

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: B0318-1246
Prelude C

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: E11596760 thru E11596781

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

North Carolina COA: C-0844



March 29, 2018

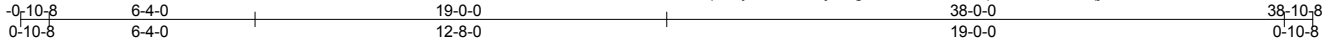
Gilbert, Eric

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 B0318-1246	Truss A1	Truss Type KINGPOST	Qty 1	Ply 1	Prelude C	E11596760
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:26 2018 Page 1
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Scale = 1:70.9

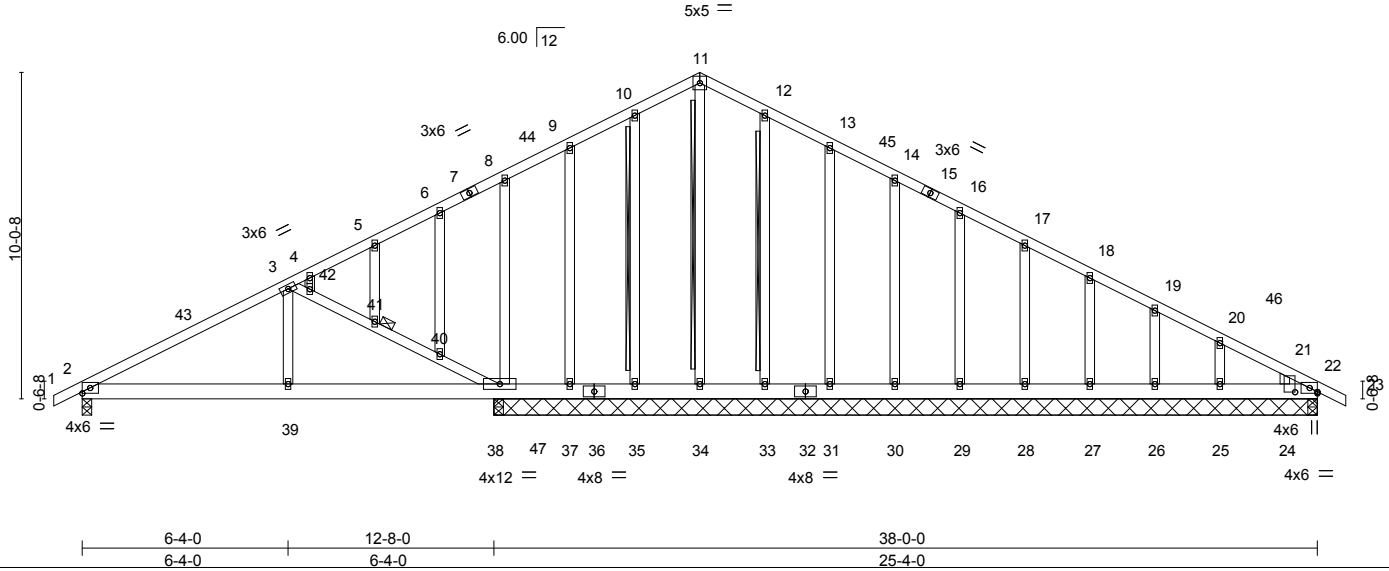


Plate Offsets (X,Y)--	[21:0-0-14,0-1-12], [24:0-0-2,0-8-4], [24:0-0-0,0-1-12]
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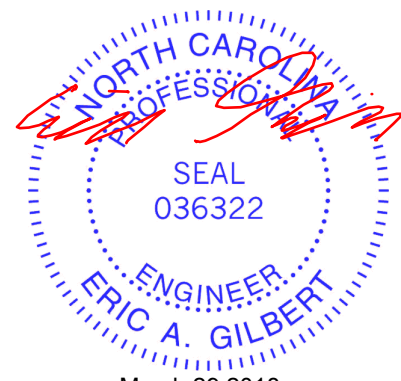
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.16	Vert(LL) -0.01 2-39 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.36	Vert(TL) -0.04 2-39 >999 240		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Horz(TL) 0.01 22 n/a n/a		
			Wind(LL) 0.02 2-39 >999 240	Weight: 286 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing, Except:
WEBS 2x4 SP No.3	10-0-0 oc bracing: 2-39,38-39.
	WEBS T-Brace: 2x4 SPF No.2 - 11-34, 12-33, 10-35
	Fasten (2X) T and I braces to narrow edge of web with 10d
	(0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.
	JOINTS 1 Brace at Jt(s): 41

REACTIONS. All bearings 25-4-0 except (jt=length) 2=0-3-8, 22=0-3-8, 22=0-3-8.
 (lb) - Max Horz 2=-177(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 33, 35, 30, 29, 28, 27, 26, 24, 37, 22 except 2=-187(LC 6), 38=-412(LC 6), 31=-101(LC 7), 25=-105(LC 7)
 Max Grav All reactions 250 lb or less at joint(s) 31, 30, 29, 28, 27, 26, 25, 24, 37, 22, 22 except 2=505(LC 1), 38=723(LC 1), 38=723(LC 1), 34=302(LC 1), 33=252(LC 1), 35=270(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-588/174, 10-11=0/279, 11-12=0/271, 21-22=-319/120
 BOT CHORD 2-39=-138/446, 38-39=-138/446, 37-38=-87/295, 35-37=-87/295, 34-35=-87/295, 33-34=-87/295, 31-33=-87/295, 30-31=-87/295, 29-30=-87/295, 28-29=-87/295, 27-28=-87/295, 26-27=-87/295, 25-26=-87/295, 24-25=-87/295, 22-24=-87/295
 WEBS 3-42=-636/415, 41-42=-580/358, 40-41=-609/386, 38-40=-640/412, 3-39=0/282

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 14-7-3, Exterior(2) 14-7-3 to 19-0-0, Interior(1) 23-4-13 to 34-5-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) This truss has been designed for a 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 33, 35, 30, 29, 28, 27, 26, 24, 37, 22 except (jt=lb) 2=187, 38=412, 31=101, 25=105.
 - 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



Job B0318-1246	Truss A2	Truss Type COMMON	Qty 5	Ply 1	Prelude C	E11596761
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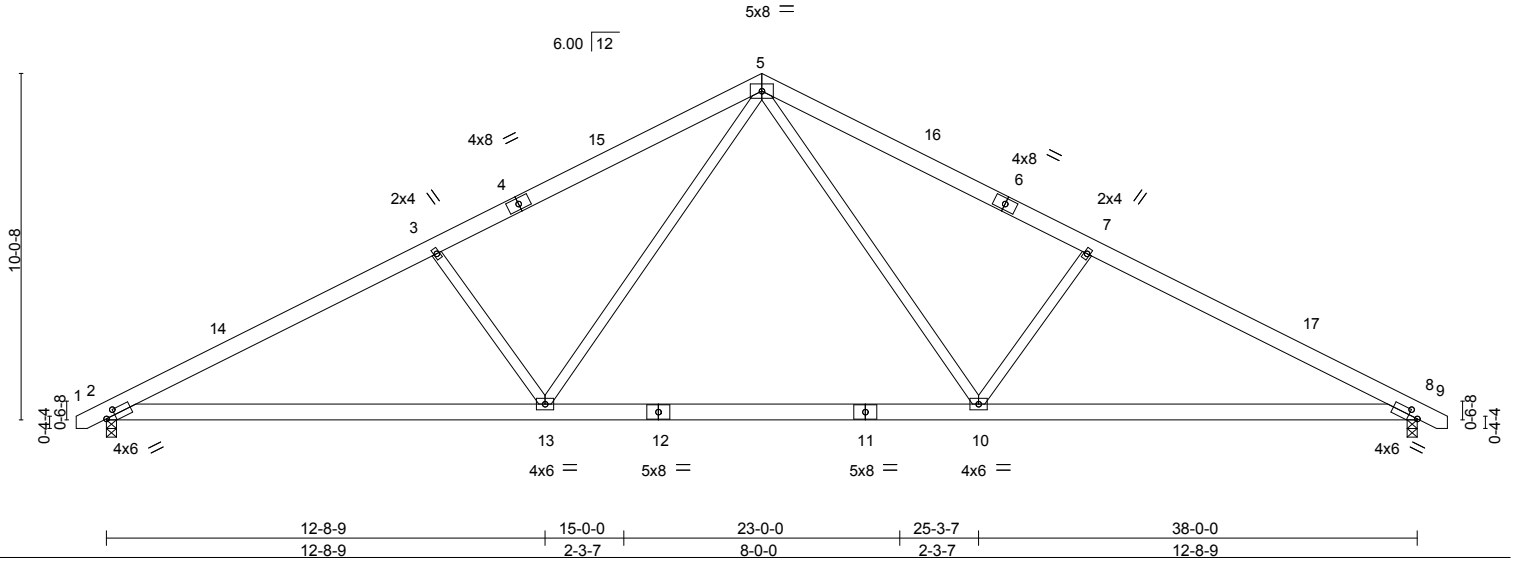
Comtech, Inc., Fayetteville, NC 28309

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ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-WhWa3NEoDCAUR8tp0tqw2qa3DhLfy_8OZ_l?7zWLTH

-0-10-8 0-10-8	9-6-14 9-6-14	19-0-0 9-5-2	28-5-2 9-5-2	38-0-0 9-6-14	38-10-8 0-10-8
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Scale = 1:66.8



12-8-9	15-0-0	23-0-0	25-3-7	38-0-0
12-8-9	2-3-7	8-0-0	2-3-7	12-8-9

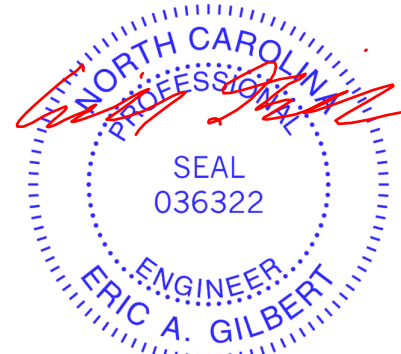
Plate Offsets (X,Y)-- [2:0-3-4,0-2-0], [8:0-3-4,0-2-0]					
LOADING (psf)	SPACING-	CSI.	DEFL.		PLATES
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d		GRIP
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(LL) -0.48 10-13 >944 360		244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.69	Vert(TL) -0.68 10-13 >667 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.10 8 n/a n/a		
	Code IRC2009/TP12007		Wind(LL) 0.09 2-13 >999 240		Weight: 242 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-10-9 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-3-8 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=1811/0-3-8, 8=1811/0-3-8
 Max Horz 2=-150(LC 7)
 Max Uplift 2=-277(LC 6), 8=-277(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3289/986, 3-5=-2963/981, 5-7=-2963/981, 7-8=-3289/986
 BOT CHORD 2-13=-705/2830, 10-13=-308/1865, 8-10=-705/2830
 WEBS 5-10=-277/1219, 7-10=-557/432, 5-13=-277/1219, 3-13=-557/432

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 14-7-3, Exterior(2) 14-7-3 to 19-0-0, Interior(1) 23-4-13 to 34-3-13 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 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=277, 8=277.



