

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: B0519-2535
Kent 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: E13111155 thru E13111178

My license renewal date for the state of North Carolina is December 31, 2019.

North Carolina COA: C-0844



May 31, 2019

Gilbert, Eric

IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which were given to MiTek or TRENCO. Any project specific information included is for MiTek's or TRENCO's customers file reference purpose only, and was not taken into account in the preparation of these designs. MiTek or TRENCO has not independently verified the applicability of the design parameters or the designs for any particular building. Before use, the building designer should verify applicability of design parameters and properly incorporate these designs into the overall building design per ANSI/TPI 1, Chapter 2.

Job B0519-2535	Truss A01	Truss Type HIP GIRDER	Qty 1	Ply 1	Kent C	E13111155
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:38:55 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-MqY6fmYY_jJgdmYCvwnq?3bKK3j92letkGi8bpzBIF_



Scale = 1:42.4

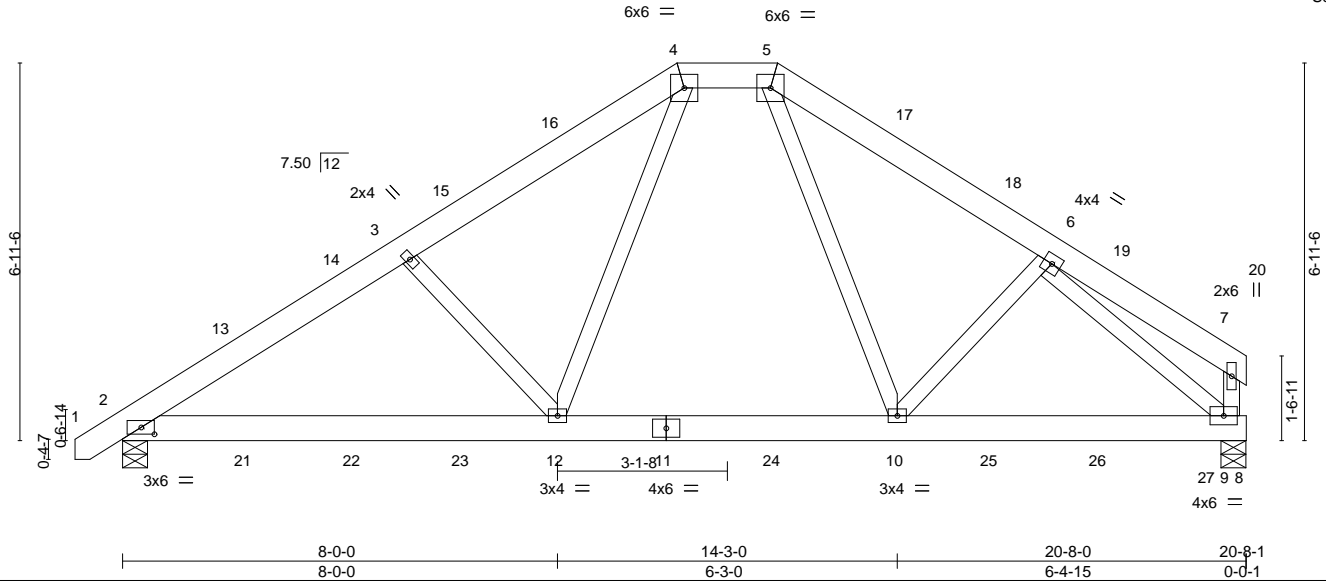


Plate Offsets (X,Y)-- [2:0-2-14,0-1-8]

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 0.47	Vert(LL)	-0.05	2-12	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.45	Vert(CT)	-0.12	2-12	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.68	Horz(CT)	0.03	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	12	>999		
								Weight: 147 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 5-1-6 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=1524/0-5-8, 9=1603/0-5-8
 Max Horz 2=160(LC 24)
 Max Uplift 2=-308(LC 8), 9=-314(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2181/540, 3-4=-1862/483, 4-5=-1206/420, 5-6=-1653/456, 6-7=-288/38, 7-9=-287/60
 BOT CHORD 2-12=-489/1777, 10-12=-330/1243, 9-10=-330/1297
 WEBS 3-12=-495/251, 4-12=-35/783, 5-10=0/391, 6-9=-1607/463

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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.
- 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 308 lb uplift at joint 2 and 314 lb uplift at joint 9.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 130 lb down and 92 lb up at 2-3-2, 133 lb down and 89 lb up at 4-3-2, 130 lb down and 96 lb up at 6-3-2, 129 lb down and 127 lb up at 8-3-2, 165 lb down and 190 lb up at 10-3-3, 165 lb down and 190 lb up at 11-11-13, 129 lb down and 127 lb up at 13-11-14, 130 lb down and 96 lb up at 15-11-14, and 133 lb down and 89 lb up at 17-11-14, and 117 lb down and 68 lb up at 19-11-14 on top chord, and 75 lb down at 2-3-2, 69 lb down at 4-3-2, 70 lb down at 6-3-2, 70 lb down at 8-3-2, 74 lb down at 10-3-2, 74 lb down at 11-11-14, 70 lb down at 13-11-14, 70 lb down at 15-11-14, and 69 lb down at 17-11-14, and 92 lb down at 19-11-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 4-5=-60, 5-7=-60, 2-8=-20



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/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	Truss	Truss Type	Qty	Ply	Kent C	E13111155
B0519-2535	A01	HIP GIRDER	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:38:55 2019 Page 2
 ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-MqY6fmYY_jJgdmYCvwnq?3bKK3j92letkGi8bpzBIF_

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-106(F) 5=-106(F) 11=-37(F) 12=-54(F) 10=-54(F) 13=-90(F) 14=-93(F) 15=-90(F) 16=-89(F) 17=-89(F) 18=-90(F) 19=-93(F) 20=-89(F) 21=-52(F) 22=-50(F)
 23=-53(F) 24=-37(F) 25=-53(F) 26=-50(F) 27=-74(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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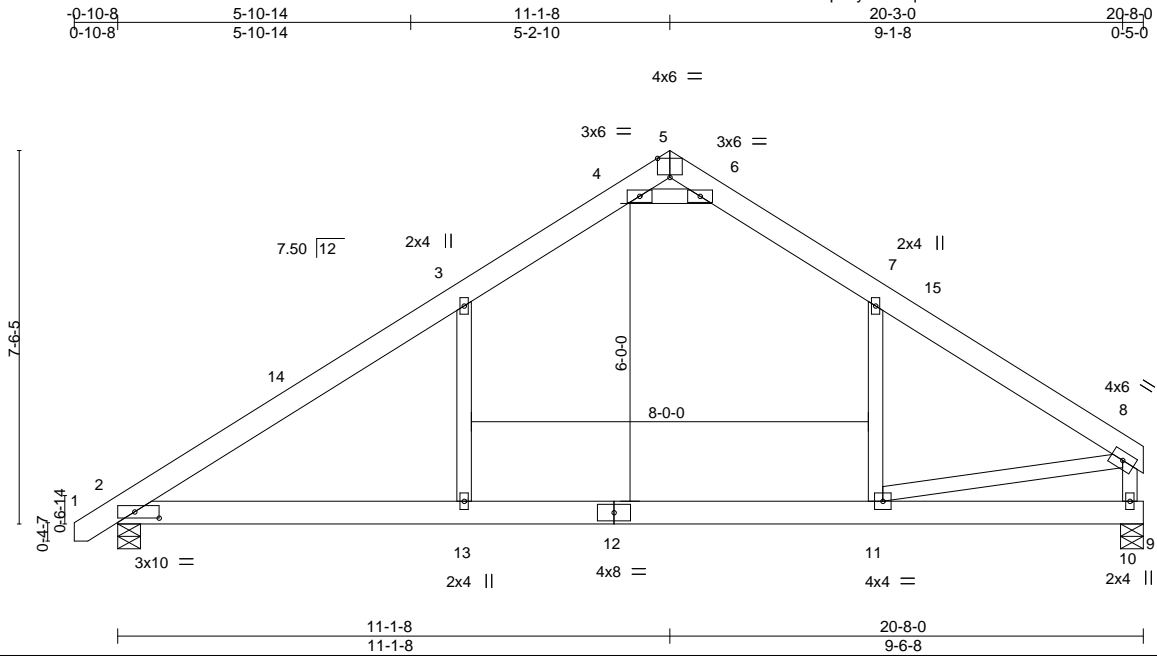


818 Soundside Road
 Edenton, NC 27932

Job B0519-2535	Truss A02	Truss Type COMMON	Qty 6	Ply 1	Kent C	E13111156
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:38:56 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-q06Us6ZBI1SXFw7PTeJ3XH8SIS3RnpI0zwRi6FzBIez



Scale = 1:46.4

Plate Offsets (X,Y)-- [2:0-5-14,0-1-8], [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 0.69	Vert(LL)	-0.21	11-13	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Vert(CT)	-0.34	11-13	>707		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.43	Horz(CT)	0.01	10	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.15	13	>999		
	Code IRC2015/TPI2014						Weight: 132 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 5-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 10=811/0-5-8, 2=866/0-5-8
Max Horz 2=173(LC 7)
Max Uplift 10=-55(LC 11), 2=-80(LC 10)
Max Grav 10=948(LC 18), 2=983(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1229/228, 3-4=-851/299, 4-5=-330/1195, 5-6=-328/1123, 6-7=-891/302, 7-8=-1181/236, 8-10=-963/229
BOT CHORD 2-13=-109/920, 11-13=-109/920
WEBS 3-13=0/409, 7-11=0/352, 8-11=-60/883, 4-6=-2249/742

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 6-8-11, Exterior(2) 6-8-11 to 11-1-8, Interior(1) 15-3-4 to 15-11-15 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 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 55 lb uplift at joint 10 and 80 lb uplift at joint 2.



