

Job J1018-4723	Truss A03	Truss Type HIP TRUSS	Qty 1	Ply 1	06-18-161 Allen	E12424851
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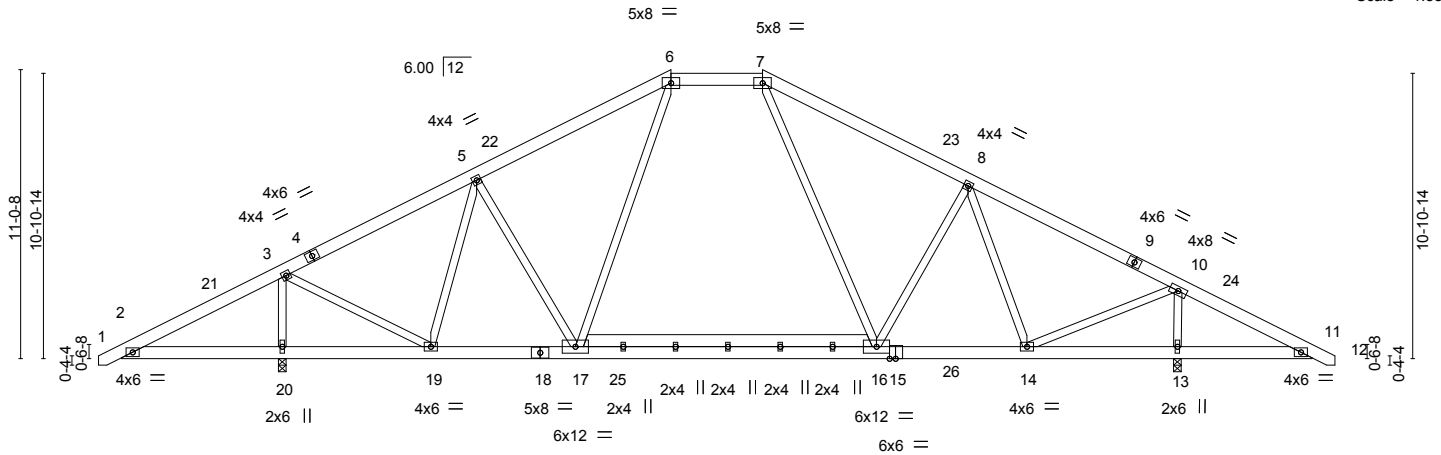
Comtech, Inc., Fayetteville, NC 28309

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ID:FU2qIODKlugRTPmem99rDUzUkoG-6ggwwYcZzITLGEaqVGkef_rG?B1d4qyb3dbu9ylucF

0-10-8	6-1-12	13-6-14	21-0-0	24-6-0	32-4-4	40-2-8	45-6-0	46-4-8
0-10-8	6-1-12	7-5-2	7-5-2	3-6-0	7-10-4	7-10-4	5-3-8	0-10-8

Scale = 1:88.1



6-1-12	11-9-14	17-6-0	28-10-4	34-7-4	40-6-0	45-6-0
6-1-12	5-8-2	5-8-2	11-4-4	5-9-0	5-10-12	5-0-0

Plate Offsets (X,Y)-- [15:0-2,12,0-0]

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 0.32	Vert(LL)	-0.29 16-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.63	Vert(CT)	-0.41 16-17	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.02 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.08 16	>999	240		
								Weight: 354 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 6-17,7-16: 2x4 SP No.2, 16-17: 2x6 SP No.1

BRACING-

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

REACTIONS.

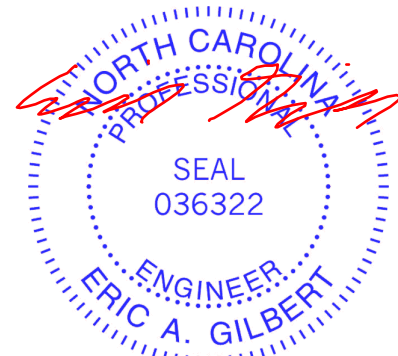
(lb/size) 20=1917/0-3-8, 13=1809/0-3-8
 Max Horz 20=-163(LC 8)
 Max Uplift 20=-292(LC 10), 13=-280(LC 11)
 Max Grav 20=1917(LC 2), 13=1820(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-609/586, 3-5=-1105/221, 5-6=-1462/522, 6-7=-1130/573, 7-8=-1561/559,
 8-10=-1254/285, 10-11=-518/457
 BOT CHORD 2-20=-434/635, 19-20=-434/635, 17-19=-118/1202, 16-17=-8/1155, 14-16=-90/1263,
 13-14=-408/584, 11-13=-327/540
 WEBS 3-20=-1729/906, 3-19=-618/1441, 5-19=-793/403, 5-17=-69/377, 6-17=-64/397,
 7-16=-96/528, 8-14=-686/332, 10-14=-618/1513, 10-13=-1641/838

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) -0-8-10 to 3-10-0, Interior(1) 3-10-0 to 14-6-13, Exterior(2) 14-6-13 to 30-11-3, Interior(1) 30-11-3 to 41-8-0 zone; cantilever left and right exposed ;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 20=292, 13=280.



November 16, 2018

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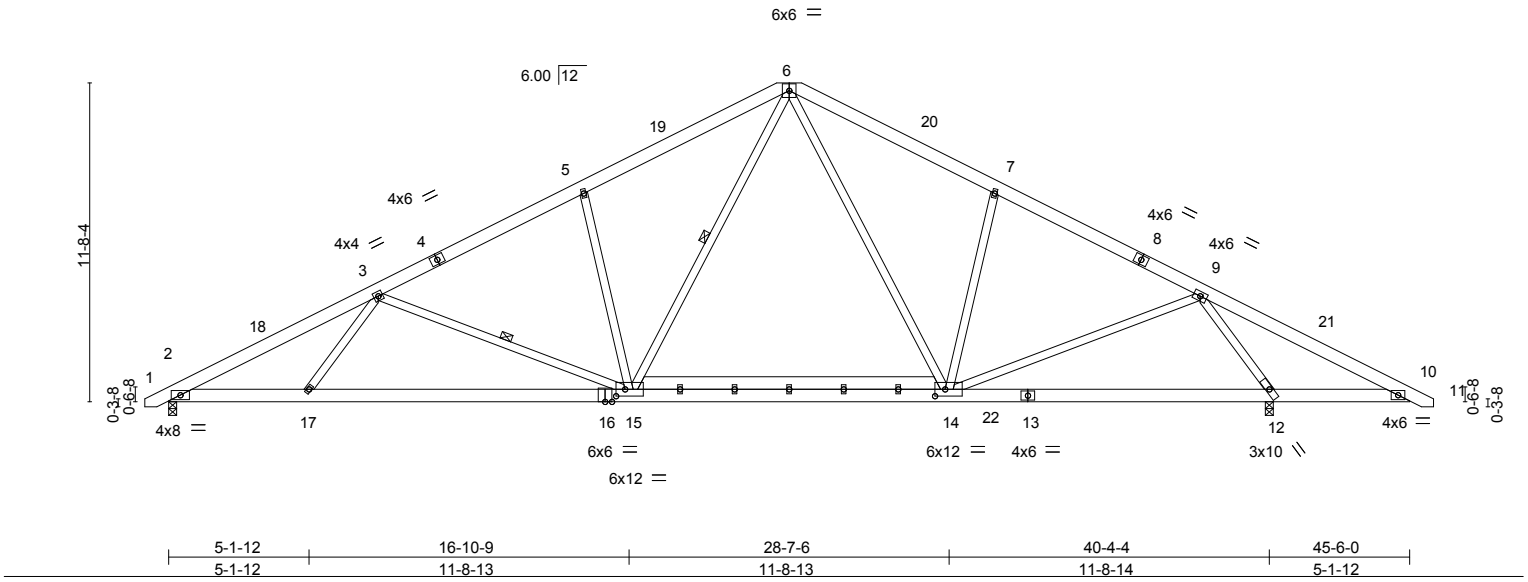
Job J1018-4723	Truss A04	Truss Type COMMON	Qty 3	Ply 1	06-18-161 Allen	E12424852
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Comtech, Inc., Fayetteville, NC 28309

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ID:FU2qlODKlugRTPmem99rDUzUkoG-23ohLEeqVvj36aOzxlCj44CDpt05x?F2N6iy2ylucD

0-10-8	7-8-3	15-2-9	22-9-0	30-3-7	37-9-13	45-6-0	46-4-8
0-10-8	7-8-3	7-6-7	7-6-7	7-6-7	7-6-7	7-8-3	0-10-8

Scale = 1:84.5



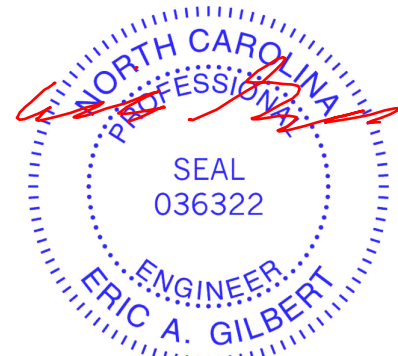
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.60	Vert(LL) -0.28 14-15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.95	Vert(CT) -0.40 14-15 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.06 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 15-17 >999 240		
				Weight: 356 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-2-5 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 14-15: 2x6 SP No.1	WEBS 1 Row at midpt 3-15, 6-15

REACTIONS. (lb/size) 2=1634/0-3-8, 12=2082/0-3-8
Max Horz 2=-177(LC 8)
Max Uplift 2=-256(LC 10), 12=-305(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3091/851, 3-5=-2316/770, 5-6=-2232/885, 6-7=-1889/736, 7-9=-1976/622,
9-10=-640/590
BOT CHORD 2-17=-607/2694, 15-17=-663/2583, 14-15=-132/1454, 12-14=-76/881, 10-12=-425/679
WEBS 3-17=0/479, 3-15=-653/321, 5-15=-445/320, 6-15=-358/1167, 6-14=-157/521,
7-14=-431/311, 9-14=-289/897, 9-12=-2218/1131

- 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) -0-7-14 to 3-8-15, Interior(1) 3-8-15 to 18-4-3, Exterior(2) 18-4-3 to 22-9-0, Interior(1) 27-1-13 to 41-9-1 zone; cantilever 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, 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=256, 12=305.



November 16, 2018

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818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss A06	Truss Type HIP	Qty 1	Ply 1	06-18-161 Allen	E12424854
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Comtech, Inc., Fayetteville, NC 28309

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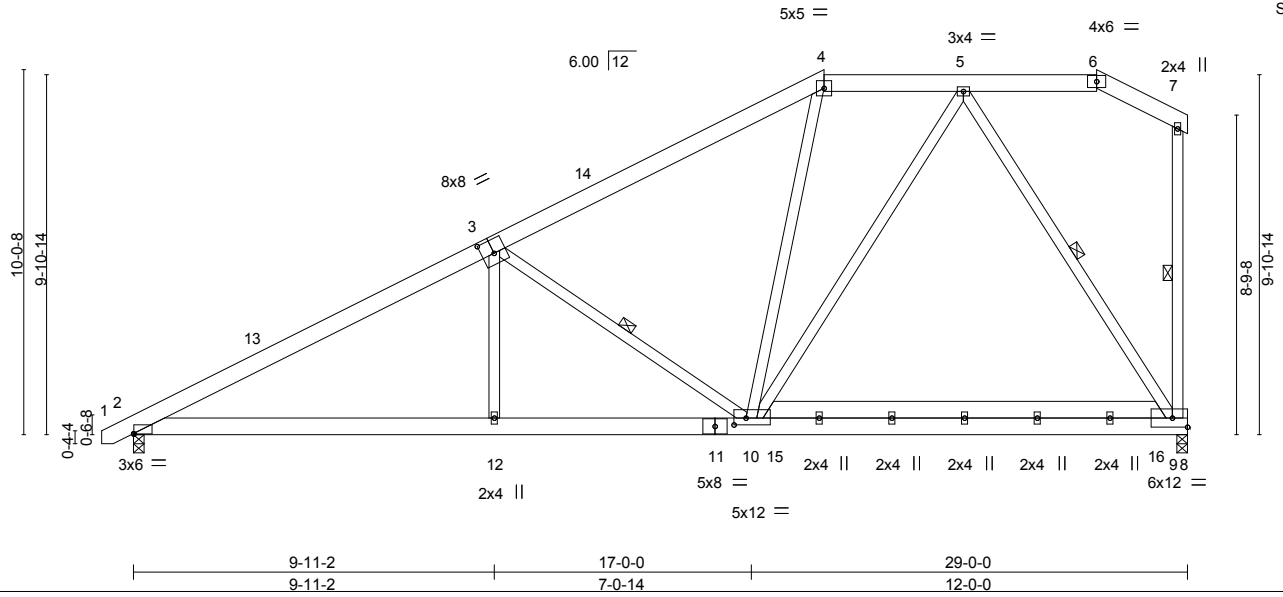
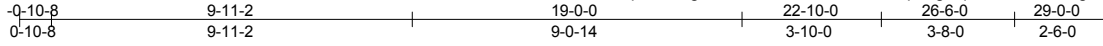


Plate Offsets (X,Y)-- [2:0-0-2,0-0-2], [3:0-4-0,0-4-8], [10:0-3-15,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.24	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.35	Vert(CT) -0.38	9-10	>912	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.58	Horz(CT) 0.02	9	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.05	2-12	>999	240		
							Weight: 247 lb	FT = 20%

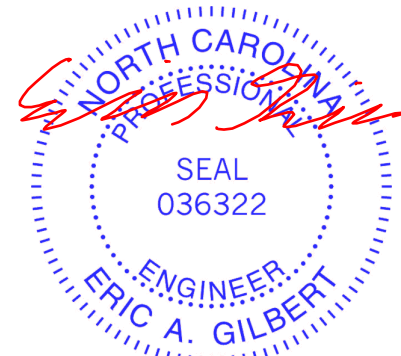
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP 2400F 2.0E
 WEBS 2x4 SP No.3 *Except*
 5-10,5-9: 2x4 SP No.2, 9-10: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-2-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 3-10, 7-9, 5-9

REACTIONS. (lb/size) 2=1196/0-3-8, 9=1148/0-3-8
 Max Horz 2=343(LC 10)
 Max Uplift 2=-167(LC 10), 9=-162(LC 10)
 Max Grav 2=1196(LC 1), 9=1256(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1920/565, 3-4=-1218/424, 4-5=-940/495
 BOT CHORD 2-12=-785/1608, 10-12=-783/1612, 9-10=-288/564
 WEBS 3-12=0/322, 3-10=-827/451, 4-10=0/273, 5-10=-274/748, 5-9=-1045/542

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-9-5, Exterior(2) 12-9-5 to 28-8-12 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, 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=167, 9=162.



November 16,2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



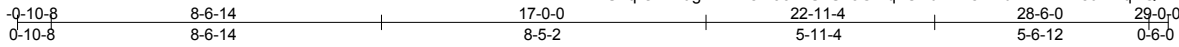
818 Soundside Road
 Edenton, NC 27932

Job J1018-4723	Truss A07	Truss Type HIP	Qty 1	Ply 1	06-18-161 Allen	E12424855
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:36:52 2018 Page 1

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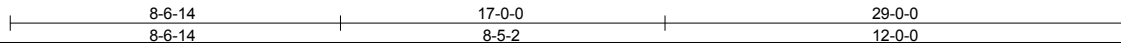
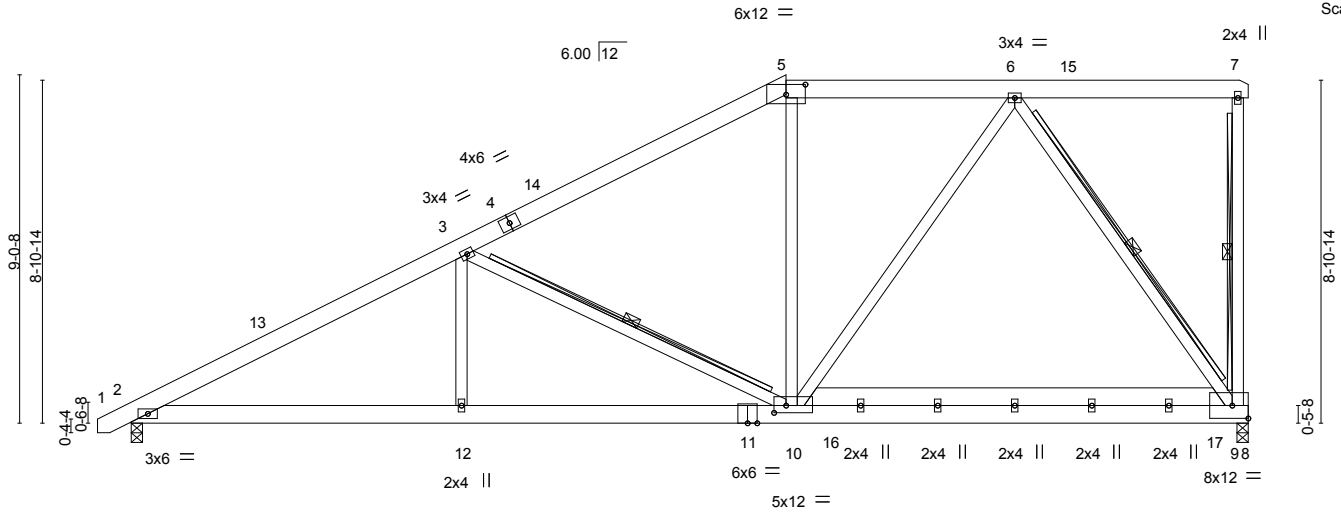


Plate Offsets (X, Y)-- [5:0-6-0-0-3-2], [10:0-3-12,0-2-4]

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 0.55	Vert(LL)	-0.29	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.62	Vert(CT)	-0.44	9-10	>785		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.59	Horz(CT)	0.03	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.05	2-12	>999		
								Weight: 241 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 9-10: 2x6 SP No.1
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-5-9 oc bracing.
 WEBS 1 Row at midpt 3-10, 7-9, 6-9

REACTIONS.