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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 B0318-1246	Truss A2-P	Truss Type COMMON	Qty 2	Ply 1	Prelude C	E11596762
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:29 2018 Page 1
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-?t4yGjFQ_WJL2HS5NkO3TFNi8d_fONpHdDksXZzWLTG

0-10-8	9-6-14	19-0-0	28-5-2	38-0-0	38-10-8
0-10-8	9-6-14	9-5-2	9-5-2	9-6-14	0-10-8

Scale = 1:69.8

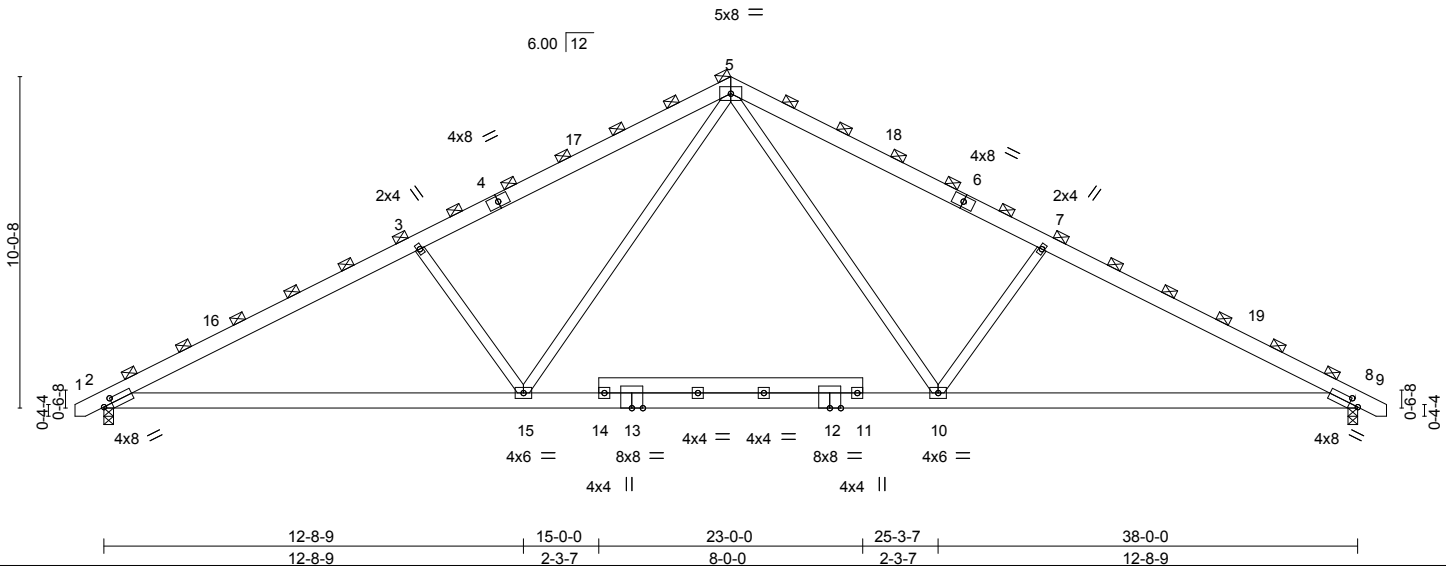


Plate Offsets (X,Y)--	[2:0-3-4,0-2-0], [8:0-3-4,0-2-0]				
LOADING (psf)	SPACING- 2-3-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.45 10-15 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(TL) -0.65 10-15 >699 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.78	Horz(TL) 0.14 8 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.11 10-15 >999 240	Weight: 261 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (3-4-7 max.)
BOT CHORD 2x6 SP No.1	(Switched from sheeted: Spacing > 2-0-0).
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied or 8-6-0 oc bracing.
11-14: 2x6 SP No.1	

REACTIONS. (lb/size) 2=2179/0-3-8, 8=2179/0-3-8
Max Horz 2=-169(LC 7)
Max Uplift 2=-311(LC 6), 8=-311(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3997/1114, 3-5=-3631/1107, 5-7=-3631/1107, 7-8=-3997/1114
BOT CHORD 2-15=-796/3448, 10-15=-349/2277, 8-10=-796/3448
WEBS 5-10=-314/1530, 7-10=-624/485, 5-15=-314/1530, 3-15=-624/485

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 14-7-3, Exterior(2) 14-7-3 to 19-0-0, Interior(1) 23-4-13 to 34-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=311, 8=311.
 - 6) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Job B0318-1246	Truss A3	Truss Type COMMON	Qty 2	Ply 1	Prelude C	E11596763
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:30 2018 Page 1

ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-T3eLU3G3lqRCgR1HwRvI?TwwQ10F7sORrtTP3?zWLTF

-0-10-8	9-6-14	19-0-0	28-5-2	38-0-0	38-10-8
0-10-8	9-6-14	9-5-2	9-5-2	9-6-14	0-10-8

Scale = 1:69.8

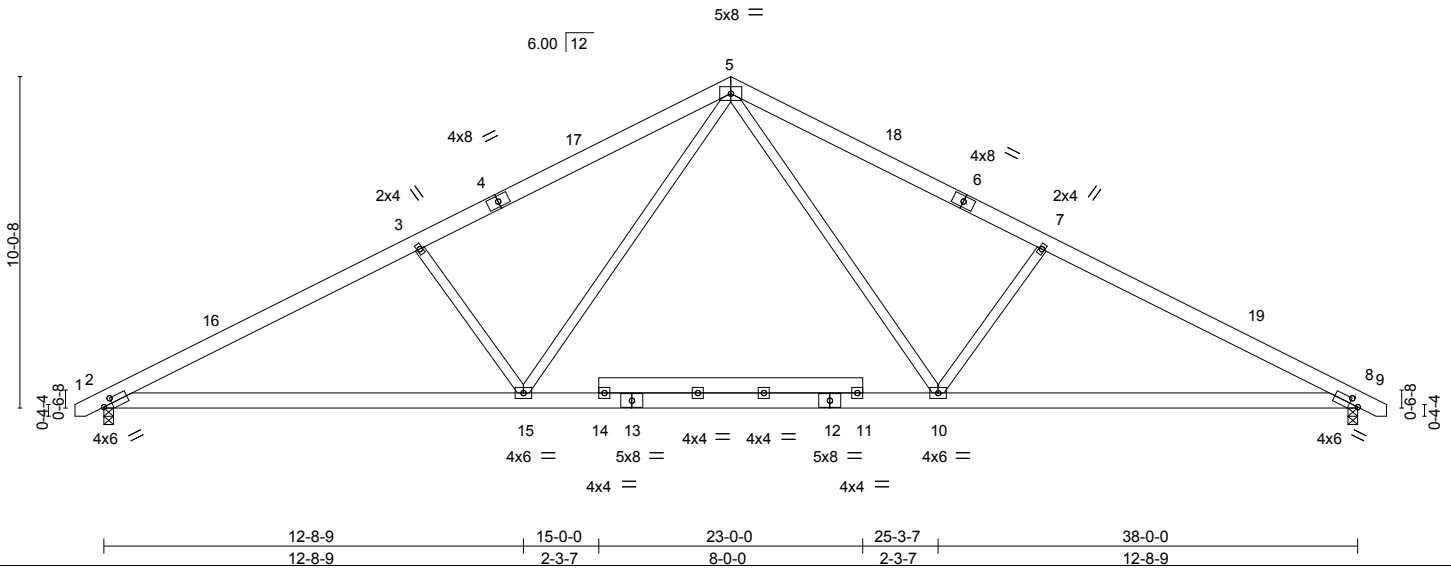


Plate Offsets (X,Y)--	[2:0-3-4,0-2-0], [8:0-3-4,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.30 10-15 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(TL) -0.48 10-15 >940 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(TL) 0.11 8 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.09 10-15 >999 240		
				Weight: 261 lb	FT = 20%

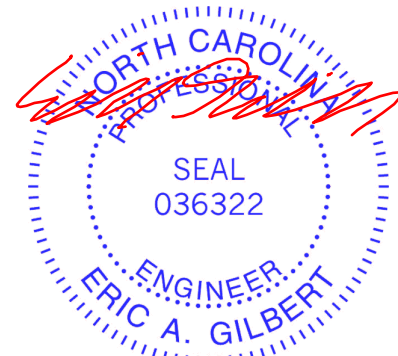
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 11-14: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-10-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-3-2 oc bracing.

REACTIONS. (lb/size) 2=1811/0-3-8, 8=1811/0-3-8
 Max Horz 2=-150(LC 7)
 Max Uplift 2=-277(LC 6), 8=-277(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3241/990, 3-5=-2940/984, 5-7=-2940/984, 7-8=-3241/990
 BOT CHORD 2-15=-708/2811, 10-15=-310/1849, 8-10=-708/2811
 WEBS 5-10=-279/1207, 7-10=-562/432, 5-15=-279/1207, 3-15=-562/432

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 14-7-3, Exterior(2) 14-7-3 to 19-0-0, Interior(1) 23-4-13 to 34-3-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=277, 8=277.



March 29, 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.



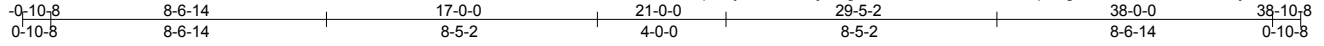
818 Soundside Road
 Edenton, NC 27932

Job B0318-1246	Truss A4	Truss Type HIP	Qty 1	Ply 1	Prelude C	E11596764
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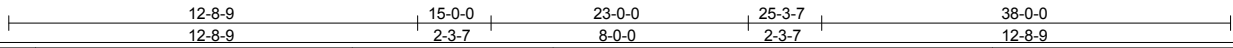
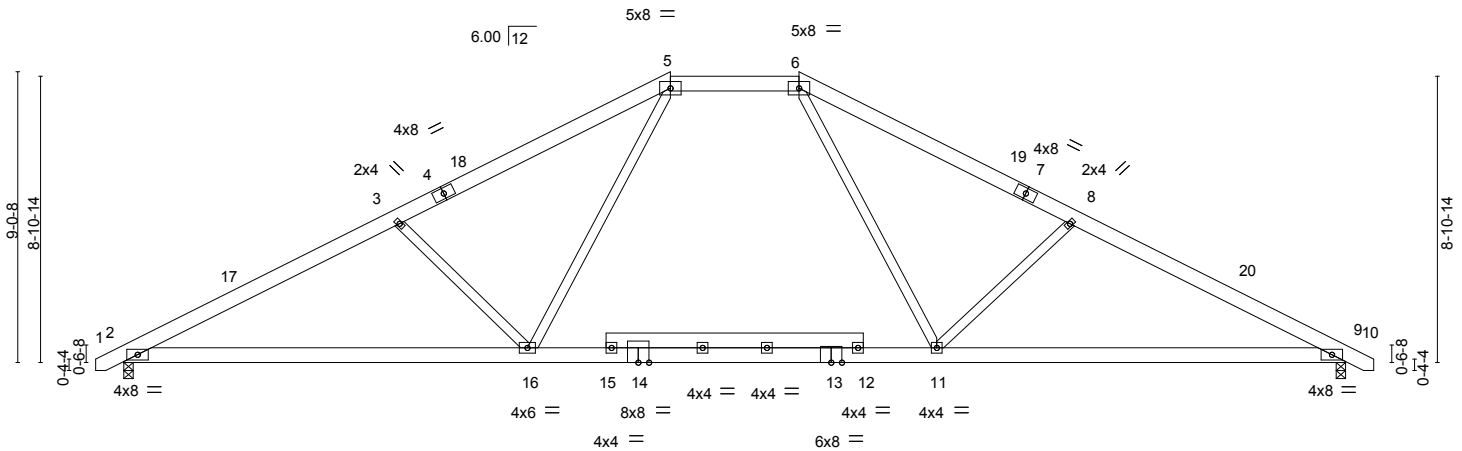
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:30 2018 Page 1

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Scale = 1:71.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) -0.40 11-16 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.86	Vert(TL) -0.58 11-16 >776 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.48	Horz(TL) 0.13 9 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.14 2-16 >999 240	Weight: 255 lb	FT = 20%

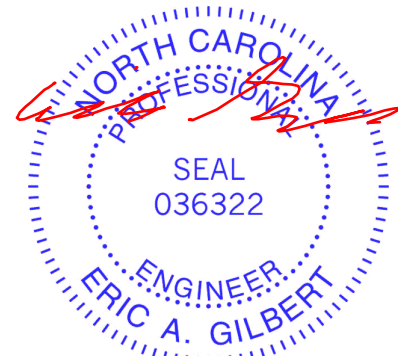
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 12-15: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-9-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-4-14 oc bracing.