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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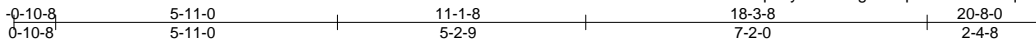


818 Soundside Road
Edenton, NC 27932

Job B0519-2535	Truss A03	Truss Type COMMON GIRDER	Qty 1	Ply 2	Kent C	E13111157
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Comtech, Inc., Fayetteville, NC 28309

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ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-ICgs3SapWLaOt4ib0Lq4UgJPsOdW9y9CaBFehzBIey



5x5 =

Scale: 1/4"=1'

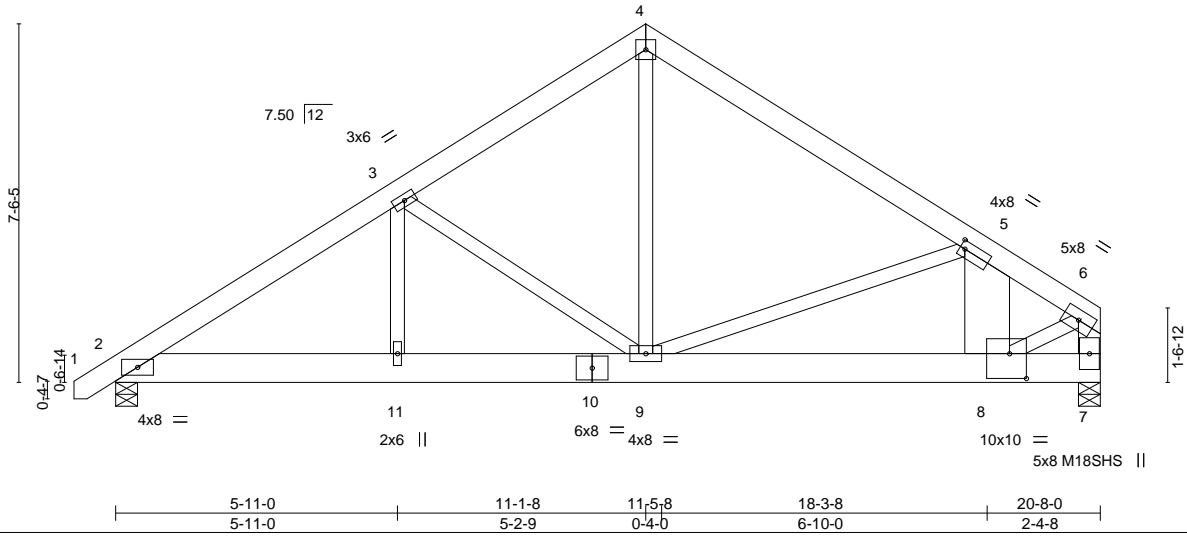


Plate Offsets (X,Y)-- [5:0-1-4,0-2-0], [8:0-4-4,0-6-4]

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 0.24	Vert(LL)	-0.04	8-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.08	8-9	>999	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.88	Horz(CT)	0.02	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	8-9	>999		
								Weight: 344 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP No.1
 WEBS 2x4 SP No.3 *Except*
 5-8: 2x12 SP No.1, 6-7: 2x6 SP No.1, 6-8: 2x4 SP No.2

BRACING-

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

REACTIONS.

(lb/size) 2=1558/0-5-8, 7=6614/0-5-8
 Max Horz 2=173(LC 24)
 Max Uplift 2=-220(LC 8), 7=-1233(LC 9)

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

TOP CHORD 2-3=-2412/349, 3-4=-2130/392, 4-5=-2131/385, 5-6=-6343/1186, 6-7=-5958/1091
 BOT CHORD 2-11=-325/1944, 9-11=-325/1944, 8-9=-991/5298, 7-8=-116/628
 WEBS 3-9=-436/226, 4-9=-299/1757, 5-9=-3826/873, 5-8=-864/3487, 6-8=-996/5282

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 - 3 rows staggered at 0-2-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x12 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
- All plates are MT20 plates 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 220 lb uplift at joint 2 and 1233 lb uplift at joint 7.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 6497 lb down and 1324 lb up at 18-3-8 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: 1-4=-60, 4-6=-60, 2-7=-20
 Concentrated Loads (lb)
 Vert: 8=-6497(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 B0519-2535	Truss A04	Truss Type COMMON	Qty 6	Ply 1	Kent C	E13111158
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Comtech, Inc., Fayetteville, NC 28309

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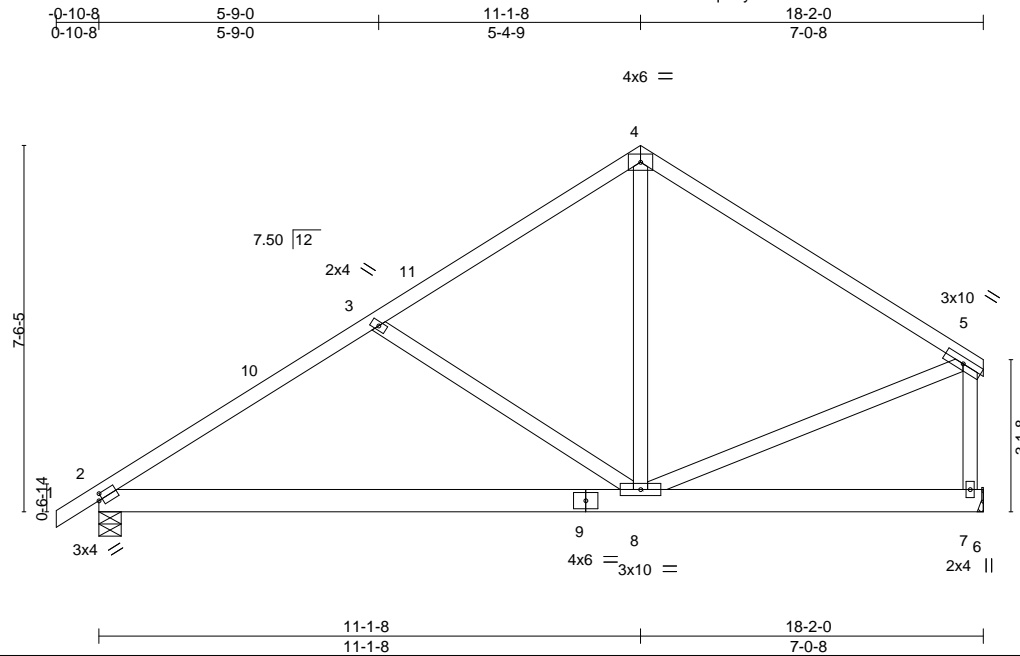


Plate Offsets (X,Y)--	[2:0-0-15,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.56	Vert(LL) -0.10 2-8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.36	Vert(CT) -0.20 2-8 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Horz(CT) 0.01 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.02 2-8 >999 240		
				Weight: 110 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 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) 2=775/0-5-8, 7=710/Mechanical
 Max Horz 2=174(LC 7)
 Max Uplift 2=-72(LC 10), 7=-47(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-931/272, 3-4=-633/220, 4-5=-647/200, 5-7=-662/211
 BOT CHORD 2-8=-244/739
 WEBS 3-8=-367/222, 4-8=-6/350, 5-8=-22/459

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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 6-8-11, Exterior(2) 6-8-11 to 11-1-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 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 72 lb uplift at joint 2 and 47 lb uplift at joint 7.

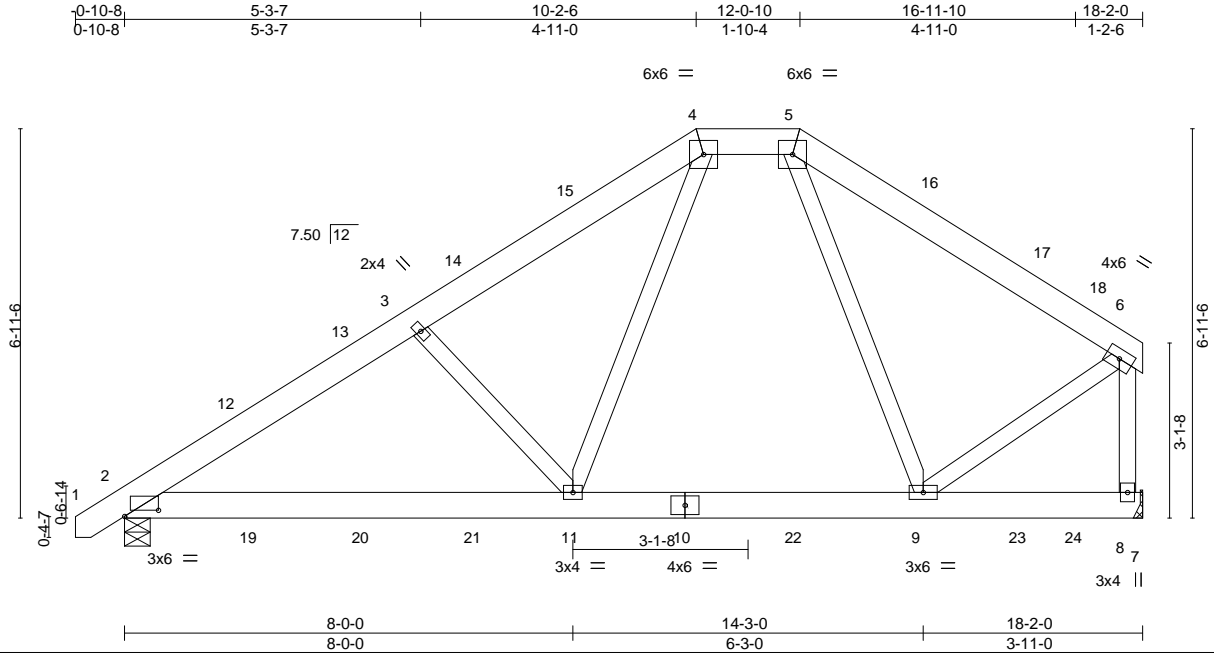


Job B0519-2535	Truss A05	Truss Type HIP GIRDER	Qty 1	Ply 1	Kent C	E13111159
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:38:59 2019 Page 1

ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-EbodU8b31yq66Nsz8msm9vm00g5J_90SflugMjazBIEw



Scale = 1:41.1

Plate Offsets (X,Y)--	[2:0-7-4,0-1-5]							
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	Vert(LL) -0.06	2-11	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.43	Vert(CT) -0.13	2-11	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.40	Horz(CT) 0.02	8	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL) 0.05	2-11	>999	240		
	Code IRC2015/TPI2014						Weight: 130 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-6-13 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) 2=1339/0-5-8, 8=1427/Mechanical
 Max Horz 2=159(LC 24)
 Max Uplift 2=-263(LC 8), 8=-355(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1850/453, 3-4=-1524/395, 4-5=-908/348, 5-6=-1089/306, 6-8=-1356/394
 BOT CHORD 2-11=-453/1506, 9-11=-276/934
 WEBS 3-11=-540/260, 4-11=-30/797, 5-9=-319/243, 6-9=-235/1049

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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.
 - 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 263 lb uplift at joint 2 and 355 lb uplift at joint 8.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 130 lb down and 92 lb up at 2-3-2, 133 lb down and 89 lb up at 4-3-2, 130 lb down and 96 lb up at 6-3-2, 129 lb down and 127 lb up at 8-3-2, 165 lb down and 190 lb up at 10-3-3, 165 lb down and 190 lb up at 11-11-13, 129 lb down and 127 lb up at 13-11-14, and 130 lb down and 96 lb up at 15-11-14, and 132 lb down and 90 lb up at 16-11-14 on top chord, and 75 lb down at 2-3-2, 69 lb down at 4-3-2, 70 lb down at 6-3-2, 70 lb down at 8-3-2, 74 lb down at 10-3-2, 74 lb down at 11-11-14, 70 lb down at 13-11-14, and 70 lb down at 15-11-14, and 69 lb down at 16-11-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 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, 2-7=-20



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/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.