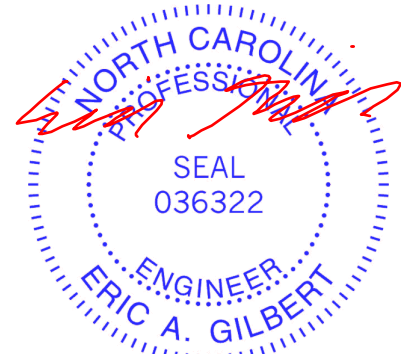
(lb/size) 2=1196/0-3-8, 9=1148/0-3-8
 Max Horz 2=329(LC 10)
 Max Uplift 2=-161(LC 10), 9=-204(LC 7)
 Max Grav 2=1196(LC 1), 9=1257(LC 2)

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

TOP CHORD 2-3=-1988/602, 3-5=-1235/420, 5-6=-1016/464
 BOT CHORD 2-12=-852/1680, 10-12=-852/1680, 9-10=-324/629
 WEBS 3-12=0/324, 3-10=-802/435, 6-10=-244/705, 6-9=-1092/575

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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 10-9-5, Exterior(2) 10-9-5 to 17-0-0, Interior(1) 22-11-4 to 24-3-15 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, 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=161, 9=204.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



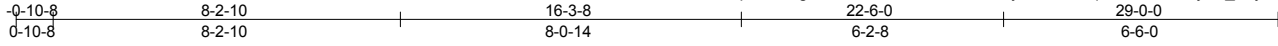
818 Soundside Road
 Edenton, NC 27932

Job J1018-4723	Truss A08	Truss Type HALF HIP	Qty 1	Ply 1	06-18-161 Allen	E12424856
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:36:54 2018 Page 1

ID:FU2qIODKlugRTPmem99rDUzUkoG-tD9ybHia4ITDqVr6IBPczLJ8yDv_Vky8RJZ0Ayluc7



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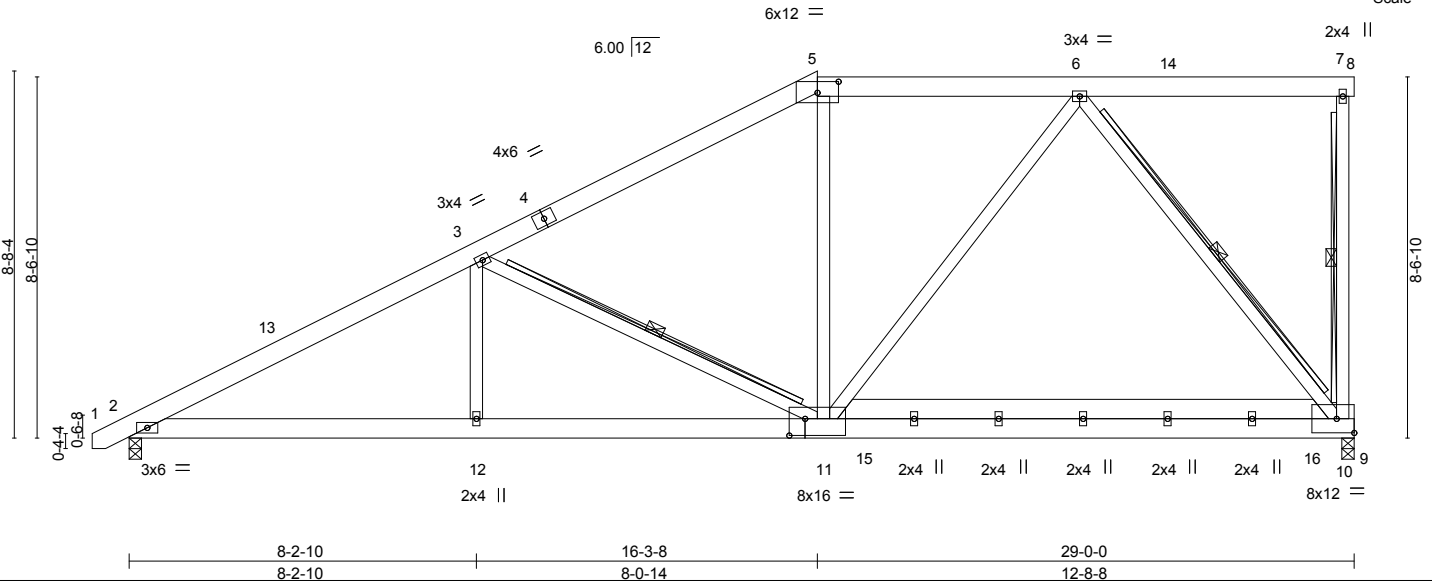


Plate Offsets (X,Y)-- [5:0-6-0,0-3-2], [11:0-4-8,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.66	Vert(LL) -0.36	10-11	>951	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.69	Vert(CT) -0.54	10-11	>636	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.60	Horz(CT) 0.03	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05	12	>999	240		
							Weight: 240 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 10-11: 2x6 SP No.1
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-3-15 oc bracing.
 WEBS 1 Row at midpt 7-10, 3-11, 6-10

REACTIONS.

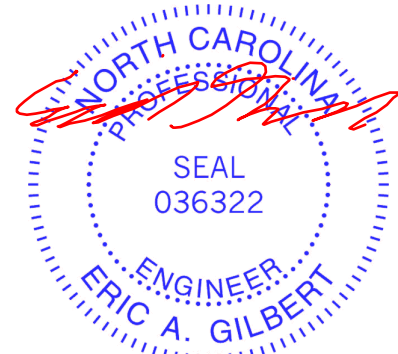
(lb/size) 10=1153/0-3-8, 2=1196/0-3-8
 Max Horz 2=316(LC 10)
 Max Uplift 10=-211(LC 7), 2=-160(LC 10)
 Max Grav 10=1274(LC 2), 2=1196(LC 1)

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

TOP CHORD 2-3=-2000/636, 3-5=-1315/453, 5-6=-1094/491
 BOT CHORD 2-12=-874/1694, 11-12=-874/1694, 10-11=-357/698
 WEBS 3-12=0/292, 3-11=-751/430, 5-11=0/274, 6-11=-219/683, 6-10=-1114/587

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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 10-0-13, Exterior(2) 10-0-13 to 16-3-8, Interior(1) 22-6-0 to 24-7-3 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, 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) 10=211, 2=160.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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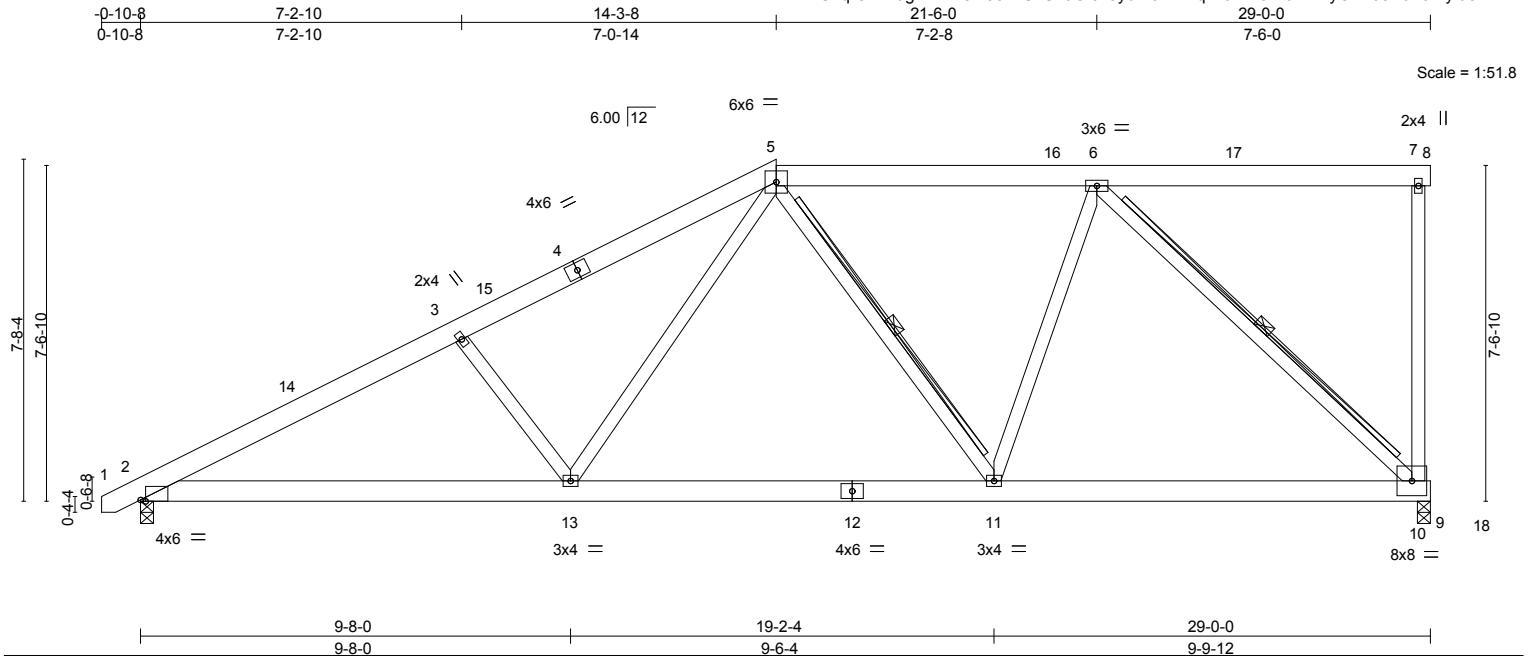


818 Soundside Road
 Edenton, NC 27932

Job J1018-4723	Truss A09	Truss Type HALF HIP	Qty 1	Ply 1	06-18-161 Allen	E12424857
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Comtech, Inc., Fayetteville, NC 28309

8,130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:36:54 2018 Page 1
ID:FU2qIQDKlugRTPmem99rDUzUkoG-tD9ybHia4ITDqVr6IBPczLJDBDyGVh08RJZ0AiyLuc7



Scale = 1:51.8

LOADING (psf)		SPACING-		CSI.		DEFL.			PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.32	Vert(LL)	-0.11	11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.48	Vert(CT)	-0.18	10-11	>999	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.78	Horz(CT)	0.04	10	n/a	n/a		
BCDL	10.0	Code IRC2015/TP12014		Matrix-S		Wind(LL)	0.05	13	>999	240	Weight: 207 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 5-1-11 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 8-2-13 oc bracing: 2-13.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-11, 6-10
OTHERS	2x6 SP No.1		

REACTIONS. (lb/size) 10=1153/0-3-8, 2=1196/0-3-8
 Max Horz 2=278(LC 10)
 Max Uplift 10=-215(LC 7), 2=-157(LC 10)
 Max Grav 10=1381(LC 2), 2=1235(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2170/721, 3-5=-1979/704, 5-6=-1271/454
 BOT CHORD 2-13=-918/1880, 11-13=-581/1316, 10-11=-425/1070
 WEBS 3-13=-395/359, 5-13=-234/732, 6-11=-86/671, 6-10=-1479/593

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-0-13, Exterior(2) 8-0-13 to 14-3-8, Interior(1) 20-6-3 to 24-7-3 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, 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) 10=215, 2=157.



November 16, 2018

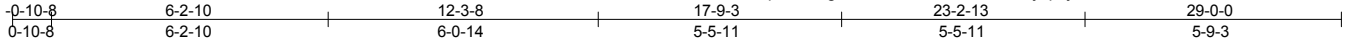
Job J1018-4723	Truss A10	Truss Type HALF HIP	Qty 1	Ply 1	06-18-161 Allen	E12424858
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:36:55 2018 Page 1

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Job Reference (optional)



Scale = 1:51.8

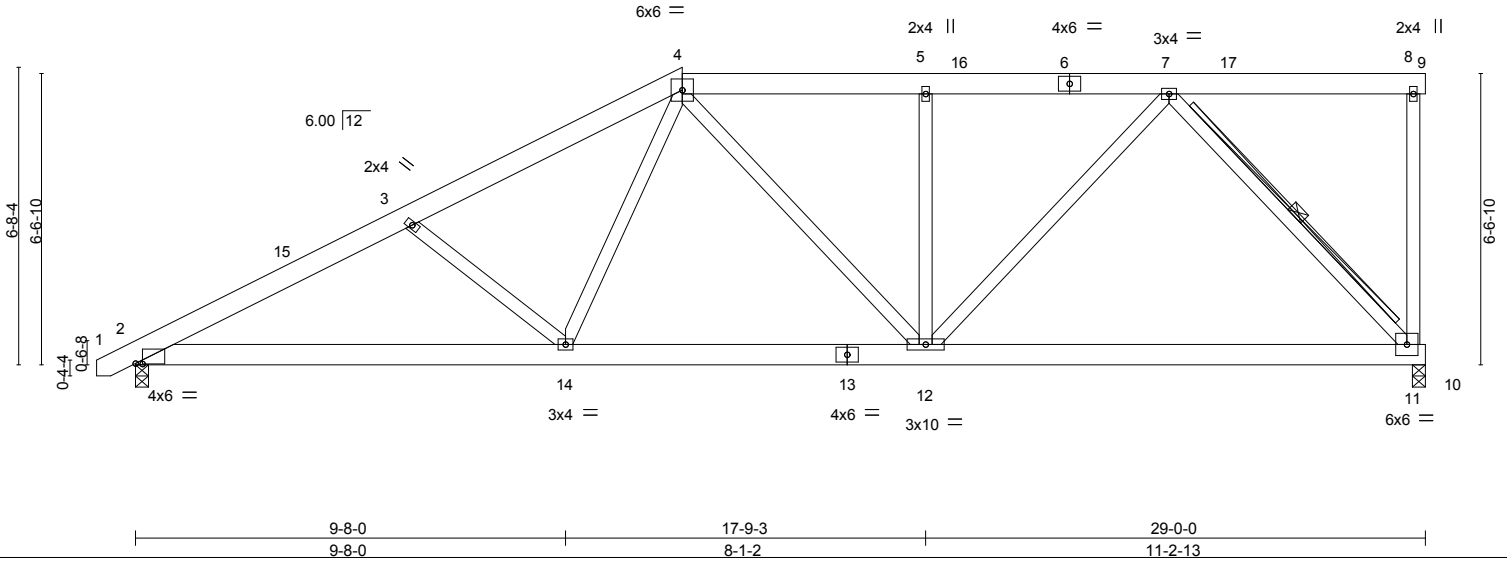


Plate Offsets (X,Y)-- [2:0-1-14,0-0-2]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.39	Vert(LL) -0.11	11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.24	11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.45	Horz(CT) 0.03	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05	12-14	>999	240		
							Weight: 209 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 8-0-8 oc bracing.
 WEBS 1 Row at midpt 7-11

REACTIONS.

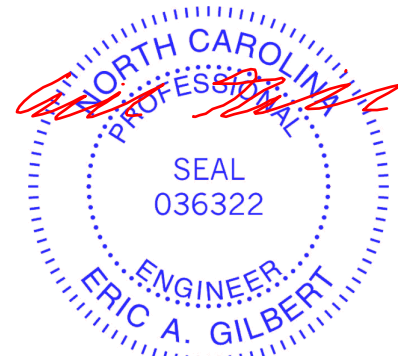
(lb/size) 11=1153/0-3-8, 2=1196/0-3-8
 Max Horz 2=240(LC 10)
 Max Uplift 11=218(LC 7), 2=151(LC 10)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2029/807, 3-4=-1744/704, 4-5=-1320/565, 5-7=-1318/563
 BOT CHORD 2-14=-964/1754, 12-14=-641/1312, 11-12=-386/831
 WEBS 3-14=-352/344, 4-14=-150/460, 5-12=-346/218, 7-12=-265/729, 7-11=-1222/577

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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 6-0-4, Exterior(2) 6-0-4 to 12-3-8, Interior(1) 18-6-3 to 24-7-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Provide adequate drainage to prevent water ponding.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 11=218, 2=151.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mil-7473 rev. 10/03/2015 BEFORE USE.

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 Edenton, NC 27932

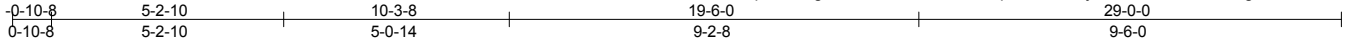
Job J1018-4723	Truss A11	Truss Type HALF HIP	Qty 1	Ply 1	06-18-161 Allen	E12424859
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:36:56 2018 Page 1

ID:FU2qIODKlugRTPmem99rDUzUkoG-pbHi0zkrNjx4o?VPcR42mPYo1glzYcQud27Eayluc5

Job Reference (optional)



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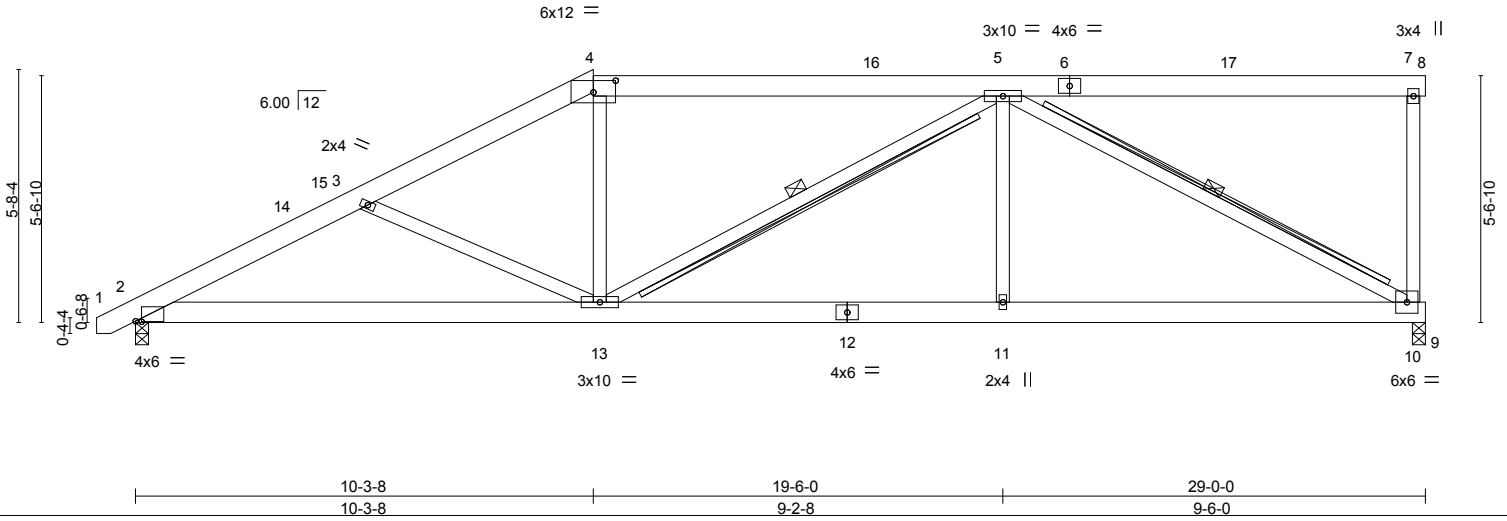


Plate Offsets (X,Y)-- [2:0-1-10,0-0-2], [4:0-6-0,0-3-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.08	2-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.18	2-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(CT) 0.04	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06	11-13	>999	240		
							Weight: 200 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-4-4 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-11-2 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-13, 5-10
OTHERS 2x6 SP No.1	

REACTIONS. (lb/size) 10=1153/0-3-8, 2=1196/0-3-8
Max Horz 2=202(LC 10)
Max Uplift 10=221(LC 7), 2=142(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2043/874, 3-4=-1744/700, 4-5=-1520/695
BOT CHORD 2-13=-989/1769, 11-13=-632/1529, 10-11=-632/1529
WEBS 3-13=-287/326, 4-13=-4/438, 5-11=0/382, 5-10=-1714/711