REACTIONS. (lb/size) 2=1942/0-3-8, 9=1940/0-3-8
 Max Horz 2=-135(LC 7)
 Max Uplift 2=-265(LC 6), 9=-265(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3577/1148, 3-5=-3228/1061, 5-6=-2251/952, 6-8=-3212/1056, 8-9=-3568/1150
 BOT CHORD 2-16=-863/3114, 11-16=-463/2251, 9-11=-864/3107
 WEBS 3-16=-540/435, 5-16=-208/1164, 6-11=-202/1155, 8-11=-546/436

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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 27-2-11, Interior(1) 27-2-11 to 34-3-13 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 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) 2=265, 9=265.



March 29, 2018

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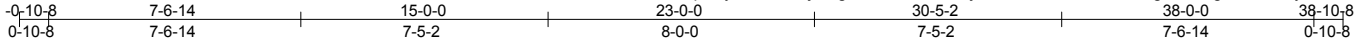
818 Soundside Road
 Edenton, NC 27932

Job B0318-1246	Truss A5	Truss Type HIP	Qty 1	Ply 1	Prelude C	E11596765
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Comtech, Inc., Fayetteville, NC 28309

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Scale = 1:69.2

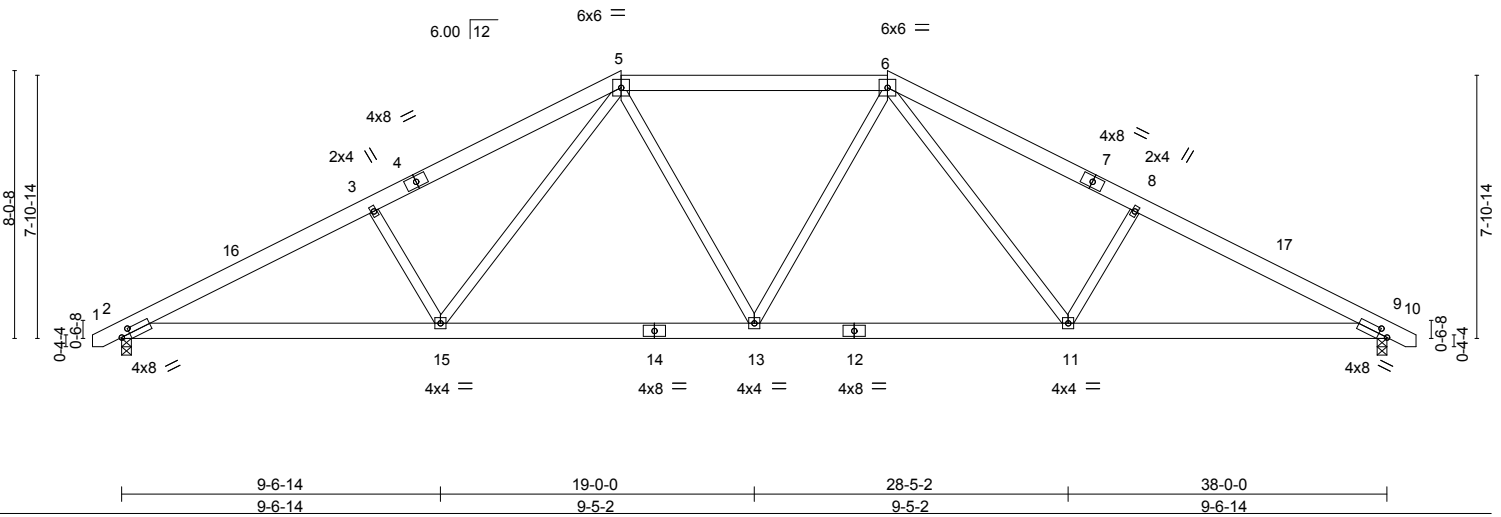


Plate Offsets (X,Y)-- [2:0-3-4,0-2-0], [9:0-3-4,0-2-0]
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LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.35	Vert(LL) -0.22 13-15 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.65	Vert(TL) -0.37 13-15 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(TL) 0.11 9 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.08 13 >999 240	Weight: 253 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 3-9-14 oc purlins.
BOT CHORD Rigid ceiling directly applied or 8-2-15 oc bracing.

REACTIONS. (lb/size) 2=1937/0-3-8, 9=1937/0-3-8
Max Horz 2=-121(LC 7)
Max Uplift 2=-252(LC 6), 9=-252(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3632/1191, 3-5=-3417/1216, 5-6=-2634/997, 6-8=-3417/1216, 8-9=-3632/1191
BOT CHORD 2-15=-912/3146, 13-15=-575/2468, 11-13=-575/2468, 9-11=-912/3146
WEBS 3-15=-364/364, 5-15=-272/865, 5-13=-17/492, 6-13=-17/492, 6-11=-272/865, 8-11=-364/364

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-9-5, Exterior(2) 8-9-5 to 29-2-11, Interior(1) 29-2-11 to 34-3-13 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, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=252, 9=252.

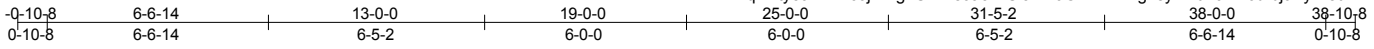


March 29, 2018

Job B0318-1246	Truss A6	Truss Type HIP	Qty 1	Ply 1	Prelude C	E11596766
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:32 2018 Page 1
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-PSi5viHJGRhwwBg2sym4u?Jzr7cbrjJBYW8uzWLT



Scale = 1:68.5

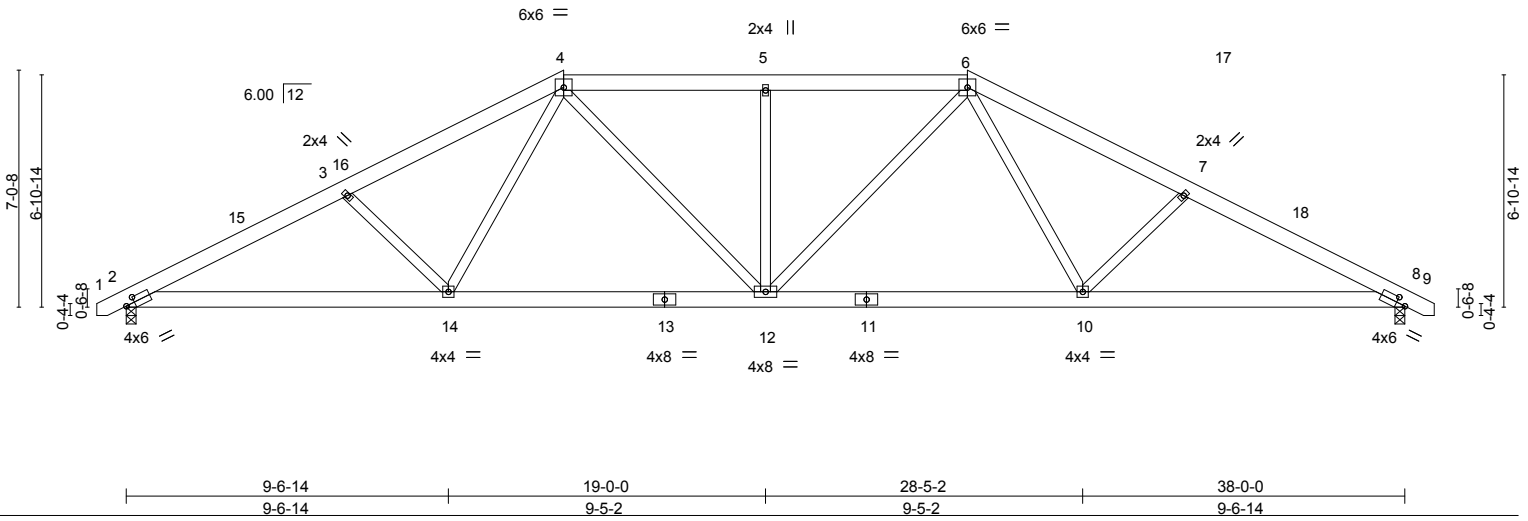


Plate Offsets (X,Y)--	[2:0-3-4,0-2-0], [8:0-3-4,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.21	Vert(LL) -0.10	12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(TL) -0.26	12-14	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(TL) 0.09	8	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.10	12	>999	240		
							Weight: 257 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-6-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-10-10 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=1560/0-3-8, 8=1560/0-3-8
Max Horz 2=106(LC 6)
Max Uplift 2=-236(LC 6), 8=-236(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2808/1275, 3-4=-2551/1206, 4-5=-2251/1177, 5-6=-2251/1177, 6-7=-2551/1206, 7-8=-2808/1275
BOT CHORD 2-14=-999/2441, 12-14=-680/1970, 10-12=-680/1970, 8-10=-999/2441
WEBS 3-14=-344/345, 4-14=-167/538, 4-12=-142/539, 5-12=-427/299, 6-12=-142/539, 6-10=-167/538, 7-10=-344/345

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 6-9-5, Exterior(2) 6-9-5 to 31-2-11, Interior(1) 31-2-11 to 34-3-13 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=236, 8=236.



March 29, 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 B0318-1246	Truss A7	Truss Type HIP	Qty 1	Ply 1	Prelude C	E11596767
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:33 2018 Page 1
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-teJT651x1lpnXviscaT?d5XMjESaKHITri3gKzWLTc

0-10-8	5-6-14	11-0-0	19-0-0	27-0-0	32-5-2	38-0-0	38-10-8
0-10-8	5-6-14	5-5-2	8-0-0	8-0-0	5-5-2	5-6-14	0-10-8

Scale = 1:66.4

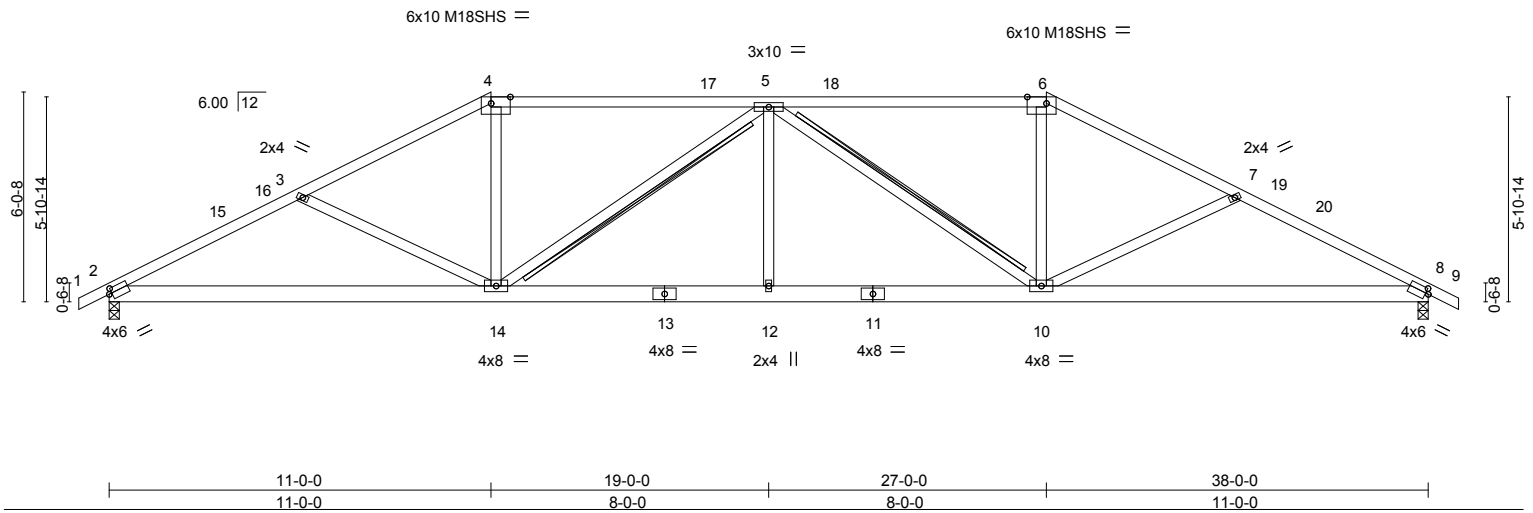


Plate Offsets (X,Y)--	[2:0-1-0,0-1-12], [4:0-6-10,Edge], [6:0-6-10,Edge], [8:0-1-0,0-1-12]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.72	Vert(LL) -0.14 12 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.49	Vert(TL) -0.37 2-14 >999 240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.40	Horz(TL) 0.11 8 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.14 12 >999 240		Weight: 221 lb FT = 20%