Job	Truss	Truss Type	Qty	Ply	Kent C	E13111159
B0519-2535	A05	HIP GIRDER	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:38:59 2019 Page 2
 ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-EbodU8b31yq66Nsz8msm9vm00g5J_90SfugMjazBIEw

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 4=-106(B) 5=-106(B) 10=-37(B) 11=-54(B) 9=-54(B) 12=-90(B) 13=-93(B) 14=-90(B) 15=-89(B) 16=-89(B) 17=-90(B) 18=-94(B) 19=-52(B) 20=-50(B)
 21=-53(B) 22=-37(B) 23=-53(B) 24=-52(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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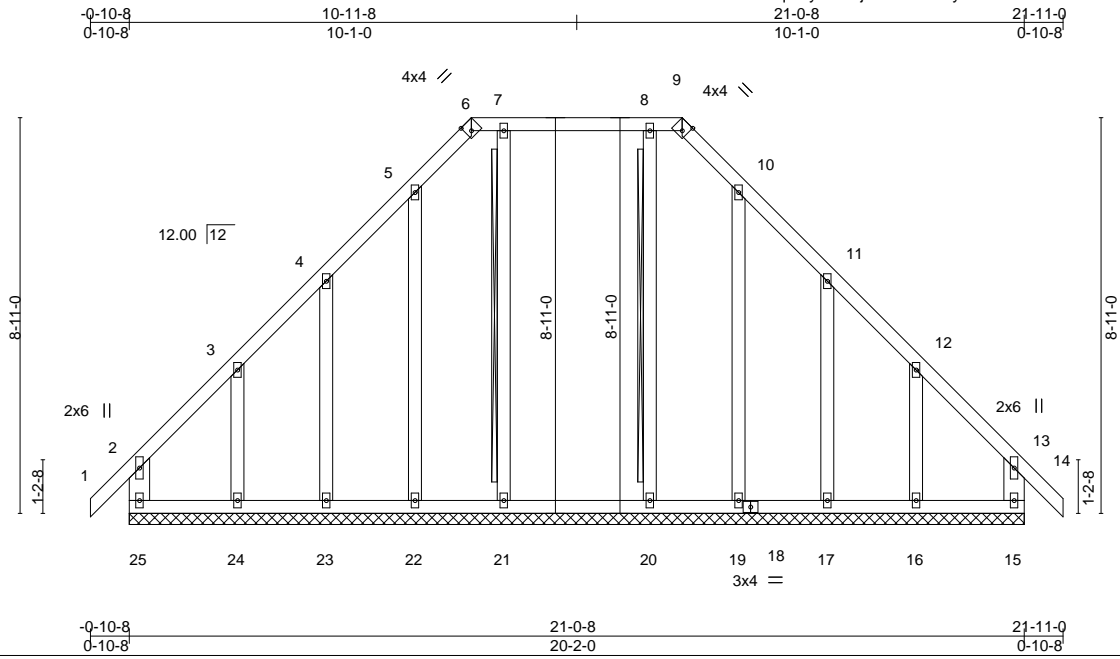


818 Soundside Road
 Edenton, NC 27932

Job B0519-2535	Truss B01	Truss Type GABLE	Qty 1	Ply 1	Kent C Job Reference (optional)	E13111160
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:00 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-jnM?iUchoGyzkXQAIUN?i7IFK4WRjgGcuYPvF0zBIEv



Scale = 1:51.9

Plate Offsets (X,Y)--	[6:0-1-8,Edge], [9:0-1-8,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 0.13	Vert(LL) -0.00 14 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.00 14 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 15 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R		Weight: 149 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 7-21, 8-20
OTHERS 2x4 SP No.3	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 20-2-0.
 (lb) - Max Horz 25=-259(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 21, 22, 20, 19 except 25=-137(LC 6), 15=-114(LC 7), 23=-131(LC 10), 24=-279(LC 10), 17=-135(LC 11), 16=-270(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 15, 22, 23, 19, 17 except 25=250(LC 18), 21=331(LC 20), 24=274(LC 17), 20=326(LC 19), 16=264(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 4-5=-223/270, 5-6=-252/299, 9-10=-252/299, 10-11=-223/270, 6-7=-222/275, 7-8=-222/275, 8-9=-222/275

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 22, 20, 19 except (jt=lb) 25=137, 15=114, 23=131, 24=279, 17=135, 16=270.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



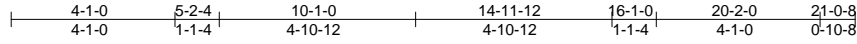
May 31, 2019

Job B0519-2535	Truss B02	Truss Type COMMON	Qty 1	Ply 1	Kent C	E13111161
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:01 2019 Page 1

ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-B_vNvpdJZZ4qLh?MFBuEEKrHzTIAS?Zi7C9TnSzBIeU



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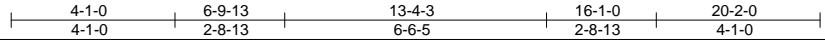
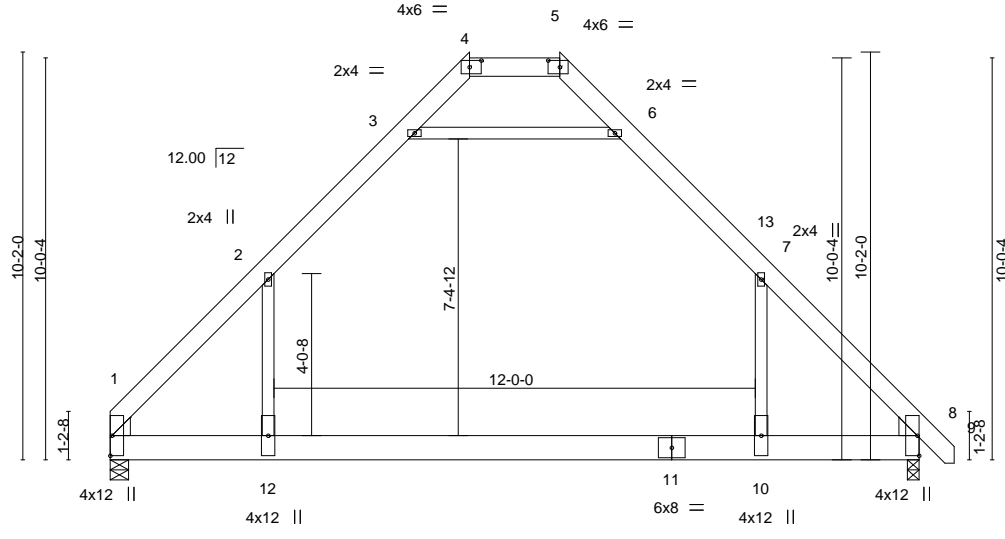


Plate Offsets (X,Y)--	[1:0-0-8,0-4-3], [1:0-0-4,0-0-4], [4:0-3-8,0-2-0], [5:0-3-8,0-2-0], [8:0-0-4,0-0-4], [8:0-0-8,0-4-3]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.44	10-12	>545	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.66	Vert(CT)	-0.58	10-12	>408		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.01	8	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.10	10-12	>999		
								Weight: 153 lb	FT = 20%

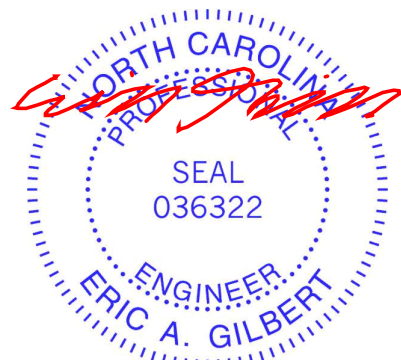
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x6 SP No.1, Right: 2x6 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-8-11 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-3-11 oc bracing.

REACTIONS. (lb/size) 1=790/0-5-8, 8=847/0-3-8
Max Horz 1=-230(LC 6)
Max Uplift 1=-40(LC 10), 8=-54(LC 11)
Max Grav 1=1066(LC 17), 8=1116(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1498/182, 2-3=-743/299, 3-4=-38/376, 5-6=-39/380, 6-7=-740/299, 7-8=-1510/199,
4-5=-50/549
BOT CHORD 1-12=-29/786, 10-12=-29/788, 8-10=-28/785
WEBS 2-12=-27/917, 7-10=-24/942, 3-6=-1192/450

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 15-7-5, Interior(1) 15-7-5 to 16-2-15, Exterior(2) 16-2-15 to 20-11-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 40.0psf 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) 1, 8.



May 31, 2019

Job B0519-2535	Truss B03	Truss Type COMMON	Qty 1	Ply 1	Kent C	E13111162
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8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:02 2019 Page 1
 ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-fATI79dyKtChzraYpvQTnYNSNt2GBUYvLsu0KvzBlEt

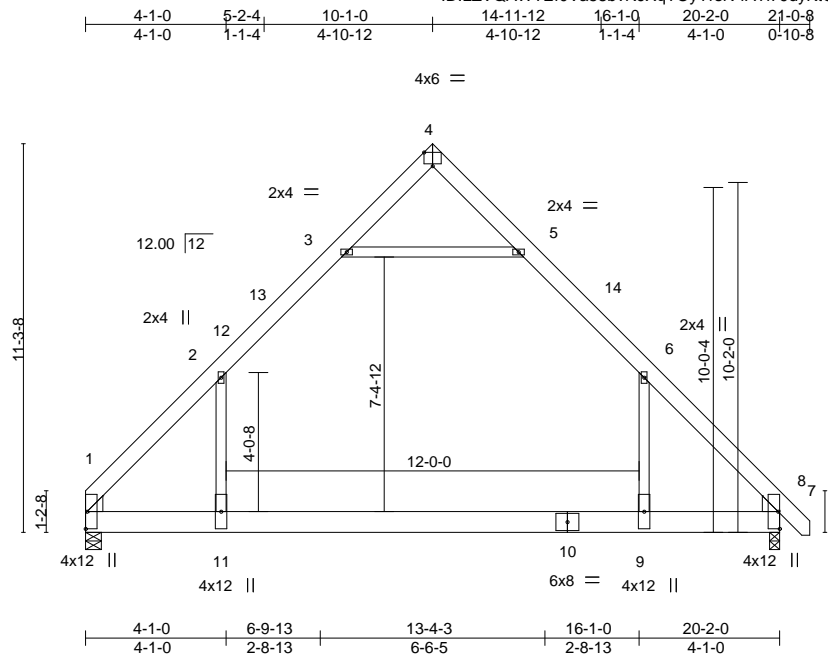


Plate Offsets (X,Y)--	[1:0-0-8,0-4-3], [1:0-0-4,0-0-4], [4:0-3-0,Edge], [7:0-0-4,0-0-4], [7:0-0-8,0-4-3]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.74	Vert(LL)	-0.45	9-11	>527	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.67	Vert(CT)	-0.60	9-11	>395		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10	9-11	>999		
								Weight: 155 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP No.1
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x6 SP No.1, Right: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-0-15 oc bracing.