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 4-0-13, Exterior(2) 4-0-13 to 10-3-8, Interior(1) 16-6-3 to 24-7-3 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=221, 2=142.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE Mil-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss A12	Truss Type HALF HIP	Qty 1	Ply 1	06-18-161 Allen	E12424860
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:36:57 2018 Page 1
ID:FU2qIODKlugRTPmem99rDUzUkoG-Hoq5EJITNgrohyahzJyJbzxkdR0ai5Oa7Hnhm0yluc4



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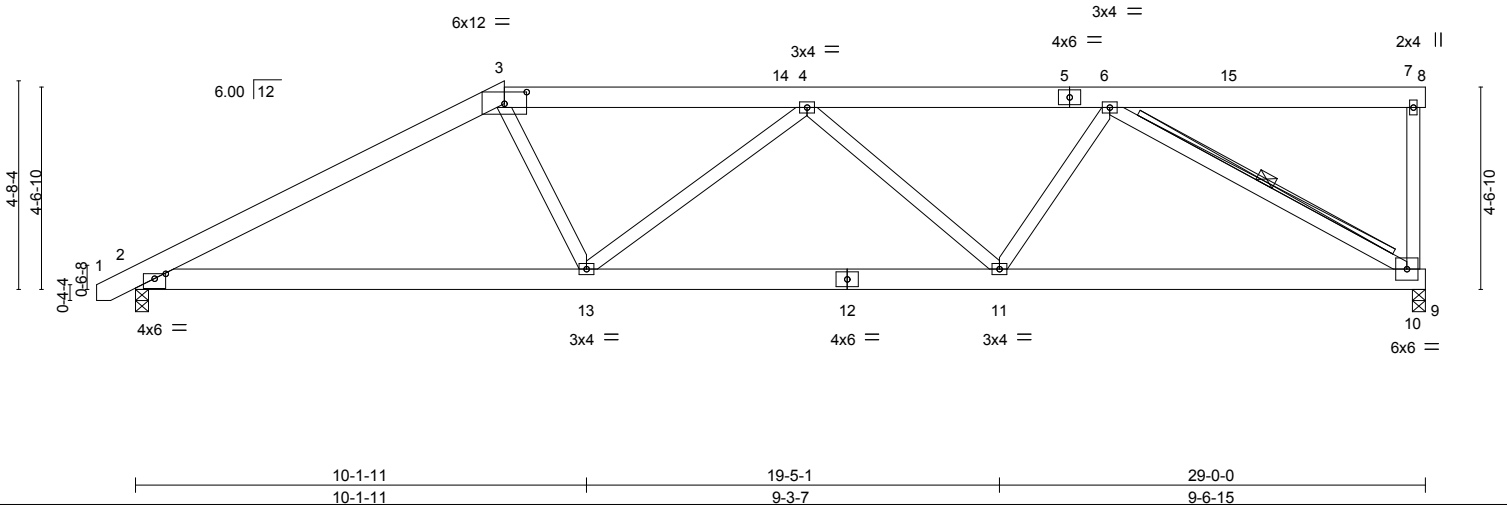


Plate Offsets (X,Y)--	[2:0-3-0,0-1-5], [3:0-6-0,0-3-2]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) -0.07	2-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.18	2-13	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.62	Horz(CT) 0.04	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06	2-13	>999	240		
							Weight: 187 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 8-6-10 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-10
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 10=1153/0-3-8, 2=1196/0-3-8
Max Horz 2=164(LC 10)
Max Uplift 10=223(LC 7), 2=151(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1952/747, 3-4=-1823/762, 4-6=-1757/644
BOT CHORD 2-13=-766/1646, 11-13=-843/2023, 10-11=-596/1492
WEBS 3-13=-14/506, 4-13=-363/181, 4-11=-367/274, 6-11=-93/572, 6-10=-1707/687

- 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) -0-8-10 to 14-6-3, Interior(1) 14-6-3 to 24-7-3, Exterior(2) 24-7-3 to 29-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=223, 2=151.

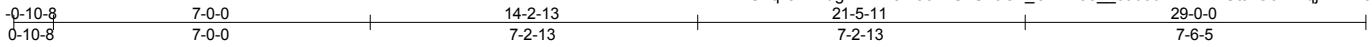


November 16, 2018

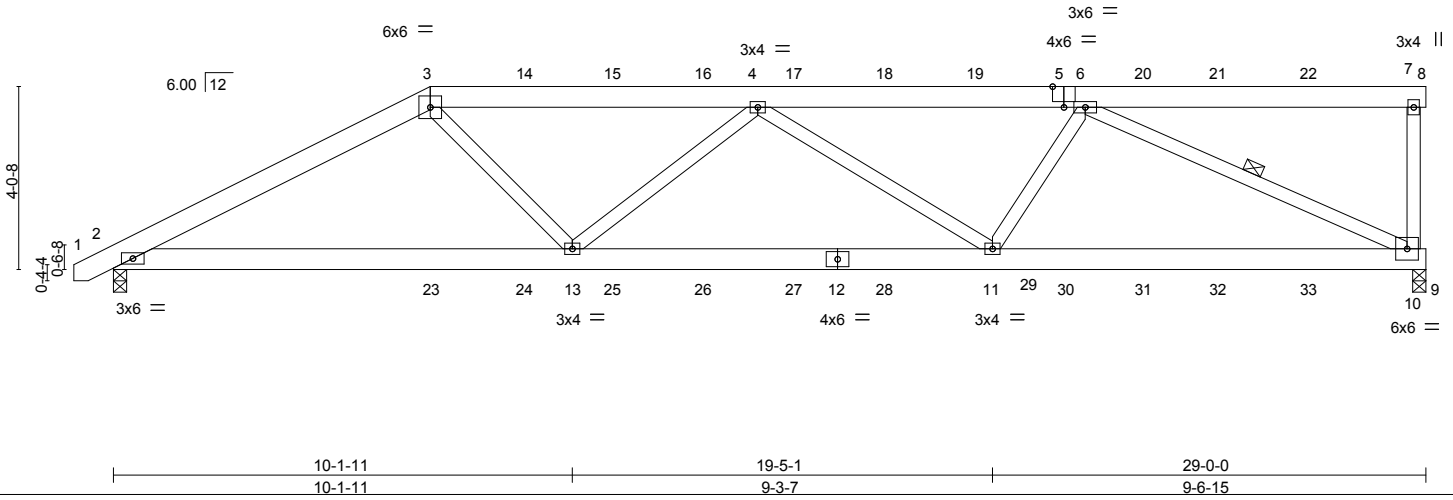
Job J1018-4723	Truss A13	Truss Type HALF HIP GIRDER	Qty 1	Ply 2	06-18-161 Allen	E12424861
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:36:58 2018 Page 1
ID:FU2qIODKlugRTPmem99rDUzUkoG-I_OTRf158_eJ69uX1TY7BUtarGcRWqjMxXEJTyIuc3



Scale = 1:50.9



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.43	Vert(LL)	-0.12	2-13	>999	L/d	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.25	2-13	>999		240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.67	Horz(CT)	0.06	10	n/a	n/a			
BCDL	10.0	Code IRC2015/TP12014		Matrix-S		Wind(LL)	0.14	2-13	>999	240		Weight: 370 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

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 1 Row at midpt 6-10

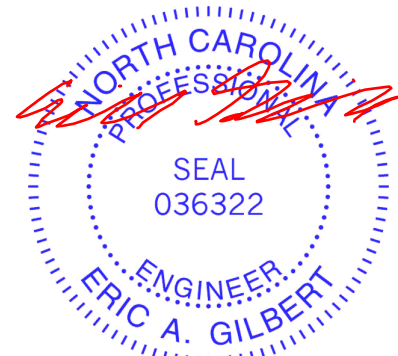
REACTIONS. (lb/size) 10=2864/0-3-8, 2=2400/0-3-8
Max Horz 2=144(LC 8)
Max Uplift 10=-928(LC 5), 2=-645(LC 8)

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

TOP CHORD 2-3=-4347/1296, 3-4=-4879/1391, 4-6=-4554/1290, 7-10=-680/396
BOT CHORD 2-13=-1189/3812, 11-13=-1703/5353, 10-11=-1278/4030
WEBS 3-13=-327/1614, 4-13=-631/447, 4-11=-972/503, 6-11=-24/1250, 6-10=-4394/1406

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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; 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.
- Concentrated loads from layout are not present in Load Case(s): #2 Dead + 0.75 Roof Live (balanced); #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #14 Dead; #18 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #19 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #20 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #21 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel).
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 10=928, 2=645.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 140 lb down and 111 lb up at 7-0-0, 140 lb down and 111 lb up at 9-0-12, 140 lb down and 111 lb up at 11-0-12, 140 lb down and 111 lb up at 13-0-12, 140 lb down and 111 lb up at 15-0-12, 140 lb down and 111 lb up at 17-0-12, 140 lb down and 111 lb up at 19-0-12, 140 lb down and 111 lb up at 21-0-12, 140 lb down and 111 lb up at 22-9-0, 140 lb down and 111 lb up at 24-5-4, and 140 lb down and 111 lb up at 26-5-4, and 333 lb down and 233 lb up at 28-8-12 on top chord, and 505 lb down and 153 lb up at 7-0-0, 96 lb down at 9-0-12, 96 lb down at 11-0-12, 96 lb down at 13-0-12, 96 lb down at 15-0-12, 96 lb down at 17-0-12, 96 lb down at 19-0-12, 96 lb down at 21-0-12, 96 lb down at 22-9-0, 96 lb down at 24-5-4, and 96 lb down at 26-5-4, and 105 lb down at 28-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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Continued on page 2
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss A13	Truss Type HALF HIP GIRDER	Qty 1	Ply 2	06-18-161 Allen Job Reference (optional)	E12424861
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:36:58 2018 Page 2
ID:FU2qIODKlugRTPmem99rDUzUkoG-I_OTRf158__eJ69uX1TY7BUtarGcRWqjMxXEJTyluc3

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 7-8=-20, 2-9=-20

Concentrated Loads (lb)

Vert: 3=-140(F) 5=-140(F) 7=-333(F) 10=-52(F) 14=-140(F) 15=-140(F) 16=-140(F) 17=-140(F) 18=-140(F) 19=-140(F) 20=-140(F) 21=-140(F) 22=-140(F) 23=-505(F) 24=-48(F) 25=-48(F) 26=-48(F) 27=-48(F) 28=-48(F) 29=-48(F) 30=-48(F) 31=-48(F) 32=-48(F) 33=-48(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss B01	Truss Type ROOF SPECIAL	Qty 1	Ply 1	06-18-161 Allen	E12424862
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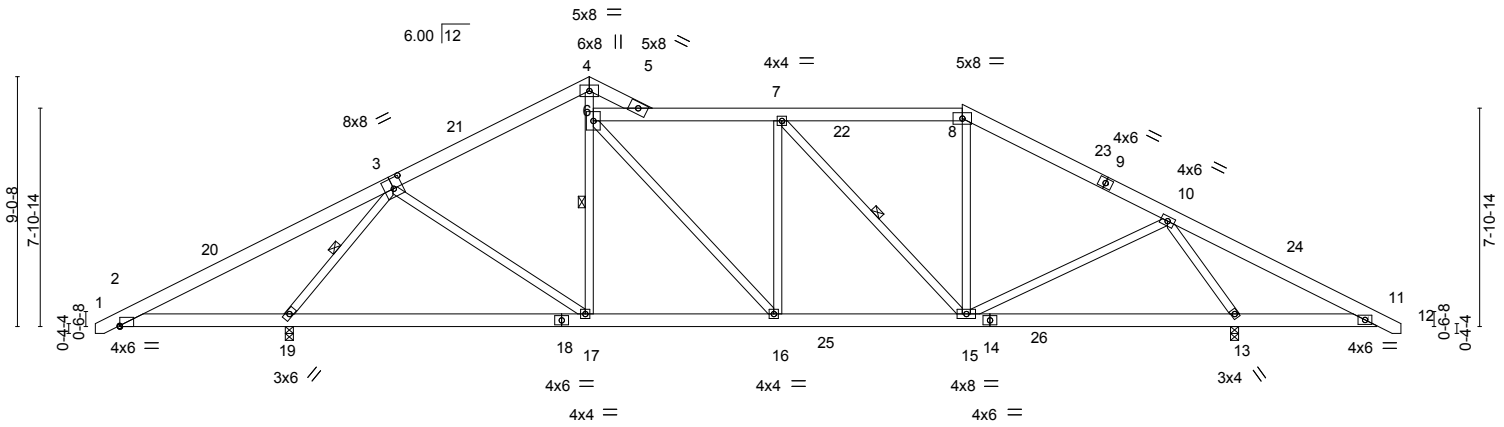
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:36:59 2018 Page 1

ID:FU2qIODKlugRTPmem99rDUzUkoG-DAYre_mjvl6VxGj44k_ngO1?1Ei_AxltabGnrVyluc2

0-10-8	6-1-12	8-6-14	9-10-12	17-0-0	19-0-0	23-9-14	30-6-0	37-11-2	45-6-0	46-4-8
0-10-8	6-1-12	2-5-2	1-3-14	7-1-4	2-0-0	4-9-14	6-8-2	7-5-2	7-6-14	0-10-8

Scale = 1:83.4



6-1-12	12-4-3	17-0-0	23-10-12	30-6-0	40-4-4	45-6-0
6-1-12	6-2-7	4-7-13	6-10-12	6-7-4	9-10-4	5-1-12

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

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 0.64	Vert(LL)	-0.09 16-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.32	Vert(CT)	-0.17 17-19	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.03 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.06 16-17	>999	240		
								Weight: 333 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 4-17, 7-15, 3-19

REACTIONS.

(lb/size) 13=1810/0-3-8, 19=1916/0-3-8
 Max Horz 19=135(LC 9)
 Max Uplift 13=331(LC 11), 19=263(LC 10)

FORCES.

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

TOP CHORD 2-3=-444/782, 3-4=-1424/572, 4-5=-1174/521, 5-6=-569/226, 5-7=-1680/710,
 7-8=-1277/583, 8-10=-1525/567, 10-11=-381/609
 BOT CHORD 2-19=-571/529, 17-19=-138/831, 16-17=-108/1221, 15-16=-295/1680, 13-15=-68/679,
 11-13=-441/447
 WEBS 4-6=-175/715, 6-16=-276/728, 7-16=-344/244, 7-15=-600/191, 8-15=0/382,
 10-15=-110/682, 10-13=-1907/922, 3-17=-37/543, 3-19=-2079/1002

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) 0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-7-3, Exterior(2) 12-7-3 to 17-0-0, Interior(1) 19-2-11 to 26-1-3, Exterior(2) 30-6-0 to 46-2-10 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, 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) 13=331, 19=263.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 16, 2018

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



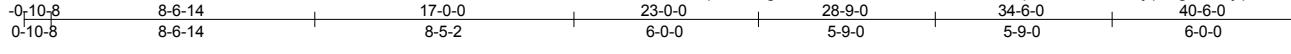
818 Soundside Road
 Edenton, NC 27932

Job J1018-4723	Truss B03	Truss Type ROOF SPECIAL	Qty 1	Ply 1	06-18-161 Allen	E12424864
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Comtech, Inc., Fayetteville, NC 28309

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Scale = 1:74.9

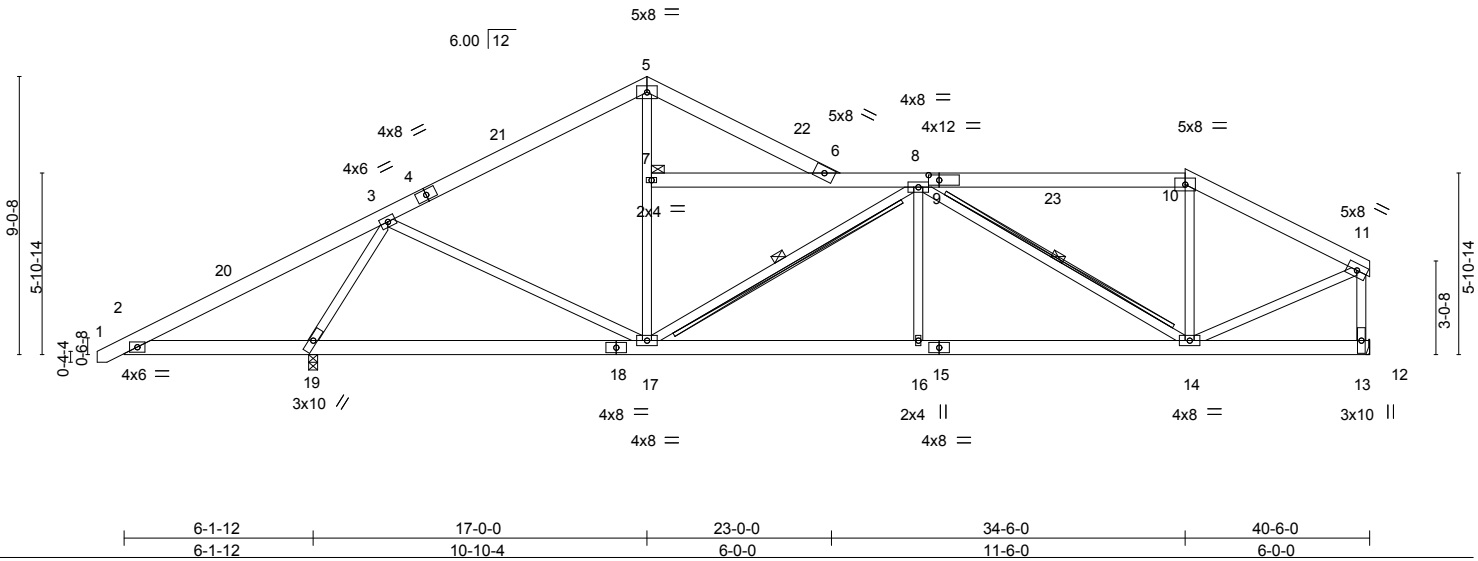


Plate Offsets (X,Y)-- [9:0-4-2.0-2-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.65	Vert(LL)	-0.11 16-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.22 16-17	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.04 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.10 16-17	>999	240	Weight: 304 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-9-13 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 8-14, 8-17
 JOINTS 1 Brace at Jt(s): 7

REACTIONS.

