

RE: 0519-2534
Kent A&B

Trenco
818 Soundside Rd
Edenton, NC 27932

General Truss Engineering Criteria & Design Loads (Individual Truss Design Drawings Show Special Loading Conditions):

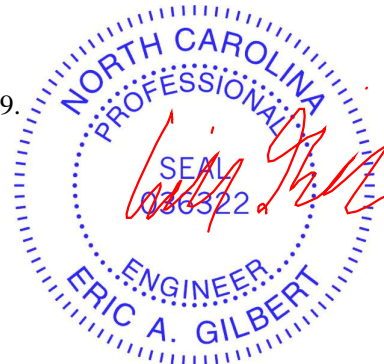
Design Code: IRC2015/TPI2014
Wind Code: ASCE 7-10
Roof Load: 40.0 psf

Design Program: MiTek 20/20 8.1
Wind Speed: 130 mph
Floor Load: N/A psf

This package includes 15 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E12697036	a01	2/13/2019
2	E12697037	a02	2/13/2019
3	E12697038	a03	2/13/2019
4	E12697039	a04	2/13/2019
5	E12697040	a05	2/13/2019
6	E12697041	b01	2/13/2019
7	E12697042	b02	2/13/2019
8	E12697043	b03	2/13/2019
9	E12697044	c01	2/13/2019
10	E12697045	m01	2/13/2019
11	E12697046	m02	2/13/2019
12	E12697047	m03	2/13/2019
13	E12697048	m04	2/13/2019
14	E12697049	p01	2/13/2019
15	E12697050	p02	2/13/2019

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville. Truss Design Engineer's Name: Gilbert, Eric My license renewal date for the state of North Carolina is December 31, 2019. North Carolina COA: C-0844



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 TRENCO. Any project specific information included is for TRENCO customers file reference purpose only, and was not taken into account in the preparation of these designs. 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.

February 13, 2019

Job 0519-2534	Truss A01	Truss Type GABLE	Qty 1	Ply 1	Kent A&B Job Reference (optional)	E12697036
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:44 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-lzNWSbsvFXnl6tk0lrUeLJI5rOuXiynaW1Ov3Yzljf

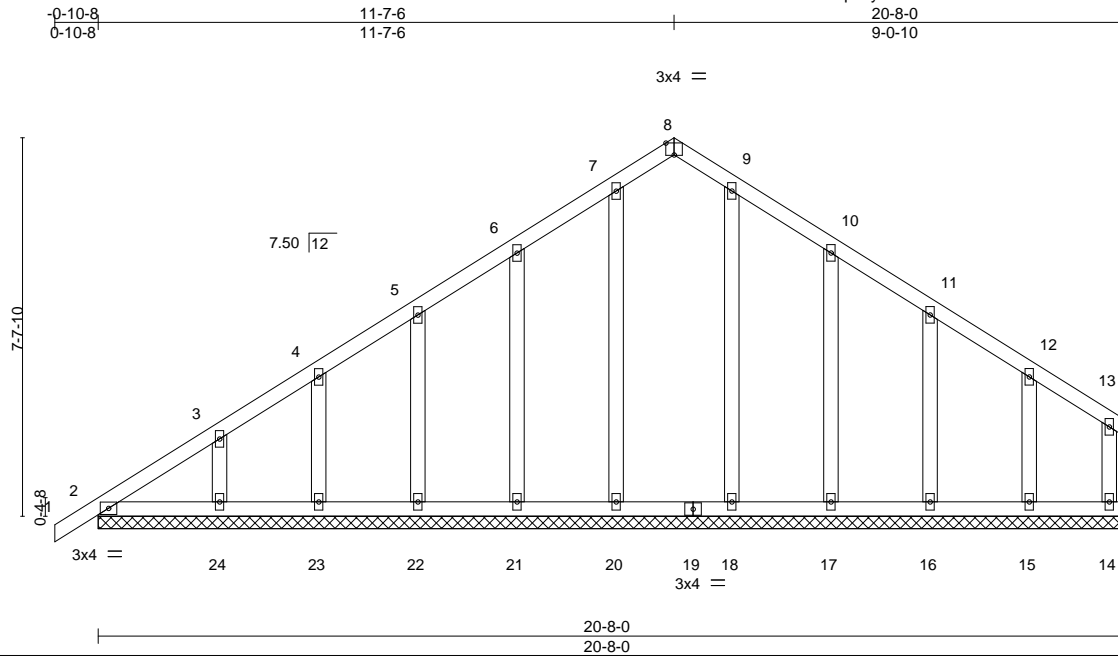


Plate Offsets (X,Y)--	[8:0-2-0,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) 0.00 1 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00 1 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00 14 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S		Weight: 127 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 2x4 SP No.3	
OTHERS 2x4 SP No.3	

REACTIONS. All bearings 20-8-0.
 (lb) - Max Horz 2=223(LC 7)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 20, 22, 23, 16 except 21=112(LC 10), 24=106(LC 10), 17=134(LC 11), 15=141(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 14, 2, 21, 22, 23, 24, 18, 17, 16, 15 except 20=286(LC 17)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=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) -0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 7-2-10, Corner(3) 7-2-10 to 11-7-6 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/TP1.
 - 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 20, 22, 23, 16 except (jt=lb) 21=112, 24=106, 17=134, 15=141.

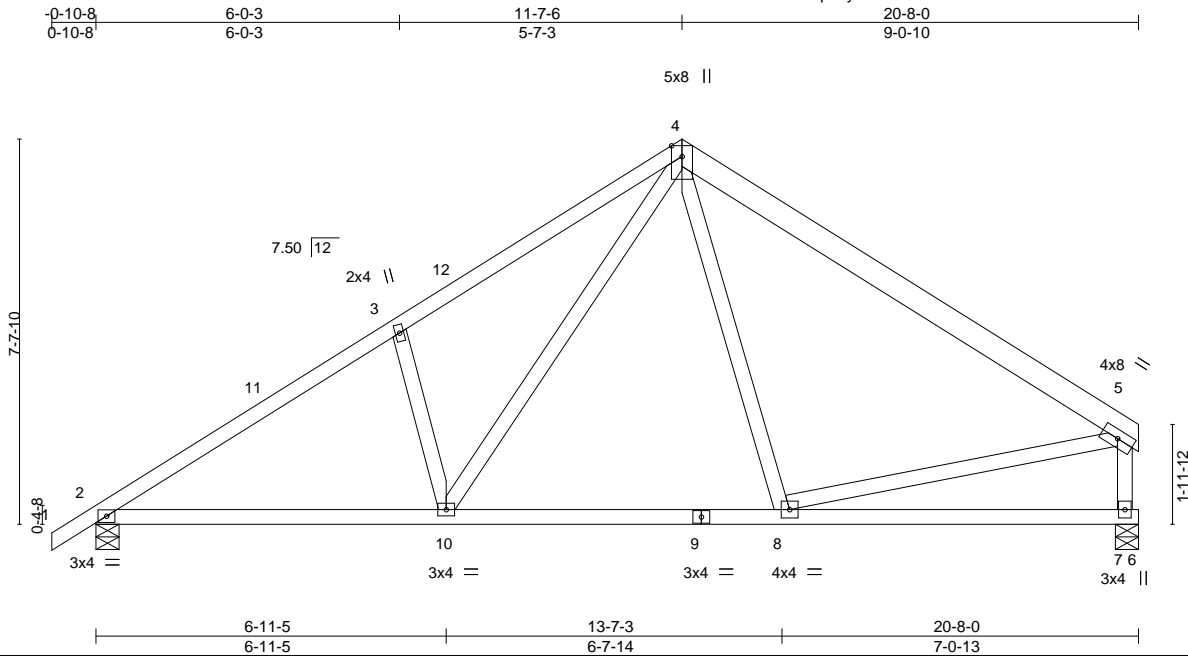


February 13, 2019

Job 0519-2534	Truss A02	Truss Type COMMON	Qty 9	Ply 1	Kent A&B	E12697037
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:46 2019 Page 1
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Scale = 1:45.7