REACTIONS. (lb/size) 1=790/0-5-8, 7=847/0-3-8
 Max Horz 1=-259(LC 6)
 Max Uplift 1=-50(LC 11), 7=-54(LC 11)
 Max Grav 1=1089(LC 18), 7=1124(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1531/167, 2-3=-775/284, 5-6=-771/284, 6-7=-1543/185
 BOT CHORD 1-11=-23/803, 9-11=-22/805, 7-9=-22/802
 WEBS 2-11=-32/913, 6-9=-29/940, 3-5=-995/413

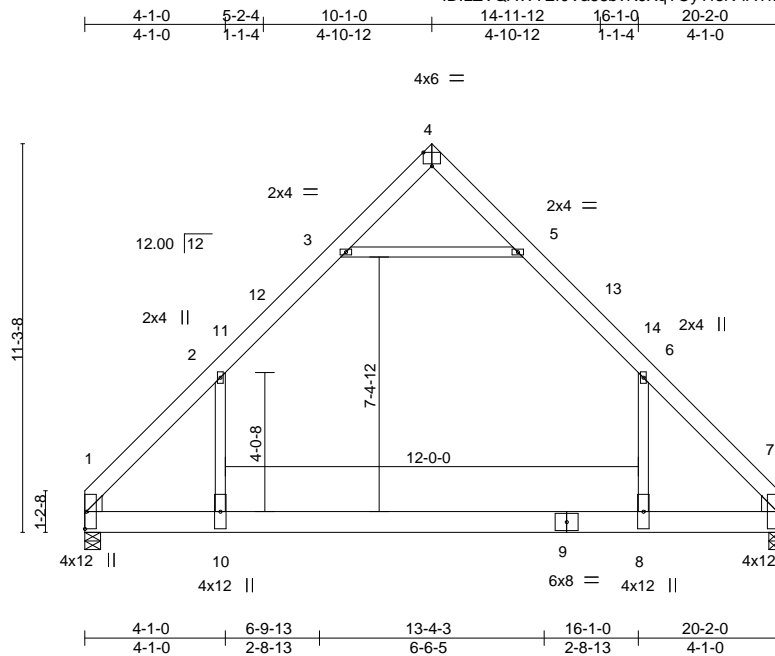
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 5-8-3, Exterior(2) 5-8-3 to 10-1-0, Interior(1) 14-5-13 to 16-2-15 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 40.0psf 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) 1, 7.



Job B0519-2535	Truss B04	Truss Type COMMON	Qty 8	Ply 1	Kent C	E13111163
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8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:02 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-fATI79dyKiChzraYpQTnYNSbt2BBUVvLsu0KvzBIET



Scale = 1:66.9

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.72	Vert(LL)	-0.46	8-10	>521	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.61	8-10	>390		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10	8-10	>999		
								Weight: 153 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 2x6 SP No.1, Right: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins.
BOT CHORD Rigid ceiling directly applied or 9-0-0 oc bracing.

REACTIONS.

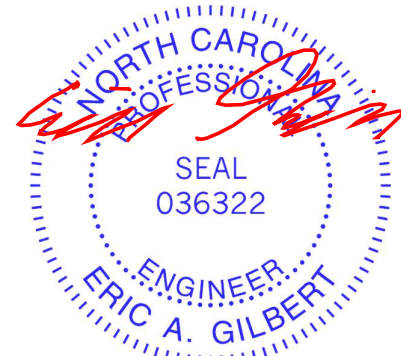
(lb/size) 1=792/0-5-8, 7=792/0-3-8
Max Horz 1=-256(LC 6)
Max Uplift 1=-51(LC 11), 7=-50(LC 10)
Max Grav 1=1090(LC 18), 7=1086(LC 17)

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

TOP CHORD 1-2=-1535/175, 2-3=-774/287, 5-6=-773/287, 6-7=-1514/174
BOT CHORD 1-10=-25/801, 8-10=-25/804, 7-8=-25/801
WEBS 2-10=-32/917, 6-8=-32/896, 3-5=-999/422

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 5-8-3, Exterior(2) 5-8-3 to 10-1-0, Interior(1) 14-5-13 to 15-7-7 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 40.0psf 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) 1, 7.



May 31, 2019

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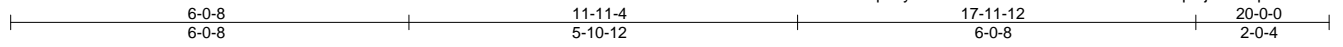


818 Soundside Road
Edenton, NC 27932

Job B0519-2535	Truss C01	Truss Type Roof Special Girder	Qty 1	Ply 2	Kent C	E13111164
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8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:04 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-bZbWYrfCsUSPC9kxJSxsZTqdhjnfHRBpAN7OnzBIer



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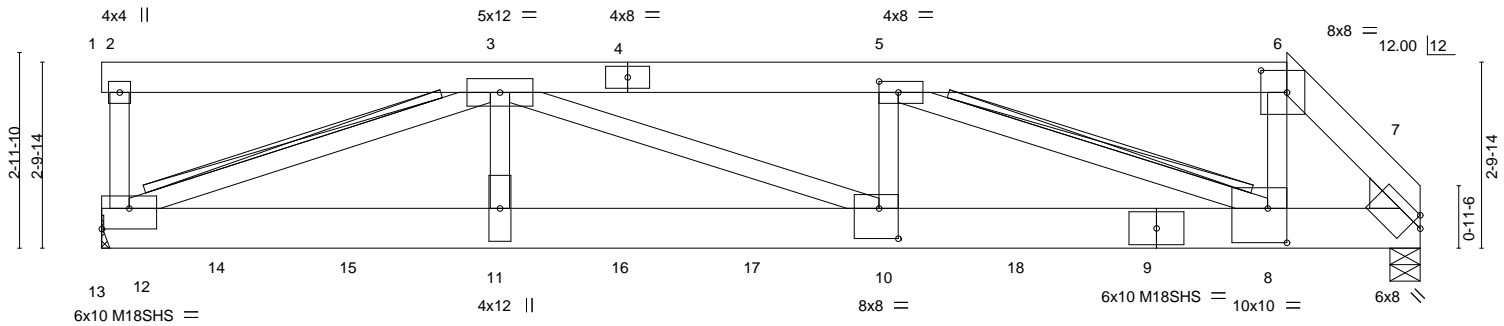


Plate Offsets (X,Y)-- [5:0-3-8,0-2-0], [6:0-4-12,0-4-0], [7:0-1-11,Edge], [8:0-3-8,0-6-4], [10:0-3-8,0-5-8], [12:Edge,0-3-12]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.73	Vert(LL) -0.17 10-11 >999 360	M18SHS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.96	Vert(CT) -0.34 10-11 >680 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.06 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.16 10 >999 240	Weight: 298 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x8 SP 2400F 2.0E
WEBS 2x4 SP No.2 *Except*
3-12: 2x4 SP No.1

WEDGE
Right: 2x6 SP No.2

BRACING-

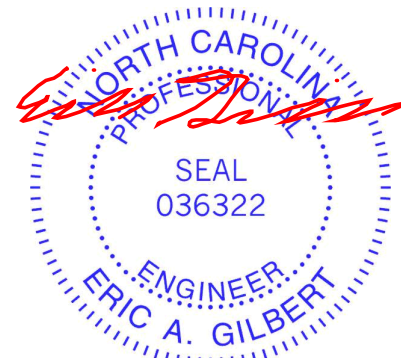
TOP CHORD Structural wood sheathing directly applied or 4-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 5-8
2x6 SPF No.2 - 3-12
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. (lb/size) 12=6517/Mechanical, 7=5706/0-5-8
Max Horz 12=-75(LC 9)
Max Uplift 12=-1304(LC 4), 7=-1304(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-264/75, 2-3=-346/72, 3-5=-1365/2887, 5-6=-5743/1387, 6-7=-8602/2042
BOT CHORD 11-12=-2477/12384, 10-11=-2477/12384, 8-10=-2864/13655, 7-8=-1255/5339
WEBS 3-12=-12952/2599, 3-11=-698/4009, 3-10=-428/1363, 5-10=-517/2784, 5-8=-8498/1624, 6-8=-1517/6414

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered 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=130mph (3-second gust) Vasd=103mph; 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.
- All plates are MT20 plates 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.
- 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) 12=1304, 7=1304.



May 31, 2019

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Kent C	E13111164
B0519-2535	C01	Roof Special Girder	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:04 2019 Page 2
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-bZbWYrfCsUSPC9kxJSxszTqdhjnfHRBpAN7OnzBIer

NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 561 lb down and 199 lb up at 1-9-12, 690 lb down and 67 lb up at 1-11-4, 561 lb down and 199 lb up at 3-9-12, 690 lb down and 67 lb up at 3-11-4, 1431 lb down and 503 lb up at 5-9-12, 690 lb down and 67 lb up at 5-11-4, 690 lb down and 67 lb up at 7-11-4, 690 lb down and 67 lb up at 9-11-4, 690 lb down and 67 lb up at 11-11-4, 1407 lb down and 375 lb up at 13-11-4, 1431 lb down and 503 lb up at 13-11-4, and 561 lb down and 199 lb up at 15-11-4, and 561 lb down and 199 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-20, 2-6=-60, 6-7=-60, 7-13=-20

Concentrated Loads (lb)

Vert: 9=-561(F) 11=-2121(F=-1431, B=-690) 10=-690(B) 8=-561(F) 14=-1251(F=-561, B=-690) 15=-1251(F=-561, B=-690) 16=-690(B) 17=-690(B) 18=-2838(F=-1431, B=-1407)

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.



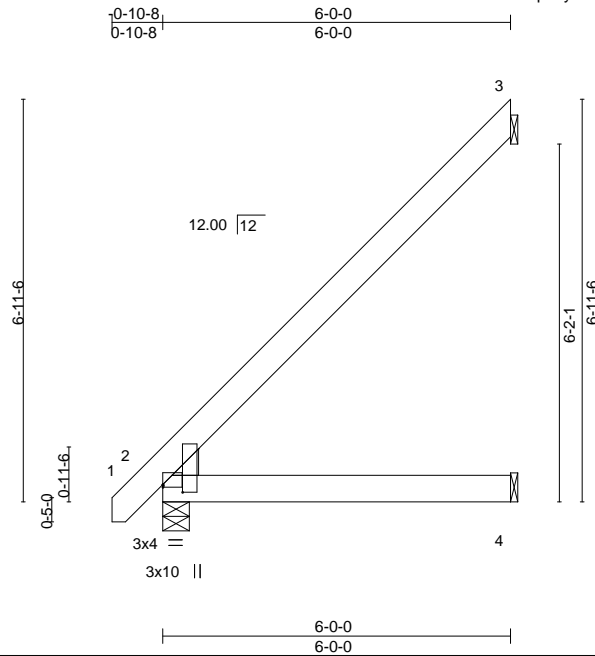
818 Soundside Road
Edenton, NC 27932

Job B0519-2535	Truss J01	Truss Type JACK-OPEN	Qty 4	Ply 1	Kent C Job Reference (optional)	E13111165
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:04 2019 Page 1

ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-bZbWYrfCsUSPC9kxxJSszTvnhtEfwSBpAN7OnzBIER



Scale = 1:39.8

Plate Offsets (X,Y)-- [2:0-0-0,0-0-9], [2:0-1-9,0-4-1]

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) -0.01	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.03	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: 38 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEDGE
 Left: 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=166/Mechanical, 2=293/0-5-8, 4=57/Mechanical
 Max Horz 2=216(LC 10)
 Max Uplift 3=172(LC 10)
 Max Grav 3=208(LC 17), 2=293(LC 1), 4=114(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-257/225

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
- 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) except (jt=lb) 3=172.