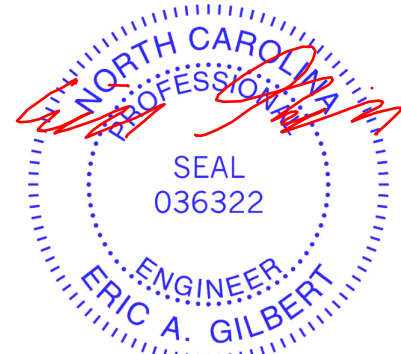
(lb/size) 19=1942/0-3-8, 13=1324/Mechanical
 Max Horz 19=192(LC 10)
 Max Uplift 19=262(LC 10), 13=-231(LC 11)

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

TOP CHORD 2-3=-701/707, 3-5=-1355/504, 5-6=-1246/492, 6-8=-1110/372, 8-10=-1159/536, 10-11=-1365/512, 11-13=-1277/514
 BOT CHORD 2-19=-514/739, 17-19=-167/528, 16-17=-665/2120, 14-16=-665/2120
 WEBS 3-19=-1965/1139, 3-17=-263/691, 7-17=-52/587, 5-7=-86/656, 10-14=0/343, 11-14=-384/1258, 8-16=0/339, 8-14=-1132/348, 8-17=-1192/538

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) 0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-7-3, Exterior(2) 12-7-3 to 17-0-0, Interior(1) 21-4-13 to 23-2-11, Exterior(2) 30-1-3 to 34-6-0 zone; cantilever left exposed ;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 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) 19=262, 13=231.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



November 16, 2018

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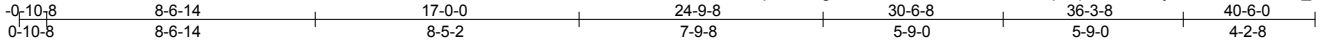
818 Soundside Road
 Edenton, NC 27932

Job J1018-4723	Truss B04	Truss Type ROOF SPECIAL	Qty 1	Ply 1	06-18-161 Allen	E12424865
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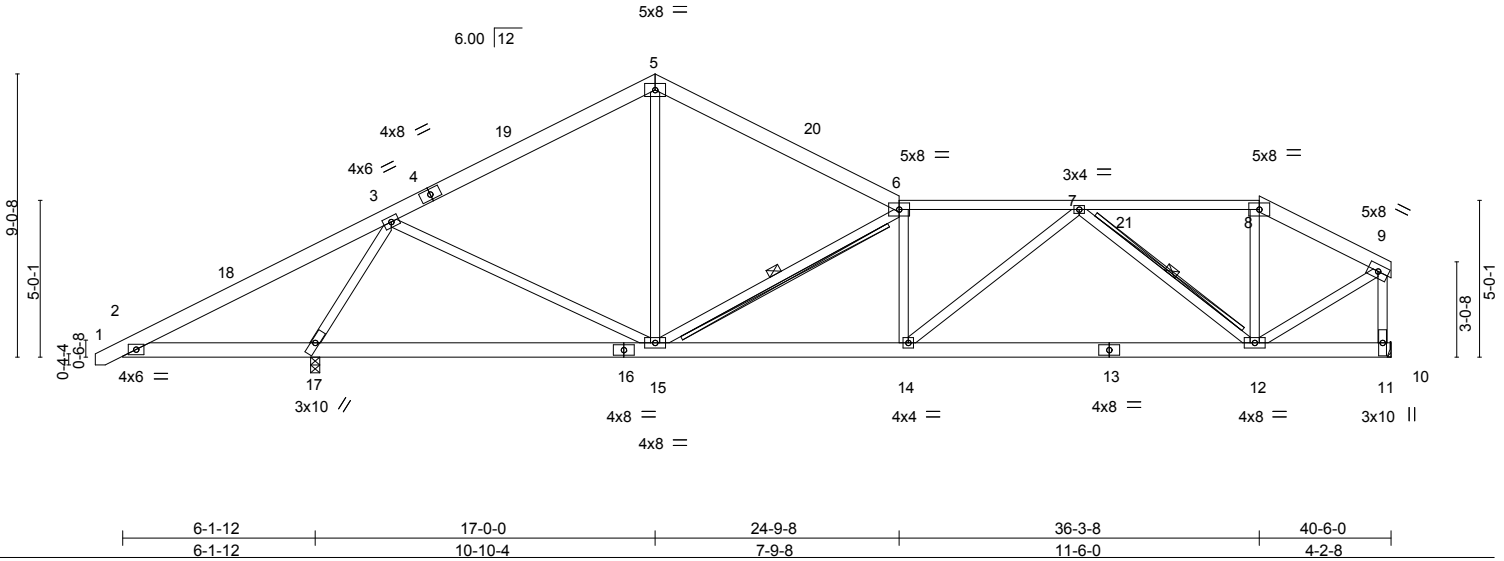
Comtech, Inc., Fayetteville, NC 28309

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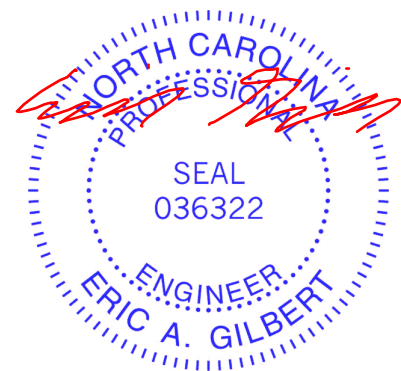
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.11 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.94	Vert(CT) -0.27 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.09 14 >999 240	Weight: 280 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 6-8: 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-9-13 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 6-15, 7-12
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 17=1942/0-3-8, 11=1324/Mechanical
 Max Horz 17=192(LC 10)
 Max Uplift 17=262(LC 10), 11=231(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-705/705, 3-5=-1353/492, 5-6=-1327/482, 6-7=-2369/816, 7-8=-1066/435,
 8-9=-1227/427, 9-11=-1317/473
 BOT CHORD 2-17=-513/742, 15-17=-167/530, 14-15=-703/2374, 12-14=-651/1953
 WEBS 3-17=-1967/1132, 3-15=-259/685, 5-15=-69/689, 6-15=-1486/578, 7-14=-62/540,
 7-12=-1152/432, 8-12=0/322, 9-12=-369/1253

- 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) 0-8-10 to 3-8-3, Interior(1) 3-8-3 to 12-7-3, Exterior(2) 12-7-3 to 17-0-0, Interior(1) 21-4-13 to 24-9-8, Exterior(2) 31-10-11 to 36-3-8 zone; cantilever left exposed ;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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 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) 17=262, 11=231.



November 16, 2018

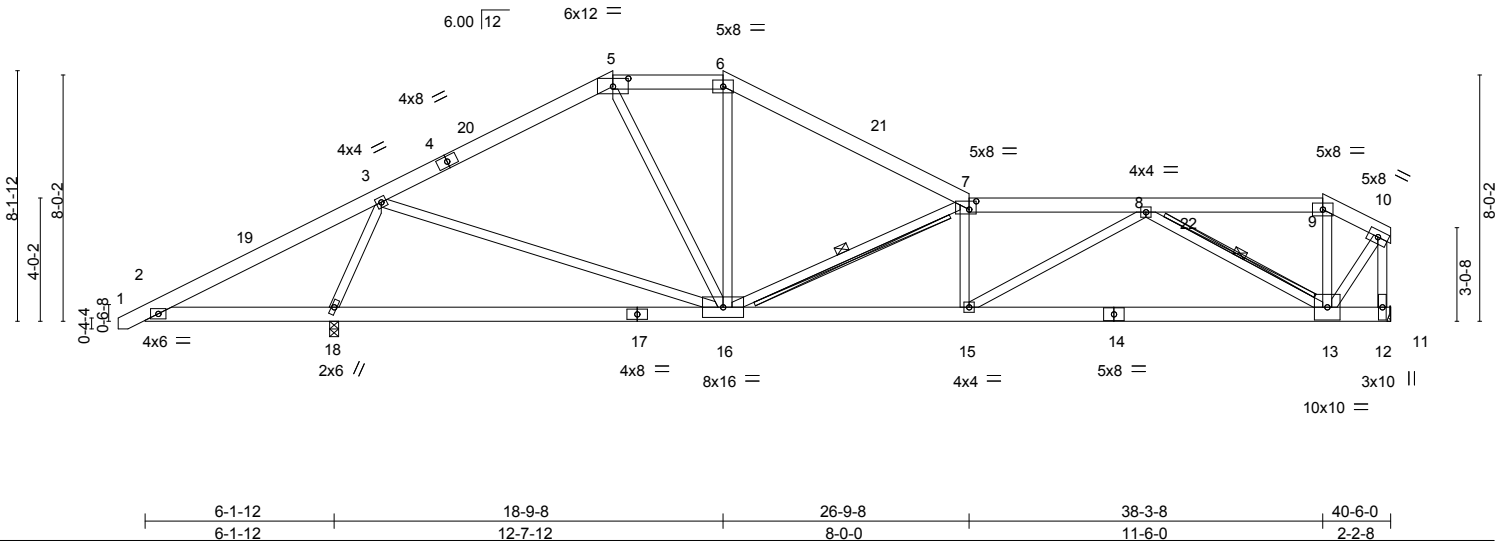
Job J1018-4723	Truss B05	Truss Type ROOF SPECIAL	Qty 1	Ply 1	06-18-161 Allen	E12424866
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:04 2018 Page 1
ID:FU2qlODKlugRTPmem99rDUzUkoG-a8lkiqskqko11c1tHayNSkwSFMLrBmckt_YV6ylubz

-0-10-8	7-8-2	15-2-8	18-9-8	26-9-8	32-6-8	38-3-8	40-6-0
0-10-8	7-8-2	7-6-6	3-7-0	8-0-0	5-9-0	5-9-0	2-2-8

Scale = 1:74.9



6-1-12	18-9-8	26-9-8	38-3-8	40-6-0
6-1-12	12-7-12	8-0-0	11-6-0	2-2-8

Plate Offsets (X,Y)-- [5:0-6-0-0-3-2], [7:0-2-12,0-3-4]					
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 0.34	Vert(LL) -0.14 16-18 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.50	Vert(CT) -0.32 13-15 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.89	Horz(CT) 0.05 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.11 15 >999 240		
				Weight: 294 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-5-11 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 8-13, 7-16
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 18=1945/0-3-8, 12=1322/Mechanical
Max Horz 18=179(LC 10)
Max Uplift 18=248(LC 10), 12=-225(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-401/633, 3-5=-1447/627, 5-6=-1344/669, 6-7=-1606/641, 7-8=-2976/1090,
8-9=-716/266, 9-10=-802/254, 10-12=-1422/433
BOT CHORD 2-18=-459/464, 16-18=-119/280, 15-16=-1028/2962, 13-15=-815/2174
WEBS 3-18=-1822/941, 3-16=-333/999, 5-16=-79/459, 6-16=-13/384, 7-15=-313/231,
8-15=-259/934, 8-13=-1704/704, 10-13=-366/1278, 7-16=-1774/682

- 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) 0-8-10 to 3-8-3, Interior(1) 3-8-3 to 10-9-11, Exterior(2) 10-9-11 to 23-2-5, Interior(1) 23-2-5 to 26-9-8, Exterior(2) 33-10-11 to 38-3-8 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 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) 18=248, 12=225.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



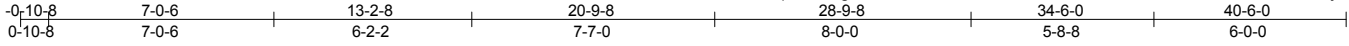
818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss B06	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	06-18-161 Allen	E12424867
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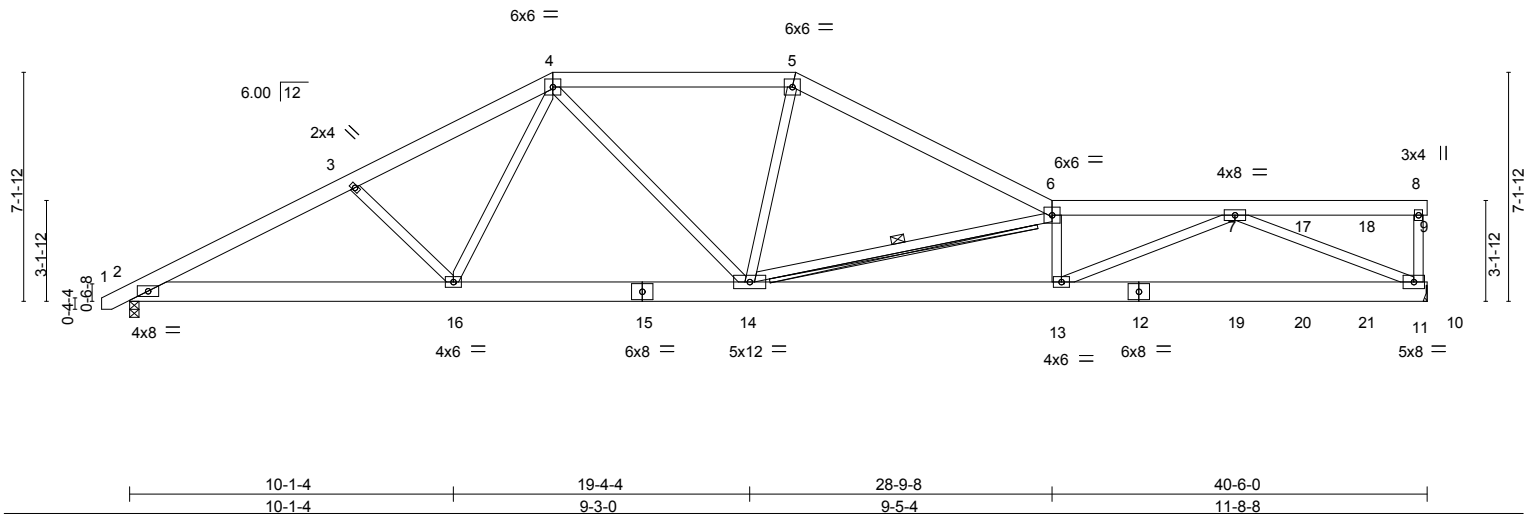
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:05 2018 Page 1

ID:FU2qIODKlugRTPmem99rDUzUkoG-2KJ6v2rUV8sffBBER?5BvfH?Aff8aeZlzxj62Zyluby



Scale = 1:71.9



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.24 11-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(CT) -0.51 11-13 >947 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.86	Horz(CT) 0.05 11 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.21 11-13 >999 240		
				Weight: 609 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-11-14 oc purlins, except end verticals.
BOT CHORD 2x8 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except*	WEBS 1 Row at midpt 6-14
8-11,6-14: 2x4 SP No.2	
OTHERS 2x6 SP No.1	

REACTIONS. (lb/size) 11=3009/Mechanical, 2=1868/0-3-8
 Max Horz 2=166(LC 8)
 Max Uplift 11=536(LC 9), 2=239(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3506/442, 3-4=-3218/408, 4-5=-3021/449, 5-6=-3227/431, 6-7=-7733/1124,
 7-8=-296/48, 8-11=-277/138
 BOT CHORD 2-16=-470/3048, 14-16=-287/2559, 13-14=-1131/7756, 11-13=-831/4538
 WEBS 3-16=-375/234, 4-16=-83/583, 4-14=-140/682, 5-14=-51/914, 6-14=-5112/869,
 6-13=-721/123, 7-13=-324/3530, 7-11=-4663/861

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-7-0 oc.
 Webs connected as follows: 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); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - Concentrated loads from layout are not present in Load Case(s): #2 Dead + 0.75 Roof Live (balanced); #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #14 Dead; #18 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #19 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #20 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #21 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel); #22 1st Dead + Roof Live (unbalanced); #23 2nd Dead + Roof Live (unbalanced); #24 3rd Dead + 0.75 Roof Live (unbalanced); #25 4th Dead + 0.75 Roof Live (unbalanced).
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 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) 11=536, 2=239.



November 16, 2018

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job J1018-4723	Truss B06	Truss Type ROOF SPECIAL GIRDER	Qty 1	Ply 2	06-18-161 Allen Job Reference (optional)	E12424867
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:05 2018 Page 2
ID:FU2qIODKlugRTPmem99rDUzUkoG-2KJ6v2rUV8sffBBER?5BvfH?Aff8aeZlzXj62Zyluby

NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 86 lb down and 77 lb up at 36-6-12, and 86 lb down and 77 lb up at 38-6-12 on top chord, and 1376 lb down and 240 lb up at 34-6-0, and 60 lb down at 36-6-12, and 60 lb down at 38-6-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-4=-60, 4-5=-60, 5-6=-60, 6-8=-60, 8-9=-20, 2-10=-20

Concentrated Loads (lb)

Vert: 17=-86(B) 18=-86(B) 19=-1376(B) 20=-30(B) 21=-30(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
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Job J1018-4723	Truss B07	Truss Type HIP	Qty 1	Ply 1	06-18-161 Allen	E12424868
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:07 2018 Page 1

ID:FU2qIODKlugRTPmem99rDUzUkoG-jRskjso06NuVLcYQ8f74MQhTnd2hg2QrCC6Rylubw

0-10-8	5-8-2	11-2-8	17-0-0	22-9-8	28-3-14	34-4-8
0-10-8	5-8-2	5-6-6	5-9-8	5-9-8	5-6-6	6-0-10

Scale = 1:60.0

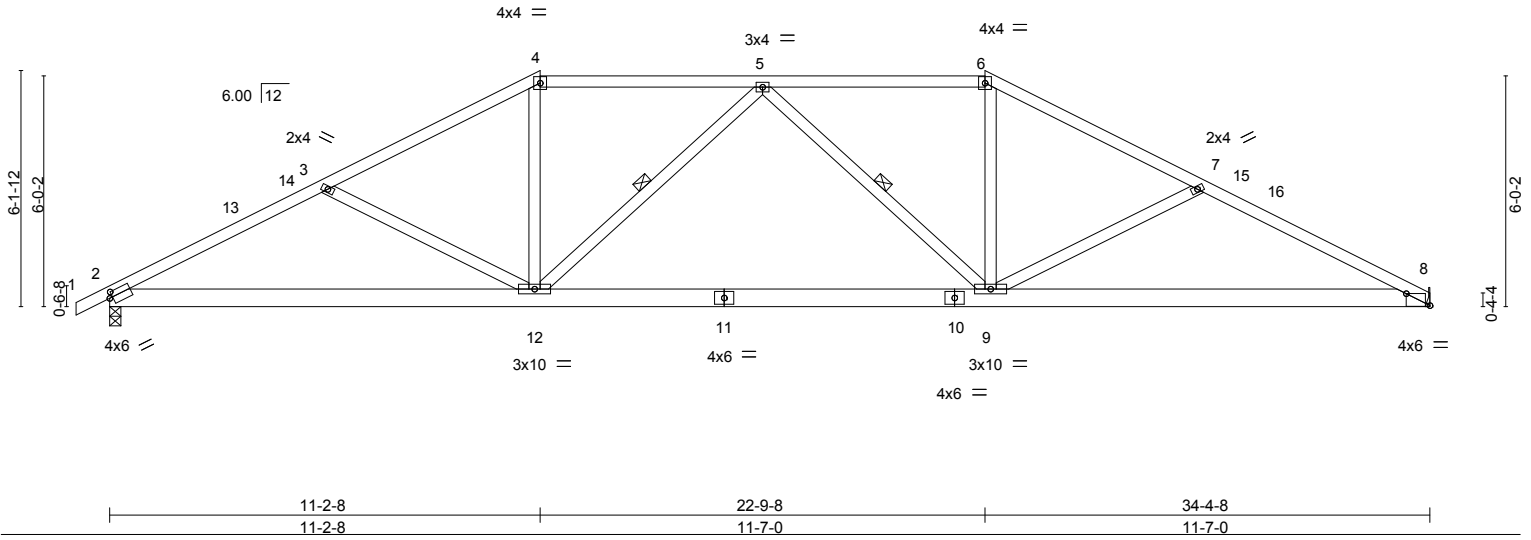


Plate Offsets (X,Y)--	[2:0-1-0,0-1-12], [8:0-7-6,Edge]
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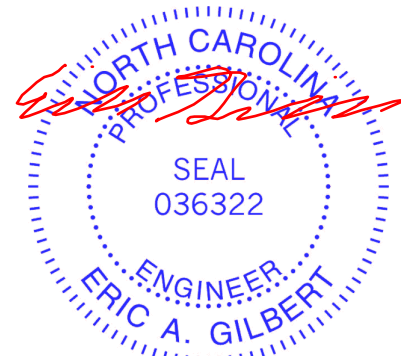
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.13	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(CT) -0.29	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.31	Horz(CT) 0.07	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.10	9-12	>999	240		
							Weight: 194 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-5-10 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-10-3 oc bracing.
WEBS 2x4 SP No.3	WEBS 1 Row at midpt 5-12, 5-9

REACTIONS. (lb/size) 8=1366/Mechanical, 2=1429/0-3-8
 Max Horz 2=92(LC 7)
 Max Uplift 8=-159(LC 11), 2=-173(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2465/1137, 3-4=-2145/975, 4-5=-1840/934, 5-6=-1883/954, 6-7=-2196/1001, 7-8=-2579/1218
 BOT CHORD 2-12=-900/2110, 9-12=-766/2083, 8-9=-998/2263
 WEBS 3-12=-300/332, 4-12=-192/619, 5-12=-448/227, 5-9=-397/199, 6-9=-210/643, 7-9=-416/418

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCCL=6.0psf; BCCL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 4-11-13, Exterior(2) 4-11-13 to 29-0-3, Interior(1) 29-0-3 to 29-10-15 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 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) 8=159, 2=173.