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 0.70	Vert(LL)	-0.12	8-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.39	Vert(CT)	-0.15	8-10	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.26	Horz(CT)	0.02	7	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S	Wind(LL)	0.03	2-10	>999	240	Weight: 119 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
4-5: 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-3-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 2=875/0-5-8, 7=810/0-5-8
Max Horz 2=180(LC 7)
Max Uplift 2=-83(LC 10), 7=-52(LC 11)
Max Grav 2=923(LC 17), 7=840(LC 18)

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

TOP CHORD 2-3=-1284/304, 3-4=-1228/410, 4-5=-906/229, 5-7=-781/244
BOT CHORD 2-10=-219/1114, 8-10=-66/660
WEBS 3-10=-365/224, 4-10=-181/691, 5-8=0/614

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) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 7-2-10, Exterior(2) 7-2-10 to 11-7-6 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 7.



February 13, 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.

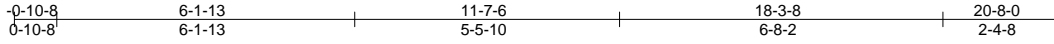


818 Soundside Road
Edenton, NC 27932

Job 0519-2534	Truss A03	Truss Type Common Girder	Qty 1	Ply 2	Kent A&B	E12697038
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:47 2019 Page 1
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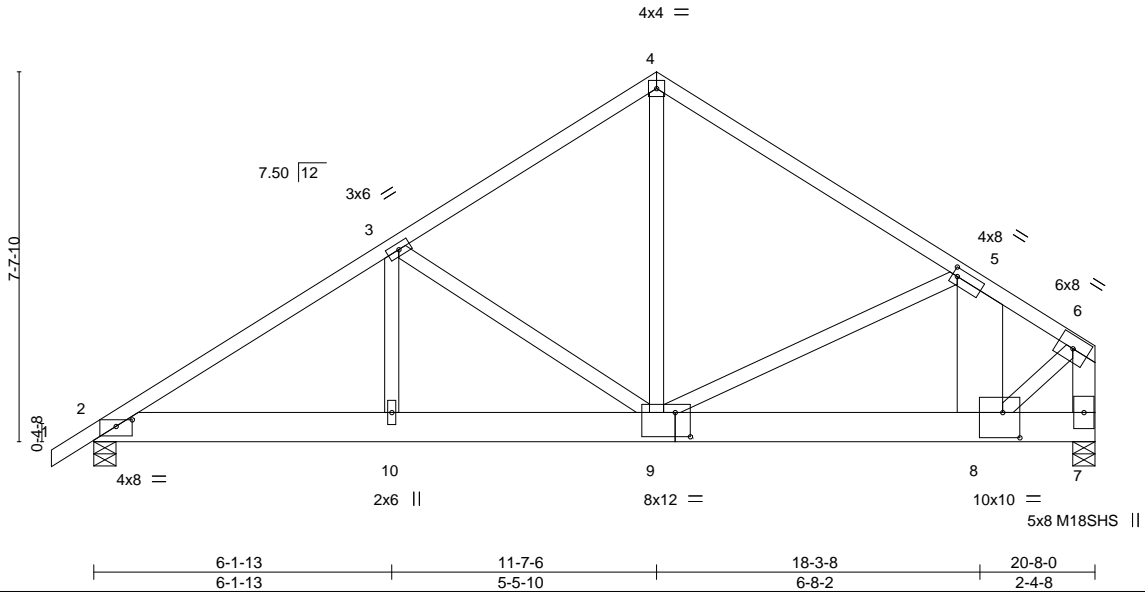


Plate Offsets (X,Y)--	[2:0-4-0,0-1-10], [5:0-1-4,0-2-0], [8:0-4-4,0-6-4], [9:0-3-12,0-6-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.04	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.08	8-9	>999	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.76	Horz(CT) 0.02	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04	8-9	>999	240		
							Weight: 311 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 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 5-5-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 2=1650/0-5-8, 7=7321/0-5-8
 Max Horz 2=180(LC 24)
 Max Uplift 2=-247(LC 8), 7=-1434(LC 9)

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

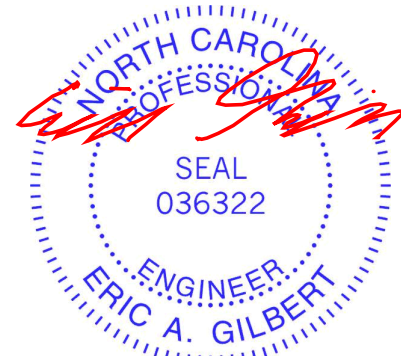
TOP CHORD 2-3=-2613/403, 3-4=-2271/437, 4-5=-2290/437, 5-6=-5866/1154, 6-7=-6729/1305
 BOT CHORD 2-10=-385/2129, 9-10=-385/2129, 8-9=-977/4970, 7-8=-58/274
 WEBS 3-9=-484/206, 4-9=-359/1958, 5-9=-3498/840, 5-8=-863/3215, 6-8=-1175/5931

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 - 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 100 lb uplift at joint(s) except (jt=lb) 2=247, 7=1434.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 101 lb down and 13 lb up at 18-3-8, and 7189 lb down and 1540 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



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Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/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 0519-2534	Truss A03	Truss Type Common Girder	Qty 1	Ply 2	Kent A&B Job Reference (optional)	E12697038
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8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:47 2019 Page 2
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-jY2f4cuoYS9tzLSbzz1LzywYiboNvAq0C?dZgtzlgjc

LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 8=-7289(F=-7189, B=-100)