May 31, 2019

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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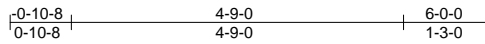


818 Soundside Road
 Edenton, NC 27932

Job B0519-2535	Truss J02	Truss Type JACK-OPEN	Qty 4	Ply 1	Kent C Job Reference (optional)	E13111166
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:05 2019 Page 1
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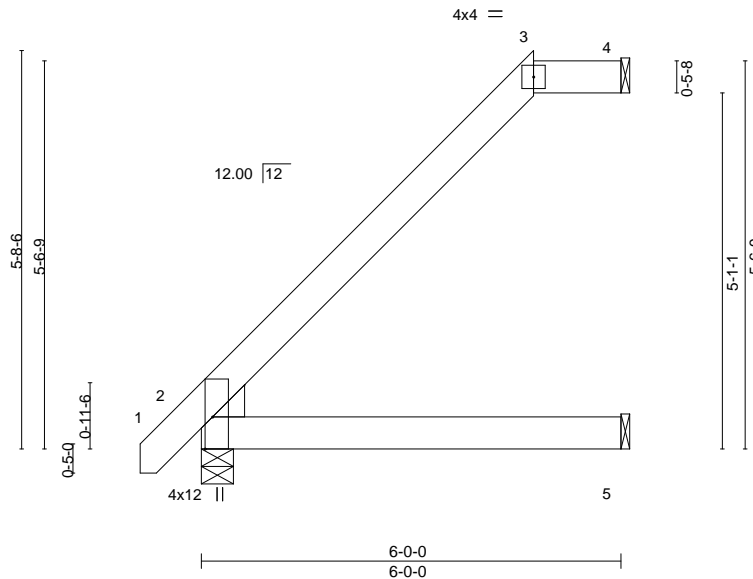


Plate Offsets (X,Y)--	[2:0-0-15,0-0-15], [2:0-1-15,0-5-9], [2:0-5-8,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.20	Vert(LL) -0.01 2-5 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.03 2-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.04 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.02 2-5 >999 240	Weight: 37 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEDGE
Left: 2x6 SP No.1

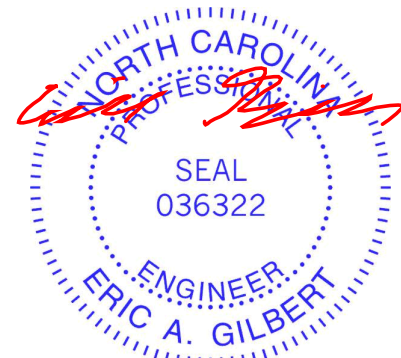
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=149/Mechanical, 2=293/0-5-8, 5=74/Mechanical
Max Horz 2=175(LC 10)
Max Uplift 4=92(LC 10)
Max Grav 4=149(LC 1), 2=293(LC 1), 5=110(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
- 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) 4.



May 31, 2019

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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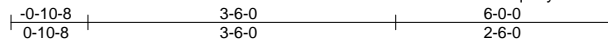


818 Soundside Road
Edenton, NC 27932

Job B0519-2535	Truss J03	Truss Type JACK-OPEN	Qty 4	Ply 1	Kent C Job Reference (optional)	E13111167
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:06 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-XxjGyXgSO6i6SSuK2KUPxOYHTUYe7QyUGUsETgzBlEP



Scale = 1:26.2

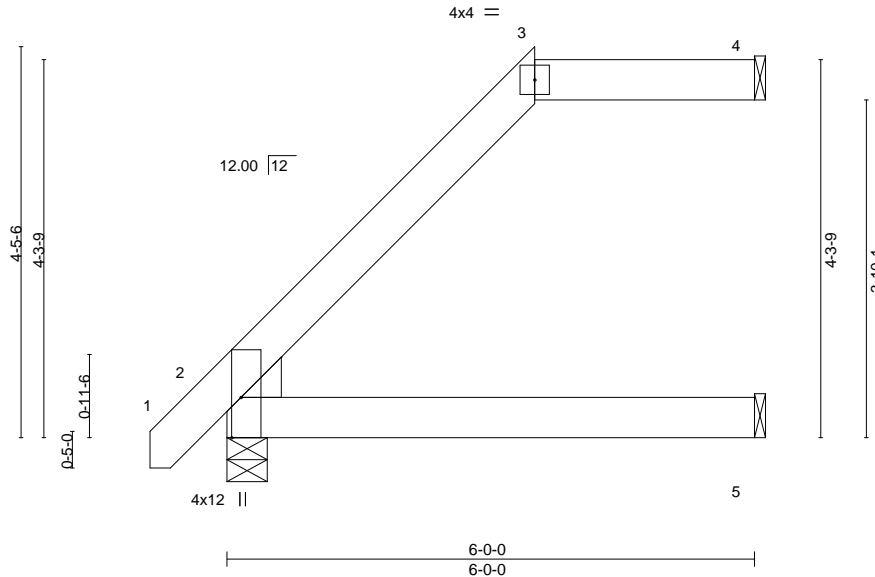


Plate Offsets (X,Y)-- [2:0-0-15,0-0-15], [2:0-1-15,0-5-9], [2:0-5-8,Edge]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.16	Vert(LL) -0.01	2-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.13	Vert(CT) -0.03	2-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.05	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.02	2-5	>999	240	Weight: 36 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEDGE
Left: 2x6 SP No.1

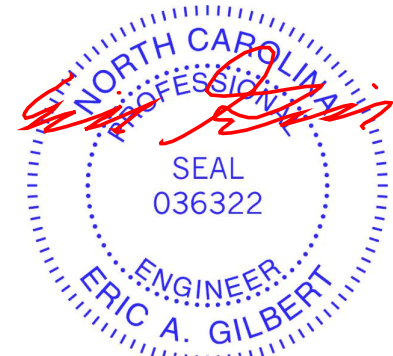
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=150/Mechanical, 2=293/0-5-8, 5=73/Mechanical
Max Horz 2=135(LC 10)
Max Uplift 4=62(LC 7)
Max Grav 4=150(LC 1), 2=293(LC 1), 5=110(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
- 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) 4.



May 31, 2019

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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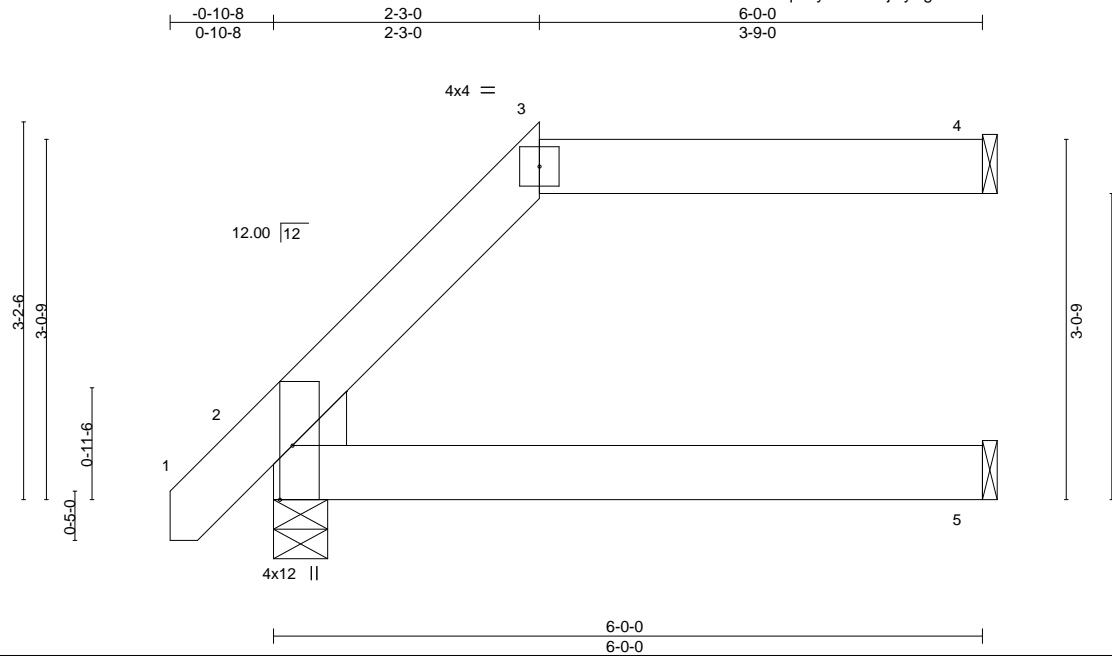


818 Soundside Road
Edenton, NC 27932

Job B0519-2535	Truss J04	Truss Type JACK-OPEN	Qty 3	Ply 1	Kent C	E13111168
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:06 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-XxjGyXgSO6i6SSuK2kUPxOYHcUzi7QyUGUsETgzBlEP



Scale = 1:19.5

Plate Offsets (X,Y)--	[2:0-0-15,0-0-15], [2:0-1-15,0-5-9], [2:0-5-8,Edge]							
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) -0.01	2-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.03	2-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.04	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.01	2-5	>999	240	Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEDGE
Left: 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) 4=153/Mechanical, 2=293/0-5-8, 5=70/Mechanical
Max Horz 2=94(LC 10)
Max Uplift 4=54(LC 7), 2=-12(LC 10)
Max Grav 4=153(LC 1), 2=293(LC 1), 5=109(LC 3)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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
- 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) Refer to girder(s) for truss to truss connections.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.



May 31, 2019

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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job B0519-2535	Truss J04A	Truss Type JACK-OPEN	Qty 1	Ply 1	Kent C	E13111169
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:07 2019 Page 1

ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-?8HeAth49Pqz3cTWcS?eUb5SSuu3stCeV7cn?6zBIEo



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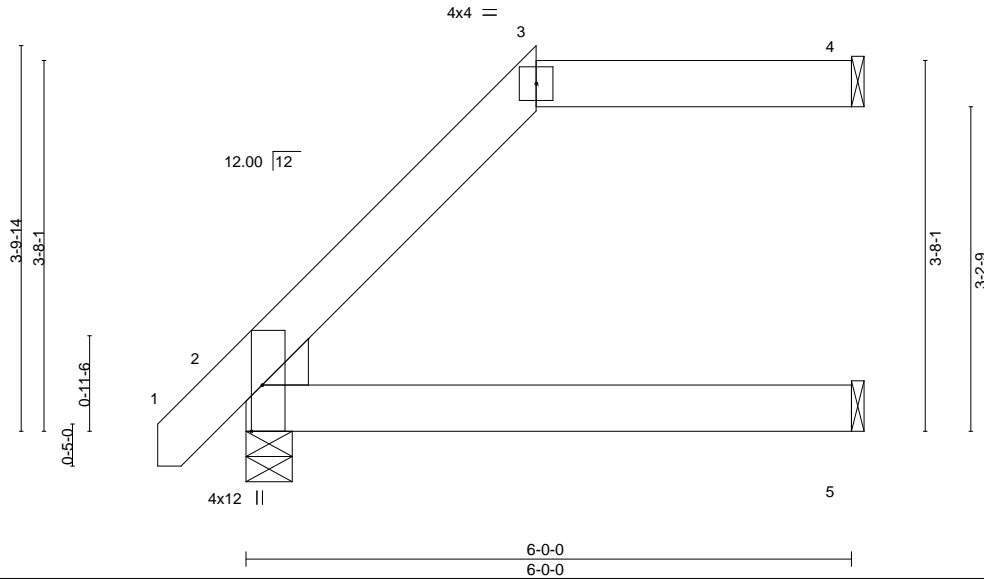


Plate Offsets (X,Y)-- [2:0-0-15,0-0-15], [2:0-1-15,0-5-9], [2:0-5-8,Edge]

LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.14	Vert(LL) -0.01	2-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.12	Vert(CT) -0.03	2-5	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.05	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.02	2-5	>999	240	Weight: 35 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEDGE
 Left: 2x6 SP No.1

BRACING-

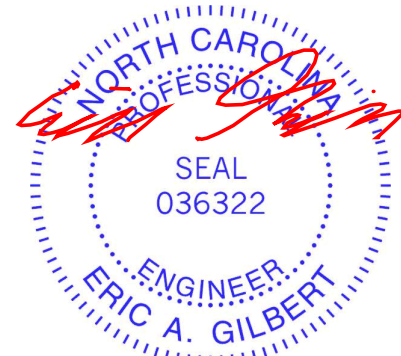
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=151/Mechanical, 2=293/0-5-8, 5=72/Mechanical
 Max Horz 2=114(LC 10)
 Max Uplift 4=-57(LC 7), 2=-6(LC 10)
 Max Grav 4=151(LC 1), 2=293(LC 1), 5=109(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 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) 4, 2.