November 16, 2018

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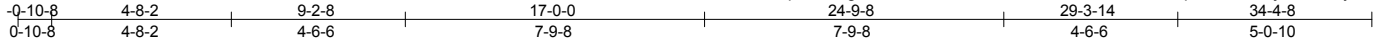


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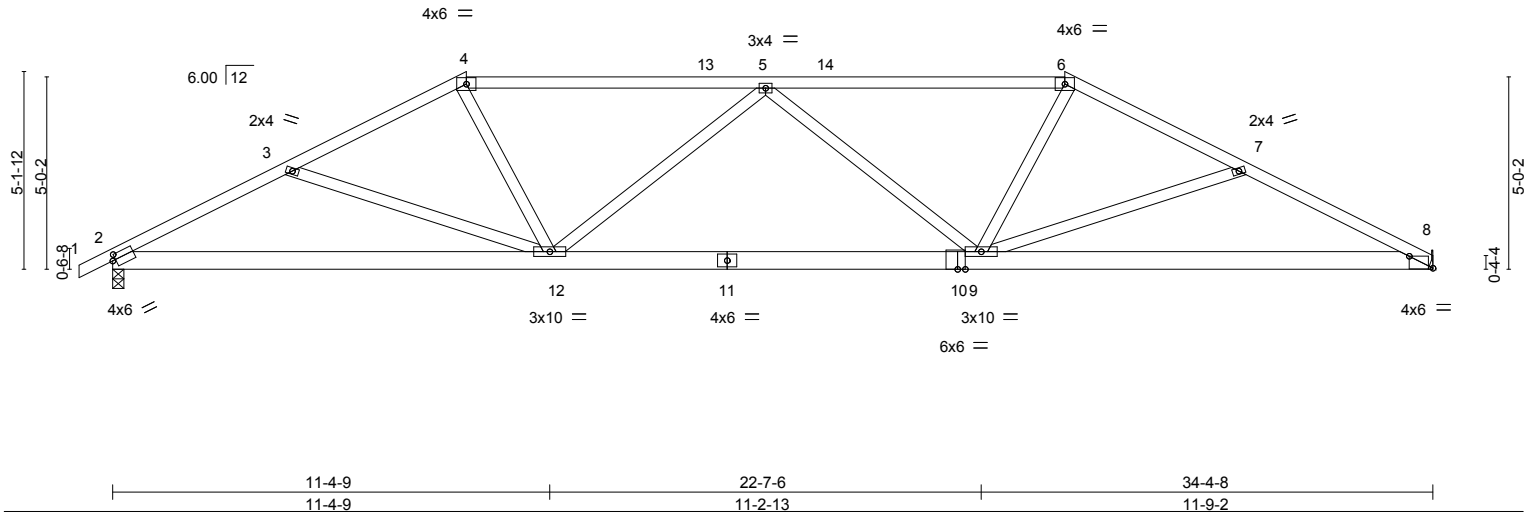
Job J1018-4723	Truss B08	Truss Type HIP	Qty 1	Ply 1	06-18-161 Allen	E12424869
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Comtech, Inc., Fayetteville, NC 28309

8,130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:08 2018 Page 1
ID:FU2q1ODKlugRTPmem99rDUzUkoG-Tv?FX3tNn3EEWepv67fuXivXktjbn4?BfVymeuyubv



Scale = 1:60.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.54	Vert(LL) -0.16 8-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Vert(CT) -0.36 8-9 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.07 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.12 9-12 >999 240	Weight: 193 lb	FT = 20%

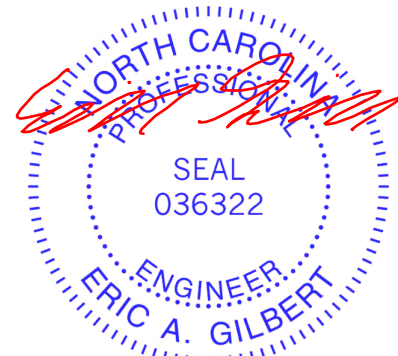
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-8-13 oc bracing.

REACTIONS. (lb/size) 8=1366/Mechanical, 2=1429/0-3-8
Max Horz 2=76(LC 9)
Max Uplift 8=-147(LC 6), 2=-156(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2442/1145, 3-4=-2195/974, 4-5=-2218/1016, 5-6=-2269/1036, 6-7=-2239/992, 7-8=-2607/1238
BOT CHORD 2-12=-919/2102, 9-12=-970/2581, 8-9=-1029/2296
WEBS 3-12=-213/282, 4-12=-191/676, 5-12=-552/306, 5-9=-495/280, 6-9=-204/702, 7-9=-360/384

- 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) -0-10-8 to 15-5-3, Interior(1) 15-5-3 to 18-6-13, Exterior(2) 18-6-13 to 24-9-8 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 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) 8=147, 2=156.



November 16, 2018

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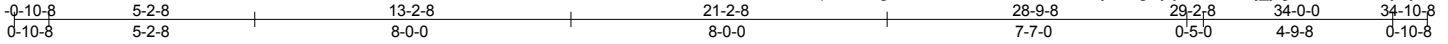
818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss B10	Truss Type HIP GIRDER	Qty 1	Ply 2	06-18-161 Allen	E12424871
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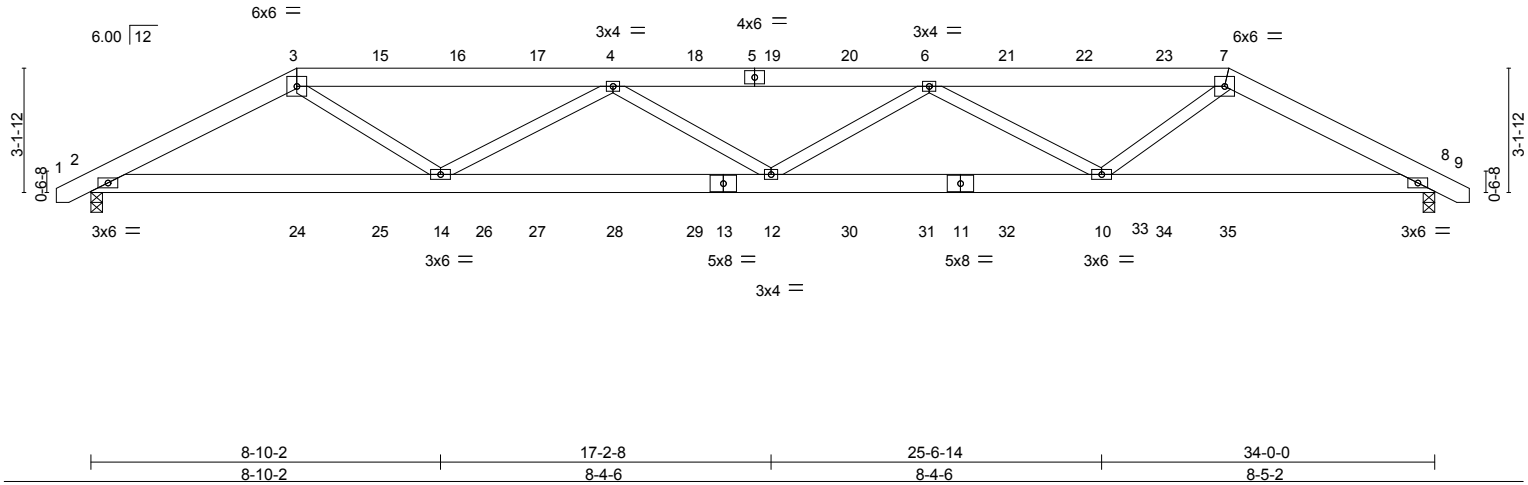
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:10 2018 Page 1

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Scale = 1:58.3



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 0.58	Vert(LL) -0.18 12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.49	Vert(CT) -0.37 12 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.09 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.21 12 >999 240	Weight: 415 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=2384/0-3-8, 8=2398/0-3-8
Max Horz 2=45(LC 7)
Max Uplift 2=-631(LC 5), 8=-637(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4433/1312, 3-4=-5824/1610, 4-6=-7425/2080, 6-7=-5673/1578, 7-8=-4497/1327
BOT CHORD 2-14=-1151/3897, 12-14=-2191/7317, 10-12=-2144/7226, 8-10=-1128/3954
WEBS 3-14=-539/2390, 4-14=-1754/761, 4-12=0/432, 6-12=0/506, 6-10=-1824/767, 7-10=-507/2255

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 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); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - Concentrated loads from layout are not present in Load Case(s): #2 Dead + 0.75 Roof Live (balanced); #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #14 Dead; #18 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #19 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #20 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #21 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel); #22 1st Dead + Roof Live (unbalanced); #23 2nd Dead + Roof Live (unbalanced); #24 3rd Dead + 0.75 Roof Live (unbalanced); #25 4th Dead + 0.75 Roof Live (unbalanced).
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=631, 8=637.



November 16, 2018

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss B10	Truss Type HIP GIRDER	Qty 1	Ply 2	06-18-161 Allen Job Reference (optional)	E12424871
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:10 2018 Page 2
ID:FU2qI0DKlugRTPmem99rDUzUkoG-PI7?ylvdJgUyly3BEYhMcj_yigPYF?VU6oRtjmylubl

NOTES-

- 10) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 84 lb down and 78 lb up at 5-2-8, 84 lb down and 78 lb up at 7-3-4, 84 lb down and 78 lb up at 9-3-4, 84 lb down and 78 lb up at 11-3-4, 84 lb down and 78 lb up at 13-3-4, 84 lb down and 78 lb up at 15-3-4, 84 lb down and 78 lb up at 17-2-8, 84 lb down and 78 lb up at 19-1-12, 84 lb down and 78 lb up at 21-1-12, 84 lb down and 78 lb up at 23-1-12, 84 lb down and 78 lb up at 25-1-12, and 84 lb down and 78 lb up at 27-1-12, and 84 lb down and 78 lb up at 28-8-14 on top chord, and 282 lb down and 86 lb up at 5-2-8, 60 lb down at 7-3-4, 60 lb down at 9-3-4, 60 lb down at 11-3-4, 60 lb down at 13-3-4, 60 lb down at 15-3-4, 60 lb down at 17-2-8, 60 lb down at 19-1-12, 60 lb down at 21-1-12, 60 lb down at 23-1-12, 60 lb down at 25-1-12, and 60 lb down at 27-1-12, and 282 lb down and 86 lb up at 28-8-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-7=-60, 7-9=-60, 2-8=-20

Concentrated Loads (lb)

Vert: 3=-84(B) 7=-84(B) 4=-84(B) 12=-30(B) 6=-84(B) 15=-84(B) 16=-84(B) 17=-84(B) 18=-84(B) 19=-84(B) 20=-84(B) 21=-84(B) 22=-84(B) 23=-84(B) 24=-282(B) 25=-30(B) 26=-30(B) 27=-30(B) 28=-30(B) 29=-30(B) 30=-30(B) 31=-30(B) 32=-30(B) 33=-30(B) 34=-30(B) 35=-282(B)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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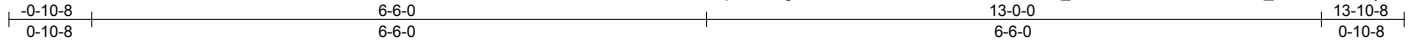
818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss C01	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	06-18-161 Allen	E12424872
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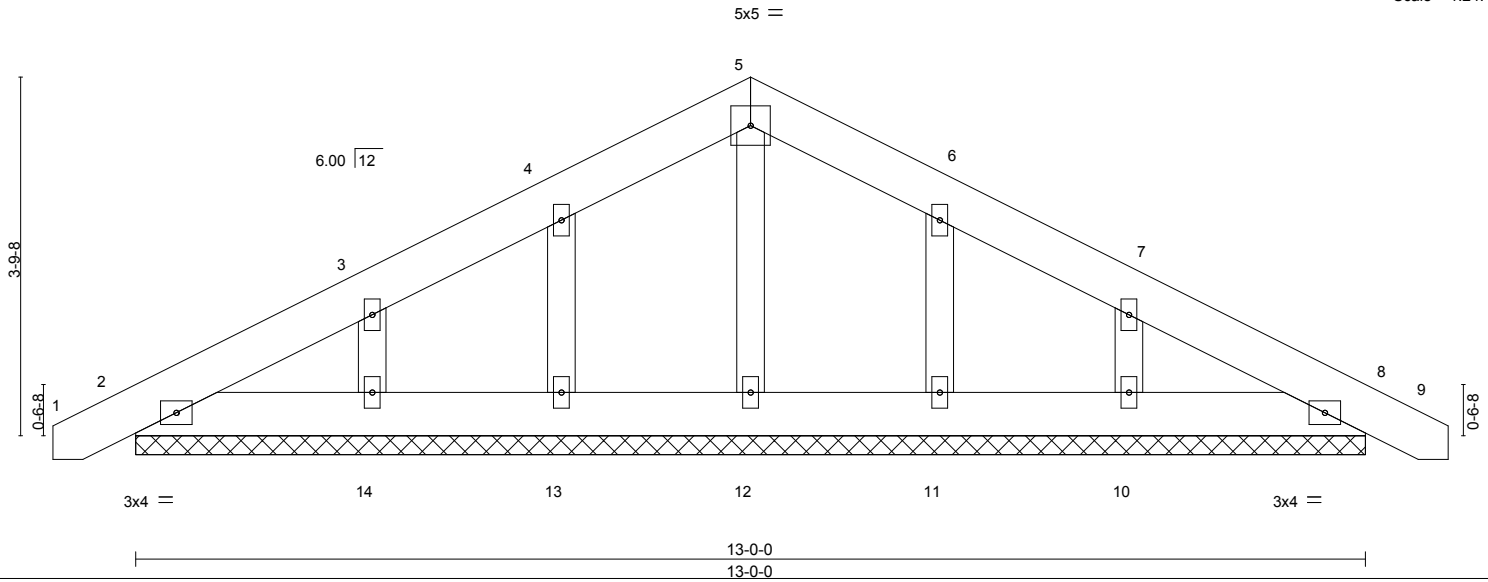
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:11 2018 Page 1

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Scale = 1:24.4



LOADING (psf)	SPACING-	CSL.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.04	Vert(LL) 0.00 8 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.02	Vert(CT) 0.00 8 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.08	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 82 lb	FT = 20%

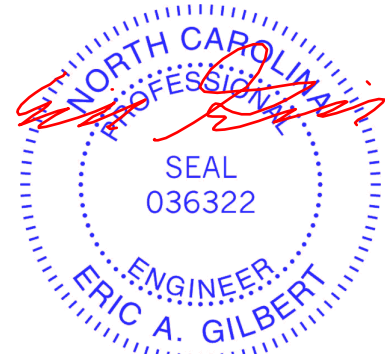
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.3

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. All bearings 13-0-0.
(b) - Max Horz 2=54(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-14=143/274, 7-10=143/274

- 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 Corner(3) 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8, 13, 14, 11, 10.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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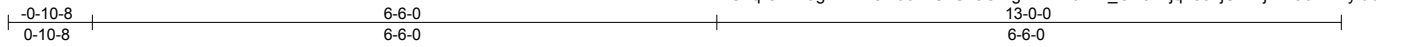


818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss C02	Truss Type COMMON	Qty 2	Ply 1	06-18-161 Allen	E12424873
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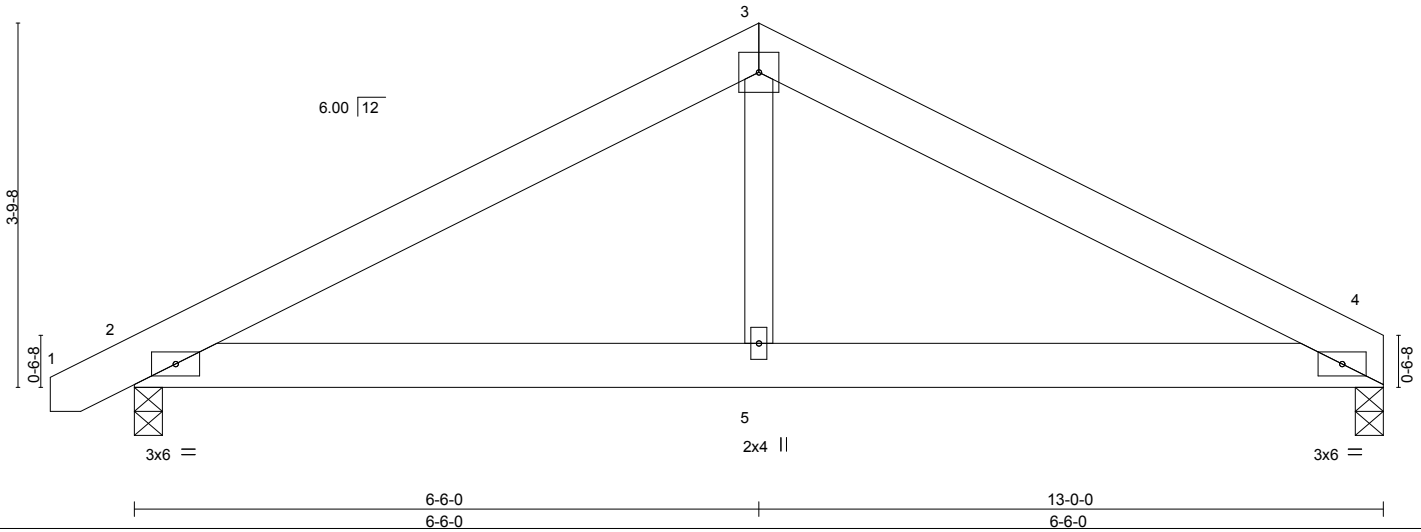
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:12 2018 Page 1
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5x5 =