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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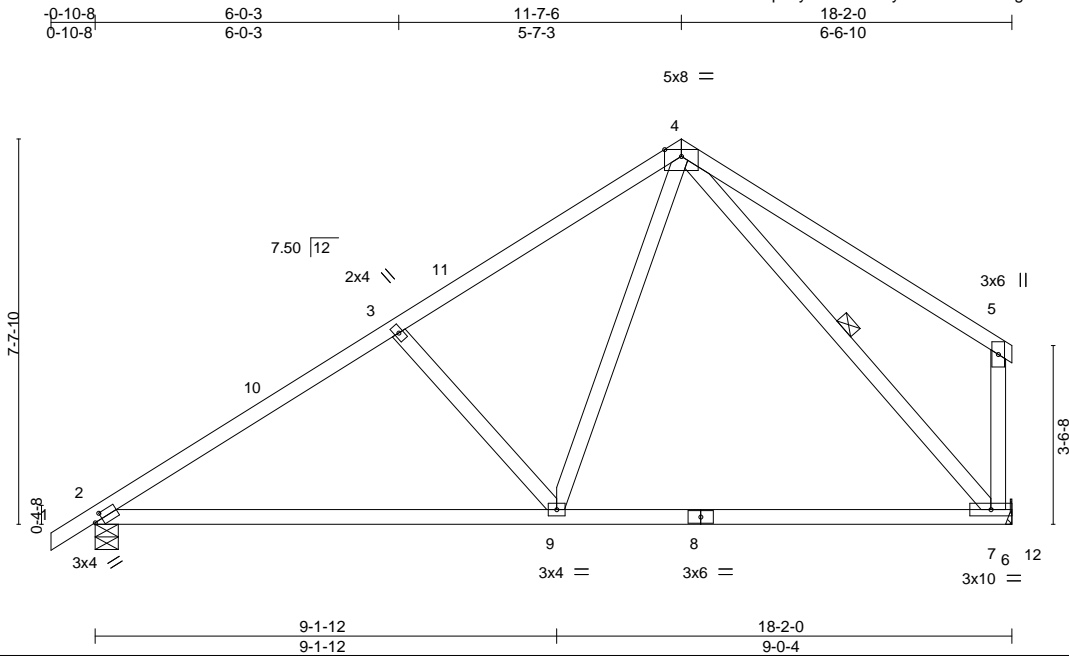
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 0519-2534	Truss A04	Truss Type COMMON	Qty 9	Ply 1	Kent A&B Job Reference (optional)	E12697039
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:48 2019 Page 1
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Scale = 1:45.7

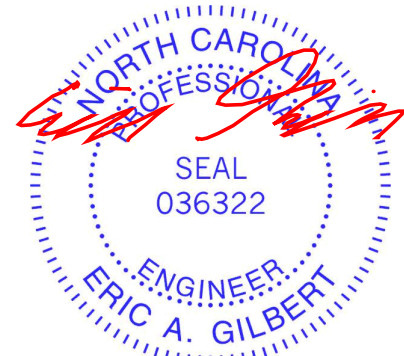
Plate Offsets (X,Y)--	[2:0-1-14,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.63	Vert(LL) -0.30 7-9 >700 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.39 7-9 >538 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.28	Horz(CT) 0.02 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.03 2-9 >999 240	Weight: 97 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-10-13 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3 *Except* 5-7: 2x4 SP No.2	WEBS 1 Row at midpt 4-7

REACTIONS. (lb/size) 7=710/Mechanical, 2=775/0-5-8
Max Horz 2=180(LC 7)
Max Uplift 7=-53(LC 10), 2=-71(LC 10)
Max Grav 7=838(LC 17), 2=799(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1038/250, 3-4=-834/255, 5-7=-269/160
BOT CHORD 2-9=-248/902, 7-9=-77/475
WEBS 3-9=-382/225, 4-9=-76/642, 4-7=-600/97

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) 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 7-2-10, Exterior(2) 7-2-10 to 11-7-6 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) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2.



February 13, 2019

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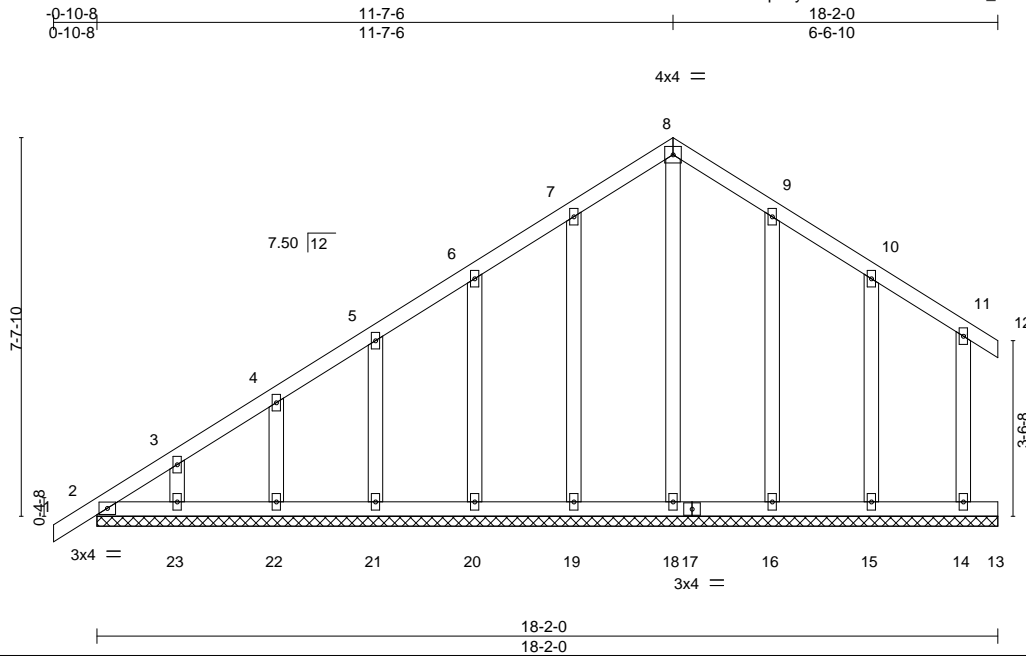


818 Soundside Road
Edenton, NC 27932

Job 0519-2534	Truss A05	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Kent A&B Job Reference (optional)	E12697040
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:49 2019 Page 1
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Scale = 1:46.5

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.04	Vert(LL) -0.00	1	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.03	Vert(CT) -0.00	1	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.17	Horz(CT) 0.01	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 117 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. All bearings 18-2-0.
 (lb) - Max Horz 2=253(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 12, 14, 13, 18, 19, 20, 21, 22, 23, 16, 15, 2
 Max Grav All reactions 250 lb or less at joint(s) 12, 14, 13, 19, 20, 21, 22, 23, 16, 15, 2 except 18=273(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-255/208

- 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) -0-10-8 to 3-7-6, Exterior(2) 3-7-6 to 7-2-10, Corner(3) 7-2-10 to 11-7-6, Exterior(2) 16-0-3 to 18-2-0 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 14, 13, 18, 19, 20, 21, 22, 23, 16, 15, 2.



February 13, 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.

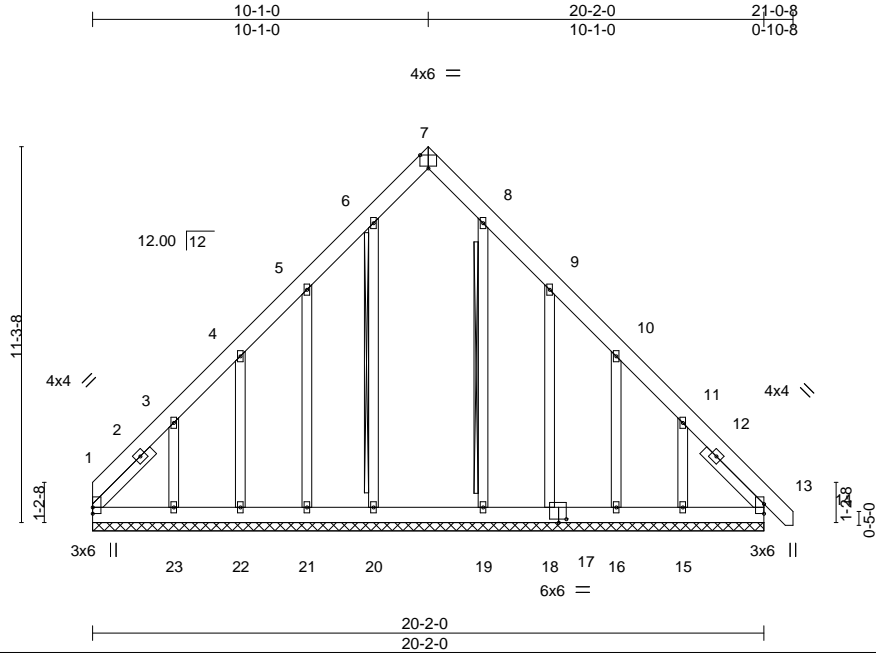
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job 0519-2534	Truss B01	Truss Type GABLE	Qty 1	Ply 1	Kent A&B Job Reference (optional)	E12697041
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:50 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqToYrSN-76kniewgrNXRqpBAf5b2baY67pxl6fWTuzrDHBzIqJZ