May 31, 2019

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818 Soundside Road
 Edenton, NC 27932

Job B0519-2535	Truss J05	Truss Type JACK-OPEN GIRDER	Qty 2	Ply 1	Kent C Job Reference (optional)	E13111170
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:08 2019 Page 1
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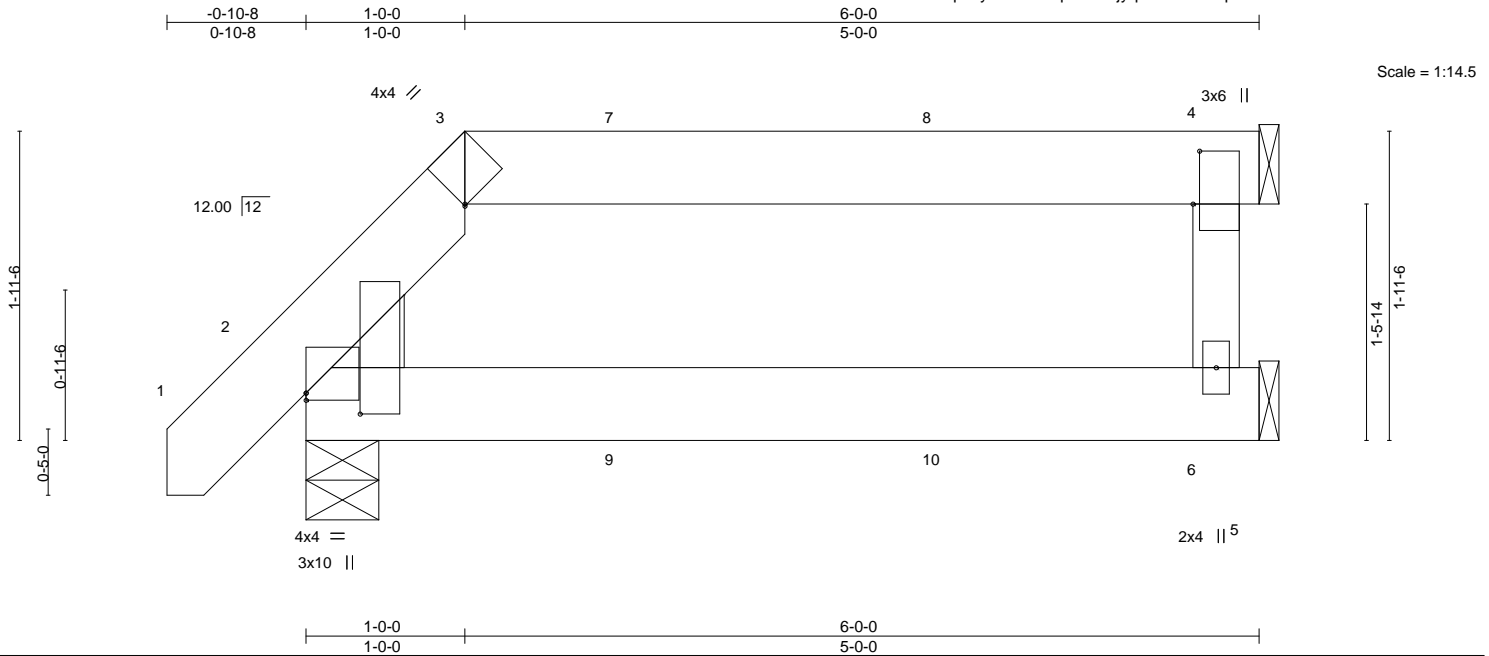


Plate Offsets (X,Y)-- [2:0-1-9,0-4-1], [2:Edge,0-0-9], [3:0-0-2,Edge], [4:0-4-0,0-0-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.17	Vert(LL) -0.01	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.11	Vert(CT) -0.02	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.02	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.01	2-6	>999	240	Weight: 35 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3
WEDGE
Left: 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) 2=285/0-5-8, 4=150/Mechanical, 6=71/Mechanical
Max Horz 2=58(LC 8)
Max Uplift 2=-34(LC 8), 4=-57(LC 5)
Max Grav 2=285(LC 1), 4=150(LC 20), 6=115(LC 3)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 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) 2, 4.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 61 lb down and 34 lb up at 2-0-12, and 61 lb down and 34 lb up at 4-0-12 on top chord, and 9 lb down at 2-0-12, and 9 lb down at 4-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

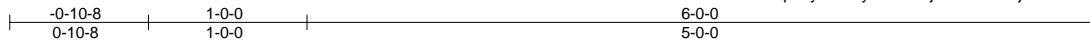
LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 2-5=-20



Job B0519-2535	Truss J06	Truss Type JACK-OPEN	Qty 1	Ply 1	Kent C	E13111171
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:09 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-yWOPbYjLh04hJwcujt26Z0AmwiZ_KnhxyR5u3?zBIEm



Scale = 1:14.5

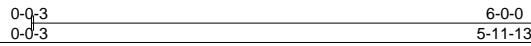
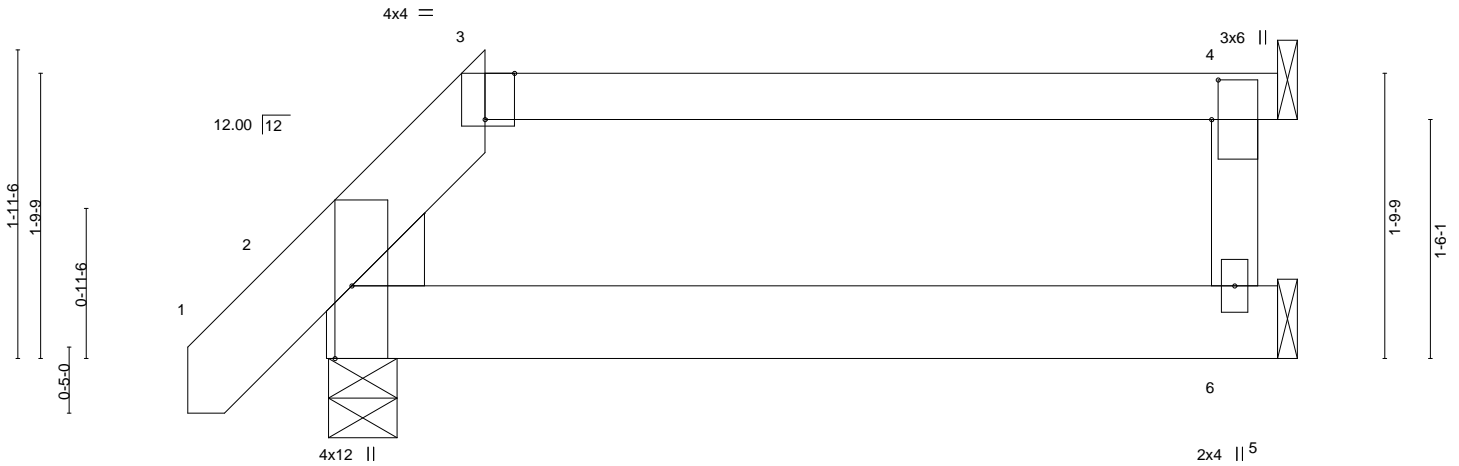


Plate Offsets (X,Y)-- [2:0-5-8,Edge], [2:0-1-15,0-5-9], [2:0-0-15,0-0-15], [3:0-2-4,Edge], [4:0-3-0,0-0-8]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.27	Vert(LL) -0.01	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.15	Vert(CT) -0.03	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.04	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.02	2-6	>999	240	Weight: 31 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1 *Except*
 3-4: 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3
 WEDGE
 Left: 2x6 SP No.1

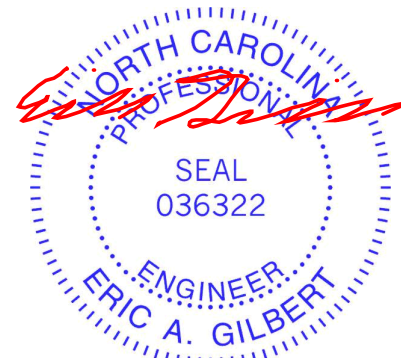
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 2=284/0-5-3, 4=131/Mechanical, 6=90/Mechanical
 Max Horz 2=56(LC 10)
 Max Uplift 2=23(LC 7), 4=-44(LC 7)
 Max Grav 2=284(LC 1), 4=131(LC 22), 6=126(LC 3)

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 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) 2, 4.
- Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



May 31, 2019

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.

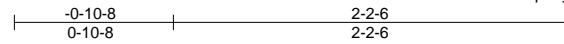


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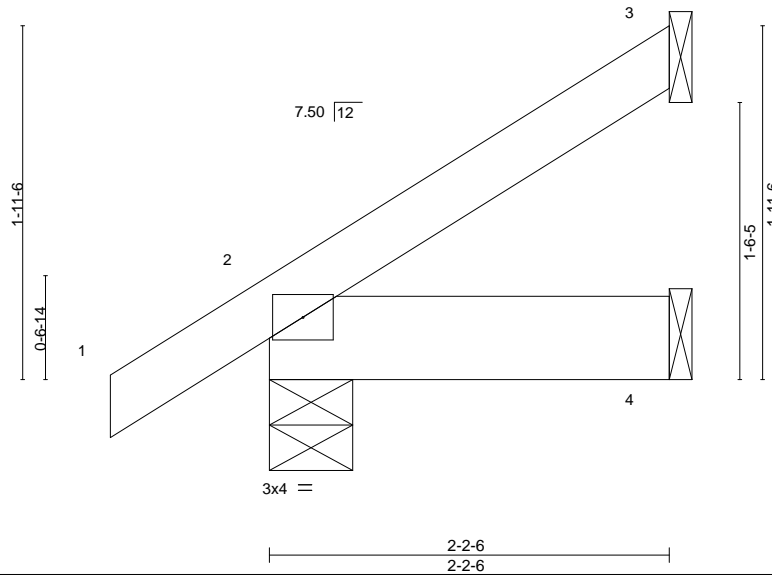
Job B0519-2535	Truss J07	Truss Type Jack-Open	Qty 4	Ply 1	Kent C	E13111172
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8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:10 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-QiynoukzSKCYw4B5HaZL6Ej?_6xR3Ex4B5qRcRzBIEI



Scale = 1:12.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	-0.00	2	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.01	Vert(CT)	-0.00	2	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	2	****	240	Weight: 11 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 2-2-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=38/Mechanical, 2=162/0-5-8, 4=19/Mechanical
Max Horz 2=59(LC 10)
Max Uplift 3=-34(LC 10), 2=-11(LC 10)
Max Grav 3=47(LC 17), 2=162(LC 1), 4=38(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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.