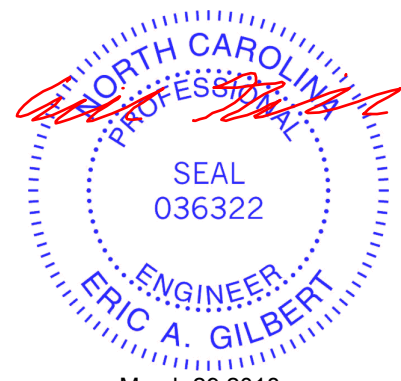
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-10-3 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-14, 5-10
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. (lb/size) 2=1570/0-3-8, 8=1570/0-3-8
Max Horz 2=93(LC 7)
Max Uplift 2=227(LC 6), 8=227(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2750/1285, 3-4=-2449/1121, 4-5=-2152/1079, 5-6=-2152/1079, 6-7=-2449/1121, 7-8=-2750/1285
BOT CHORD 2-14=-1006/2360, 12-14=-958/2642, 10-12=-958/2642, 8-10=-1006/2360
WEBS 3-14=-263/326, 4-14=-207/692, 5-14=-713/291, 5-10=-713/291, 6-10=-207/692, 7-10=-263/326

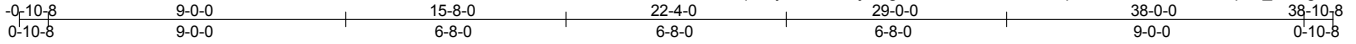
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 4-9-5, Exterior(2) 4-9-5 to 11-0-0, Interior(1) 17-2-11 to 20-9-5, Exterior(2) 27-0-0 to 38-10-8 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) All plates are MT20 plates unless otherwise indicated.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=227, 8=227.
 - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



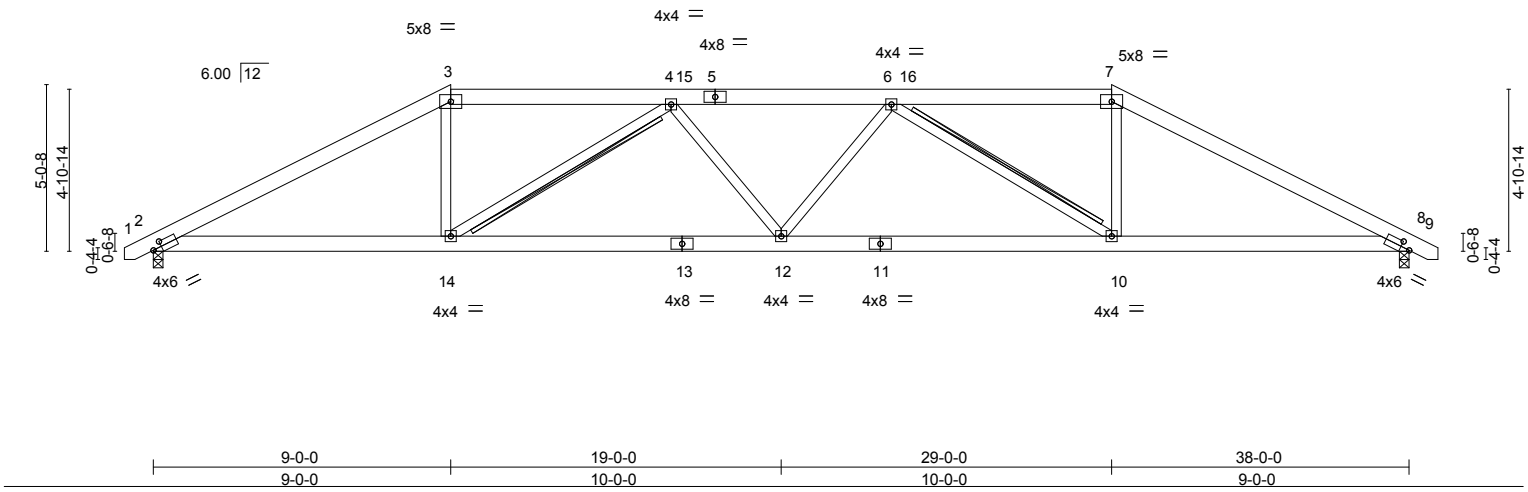
Job B0318-1246	Truss A8	Truss Type HIP	Qty 1	Ply 1	Prelude C	E11596768
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:33 2018 Page 1
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-teJT65lx1lpnXvlscAT?d5XQFESqKG_tYri3gKzWLTC



Scale = 1:69.7



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.50	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.14 12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.45	Vert(TL) -0.38 10-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.12 8 n/a n/a		
	Code IRC2009/TP12007		Wind(LL) 0.14 12 >999 240	Weight: 239 lb	FT = 20%

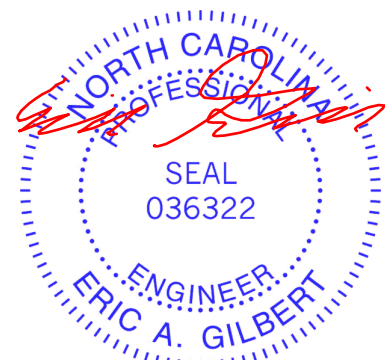
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-11-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 7-4-5 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 4-14, 6-10
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. (lb/size) 2=1560/0-3-8, 8=1560/0-3-8
Max Horz 2=-78(LC 7)
Max Uplift 2=-209(LC 5), 8=-209(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2763/1148, 3-4=-2336/1133, 4-6=-3184/1401, 6-7=-2336/1133, 7-8=-2763/1148
BOT CHORD 2-14=-832/2358, 12-14=-1141/3113, 10-12=-1141/3113, 8-10=-832/2358
WEBS 3-14=-139/784, 4-14=-1045/375, 4-12=0/251, 6-12=0/251, 6-10=-1045/375, 7-10=-139/784

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 15-2-11, Interior(1) 15-2-11 to 22-9-5, Exterior(2) 22-9-5 to 29-0-0 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=209, 8=209.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



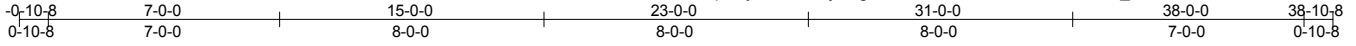
March 29, 2018

Job B0318-1246	Truss A9	Truss Type HIP	Qty 1	Ply 1	Prelude C	E11596769
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:34 2018 Page 1

ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-LrtrJRJZo2xe93K39H_EAJ4e3enr3b10mVRdCmzWLTB



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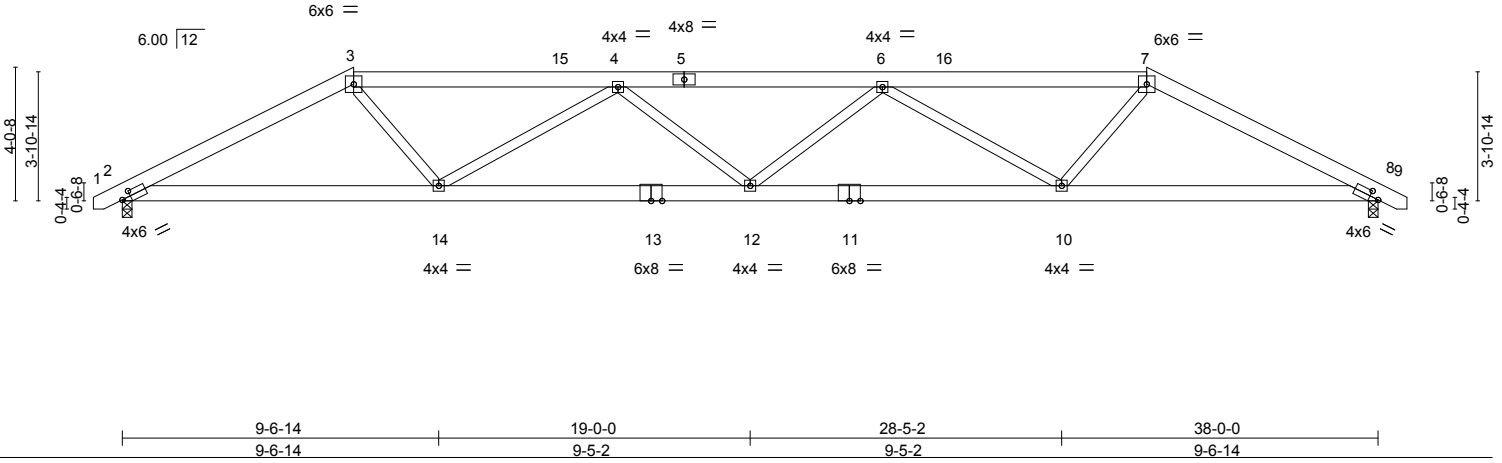


Plate Offsets (X,Y)--	[2:0-3-4,0-2-0], [3:0-0-0,0-0-0], [7:0-0-0,0-0-0], [8:0-3-4,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.20	12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(TL) -0.51	10-12	>882	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.97	Horz(TL) 0.14	8	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.19	12	>999	240		
							Weight: 232 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 3-8-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-6-5 oc bracing.

REACTIONS. (lb/size) 2=1560/0-3-8, 8=1560/0-3-8
 Max Horz 2=64(LC 6)
 Max Uplift 2=-239(LC 5), 8=-239(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2804/1170, 3-4=-3041/1272, 4-6=-4085/1649, 6-7=-3041/1272, 7-8=-2804/1170
 BOT CHORD 2-14=-888/2437, 12-14=-1464/3987, 10-12=-1464/3987, 8-10=-888/2437
 WEBS 3-14=-236/1046, 4-14=-1185/518, 4-12=0/272, 6-12=0/272, 6-10=-1185/518,
 7-10=-236/1046

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-10 to 13-2-11, Interior(1) 13-2-11 to 24-9-5, Exterior(2) 24-9-5 to 31-0-0 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) 2=239, 8=239.



March 29, 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.