Scale = 1:69.2

Plate Offsets (X,Y)--	[7:0-3-0,Edge], [17:0-0-0,0-2-12], [17:0-2-12,0-1-4], [18:0-1-12,0-0-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.01	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 193 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
OTHERS 2x4 SP No.3
SLIDER Left 2x4 SP No.1 2-6-0, Right 2x4 SP No.1 2-6-0

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.
WEBS T-Brace: 2x4 SPF No.2 - 6-20, 8-19
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.

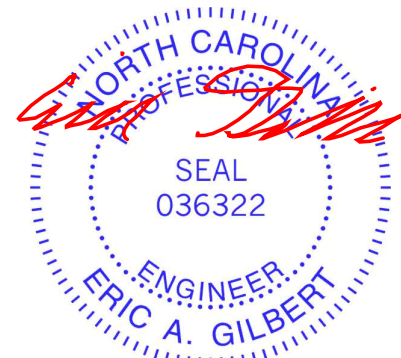
All bearings 20-2-0.
(lb) - Max Horz 1=-324(LC 6)
Max Uplift All uplift 100 lb or less at joint(s) 20, 19, 13 except 1=-130(LC 8), 21=-173(LC 10), 22=-120(LC 10), 23=-305(LC 10), 18=-178(LC 11), 16=-120(LC 11), 15=-296(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 21, 22, 18, 16, 15 except 1=405(LC 10), 20=287(LC 17), 23=264(LC 17), 19=268(LC 18), 13=363(LC 11)

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

TOP CHORD 1-3=-534/333, 3-4=-289/156, 10-11=-272/156, 11-13=-507/332
BOT CHORD 1-23=-251/387, 22-23=-252/388, 21-22=-253/388, 20-21=-253/389, 19-20=-254/388, 18-19=-253/388, 16-18=-253/388, 15-16=-252/387, 13-15=-251/386
WEBS 3-23=-292/303, 11-15=-290/291

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) 0-0-0 to 4-5-1, Exterior(2) 4-5-1 to 5-8-3, Corner(3) 5-8-3 to 10-1-0, Exterior(2) 14-5-13 to 16-6-5 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 20, 19, 13 except (jt=lb) 1=130, 21=173, 22=120, 23=305, 18=178, 16=120, 15=296.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



February 13, 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.

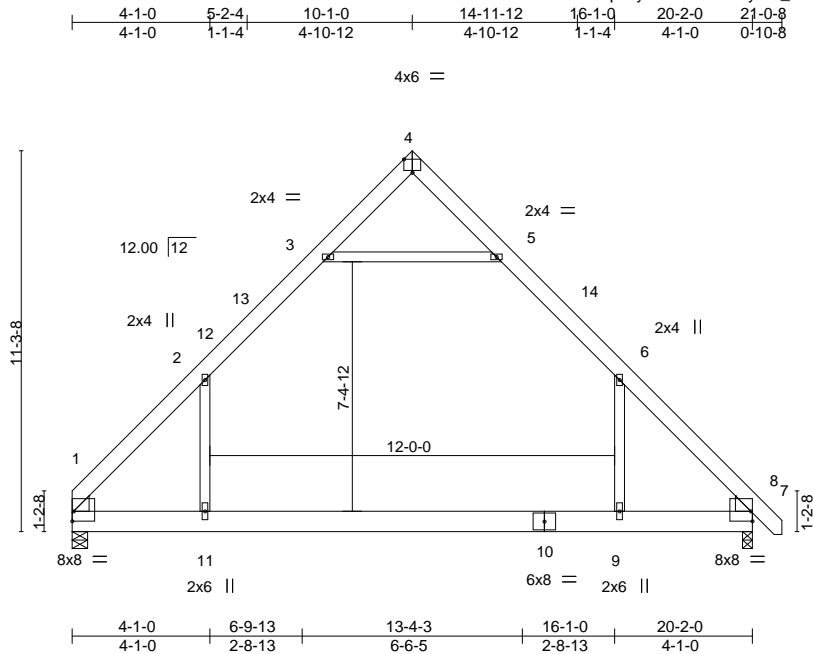


818 Soundside Road
Edenton, NC 27932

Job 0519-2534	Truss B02	Truss Type COMMON	Qty 2	Ply 1	Kent A&B	E12697042
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:52 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-3VsY7KywN_n936LZmWdWg?dMBcXYaV5IMGKkL4zIqjX



Scale = 1:68.3

Plate Offsets (X,Y)--	[1:Edge,0-3-8], [1:0-4-3,0-0-8], [1:0-0-4,0-0-4], [4:0-3-0,Edge], [7:0-0-4,0-0-4], [7:0-4-3,0-0-8], [7:Edge,0-3-8]					
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 0.48	Vert(LL) -0.23 9-11 >999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.38 9-11 >631	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.01 7 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10 9-11 >999	240		
					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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 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=904(LC 18), 7=941(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1236/167, 2-3=-673/284, 5-6=-670/284, 6-7=-1245/185
BOT CHORD 1-11=-23/660, 9-11=-22/662, 7-9=-22/660
WEBS 2-11=-32/578, 6-9=-29/591, 3-5=-818/413

- 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 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) 1, 7.

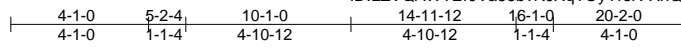


February 13, 2019

Job 0519-2534	Truss B03	Truss Type COMMON	Qty 8	Ply 1	Kent A&B	E12697043
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8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:53 2019 Page 1
ID:LZVQAWTEf0Va58bvNJxqToYrNsN-XhQwLgzZ8lw0hGwlKE8IDDAX30sjyKvaw4tuWzqljW