May 31, 2019

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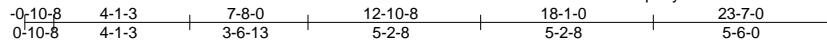
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Edenton, NC 27932

Job B0519-2535	Truss M02	Truss Type COMMON	Qty 4	Ply 1	Kent C	E13111174
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:11 2019 Page 1

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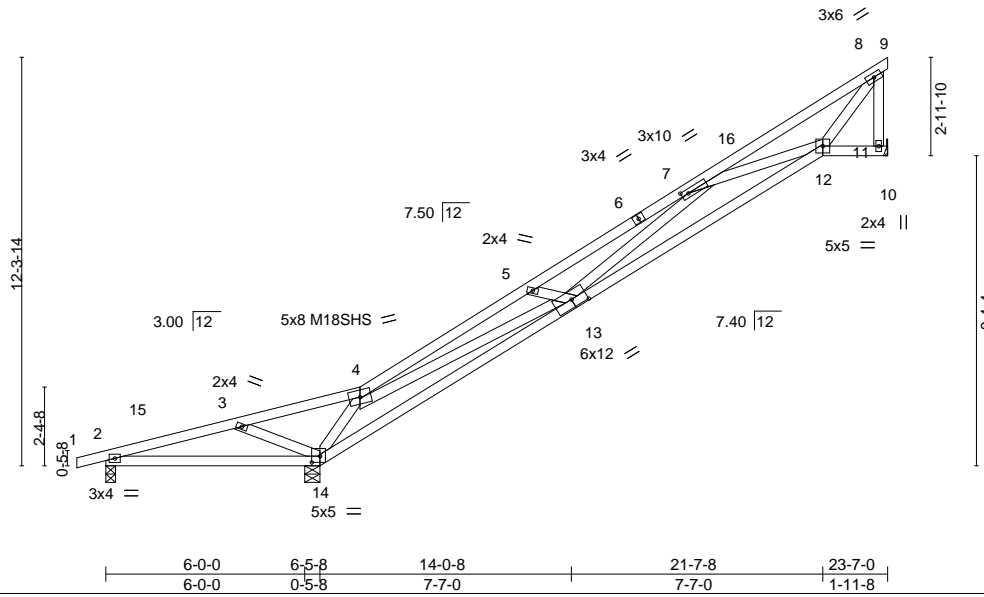


Plate Offsets (X,Y)-- [7:0-2-8,0-1-8], [13:0-5-8,0-3-0], [14:0-3-0,0-2-4]

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 0.48	Vert(LL)	-0.13	12-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.29	12-13	>707	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.06	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.13	12-13	>999		
								Weight: 122 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-11-10 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-13: 2x4 SP No.2	

REACTIONS. (lb/size) 11=581/Mechanical, 2=40/0-3-8, 14=1305/0-5-8
 Max Horz 2=392(LC 10)
 Max Uplift 11=-179(LC 10), 2=-214(LC 8), 14=-165(LC 10)
 Max Grav 11=627(LC 17), 2=84(LC 10), 14=1305(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-376/984, 3-4=-587/1252, 4-5=-2135/456, 5-7=-1780/347, 7-8=-760/154,
 8-11=-648/231
 BOT CHORD 2-14=-664/0, 13-14=-733/123, 12-13=-814/2076
 WEBS 3-14=-437/286, 4-14=-717/179, 4-13=-839/2738, 5-13=-370/211, 7-13=-117/255,
 7-12=-1138/498, 8-12=-262/1023

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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 19-2-3, Exterior(2) 19-2-3 to 23-7-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) This truss has been designed for a 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 179 lb uplift at joint 11, 214 lb uplift at joint 2 and 165 lb uplift at joint 14.

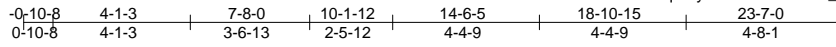


Job B0519-2535	Truss M03	Truss Type COMMON	Qty 2	Ply 1	Kent C	E13111175
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:12 2019 Page 1

ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-M54XDalD_xTGANLTP?bpBfo8UvR6XvKNfPJYgKzBlEj



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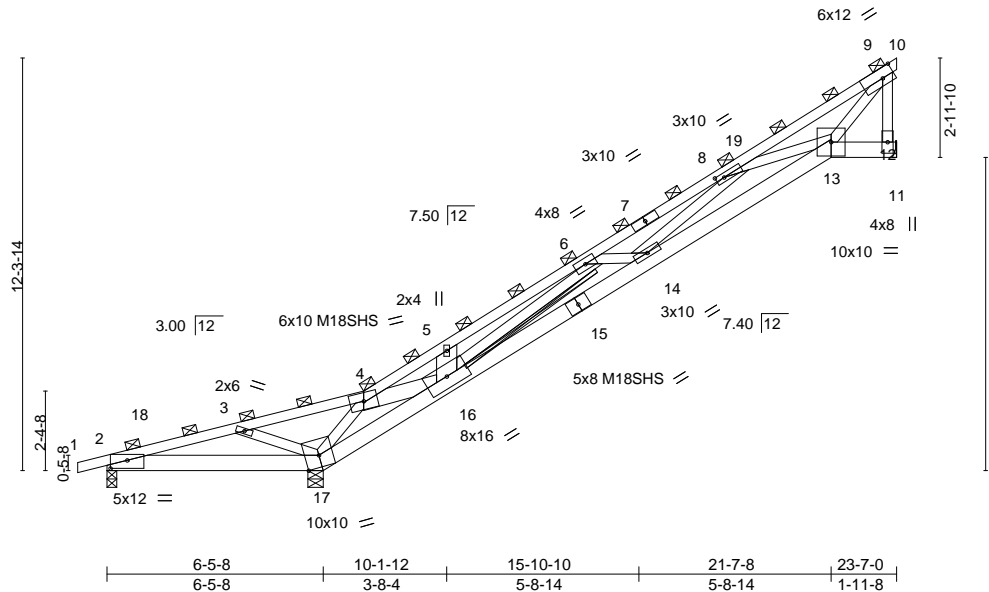


Plate Offsets (X,Y)--	[2:0-6-0,0-2-14], [8:0-3-0,0-1-8], [9:0-4-5,Edge]
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LOADING (psf)	SPACING-	5-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.89	Vert(LL)	-0.21	14	>952	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.83	Vert(CT)	-0.43	14-16	>472	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.97	Horz(CT)	0.12	12	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.25	14-16	>806		
								Weight: 148 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 1-4: 2x4 SP 2400F 2.0E	TOP CHORD 2-0-0 oc purlins (2-3-0 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0). Rigid ceiling directly applied or 3-4-5 oc bracing.
BOT CHORD 2x6 SP No.1 *Except* 2-17: 2x6 SP 2400F 2.0E	BOT CHORD T-Brace: 2x4 SPF No.2 - 6-16
WEBS 2x4 SP No.3 *Except* 4-16: 2x6 SP No.1, 5-16: 2x8 SP No.1	WEBS 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) 12=1481/Mechanical, 2=-575/0-3-8, 17=5108/0-5-8
Max Horz 2=978(LC 10)
Max Uplift 12=-453(LC 10), 2=-1024(LC 17), 17=-647(LC 7)
Max Grav 12=1594(LC 17), 2=283(LC 10), 17=5108(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2661/4843, 3-4=-3297/5748, 4-5=-2149/930, 5-6=-2314/1185, 6-8=-4943/1793,
8-9=-1968/608, 9-12=-1577/671
BOT CHORD 2-17=-4067/1439, 16-17=-4469/1940, 14-16=-2684/5368, 13-14=-2341/5081
WEBS 3-17=-1377/831, 4-17=-2333/1154, 4-16=-3275/5886, 5-16=-695/359, 6-16=-3040/832,
6-14=0/383, 8-14=-7/843, 8-13=-2640/1335, 9-13=-969/2691

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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 19-2-3, Exterior(2) 19-2-3 to 23-7-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) This truss has been designed for a 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 453 lb uplift at joint 12, 1024 lb uplift at joint 2 and 647 lb uplift at joint 17.
 - 7) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s). The design/selection of such connection device(s) is the responsibility of others.
 - 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15



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.

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

Job	Truss	Truss Type	Qty	Ply	Kent C	E13111175
B0519-2535	M03	COMMON	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:12 2019 Page 2
 ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-M54XDalD_xTGANLTP?bpBfo8UvR6XvKNfPJYgKzBIEj

LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-4=-150, 4-9=-150, 9-10=-50, 2-17=-50, 13-17=-50, 11-13=-50

Concentrated Loads (lb)

Vert: 16=-1200

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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 Edenton, NC 27932

Job B0519-2535	Truss M04	Truss Type ROOF SPECIAL	Qty 3	Ply 1	Kent C	E13111176
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8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:13 2019 Page 1
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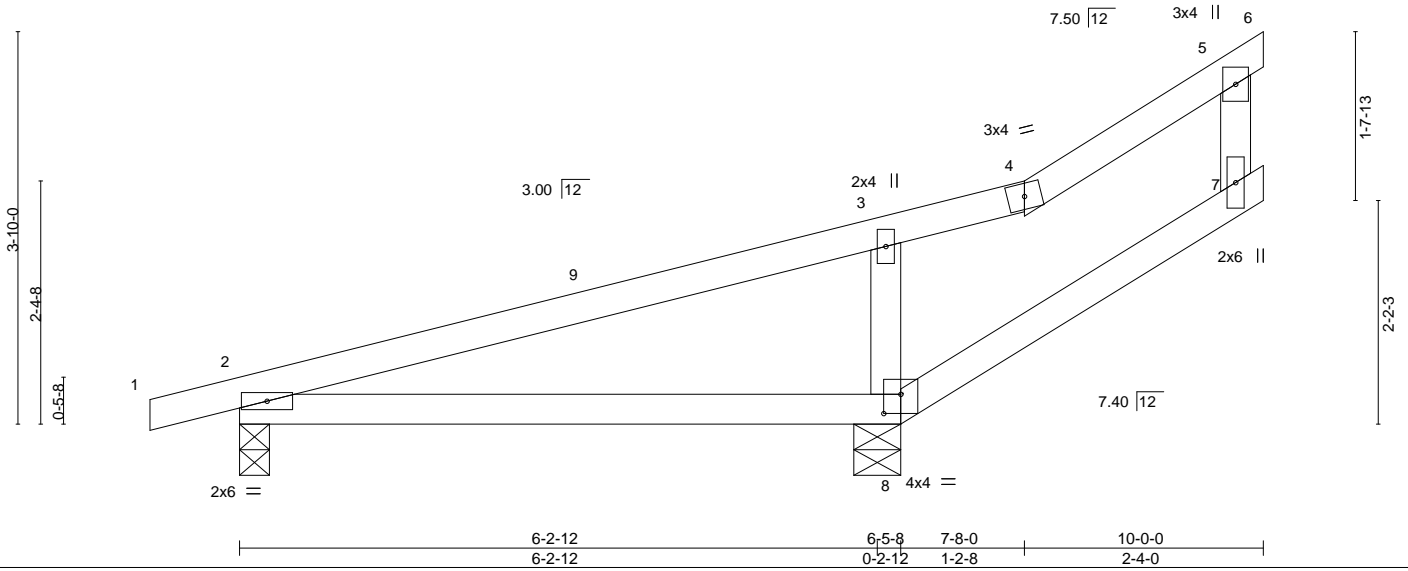