Scale: 1/2"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL) -0.01	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(CT) -0.03	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01	2-5	>999	240	Weight: 72 lb	FT = 20%

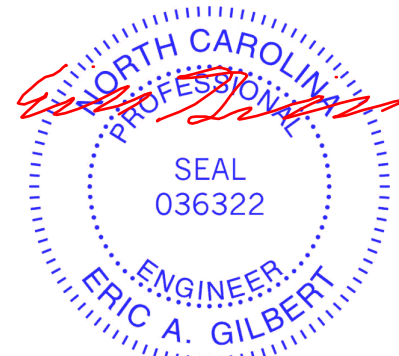
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

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. (lb/size) 4=507/0-3-8, 2=562/0-3-8
 Max Horz 2=56(LC 9)
 Max Uplift 4=-72(LC 11), 2=-88(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-716/362, 3-4=-714/359
 BOT CHORD 2-5=-199/561, 4-5=-199/561
 WEBS 3-5=0/306

- 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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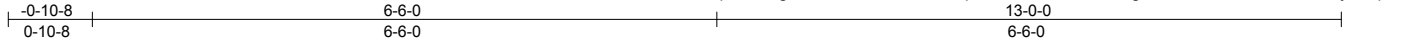


818 Soundside Road
 Edenton, NC 27932

Job J1018-4723	Truss C03	Truss Type COMMON GIRDER	Qty 1	Ply 2	06-18-161 Allen	E12424874
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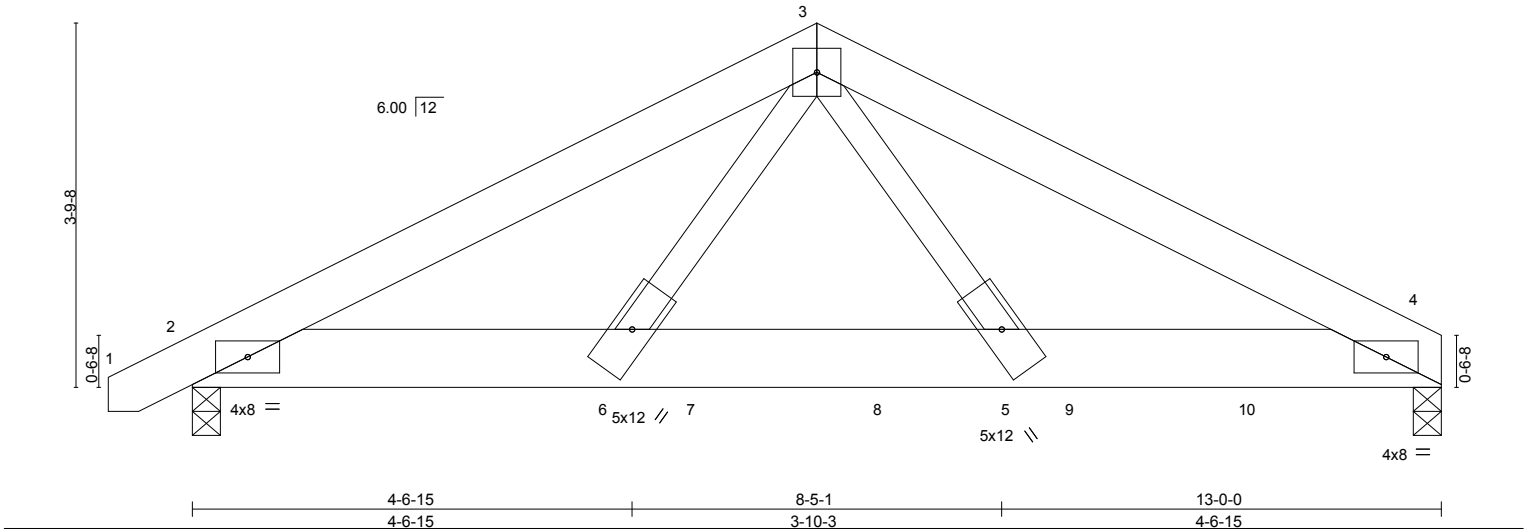
Comtech, Inc., Fayetteville, NC 28309

8,130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:13 2018 Page 1
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6x6 =

Scale: 1/2"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.06 5-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.13 5-6 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.91	Horz(CT) 0.03 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06 5-6 >999 240	Weight: 175 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-8-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=4514/0-3-8, 2=3455/0-3-8
Max Horz 2=56(LC 8)
Max Uplift 4=-851(LC 9), 2=-644(LC 8)

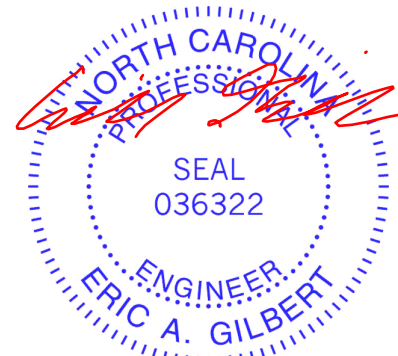
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-7378/1356, 3-4=-7970/1481
BOT CHORD 2-6=-1169/6496, 5-6=-845/4661, 4-5=-1269/7051
WEBS 3-5=-800/4385, 3-6=-594/3365

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-3-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 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; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
- Concentrated loads from layout are not present in Load Case(s): #2 Dead + 0.75 Roof Live (balanced); #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #14 Dead; #18 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #19 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #20 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #21 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel); #22 1st Dead + Roof Live (unbalanced); #23 2nd Dead + Roof Live (unbalanced); #24 3rd Dead + 0.75 Roof Live (unbalanced); #25 4th Dead + 0.75 Roof Live (unbalanced).
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=851, 2=644.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 2989 lb down and 566 lb up at 5-4-0, 1302 lb down and 252 lb up at 7-3-4, and 1304 lb down and 258 lb up at 9-3-4, and 1304 lb down and 258 lb up at 11-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss C03	Truss Type COMMON GIRDER	Qty 1	Ply 2	06-18-161 Allen Job Reference (optional)	E12424874
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:13 2018 Page 2
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LOAD CASE(S) Standard

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

Uniform Loads (plf)

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

Concentrated Loads (lb)

Vert: 7=-2989(F) 8=-1302(F) 9=-1304(F) 10=-1304(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss CJ01	Truss Type DIAGONAL HIP GIRDER	Qty 1	Ply 1	06-18-161 Allen	E12424875
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:13 2018 Page 1

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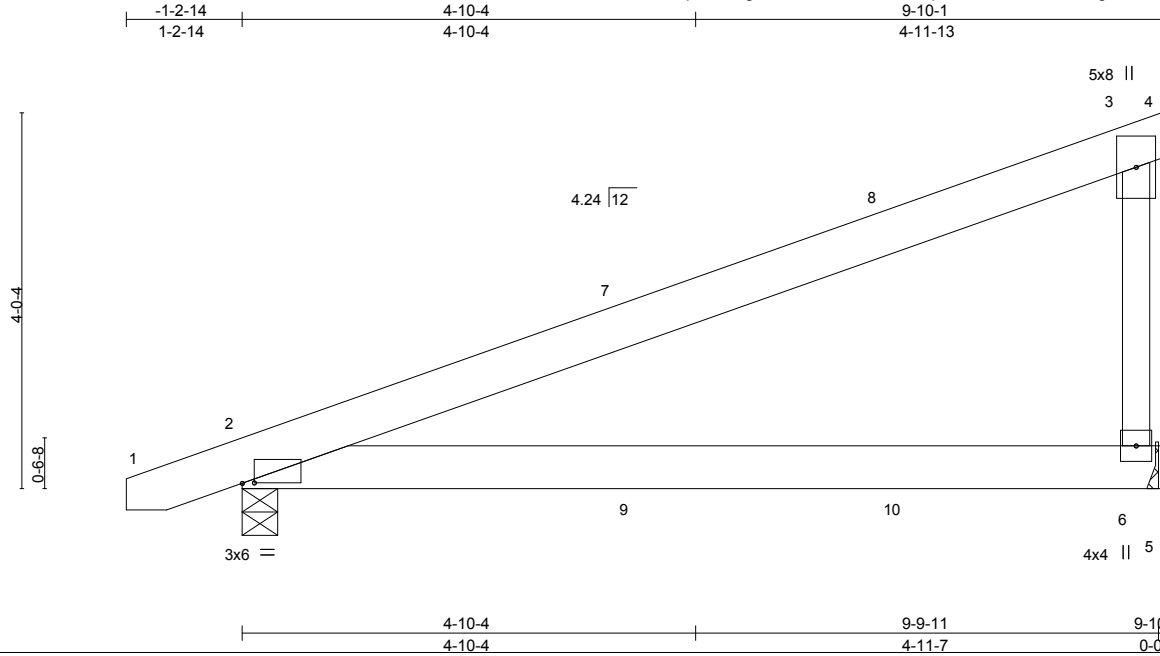


Plate Offsets (X,Y)-- [2:0-1-9,0-0-1]		CSI		DEFL.		PLATES		GRIP	
				in	(loc)	l/defl	L/d		
LOADING (psf)	SPACING-	2-0-0	TC	0.64	Vert(LL)	-0.09	2-6	>999	360
TCLL 20.0	Plate Grip DOL	1.15	BC	0.40	Vert(CT)	-0.19	2-6	>596	240
TCDL 10.0	Lumber DOL	1.15	WB	0.00	Horz(CT)	0.00	6	n/a	n/a
BCLL 0.0 *	Rep Stress Incr	NO	Matrix-S		Wind(LL)	0.05	2-6	>999	240
BCDL 10.0	Code IRC2015/TPI2014								
								Weight: 55 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		

REACTIONS. (lb/size) 6=485/Mechanical, 2=491/0-4-9
 Max Horz 2=150(LC 4)
 Max Uplift 6=-159(LC 8), 2=-132(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-6=-324/200

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=140mph (3-second gust) Vasd=111mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Concentrated loads from layout are not present in Load Case(s): #2 Dead + 0.75 Roof Live (balanced); #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #14 Dead; #18 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #19 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #20 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #21 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel).
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=159, 2=132.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 25 lb up at 4-2-8, 25 lb up at 4-2-8, and 52 lb down and 68 lb up at 7-0-7, and 52 lb down and 68 lb up at 7-0-7 on top chord, and at 4-2-8, at 4-2-8, and 39 lb down at 7-0-7, and 39 lb down at 7-0-7 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

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

Uniform Loads (plf)
 Vert: 1-3=-60, 3-4=-20, 2-5=-20

Concentrated Loads (lb)
 Vert: 8=-103(F=-52, B=-52) 10=-39(F=-19, B=-19)



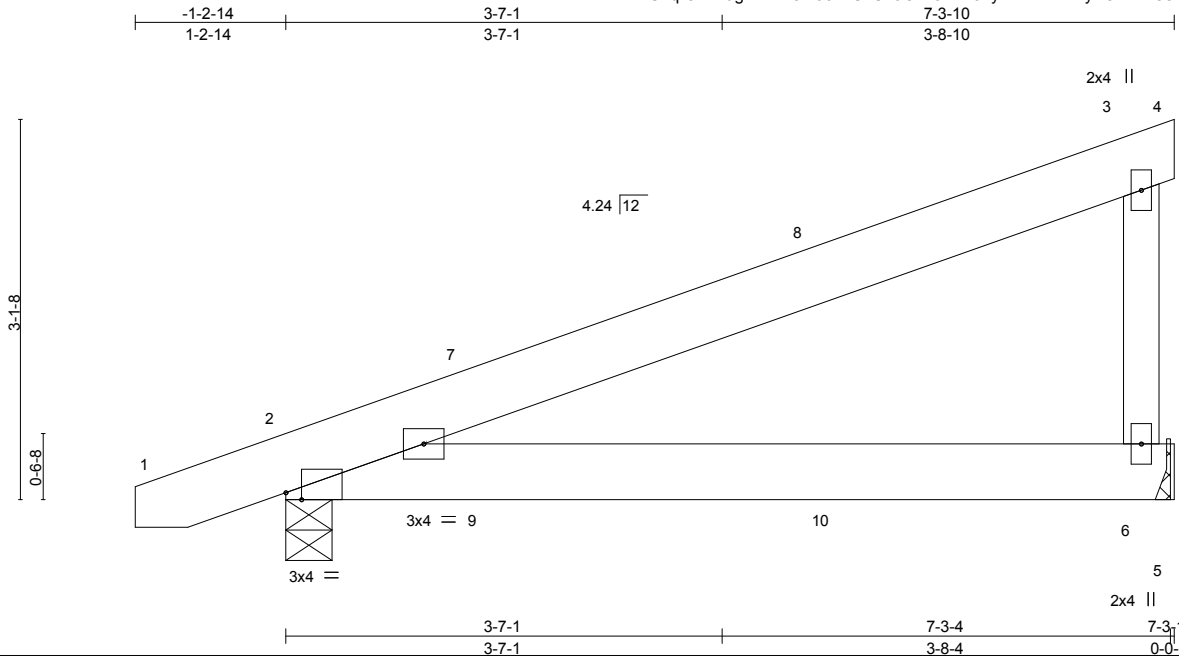
November 16, 2018

Job J1018-4723	Truss CJ02	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	06-18-161 Allen	E12424876
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Comtech, Inc., Fayetteville, NC 28309

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ID:FU2qIODKlugRTPmem99rDUzUkoG-H3MWo7y7Nv?NEZNYTOmInZ8eDHR9BwD41QP4sXylubp



Scale = 1:18.9

Plate Offsets (X,Y)-- [2:0-1-9,Edge]		CSI		DEFL.		PLATES		GRIP	
LOADING (psf)	SPACING-	2-0-0	TC	in	(loc)	l/defl	L/d	MT20	244/190
TCLL 20.0	Plate Grip DOL	1.15	BC	Vert(LL)	-0.03	2-6	>999		
TCDL 10.0	Lumber DOL	1.15	WB	Vert(CT)	-0.06	2-6	>999		
BCLL 0.0 *	Rep Stress Incr	NO	Matrix-P	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014			Wind(LL)	0.00	2	****		
								Weight: 42 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.3		

REACTIONS. (lb/size) 6=280/Mechanical, 2=354/0-4-9
 Max Horz 2=116(LC 4)
 Max Uplift 6=-85(LC 8), 2=-100(LC 4)

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); Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Concentrated loads from layout are not present in Load Case(s): #2 Dead + 0.75 Roof Live (balanced); #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #14 Dead; #18 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #19 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #20 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #21 Dead + 0.75 Roof Live (bal.) + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel).
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 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) 6 except (jt=lb) 2=100.
 - 7) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) at 1-8-1, at 1-8-1, and 31 lb up at 4-6-0, and 31 lb up at 4-6-0 on top chord, and at 1-8-1, at 1-8-1, and 3 lb down at 4-6-0, and 3 lb down at 4-6-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-20, 2-5=-20
Concentrated Loads (lb)
Vert: 10=-3(F=-1, B=-1)



November 16, 2018

Job J1018-4723	Truss D01	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	06-18-161 Allen	E12424877
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:15 2018 Page 1

ID:FU2qIODKlugRTPmem99rDUzUkoG-IFwu?Tzm8C7Esjy905HXJmhswhERwMQDG48eO_ylubo

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

Scale = 1:36.5

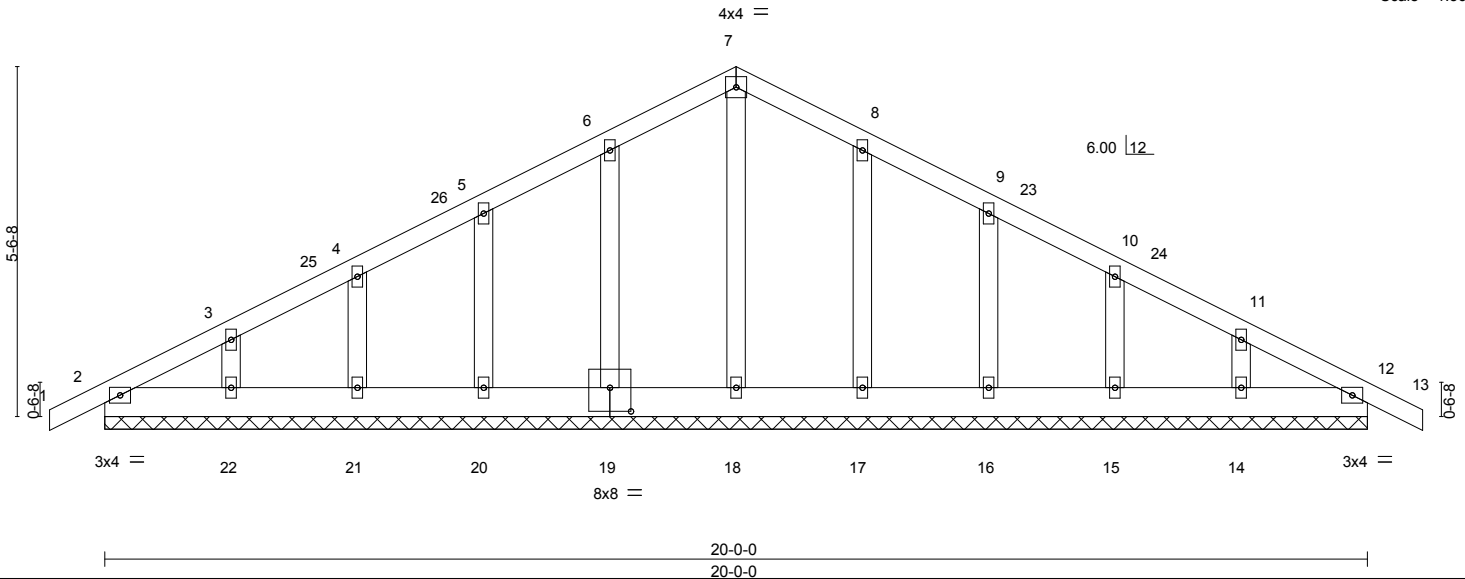


Plate Offsets (X,Y)-- [19:0-4-0,0-4-8]

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	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 118 lb	FT = 20%