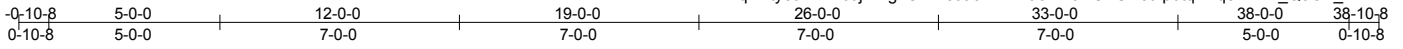


818 Soundside Road
 Edenton, NC 27932

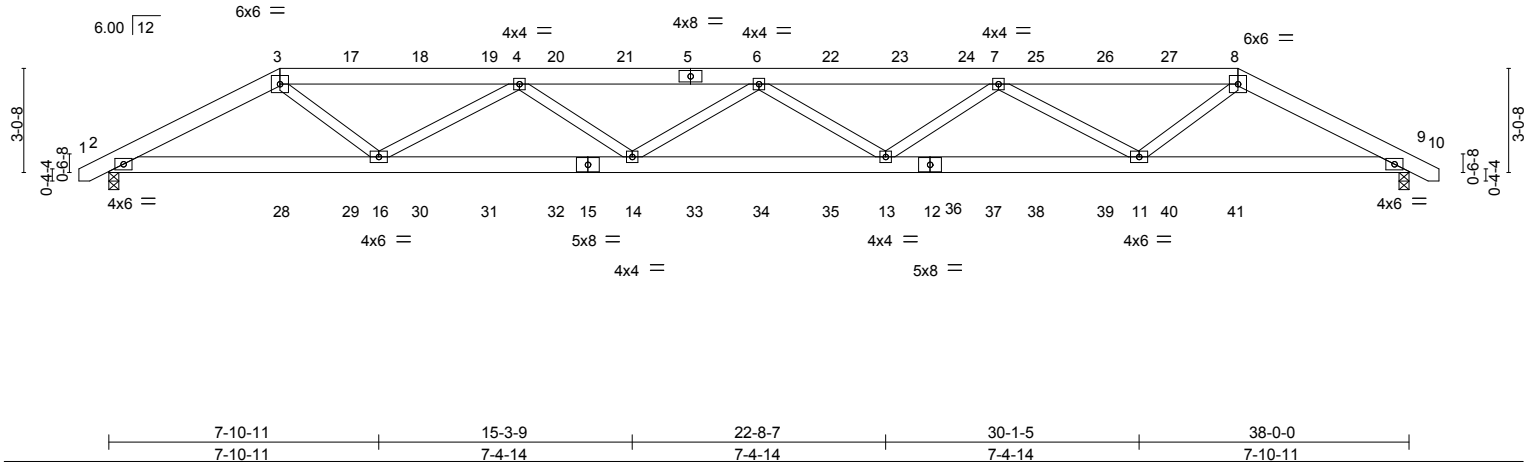
Job B0318-1246	Truss A10	Truss Type Hip Girder	Qty 1	Ply 2	Prelude C	E11596770
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:28 2018 Page 1
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-WhWa3NEoDCAUR8tp0tqw2qekDnfv_Q8OZ_I?7zWLTH



Scale = 1:67.3



LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.23 13-14 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(TL) -0.59 13-14 >769 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.53	Horz(TL) 0.12 9 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.26 13-14 >999 240	Weight: 469 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP 2400F 2.0E
BOT CHORD 2x6 SP 2400F 2.0E
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) 2=2582/0-3-8, 9=2585/0-3-8
Max Horz 2=50(LC 13)
Max Uplift 2=-703(LC 4), 9=-704(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-4886/1455, 3-4=-6205/1775, 4-6=-8913/2582, 6-7=-8918/2583, 7-8=-6217/1777,
8-9=-4897/1458
BOT CHORD 2-16=-1274/4291, 14-16=-2477/8210, 13-14=-2804/9394, 11-13=-2451/8219,
9-11=-1241/4300
WEBS 3-16=-630/2578, 4-16=-2398/907, 4-14=-95/958, 6-14=-601/341, 6-13=-595/341,
7-13=-94/953, 7-11=-2394/906, 8-11=-628/2581

- 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 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=703, 9=704.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 96 lb down and 74 lb up at 5-0-0, 77 lb down and 74 lb up at 7-0-12, 77 lb down and 74 lb up at 9-0-12, 77 lb down and 74 lb up at 11-0-12, 77 lb down and 74 lb up at 13-0-12, 77 lb down and 74 lb up at 15-0-12, 77 lb down and 74 lb up at 17-0-12, 77 lb down and 74 lb up at 19-0-12, 77 lb down and 74 lb up at 21-0-12, 77 lb down and 74 lb up at 23-0-12, 77 lb down and 74 lb up at 25-0-12, 77 lb down and 74 lb up at 27-0-12, 77 lb down and 74 lb up at 29-0-12, and 77 lb down and 74 lb up at 30-11-4, and 96 lb down and 74 lb up at 33-0-0 on top chord, and 263 lb down and 76 lb up at 5-0-0, 56 lb down at 7-0-12, 56 lb down at 9-0-12, 56 lb down at 11-0-12, 56 lb down at 13-0-12, 56 lb down at 15-0-12, 56 lb down at 17-0-12, 56 lb down at 19-0-12, 56 lb down at 21-0-12, 56 lb down at 23-0-12, 56 lb down at 25-0-12, 56 lb down at 27-0-12, 56 lb down at 29-0-12, and 56 lb down at 30-11-4, and 263 lb down and 76 lb up at 32-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Continued on page 2

LOAD CASE(S) Standard

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.

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

Job B0318-1246	Truss A10	Truss Type Hip Girder	Qty 1	Ply 2	Prelude C Job Reference (optional)	E11596770
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:28 2018 Page 2
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-WhWa3NEoDCAUR8tvp0tqw2qekDnfv_Q8OZ_I?7zWLTH

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-3=-60, 3-8=-60, 8-10=-60, 2-9=-20

Concentrated Loads (lb)

Vert: 3=-77(B) 5=-77(B) 8=-77(B) 14=-28(B) 6=-77(B) 17=-77(B) 18=-77(B) 19=-77(B) 20=-77(B) 21=-77(B) 22=-77(B) 23=-77(B) 24=-77(B) 25=-77(B) 26=-77(B) 27=-77(B) 28=-263(B) 29=-28(B) 30=-28(B) 31=-28(B) 32=-28(B) 33=-28(B) 34=-28(B) 35=-28(B) 36=-28(B) 37=-28(B) 38=-28(B) 39=-28(B) 40=-28(B) 41=-263(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

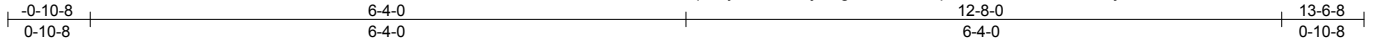
Job B0318-1246	Truss B1	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Prelude C	E11596771
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Comtech, Inc., Fayetteville, NC 28309

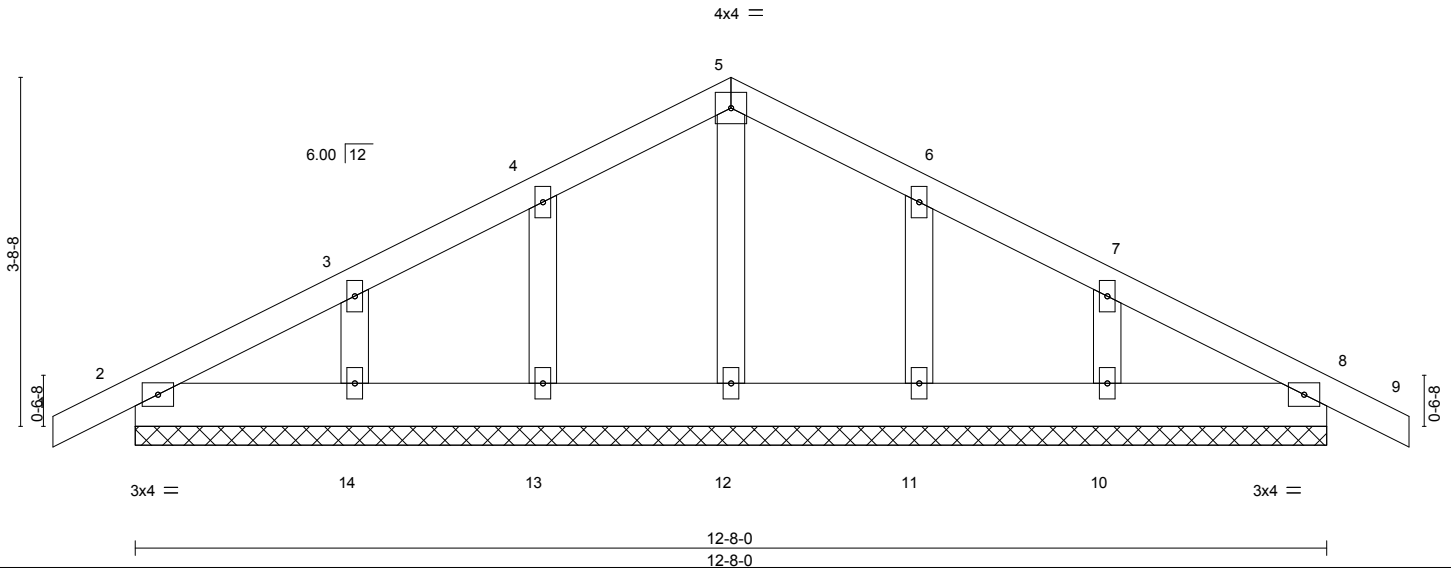
8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:35 2018 Page 1

ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-p1REXmKBZM3VnCVfj?VTiWdsW2FRoGHA?9BAIDzWLTa

Job Reference (optional)



Scale = 1:24.5



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(LL) -0.00 8 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.08	Vert(TL) -0.00 8 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) 0.00 8 n/a n/a		
	Code IRC2009/TPI2007			Weight: 67 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 12-8-0.
(lb) - Max Horz 2=70(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 2, 8, 13, 11 except 14=-106(LC 6), 10=-105(LC 7)
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=-129/264, 7-10=-129/264

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone 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, 11 except (jt=lb) 14=106, 10=105.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 2.



March 29, 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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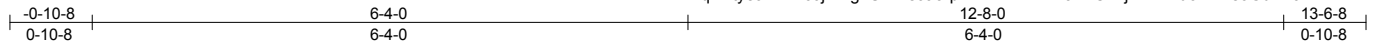
818 Soundside Road
Edenton, NC 27932

Job B0318-1246	Truss B2	Truss Type COMMON	Qty 1	Ply 1	Prelude C	E11596772
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:35 2018 Page 1

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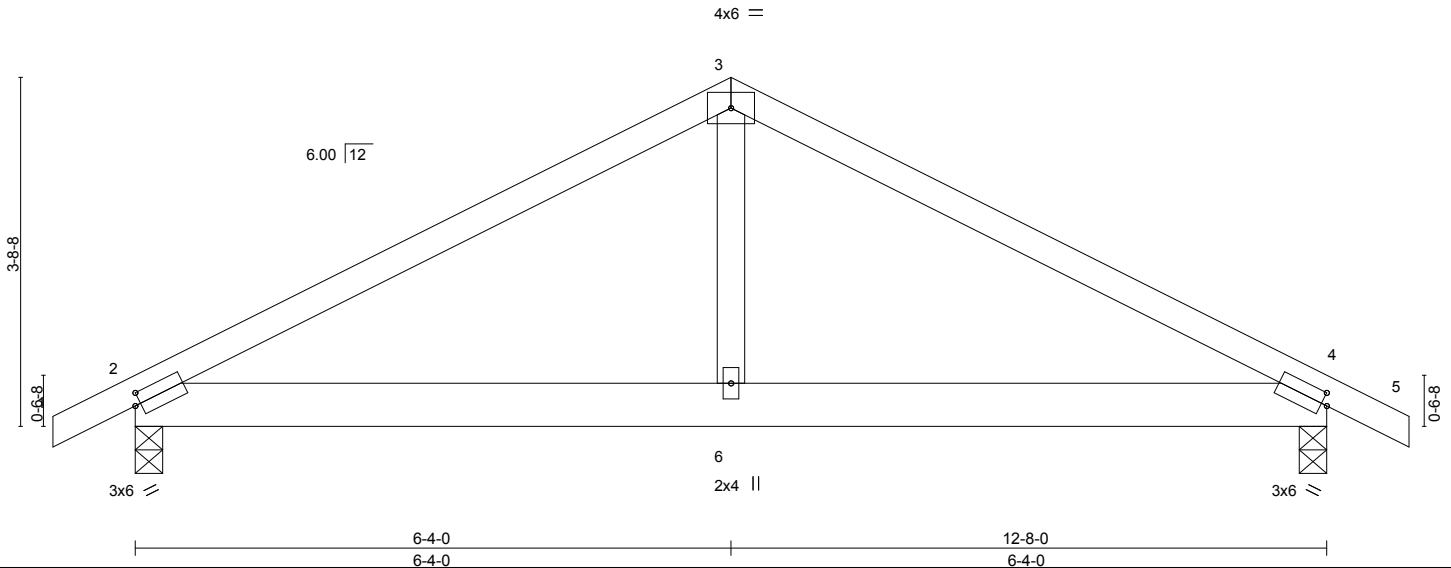


Plate Offsets (X,Y)-- [2:0-0-12,0-1-8], [4:0-0-12,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	Vert(LL)	-0.01	4-6	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.18	Vert(TL)	-0.04	4-6	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(TL)	0.01	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.02	4-6	>999		
	Code IRC2009/TP12007						Weight: 58 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 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 2=556/0-3-8, 4=556/0-3-8
 Max Horz 2=60(LC 6)
 Max Uplift 2=-128(LC 6), 4=-128(LC 7)

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

TOP CHORD 2-3=-690/365, 3-4=-690/365
 BOT CHORD 2-6=-159/527, 4-6=-159/527
 WEBS 3-6=-7/316

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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) except (jt=lb) 2=128, 4=128.