Plate Offsets (X,Y)-- [8:0-2-0,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) 0.13	2-8	>590	240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.10	2-8	>772	240		
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: 38 lb	FT = 20%

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

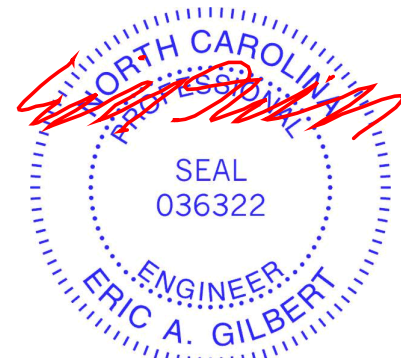
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 2=248/0-3-8, 8=585/0-5-8
Max Horz 2=115(LC 10)
Max Uplift 2=-152(LC 6), 8=-113(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-8=-378/220

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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 7-8-0, Exterior(2) 7-8-0 to 10-0-0 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 152 lb uplift at joint 2 and 113 lb uplift at joint 8.



May 31, 2019

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 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.

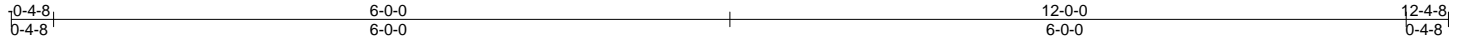


818 Soundside Road
Edenton, NC 27932

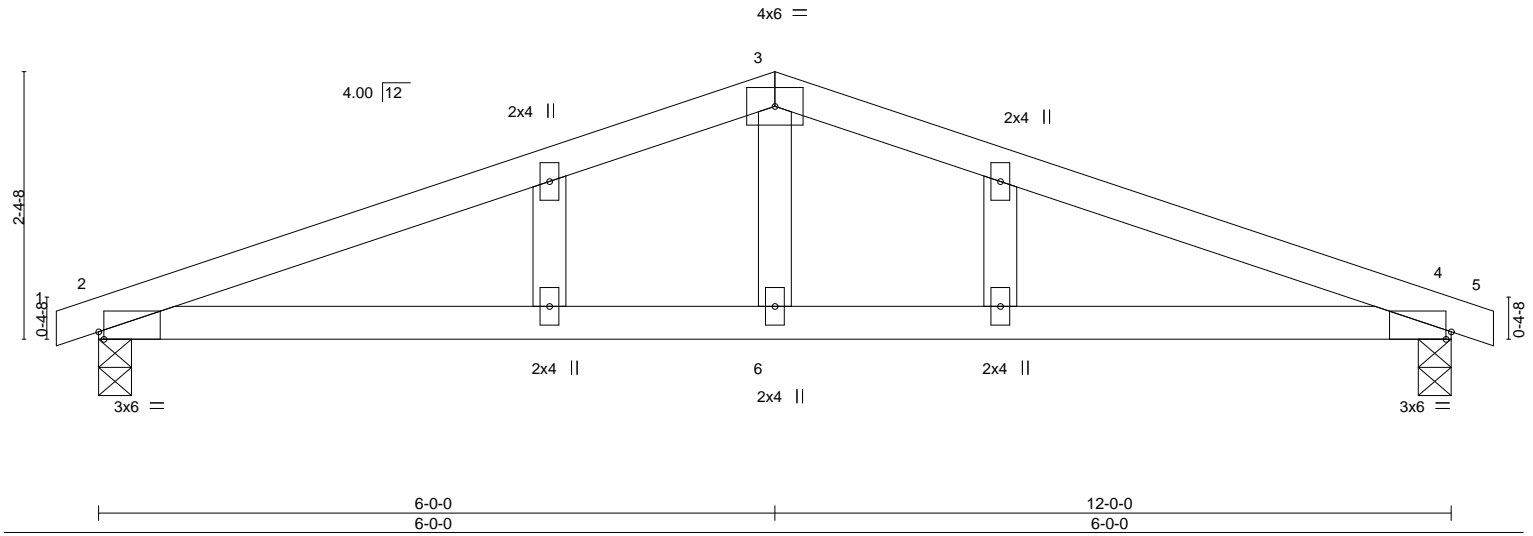
Job B0519-2535	Truss P8-01	Truss Type GABLE	Qty 1	Ply 1	Kent C Job Reference (optional)	E13111177
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:14 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-IUCleGnTVZj_PhVsWQdHG4tanjEp?1Gg6joflCzBIEh



Scale = 1:20.4



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) -0.03	4-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.07	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04	4-6	>999	240		
							Weight: 44 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 5-11-3 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 8-4-7 oc bracing.

REACTIONS. (lb/size) 2=500/0-3-8, 4=500/0-3-8
 Max Horz 2=-43(LC 15)
 Max Uplift 2=-148(LC 6), 4=-148(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-863/678, 3-4=-863/678
 BOT CHORD 2-6=-533/761, 4-6=-533/761
 WEBS 3-6=0/282

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) 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.
 - 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 148 lb uplift at joint 2 and 148 lb uplift at joint 4.



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

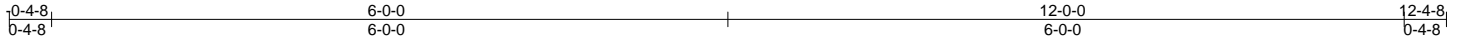
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



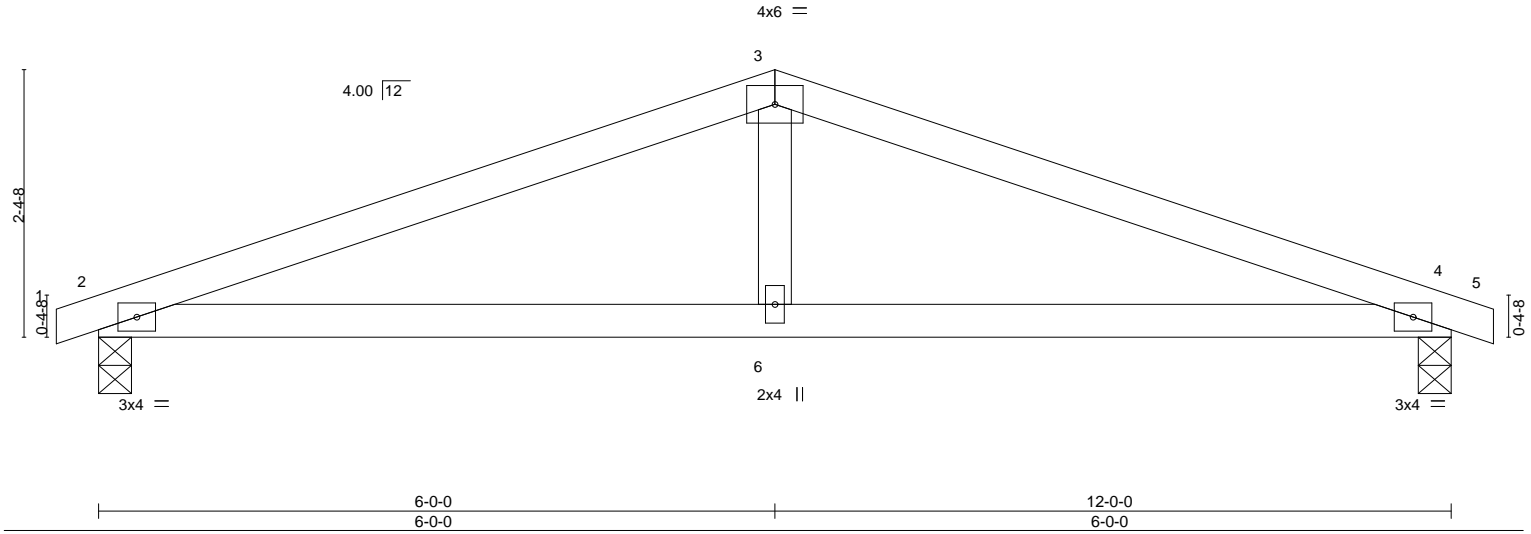
Job B0519-2535	Truss P8-02	Truss Type Common	Qty 3	Ply 1	Kent C	E13111178
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8.130 s Mar 11 2018 MiTek Industries, Inc. Thu May 30 13:39:14 2019 Page 1
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Scale = 1:20.4



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) -0.03	4-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.07	4-6	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.11	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03	4-6	>999	240	Weight: 41 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-11-3 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 2=500/0-3-8, 4=500/0-3-8
Max Horz 2=25(LC 14)
Max Uplift 2=-68(LC 6), 4=-68(LC 7)

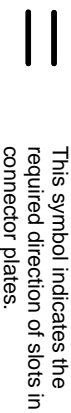
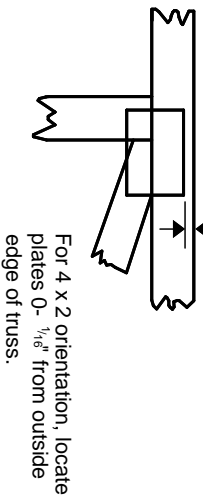
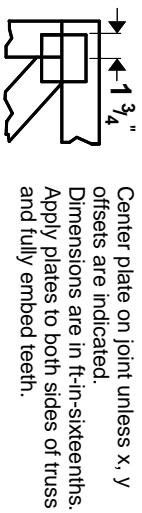
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-863/364, 3-4=-863/364
BOT CHORD 2-6=-269/761, 4-6=-269/761
WEBS 3-6=0/282

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; 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 68 lb uplift at joint 2 and 68 lb uplift at joint 4.



Symbols

PLATE LOCATION AND ORIENTATION



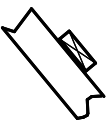
* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

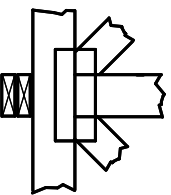
4 X 4

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

LATERAL BRACING LOCATION



BEARING

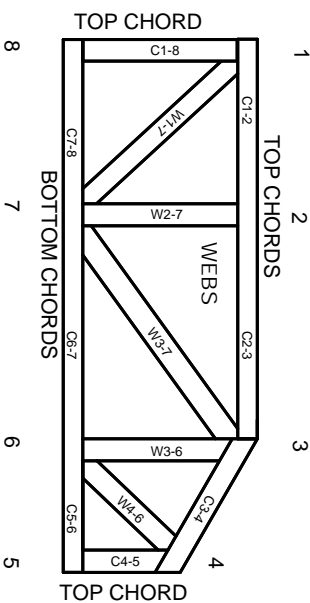


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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