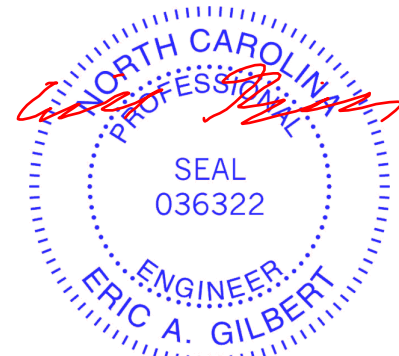
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.3

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. All bearings 20-0-0.
(lb) - Max Horz 2=-82(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 2, 17, 16, 15, 14, 19, 20, 21, 22, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 17, 16, 15, 14, 19, 20, 21, 22, 12

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-79/281, 6-7=-79/281

- 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) 0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 5-7-3, Corner(3) 5-7-3 to 10-0-0, Exterior(2) 14-4-13 to 16-5-11 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 17, 16, 15, 14, 19, 20, 21, 22, 12.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
Edenton, NC 27932

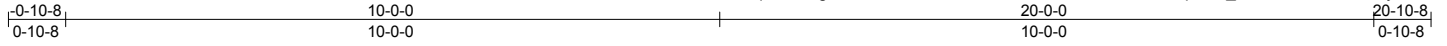
Job J1018-4723	Truss D02	Truss Type COMMON	Qty 3	Ply 1	06-18-161 Allen	E12424878
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Comtech, Inc., Fayetteville, NC 28309

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ID:FU2qIODKlugRTPmem99rDUzUkoG-ERUGDozOvWF5tXLapoms_Ev05TfifENVkuBwQylubn

Job Reference (optional)



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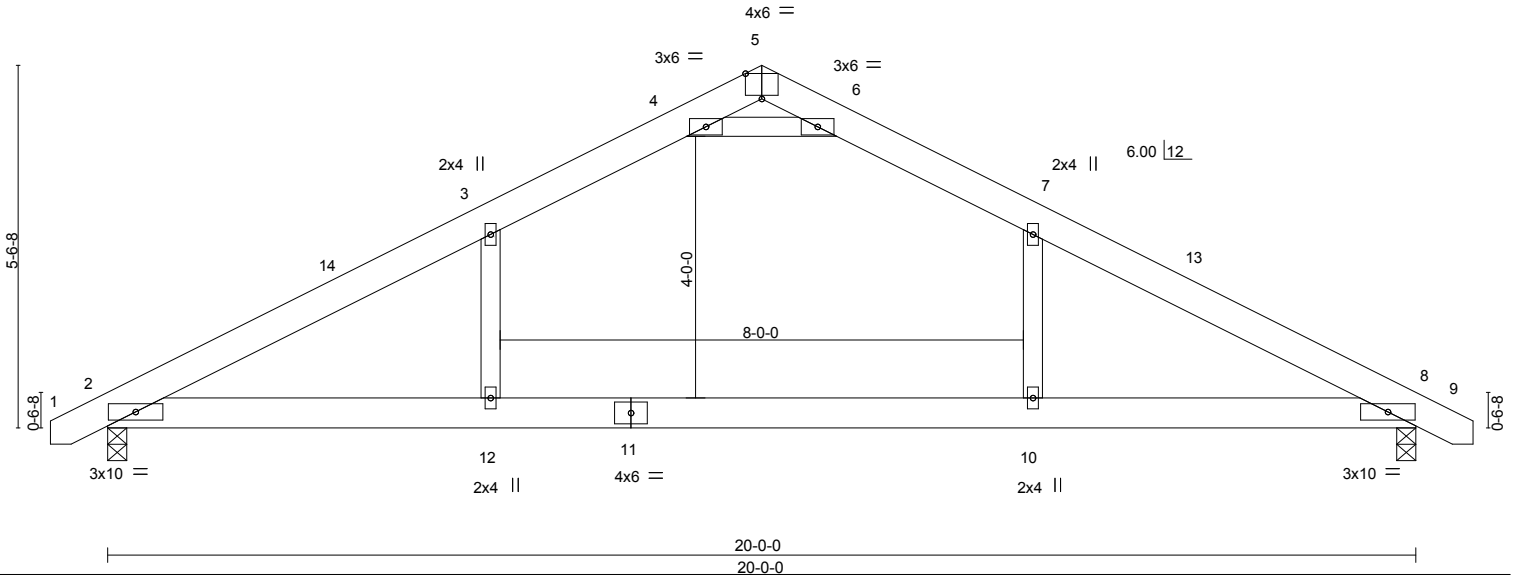


Plate Offsets (X,Y)-- [5:0-3-0,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.62	Vert(LL)	-0.20	10-12	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.45	Vert(CT)	-0.32	10-12	>745		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.48	Horz(CT)	-0.02	2	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.10	10-12	>999		
	Code IRC2015/TP12014						Weight: 115 lb	FT = 20%

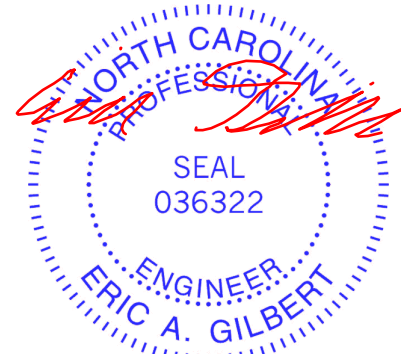
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-6-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=840/0-3-8, 8=840/0-3-8
 Max Horz 8=-81(LC 8)
 Max Uplift 2=-128(LC 10), 8=-128(LC 11)
 Max Grav 2=919(LC 2), 8=919(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-6=-281/989, 6-7=-1139/513, 7-8=-1447/463, 2-3=-1447/463, 3-4=-1139/513,
 4-5=-281/989
 BOT CHORD 2-12=-268/1172, 10-12=-268/1172, 8-10=-268/1172
 WEBS 7-10=0/462, 3-12=0/462, 4-6=-2278/887

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 5-7-3, Exterior(2) 5-7-3 to 10-0-0, Interior(1) 14-1-12 to 16-3-13 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 4-0-0 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=128, 8=128.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 10/03/2015 BEFORE USE.

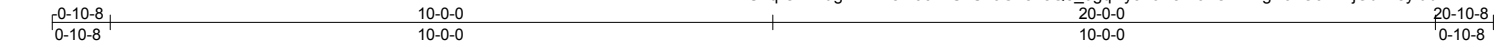
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



Job J1018-4723	Truss D03	Truss Type COMMON	Qty 8	Ply 1	06-18-161 Allen	E12424879
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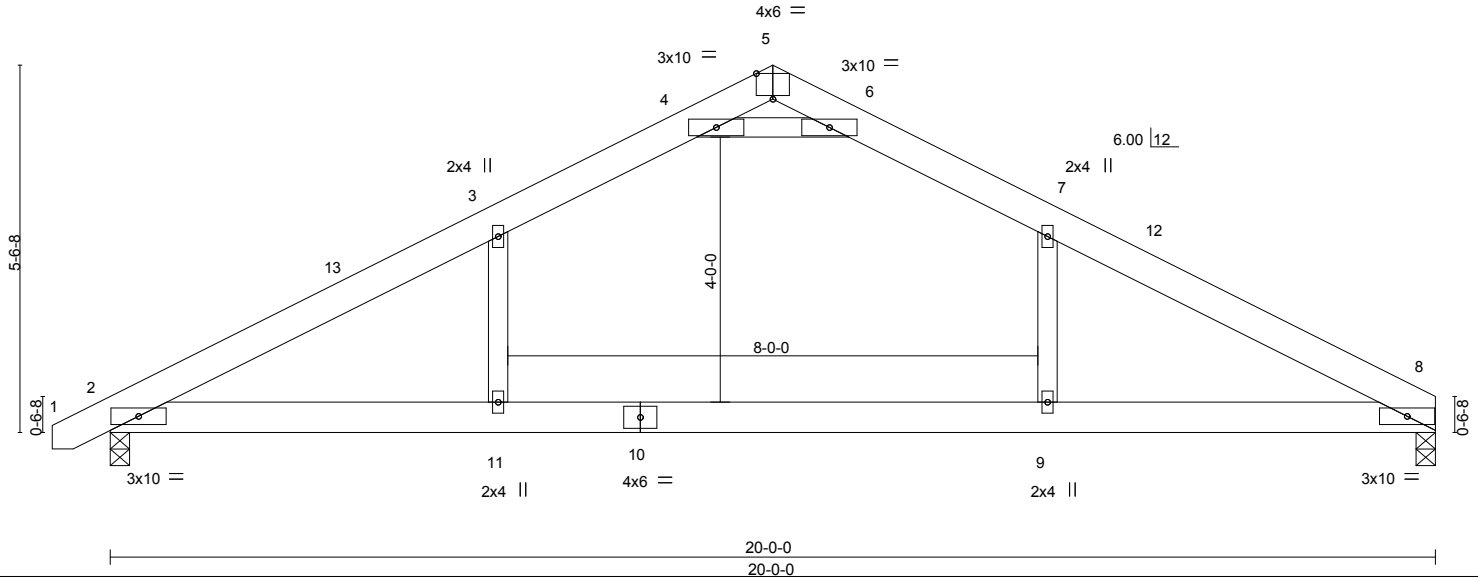


Plate Offsets (X,Y)-- [5:0-3-0,Edge]

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 0.63	Vert(LL)	-0.20	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.46	Vert(CT)	-0.32	9-11	>737		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.48	Horz(CT)	-0.02	2	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.10	9-11	>999		
								Weight: 113 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-4-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=787/0-3-8, 2=841/0-3-8
Max Horz 8=82(LC 9)
Max Uplift 8=-112(LC 11), 2=-128(LC 10)
Max Grav 8=875(LC 2), 2=920(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-6=-308/998, 6-7=-1142/527, 7-8=-1445/472, 2-3=-1450/481, 3-4=-1141/527,
4-5=-307/999
BOT CHORD 2-11=-284/1175, 9-11=-284/1175, 8-9=-284/1175
WEBS 7-9=0/453, 3-11=0/464, 4-6=-2292/933

- 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) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 5-7-3, Exterior(2) 5-7-3 to 10-0-0, Interior(1) 14-1-12 to 15-5-7 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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 4-0-0 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) 8=112, 2=128.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



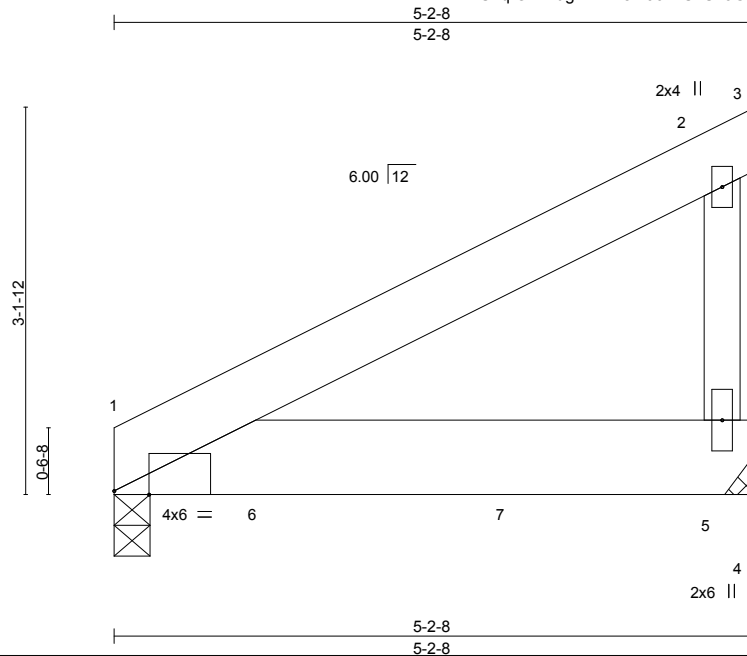
818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss E01-GDR	Truss Type JACK-CLOSED	Qty 1	Ply 2	06-18-161 Allen	E12424880
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Comtech, Inc., Fayetteville, NC 28309

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ID:FU2qI0DKlugRTPmem99rDUzUkoG-e09Prq0GCRdgKLFwFxlTUcsYiIT4sADpBi6rXiyIubk



Scale = 1:18.7

Plate Offsets (X,Y)-- [1:0-3-6,Edge]

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 0.08	Vert(LL)	-0.03	1-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.55	Vert(CT)	-0.05	1-5	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-P	Wind(LL)	0.02	1-5	>999	Weight: 66 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP No.1
 WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=1689/0-3-8, 5=1397/Mechanical
 Max Horz 1=97(LC 8)
 Max Uplift 1=-191(LC 8), 5=-213(LC 8)

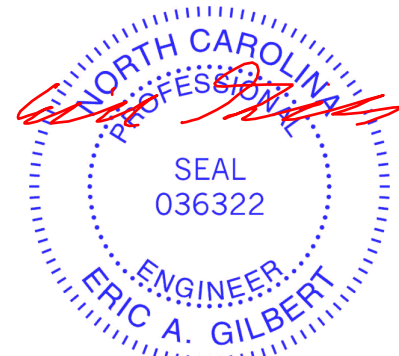
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 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.
- 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 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) 1=191, 5=213.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1346 lb down and 167 lb up at 1-3-4, and 1346 lb down and 179 lb up at 3-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

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=-20, 1-4=-20
 Concentrated Loads (lb)
 Vert: 6=-1346(B) 7=-1346(B)



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITTEK REFERENCE PAGE MII-7473 rev. 10/03/2015 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/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



818 Soundside Road
 Edenton, NC 27932

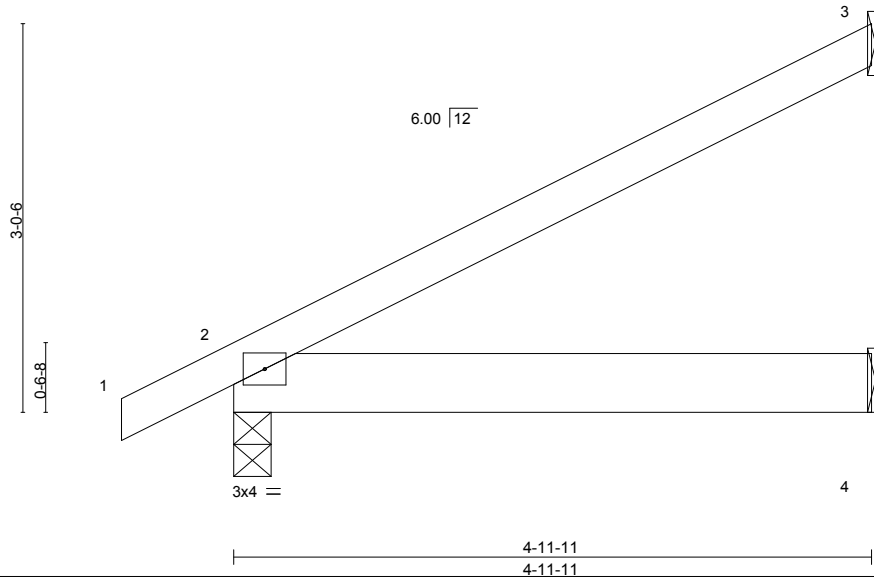
Job J1018-4723	Truss J01	Truss Type JACK-OPEN	Qty 2	Ply 1	06-18-161 Allen	E12424881
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:19 2018 Page 1
ID:FU2qIODKlugRTPmem99rDUzUkoG-e09PrqQGCRdgKLFwFxlTUcsUblaJsAspBi6rXlylubk



Scale = 1:18.0



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.34	Vert(LL) -0.01	2-4	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.09	Vert(CT) -0.01	2-4	>999	240			
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	Wind(LL) 0.00	2	****	240		Weight: 22 lb	FT = 20%

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

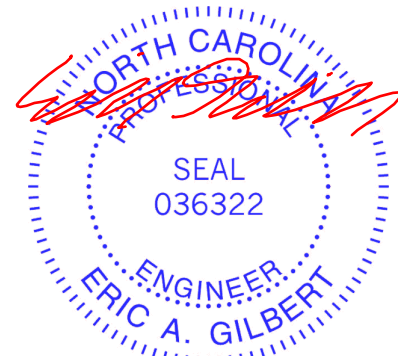
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=136/Mechanical, 2=258/0-3-8, 4=48/Mechanical
Max Horz 2=107(LC 10)
Max Uplift 3=-86(LC 10), 2=-31(LC 10)
Max Grav 3=136(LC 1), 2=258(LC 1), 4=95(LC 3)

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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



November 16, 2018

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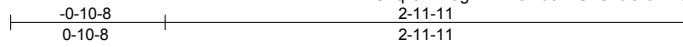
818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss J02	Truss Type JACK-OPEN	Qty 2	Ply 1	06-18-161 Allen	E12424882
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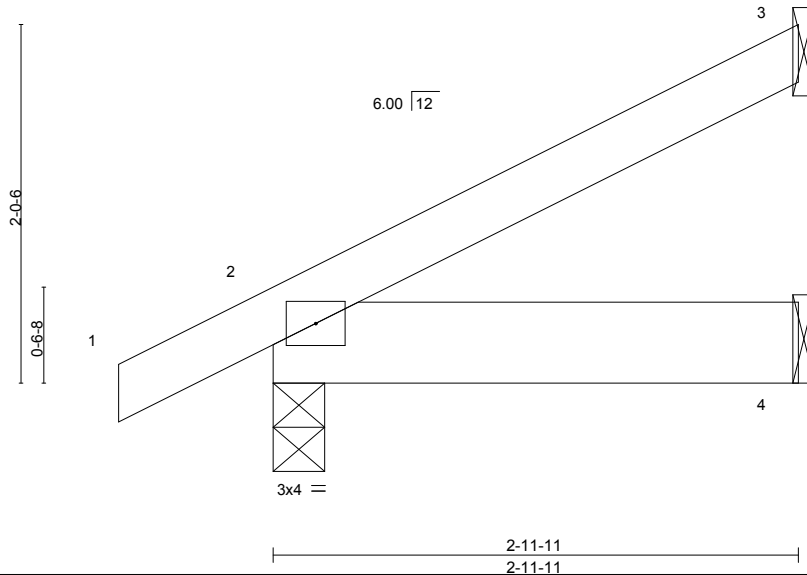
Comtech, Inc., Fayetteville, NC 28309

8,130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:21 2018 Page 1

ID:FU2qIODKlugRTPmem99rDUzUkoG-aPH9GW1Wj2tOaePJNMOxZ1xu26HiK4y6e0bycdylubi



Scale = 1:13.0



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	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00	2-4	>999	240		
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	Wind(LL) 0.00	2	****	240		
							Weight: 14 lb	FT = 20%

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

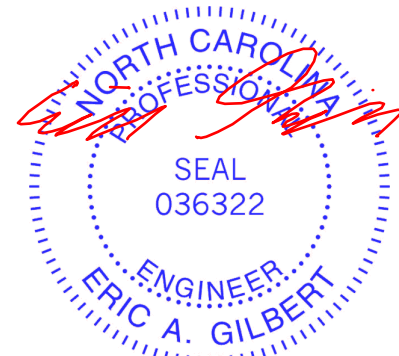
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=72/Mechanical, 2=183/0-3-8, 4=28/Mechanical
Max Horz 2=69(LC 10)
Max Uplift 3=-49(LC 10), 2=-26(LC 10)
Max Grav 3=72(LC 1), 2=183(LC 1), 4=55(LC 3)