4x6 =

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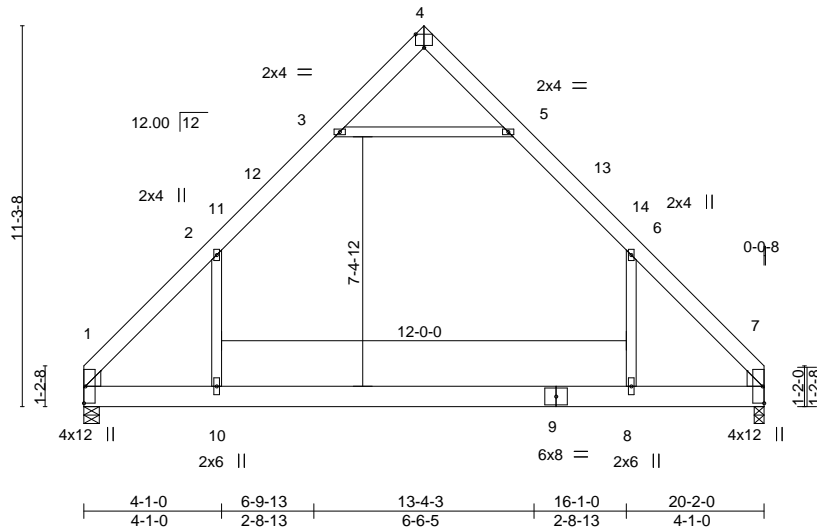


Plate Offsets (X,Y)--	[1:0-0-8,0-4-3], [1:0-0-4,0-0-4], [4:0-3-0,Edge], [7:0-0-4,0-0-4], [7:0-0-8,0-4-3]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.47	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.42	Vert(LL) -0.23 8-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.44	Vert(CT) -0.38 8-10 >623 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.10 8-10 >999 240	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 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 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=905(LC 18), 7=903(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1240/175, 2-3=-673/287, 5-6=-671/287, 6-7=-1224/174
BOT CHORD 1-10=-25/659, 8-10=-25/660, 7-8=-25/658
WEBS 2-10=-32/583, 6-8=-32/563, 3-5=-819/422

- 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 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) 1, 7.

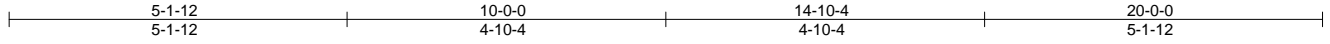


February 13, 2019

Job 0519-2534	Truss C01	Truss Type Flat Girder	Qty 1	Ply 2	Kent A&B Job Reference (optional)	E12697044
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:55 2019 Page 1
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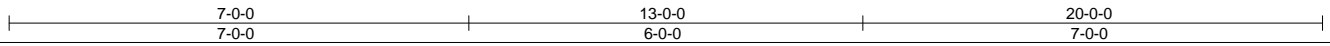
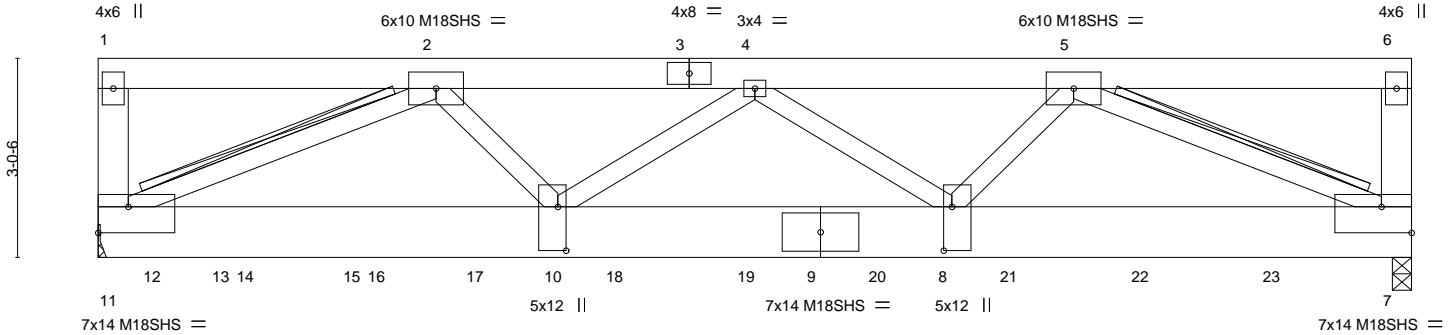


Plate Offsets (X,Y)-- [7:Edge,0-4-12], [8:0-8-0,0-1-8], [10:0-8-0,0-1-8], [11:Edge,0-4-12]

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 0.46	Vert(LL)	-0.13	8-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.25	8-10	>944	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.74	Horz(CT)	0.05	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.11	10	>999		
								Weight: 334 lb	FT = 20%

LUMBER-	BRACING-	
TOP CHORD 2x6 SP 2400F 2.0E	TOP CHORD	Structural wood sheathing directly applied or 5-11-6 oc purlins, except end verticals.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-11,6-7: 2x6 SP No.1, 4-10,4-8: 2x4 SP No.3	WEBS	T-Brace: 2x6 SPF No.2 - 2-11, 5-7 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) 11=7209/Mechanical, 7=6604/0-3-8
Max Uplift 11=-1520(LC 4), 7=-1322(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-316/81, 1-2=-664/143, 2-4=-13118/2555, 4-5=-12986/2505, 5-6=-623/130, 6-7=-311/80
BOT CHORD 10-11=-1925/9700, 8-10=-2611/13303, 7-8=-1887/9597
WEBS 2-11=-10078/1986, 2-10=-1035/5616, 4-10=-263/71, 4-8=-455/135, 5-8=-1016/5567, 5-7=-10004/1957

- 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: 2x10 - 2 rows staggered at 0-6-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Wind: ASCE 7-10; Vult=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.
 - 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 (it=lb) 11=1520, 7=1322.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 587 lb down and 213 lb up at 0-10-12, 789 lb down and 73 lb up at 1-11-4, 583 lb down and 216 lb up at 2-3-12, 789 lb down and 73 lb up at 3-11-4, 583 lb down and 216 lb up at 4-3-12, 1560 lb down and 543 lb up at 5-9-12, 789 lb down and 73 lb up at 5-11-4, 789 lb down and 73 lb up at 7-11-4, 789 lb down and 73 lb up at 9-11-4, 789 lb down and 73 lb up at 11-11-4, 1560 lb down and 543 lb up at 13-11-4, 789 lb down and 73 lb up at 13-11-4, 583 lb down and 216 lb up at 15-11-4, 789 lb down and 73 lb up at 15-11-4, and 583 lb down and 216 lb up at 17-11-4, and 789 lb down and 73 lb up at 17-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



Job 0519-2534	Truss C01	Truss Type Flat Girder	Qty 1	Ply 2	Kent A&B Job Reference (optional)	E12697044
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:55 2019 Page 2
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-U4XgmM_pgvaKwa47ReBDIeFtgqXBnnAC2EZ_yPzIqjU

NOTES-

11) 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: 1-6=-60, 7-11=-20

Concentrated Loads (lb)

Vert: 12=-587(B) 13=-690(F) 14=-583(B) 15=-690(F) 16=-583(B) 17=-2250(F=-690, B=-1560) 18=-690(F) 19=-690(F) 20=-690(F) 21=-2250(F=-690, B=-1560)
22=-1273(F=-690, B=-583) 23=-1273(F=-690, B=-583)

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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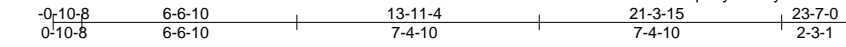