March 29, 2018

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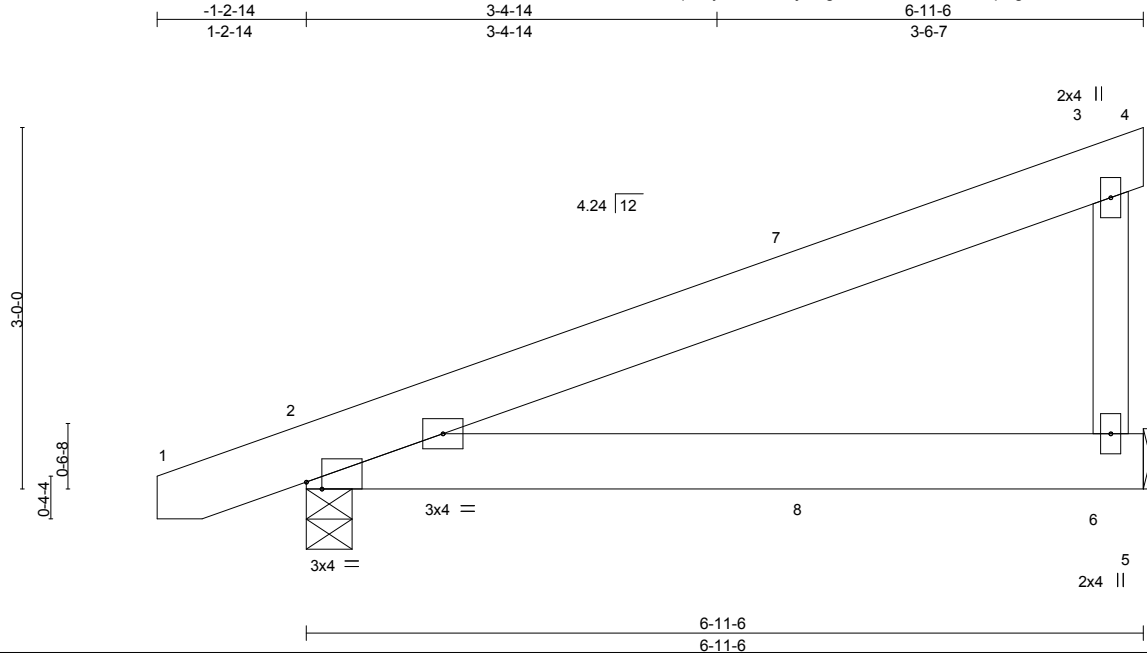


818 Soundside Road
 Edenton, NC 27932

Job B0318-1246	Truss CJ07	Truss Type Diagonal Hip Girder	Qty 2	Ply 1	Prelude C	E11596773
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:36 2018 Page 1
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Scale = 1:19.1

LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	2-6	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.18	Vert(TL)	-0.06	2-6	>999	240		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.00	Horz(TL)	0.00		n/a	n/a		
BCDL	10.0	Code IRC2009/TPI2007		Matrix-P		Wind(LL)	0.00	2	****	240	Weight: 40 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=263/Mechanical, 2=341/0-4-9
Max Horz 2=116(LC 3)
Max Uplift 6=-75(LC 3), 2=-107(LC 3)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise); Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb) 2=107.
 - 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 25 lb up at 4-2-8, and 25 lb up at 4-2-8 on top chord, and at 4-2-8, and at 4-2-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 7) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-20, 2-5=-20

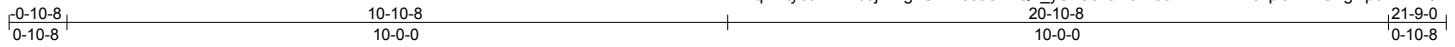


March 29, 2018

Job B0318-1246	Truss G1	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Prelude C	E11596774
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:37 2018 Page 1
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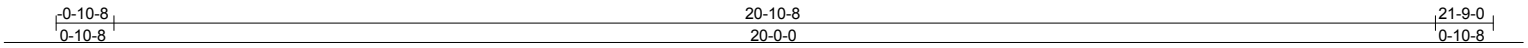
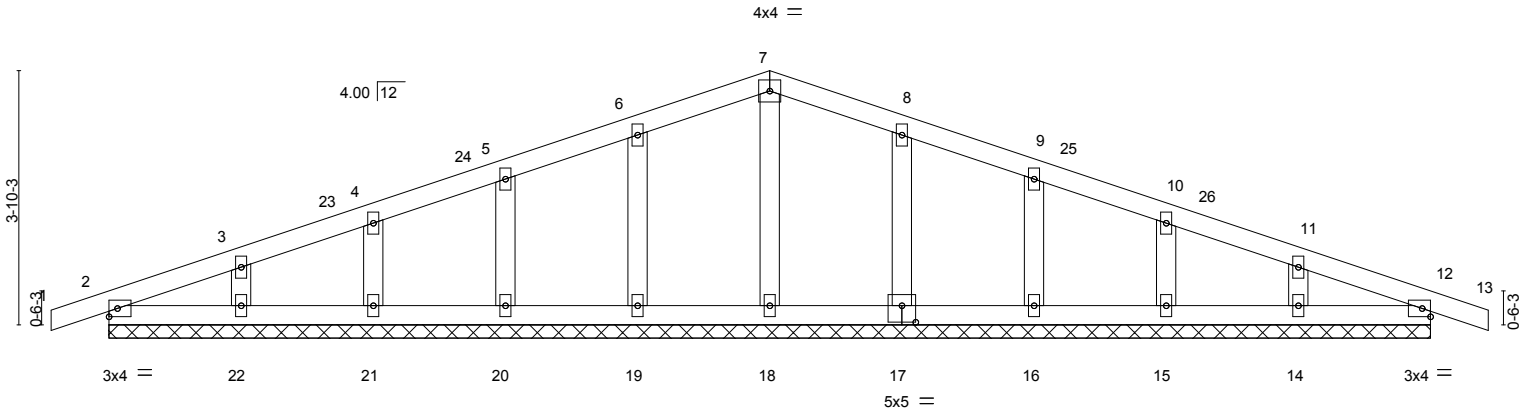


Plate Offsets (X,Y)-- [17:0-2-8,0-3-0]

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 0.06	Vert(LL)	-0.00	12	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(TL)	-0.00	12	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(TL)	0.00	12	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-S						
								Weight: 88 lb	FT = 20%

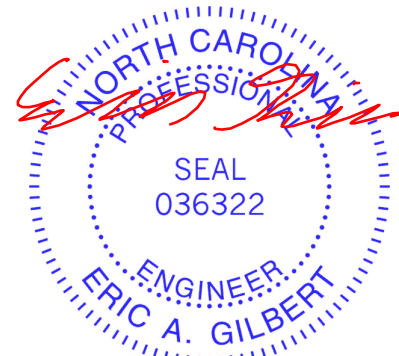
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.3

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=-67(LC 5)
Max Uplift All uplift 100 lb or less at joint(s) 12, 19, 20, 21, 22, 17, 16, 15, 14, 2
Max Grav All reactions 250 lb or less at joint(s) 12, 18, 19, 20, 21, 22, 17, 16, 15, 14, 2

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone 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) 12, 19, 20, 21, 22, 17, 16, 15, 14, 2.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 29, 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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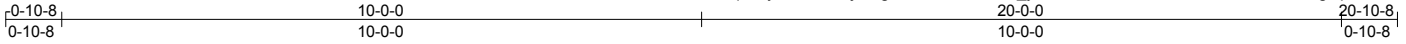
818 Soundside Road
Edenton, NC 27932

Job B0318-1246	Truss G2	Truss Type Common	Qty 5	Ply 1	Prelude C	E11596775
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:37 2018 Page 1

ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-mQZ_ySLSzJD0W3drPXxni4ms1G9HTSTgHp5zWLT8



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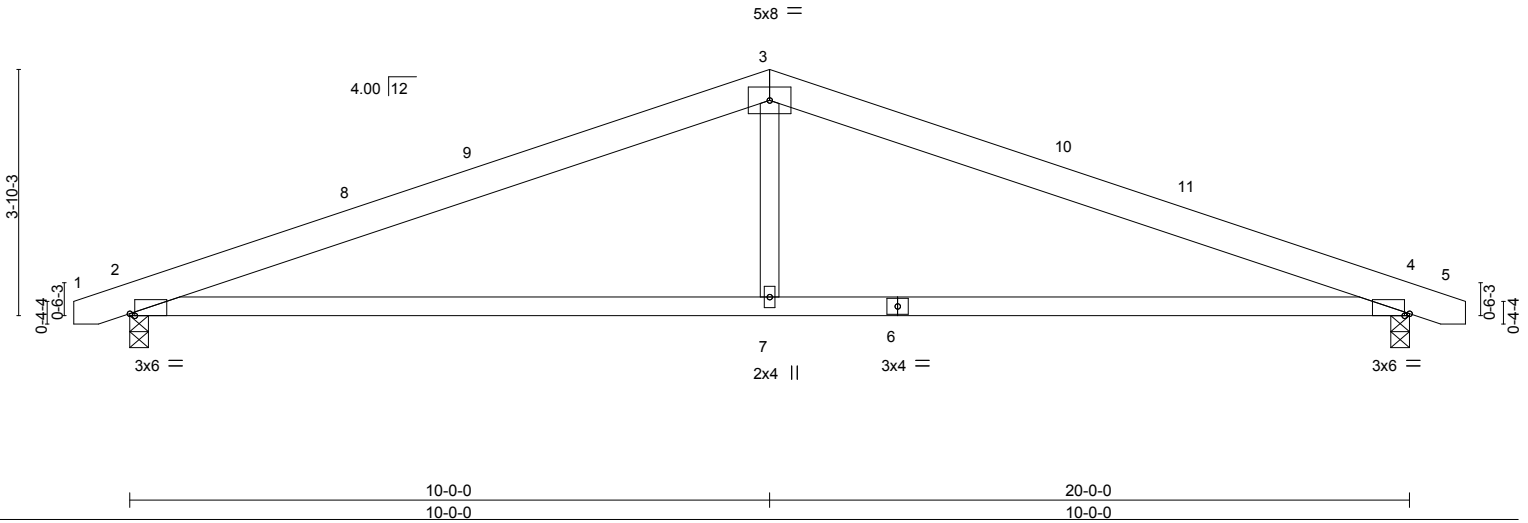


Plate Offsets (X,Y)--	[2:0-0-15,Edge], [4:0-0-15,Edge]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.59	Vert(LL) -0.17	2-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(TL) -0.48	2-7	>491	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(TL) 0.05	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TP12007	Matrix-S	Wind(LL) 0.07	2-7	>999	240	Weight: 88 lb	FT = 20%

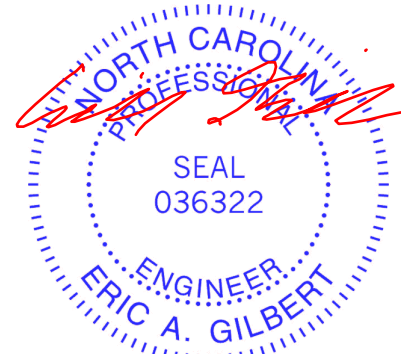
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-1-5 oc bracing.