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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



November 16, 2018

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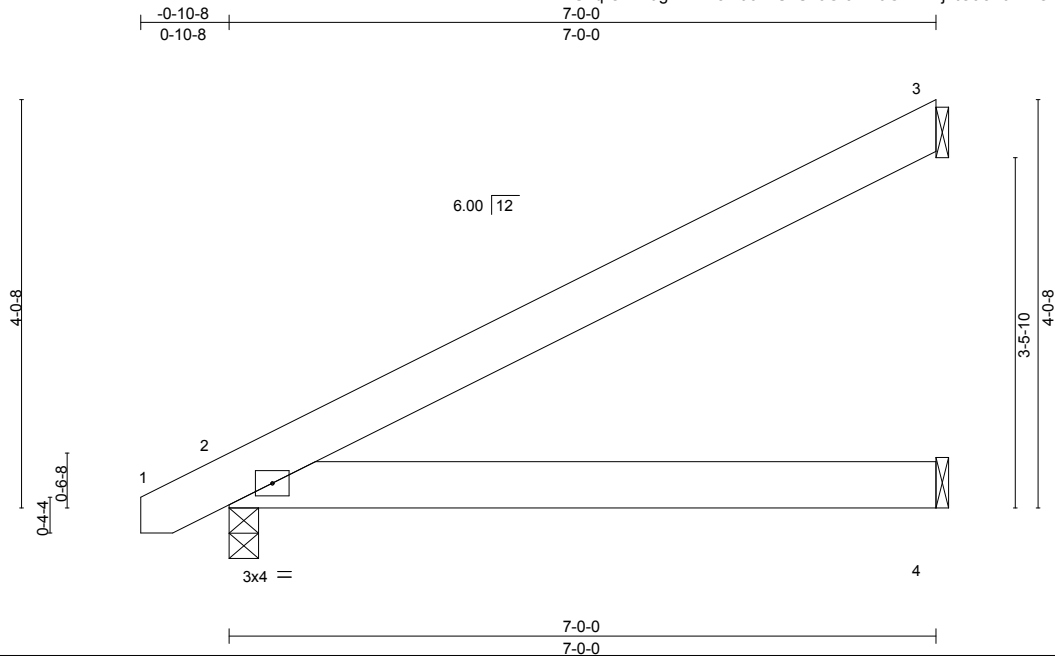
818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss J03	Truss Type JACK-OPEN	Qty 13	Ply 1	06-18-161 Allen	E12424883
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:21 2018 Page 1

ID:FU2qIODKlugRTPmem99rDUzUkoG-aPH9GW1Wj2tOaePJNMOxZ1xrr6FDK4y6e0bycdylubi



Scale = 1:22.8

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 0.29	Vert(LL)	-0.03	2-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.06	2-4	>999		
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	Wind(LL)	0.00	2	****	Weight: 37 lb	FT = 20%

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

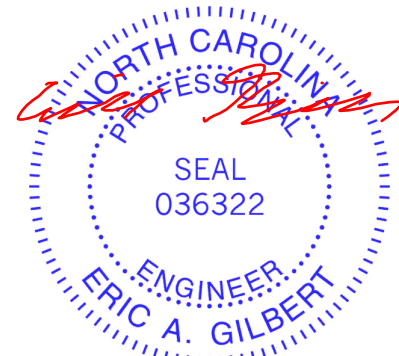
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=200/Mechanical, 2=327/0-3-8, 4=68/Mechanical
Max Horz 2=142(LC 10)
Max Uplift 3=-121(LC 10), 2=-36(LC 10)
Max Grav 3=200(LC 1), 2=327(LC 1), 4=136(LC 3)

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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 3=121.



November 16, 2018

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ENGINEERING BY
TRENCO
A MiTek Affiliate

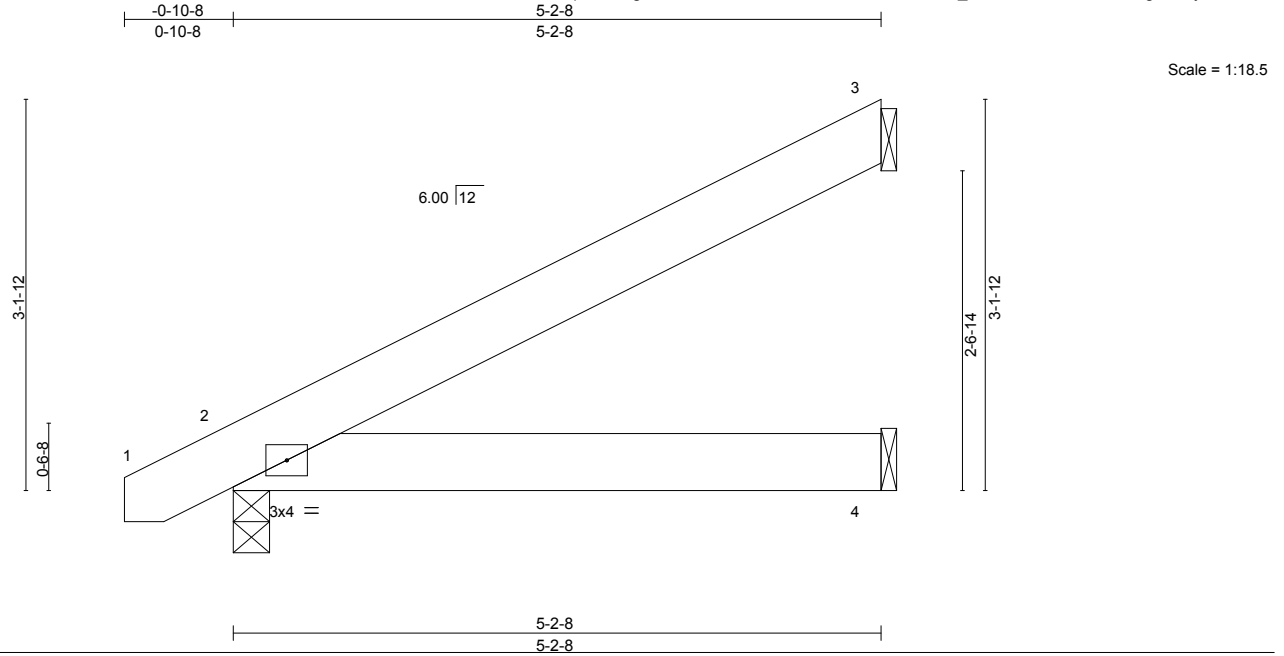
818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss J04	Truss Type JACK-OPEN	Qty 2	Ply 1	06-18-161 Allen	E12424884
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8,130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:22 2018 Page 1

ID:FU2qIODKlugRTPmem99rDUzUkoG-2brXTs29UM?FBo_Vx3vA5FU2kWcs3XBftgLV84ylubh



LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.16	Vert(LL) -0.01	2-4	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.10	Vert(CT) -0.02	2-4	>999	240			
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	Wind(LL) 0.00	2	****	240		Weight: 28 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=146/Mechanical, 2=256/0-3-8, 4=50/Mechanical
Max Horz 2=108(LC 10)
Max Uplift 3=-89(LC 10), 2=-30(LC 10)
Max Grav 3=146(LC 1), 2=256(LC 1), 4=100(LC 3)

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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

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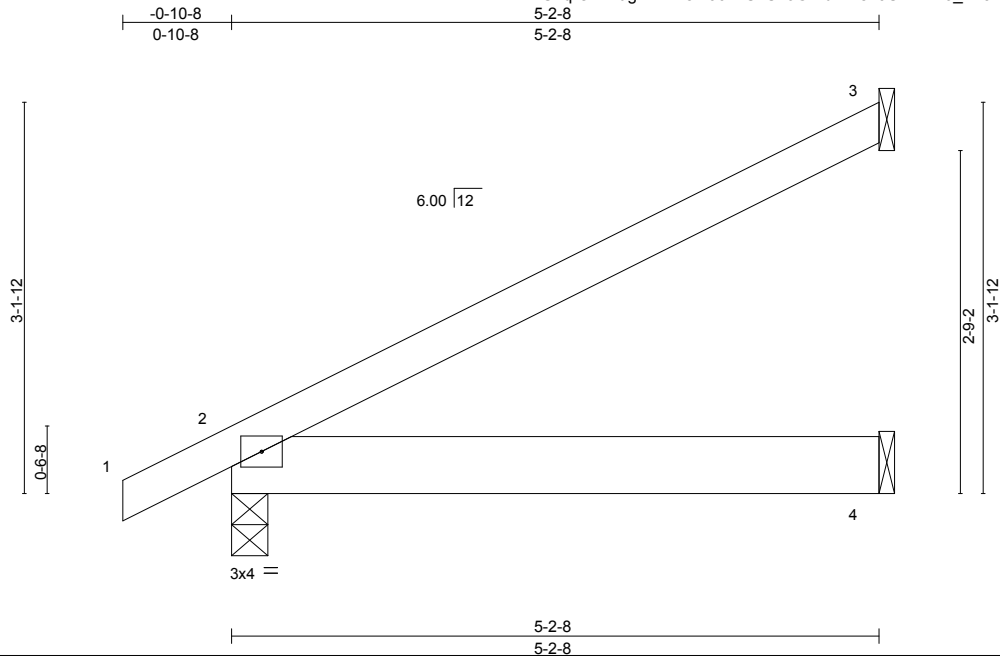


818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss J05	Truss Type Jack-Open	Qty 13	Ply 1	06-18-161 Allen	E12424885
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8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:22 2018 Page 1
ID:FU2qIODKlugRTPmem99DUzUkoG-2brXTs29UM?FBo_Vx3vA5FU?FWcs3XBftgLV84ylubh



Scale = 1:18.5

LOADING (psf)	SPACING-		CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	2-0-0	TC 0.38	Vert(LL) -0.01	2-4	>999	360		MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.10	Vert(CT) -0.02	2-4	>999	240			
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	Wind(LL) 0.00	2	****	240		Weight: 22 lb	FT = 20%

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

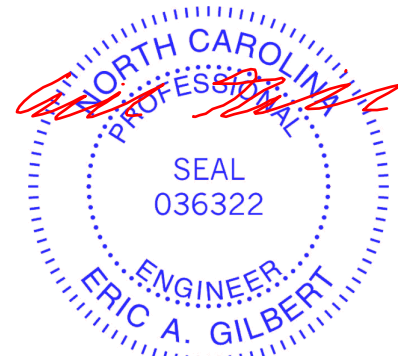
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-8 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=144/Mechanical, 2=268/0-3-8, 4=50/Mechanical
Max Horz 2=112(LC 10)
Max Uplift 3=90(LC 10), 2=-32(LC 10)
Max Grav 3=144(LC 1), 2=268(LC 1), 4=100(LC 3)

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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



November 16, 2018

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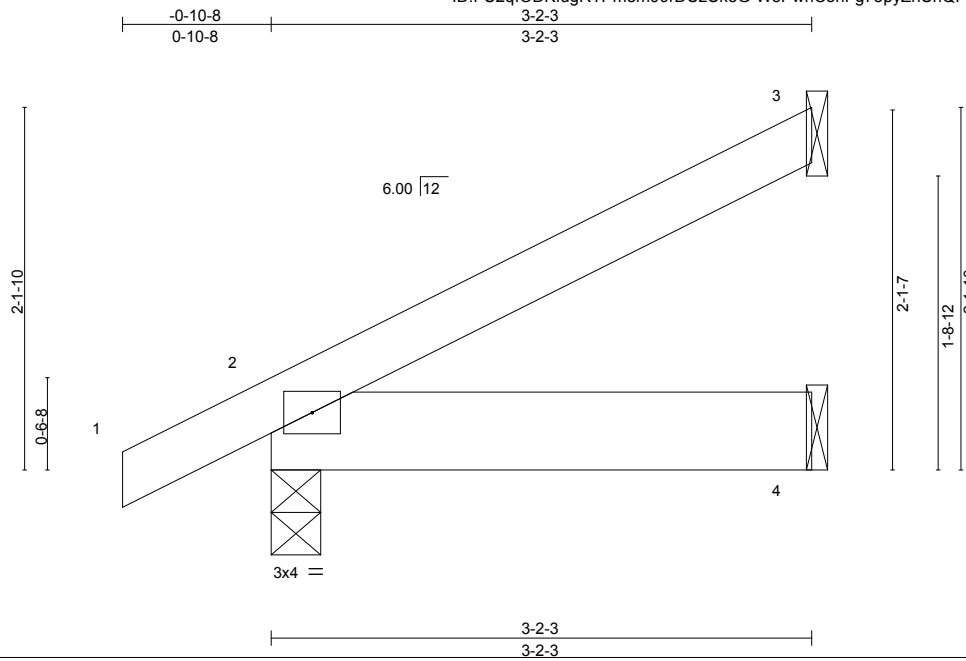
818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss J06	Truss Type JACK-OPEN	Qty 4	Ply 1	06-18-161 Allen	E12424886
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8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:23 2018 Page 1

ID:FU2qIODKlugRTPmem99rDUzUkoG-WoPwhC3nFg75pyZhUnQPes0EFwy6o_RP6K43gWylubg



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.11	Vert(LL) -0.00	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00	2-4	>999	240		
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	Wind(LL) 0.00	2	****	240	Weight: 14 lb	FT = 20%

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

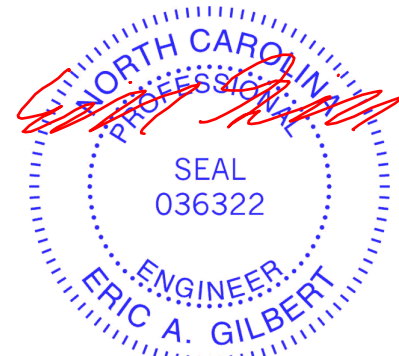
BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=79/Mechanical, 2=191/0-3-8, 4=30/Mechanical
Max Horz 2=73(LC 10)
Max Uplift 3=53(LC 10), 2=-27(LC 10)
Max Grav 3=79(LC 1), 2=191(LC 1), 4=59(LC 3)

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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



November 16, 2018

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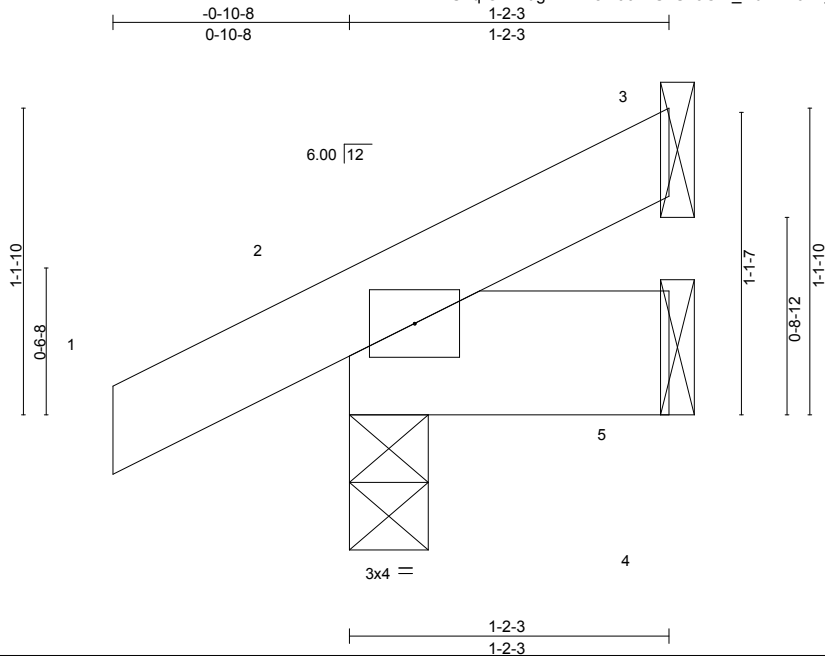


818 Soundside Road
Edenton, NC 27932

Job J1018-4723	Truss J07	Truss Type Jack-Open	Qty 4	Ply 1	06-18-161 Allen	E12424887
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8.130 s Mar 11 2018 MiTek Industries, Inc. Thu Nov 15 15:37:24 2018 Page 1
ID:FU2qIODKlugRTPmem99rDUzUkoG-?_zluY4P0zFyR68t2UxeBgZQ1JlmXRhYK_qcDyyIubf



Scale = 1:8.5

LOADING (psf)	SPACING-		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	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.00	Vert(CT)	-0.00	2	>999	240		
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	Wind(LL)	0.00	5	****	240	Weight: 6 lb	FT = 20%

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

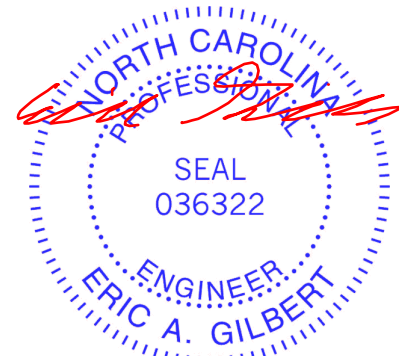
BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-2-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=13/Mechanical, 2=120/0-3-8, 5=13/Mechanical
Max Horz 2=36(LC 10)
Max Uplift 3=16(LC 10), 2=-24(LC 10)
Max Grav 3=14(LC 17), 2=120(LC 1), 5=25(LC 3)

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 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



November 16, 2018

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.

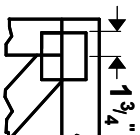
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.



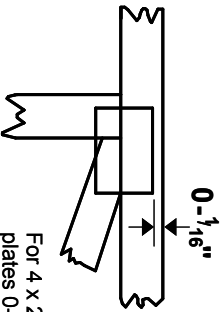
818 Soundside Road
Edenton, NC 27932

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- $\frac{1}{16}$ " from outside edge of truss.



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

* Plate location details available in **MITek 2020 software** or upon request.

PLATE SIZE

4 X 4

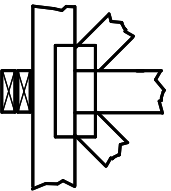
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



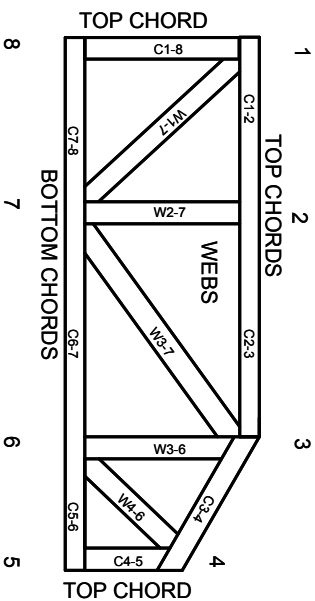
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

ANSI/TP11: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-89: Design Standard for Bracing.
BCSI: 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/TP1 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. 10/03/2015

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 Tor-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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 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/TP1 1 Quality Criteria.