818 Soundside Road
Edenton, NC 27932

Job 0519-2534	Truss M01	Truss Type COMMON	Qty 1	Ply 1	Kent A&B Job Reference (optional)	E12697045
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:56 2019 Page 1
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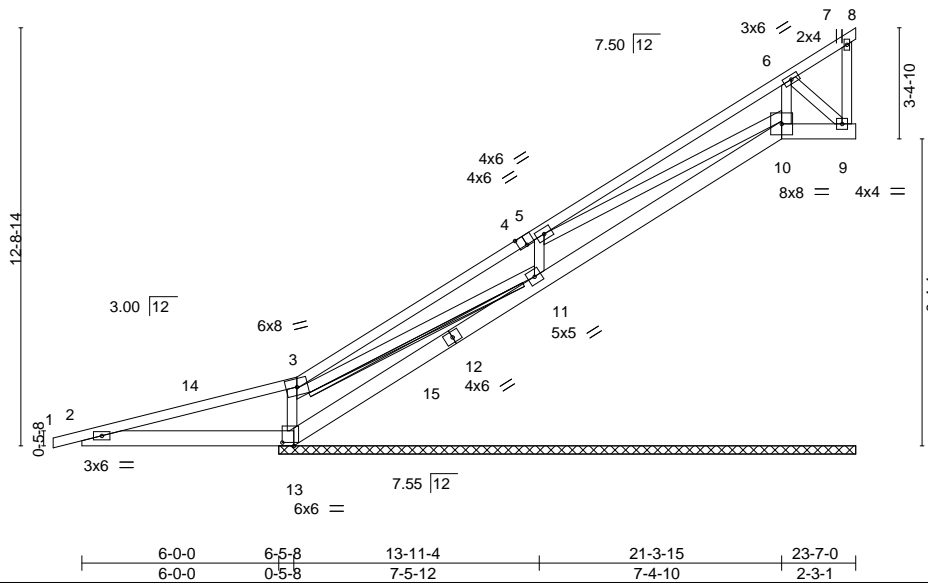


Plate Offsets (X,Y)--	[4:0-3-0,Edge], [13:0-4-4,0-1-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.84	Vert(LL) 0.00 1-2 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.60	Vert(CT) -0.00 1-2 n/r 120		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.75	Horz(CT) -0.04 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S			
				Weight: 141 lb	FT = 20%

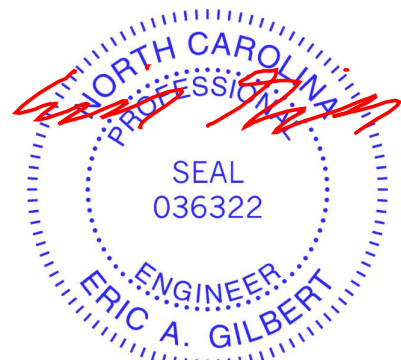
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-7-2 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 4-1-9 oc bracing.
WEBS 2x4 SP No.3	WEBS T-Brace: 2x4 SPF No.2 - 3-11 Fasten (2X) T and I braces to narrow 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 17-7-0.
(lb) - Max Horz 13=583(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 8=-118(LC 10), 9=-318(LC 1), 10=-181(LC 10), 13=-842(LC 6), 11=-308(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 8, 9 except 10=535(LC 1), 13=2368(LC 1), 11=608(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1676/2476, 3-5=-658/915, 5-6=-199/366
BOT CHORD 2-13=-2344/1663, 11-13=-3010/1473, 10-11=-839/422
WEBS 3-13=-159/258, 3-11=-1041/1814, 5-11=-628/436, 5-10=-233/491, 6-10=-679/270, 6-9=-163/292

- NOTES-**
- 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) gable end zone and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 23-7-0 zone; cantilever left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 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.
 - Bearing at joint(s) 8, 10, 11 considers parallel to grain value using ANS/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 118 lb uplift at joint 8, 318 lb uplift at joint 9, 181 lb uplift at joint 10, 842 lb uplift at joint 13 and 308 lb uplift at joint 11.
 - Non Standard bearing condition. Review required.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - 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, 3-7=-60, 7-8=-60, 2-13=-140(B=-120), 13-15=-140(B=-120), 10-15=-20, 9-10=-20



February 13, 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.

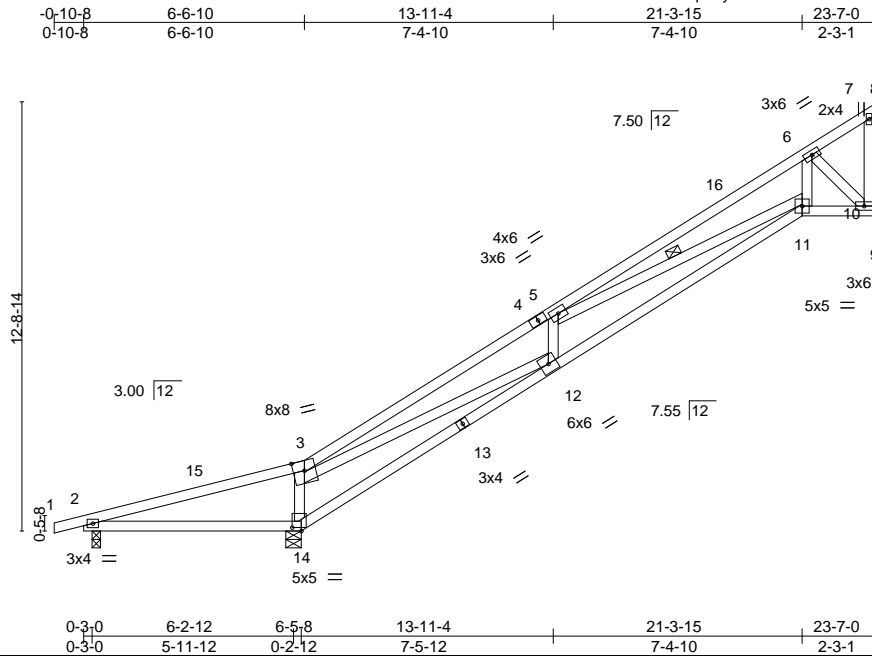
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 0519-2534	Truss M02	Truss Type COMMON	Qty 5	Ply 1	Kent A&B	E12697046
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:57 2019 Page 1
ID:LZVQAWTEf0Va58bvNJxqTOyYrsN-QTfRA103CXQS9tDWZ3DhN3KBtdDsFdAUVY251IzIqJS



Scale = 1:68.4

Plate Offsets (X,Y)-- [14:0-3-4,0-1-4]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL)	-0.12 11-12	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(CT)	-0.27 11-12	>762	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.96	Horz(CT)	0.06 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.13 11-12	>999	240		
	Code IRC2015/TPI2014						Weight: 119 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 3-5-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 5-11

REACTIONS. (lb/size) 10=603/Mechanical, 2=100/0-3-0, 14=1222/0-5-8
Max Horz 14=405(LC 10)
Max Uplift 10=-196(LC 10), 2=-130(LC 6), 14=-127(LC 10)
Max Grav 10=651(LC 17), 2=100(LC 1), 14=1222(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-480/994, 3-5=-1820/427, 5-6=-1023/276
BOT CHORD 2-14=-950/500, 12-14=-769/25, 11-12=-812/2103, 10-11=-338/823
WEBS 3-14=-673/249, 3-12=-718/2426, 5-12=-372/245, 5-11=-921/334, 6-11=-249/871, 6-10=-1147/472

- 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) -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; cantilever 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) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 196 lb uplift at joint 10, 130 lb uplift at joint 2 and 127 lb uplift at joint 14.