REACTIONS. (lb/size) 4=838/0-3-8, 2=838/0-3-8
 Max Horz 2=-54(LC 7)
 Max Uplift 4=-180(LC 5), 2=-180(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1438/620, 3-4=-1438/620
 BOT CHORD 2-7=-462/1294, 4-7=-462/1294
 WEBS 3-7=0/455

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) -0-8-3 to 3-8-10, Interior(1) 3-8-10 to 5-7-3, Exterior(2) 5-7-3 to 10-0-0, Interior(1) 14-4-13 to 16-3-6 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 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=180, 2=180.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 29, 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

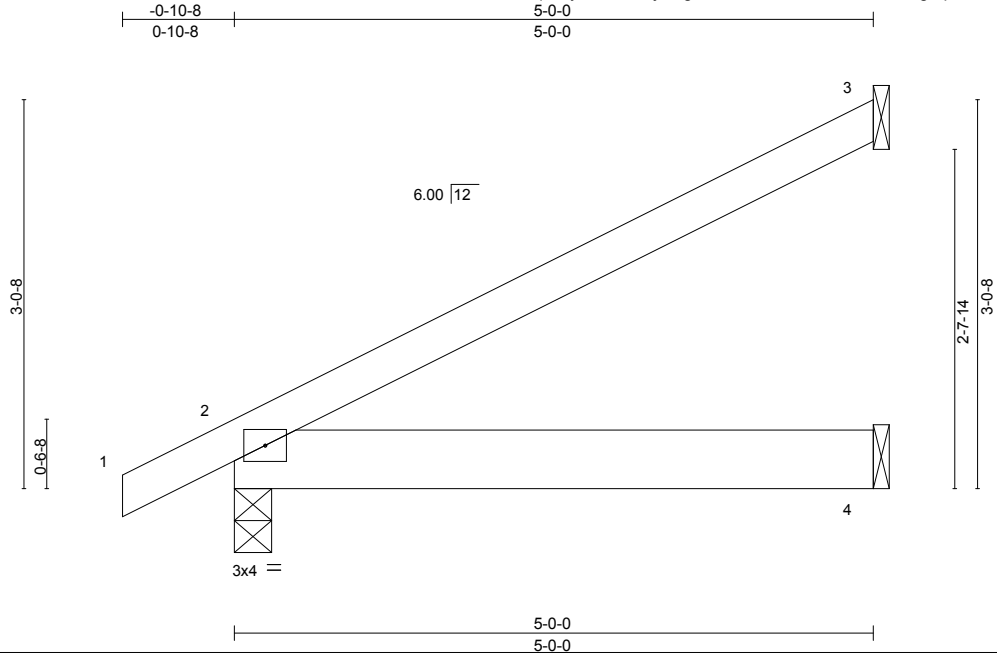
Job B0318-1246	Truss J1	Truss Type Jack-Open	Qty 15	Ply 1	Prelude C	E11596776
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:38 2018 Page 1

ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-Ec7M9oM4sHR3eegqQ72AK9FJAFG3?dEch7pQMxZWLT7

Job Reference (optional)



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	TC 0.36	Vert(LL) -0.01	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(TL) -0.02	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	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 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=137/Mechanical, 2=259/0-3-8, 4=48/Mechanical
Max Horz 2=119(LC 6)
Max Uplift 3=86(LC 6), 2=69(LC 6)
Max Grav 3=137(LC 1), 2=259(LC 1), 4=96(LC 2)

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

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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.



March 29, 2018

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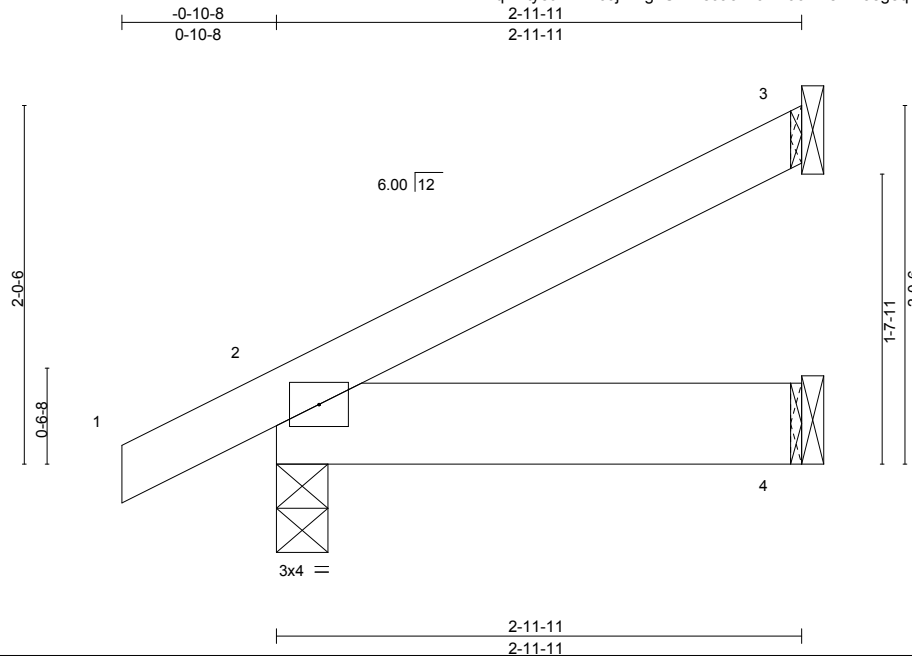


818 Soundside Road
Edenton, NC 27932

Job B0318-1246	Truss J2	Truss Type Jack-Open	Qty 4	Ply 1	Prelude C	E11596777
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:38 2018 Page 1
ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-Ec7M9oM4sHR3egeqO72AK9FNKFH??dEch7PqMxZWLT7



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(TL) -0.00	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(TL) -0.00	3	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	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

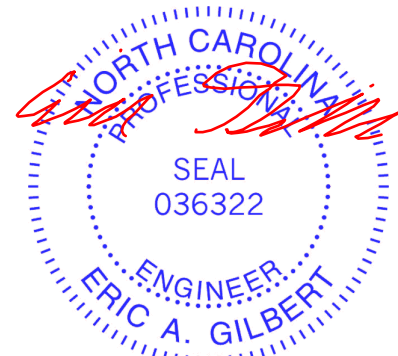
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-11-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=72/Mechanical, 2=183/0-3-8, 4=28/Mechanical
Max Horz 2=80(LC 6)
Max Uplift 3=45(LC 6), 2=66(LC 6)
Max Grav 3=72(LC 1), 2=183(LC 1), 4=55(LC 2)

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

NOTES-

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) 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.



March 29, 2018

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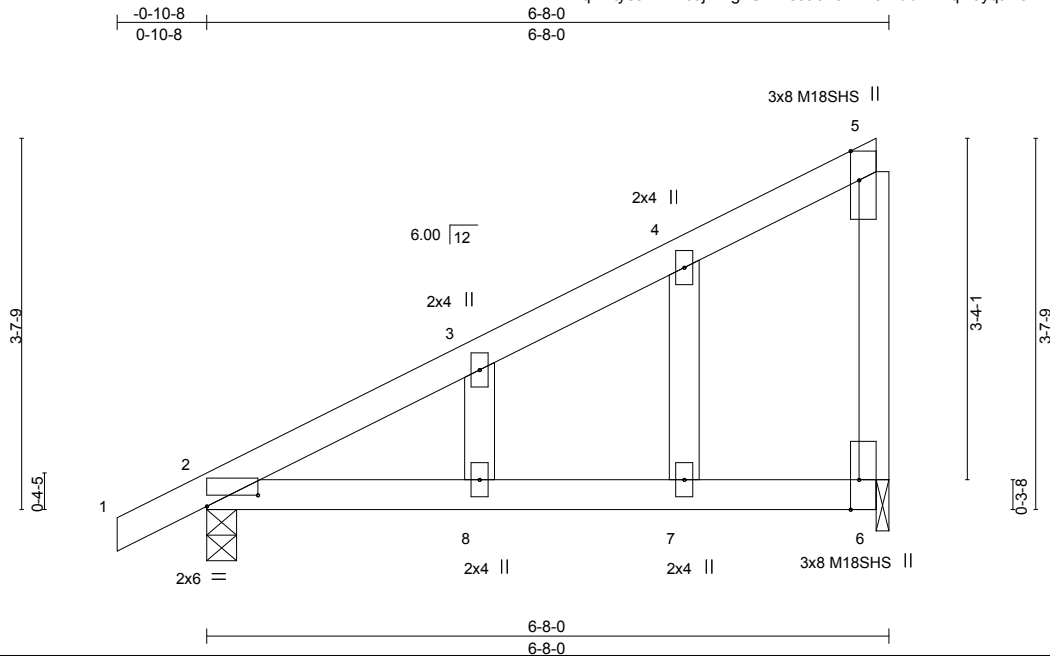
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job B0318-1246	Truss M1	Truss Type GABLE	Qty 1	Ply 1	Prelude C	E11596778
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:39 2018 Page 1
ID: qBVty8JxTR2c0jvIHgLUvLzeJa3-iohKN8NidbZwFqD0yqaPsmMnQyfXik4dlwn9Nu_zWLT6



Scale = 1:22.5

Plate Offsets (X,Y)-- [2:0-6-0,0-1-5], [5:0-3-7,Edge], [6:0-3-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.61	Vert(LL) -0.06	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(TL) -0.15	7-8	>517	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.06	Horz(TL) -0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.15	7-8	>496	240		
							Weight: 32 lb	FT = 20%

LUMBER-

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

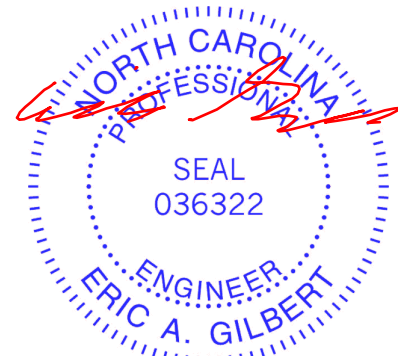
REACTIONS.

(lb/size) 2=321/0-3-8, 6=247/0-1-8
Max Horz 2=214(LC 6)
Max Uplift 2=-135(LC 6), 6=-147(LC 6)

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

NOTES-

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=135, 6=147.