February 13, 2019

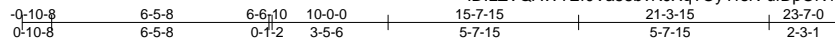
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, 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.

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

Job 0519-2534	Truss M03	Truss Type COMMON	Qty 2	Ply 1	Kent A&B	E12697047
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:58 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-ufDpON1hyqYJn1oi7nkwwGtHJ1To_6_ekCneZklqJR



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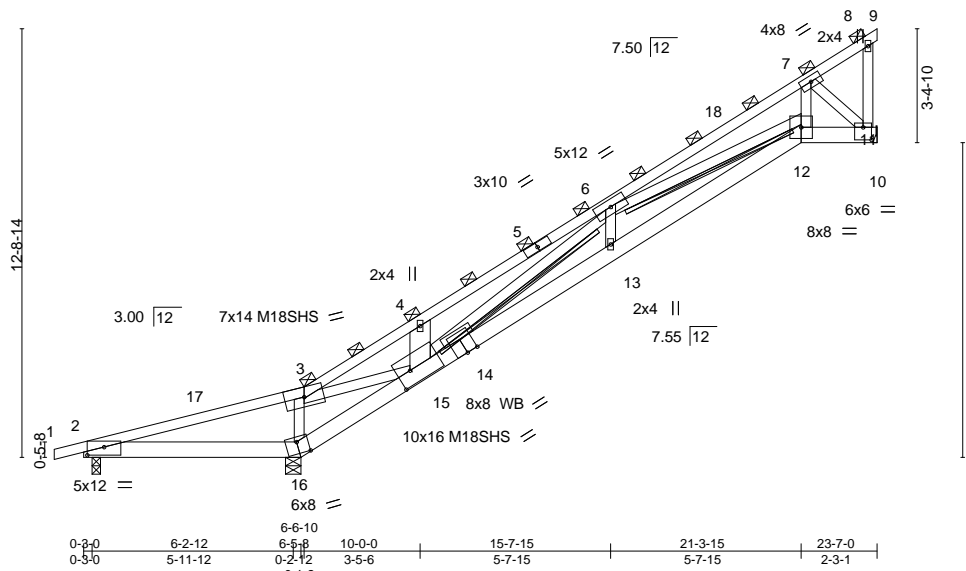


Plate Offsets (X,Y)-- [2:0-6-0,0-2-14], [11:0-3-0,0-4-8], [15:0-4-11,0-5-0], [16:0-4-0,0-4-4]

LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	5-0-0	TC 0.95	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.87	Vert(LL) -0.21 13 >955 360	M18SHS	244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.86	Vert(CT) -0.43 13-15 >476 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.12 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.26 13-15 >768 240		
				Weight: 147 lb	FT = 20%

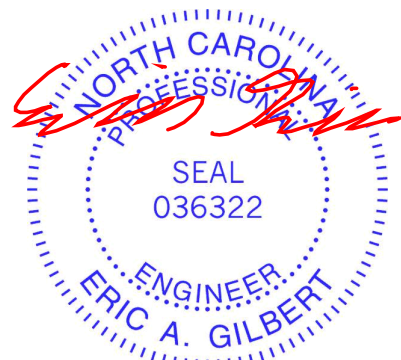
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1 *Except* 1-3: 2x4 SP 2400F 2.0E	TOP CHORD 2-0-0 oc purlins (2-4-7 max.), except end verticals (Switched from sheeted: Spacing > 2-0-0).
BOT CHORD 2x6 SP No.1 *Except* 2-16: 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 3-2-6 oc bracing.
WEBS 2x4 SP No.3 *Except* 4-15: 2x8 SP No.1, 3-15: 2x4 SP 2400F 2.0E	WEBS T-Brace: 2x4 SPF No.2 - 6-12, 6-15 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.
OTHERS 2x4 SP No.3	

REACTIONS. (lb/size) 11=1610/Mechanical, 16=5076/0-5-8, 2=-371/0-3-0
Max Horz 2=1012(LC 10)
Max Uplift 11=-493(LC 10), 16=-709(LC 7), 2=-893(LC 8)
Max Grav 11=1728(LC 17), 16=5076(LC 1), 2=259(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3196/5030, 3-4=-2863/1316, 4-6=-2994/1621, 6-7=-2611/894
BOT CHORD 2-16=-4132/1973, 15-16=-4731/2297, 13-15=-2761/5678, 12-13=-2755/5767,
11-12=-958/2095
WEBS 4-15=-818/411, 6-13=0/518, 6-12=-2653/1330, 7-12=-915/2402, 7-11=-2832/1298,
6-15=-2567/568, 3-16=-2220/1193, 3-15=-3916/6620

- NOTES-**
- 1) 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) 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) The Fabrication Tolerance at joint 15 = 5%
 - 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 493 lb uplift at joint 11, 709 lb uplift at joint 16 and 893 lb uplift at joint 2.
 - 8) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1518 lb down and 1547 lb up at 10-0-0 on bottom chord. 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.
 - 10) 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



February 13, 2019

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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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job 0519-2534	Truss M03	Truss Type COMMON	Qty 2	Ply 1	Kent A&B Job Reference (optional)	E12697047
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:58 2019 Page 2
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-ufDpON1hyqYJn1oi7nkwwGtHJ1To_6_ekCneZklqjR

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-150, 3-8=-150, 8-9=-50, 2-16=-50, 12-16=-50, 10-12=-50
Concentrated Loads (lb)
Vert: 15=-1500(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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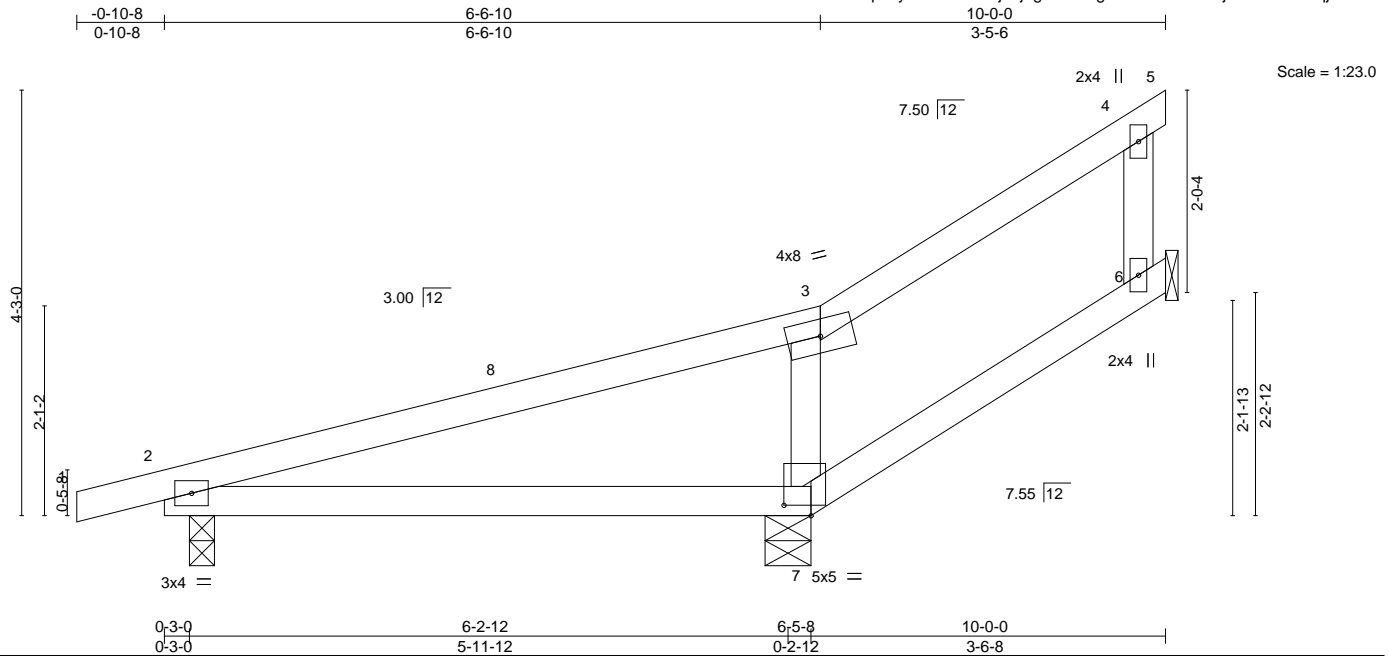