March 29, 2018

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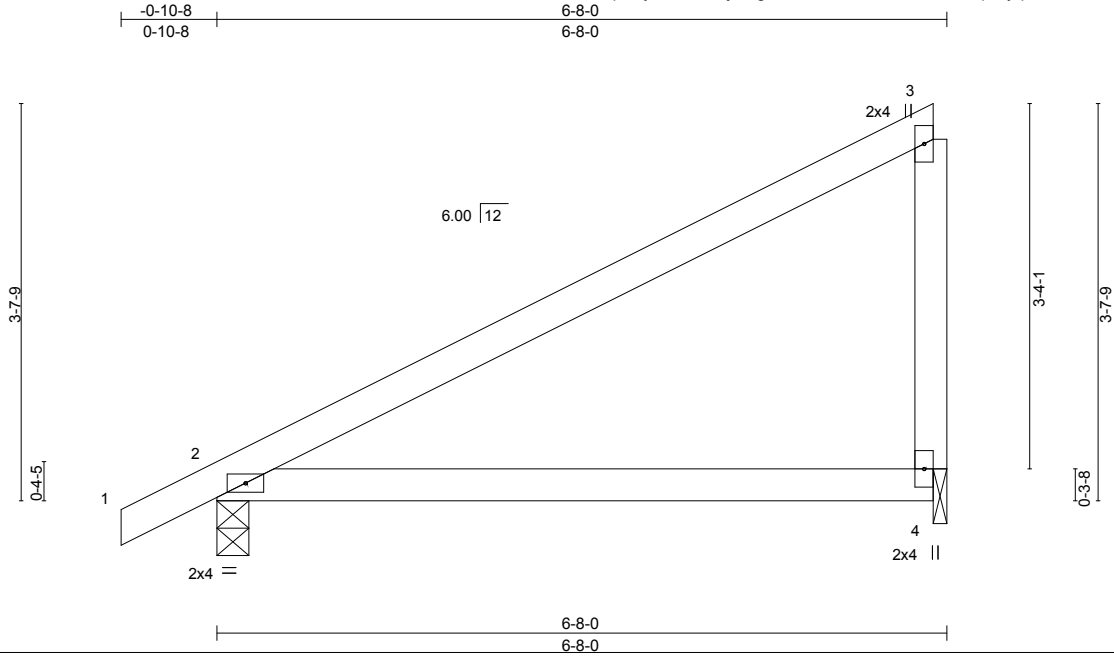
818 Soundside Road
Edenton, NC 27932

Job B0318-1246	Truss M2	Truss Type MONOPITCH	Qty 2	Ply 1	Prelude C	E11596779
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:39 2018 Page 1

ID:qBVty8JxTR2c0jvIHgLUvLzeJa3-iohkN8NidbZwFqD0yqaPsMnQhfVik4Ulw9Nu_zWLT6



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 0.63	Vert(LL) -0.09	2-4	>883	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.51	Vert(TL) -0.22	2-4	>353	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.00	Horz(TL) -0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL) 0.23	2-4	>335	240	Weight: 27 lb	FT = 20%

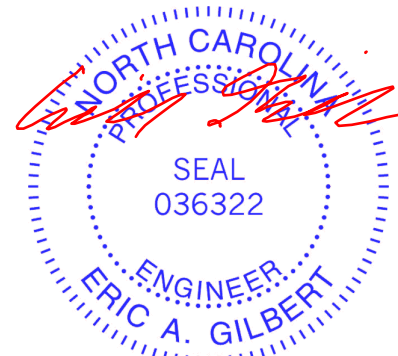
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.3

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.

REACTIONS. (lb/size) 2=321/0-3-8, 4=247/0-1-8
 Max Horz 2=152(LC 6)
 Max Uplift 2=173(LC 6), 4=178(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=184/274

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=173, 4=178.



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818 Soundside Road
 Edenton, NC 27932

Job B0318-1246	Truss MP-1	Truss Type GABLE	Qty 2	Ply 1	Prelude C	E11596780
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Wed Mar 28 16:48:40 2018 Page 1

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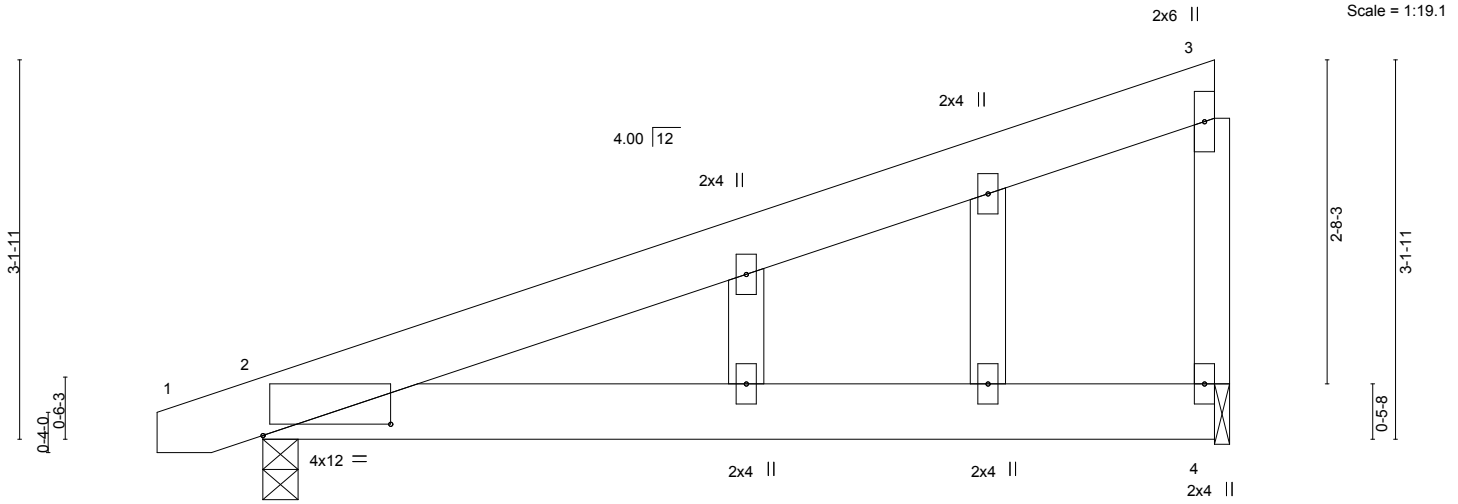
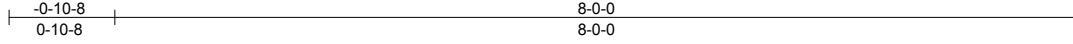


Plate Offsets (X,Y)-- [2:1-0-11,0-1-2]

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 0.52	Vert(LL)	-0.05	2-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.24	Vert(TL)	-0.12	2-4	>775		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	-0.00	4	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL)	0.00	2	****	Weight: 47 lb	FT = 20%

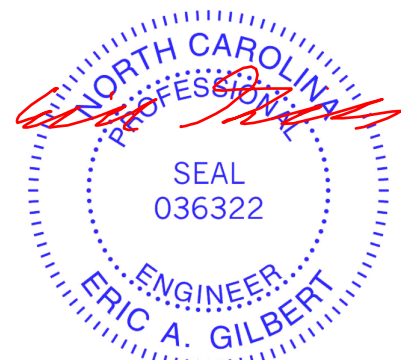
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3
 OTHERS 2x4 SP No.3

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

REACTIONS. (lb/size) 2=359/0-3-8, 4=303/0-1-8
 Max Horz 2=161(LC 4)
 Max Uplift 2=-161(LC 4), 4=-151(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-226/440

- NOTES-**
- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) gable end zone 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
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable studs spaced at 2-0-0 oc.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=161, 4=151.
 - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job B0318-1246	Truss MP-2	Truss Type MONOPITCH	Qty 4	Ply 1	Prelude C	E11596781
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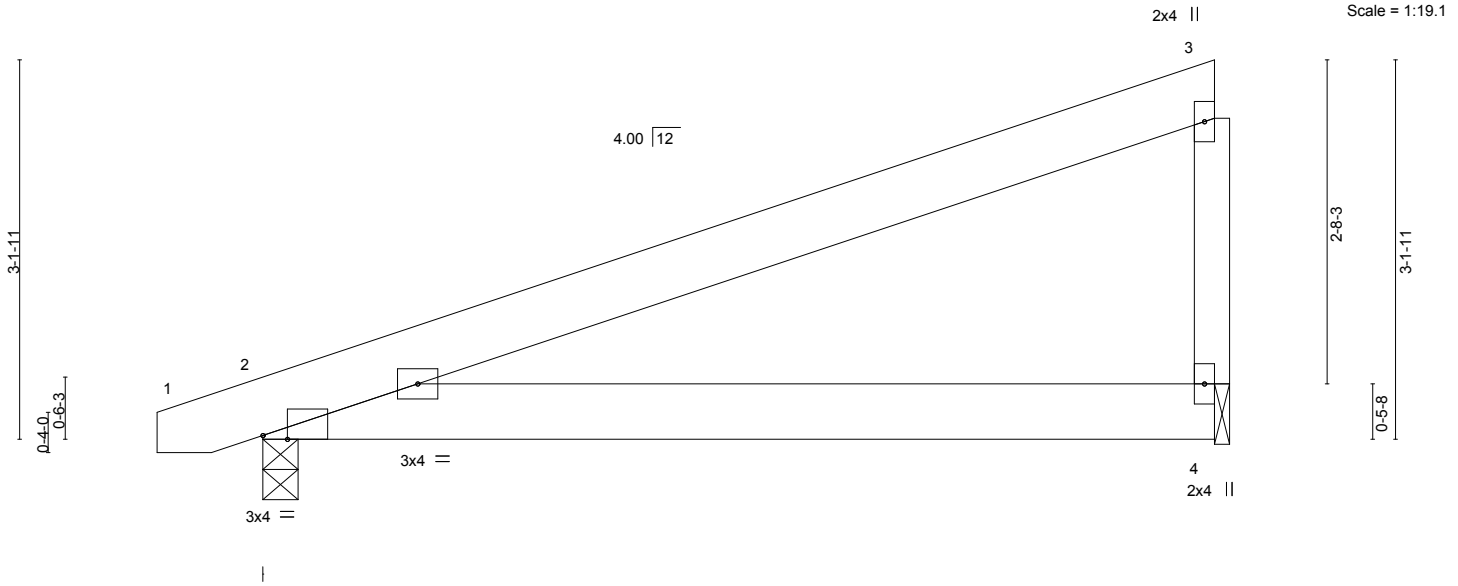


Plate Offsets (X,Y)-- [2:0-2-7,Edge]

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 0.37	Vert(LL)	-0.05	2-4	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(TL)	-0.12	2-4	>775		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(TL)	0.00	4	n/a		
BCDL 10.0	Code IRC2009/TPI2007		Matrix-P	Wind(LL)	0.12	2-4	>743		
								Weight: 43 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.

REACTIONS. (lb/size) 2=359/0-3-8, 4=303/0-1-8
 Max Horz 2=113(LC 4)
 Max Uplift 2=-206(LC 4), 4=-196(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-226/277

NOTES-

- 1) Wind: ASCE 7-05; 110mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (low-rise) and C-C Exterior(2) zone; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=206, 4=196.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



March 29, 2018

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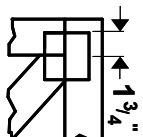
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



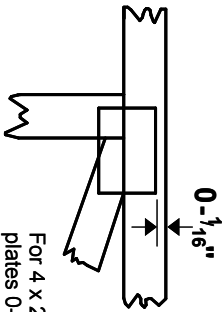
818 Soundside Road
 Edenton, NC 27932

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

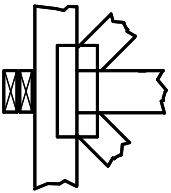
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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



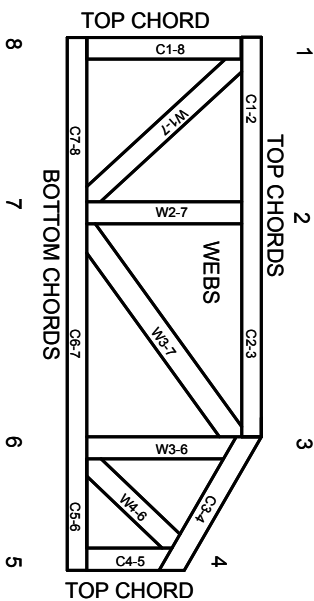
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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 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.