818 Soundside Road
Edenton, NC 27932

Job 0519-2534	Truss M04	Truss Type Roof Special	Qty 3	Ply 1	Kent A&B Job Reference (optional)	E12697048
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:58:59 2019 Page 1
ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-MrnBbj1J8gAPBNvgUF9SUQXURrkjfnzXC5AZlqjQ



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.76	Vert(LL) 0.14 2-7 >552 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) -0.11 2-7 >664 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 6 n/a n/a		
	Code IRC2015/TP12014			Weight: 38 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 6-0-0 oc bracing.
WEBS 2x4 SP No.3	

REACTIONS. (lb/size) 6=87/Mechanical, 2=292/0-3-0, 7=455/0-5-8
 Max Horz 2=129(LC 10)
 Max Uplift 6=-38(LC 10), 2=-122(LC 6), 7=-116(LC 6)
 Max Grav 6=128(LC 17), 2=292(LC 1), 7=455(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 3-7=-331/207

- 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 6-6-10, Exterior(2) 6-6-10 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) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 38 lb uplift at joint 6, 122 lb uplift at joint 2 and 116 lb uplift at joint 7.



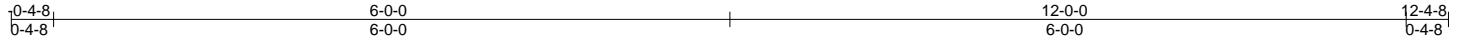
February 13, 2019

Job 0519-2534	Truss P01	Truss Type Common Supported Gable	Qty 1	Ply 1	Kent A&B Job Reference (optional)	E12697049
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Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:59:00 2019 Page 1

ID:LZVQAWTEf0Va58bvNJXqTOyYrsN-q2LZp3zyUSo10Ly5ECmO?hymrrFUSC2xBWGlcdzljP



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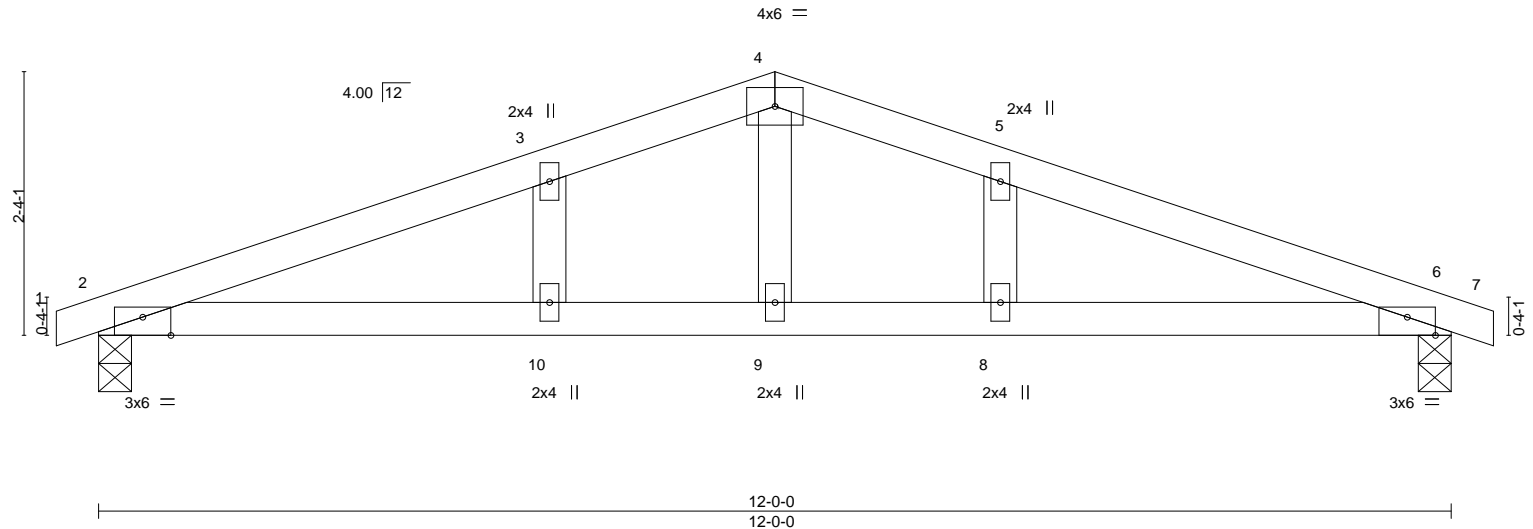


Plate Offsets (X,Y)--	[2:0-3-0,Edge], [6:0-3-0,Edge]
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LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.37	Vert(LL) -0.05	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.09	6-8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) -0.02	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.10	6-8	>999	240		
							Weight: 44 lb	FT = 20%

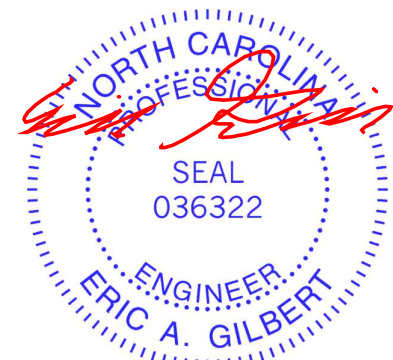
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 OTHERS 2x4 SP No.3

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 5-5-1 oc bracing.

REACTIONS. (lb/size) 2=500/0-3-8, 6=500/0-3-8
 Max Horz 2=43(LC 14)
 Max Uplift 2=-278(LC 6), 6=-278(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-889/1280, 3-4=-841/1325, 4-5=-841/1325, 5-6=-889/1280
 BOT CHORD 2-10=-1123/797, 9-10=-1123/797, 8-9=-1123/797, 6-8=-1123/797
 WEBS 4-9=-498/295

- 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; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 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 278 lb uplift at joint 2 and 278 lb uplift at joint 6.



February 13, 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.



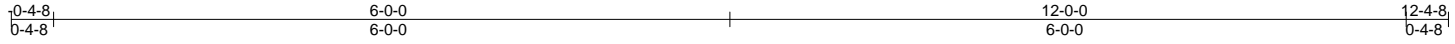
818 Soundside Road
 Edenton, NC 27932

Job 0519-2534	Truss P02	Truss Type Common	Qty 3	Ply 1	Kent A&B Job Reference (optional)	E12697050
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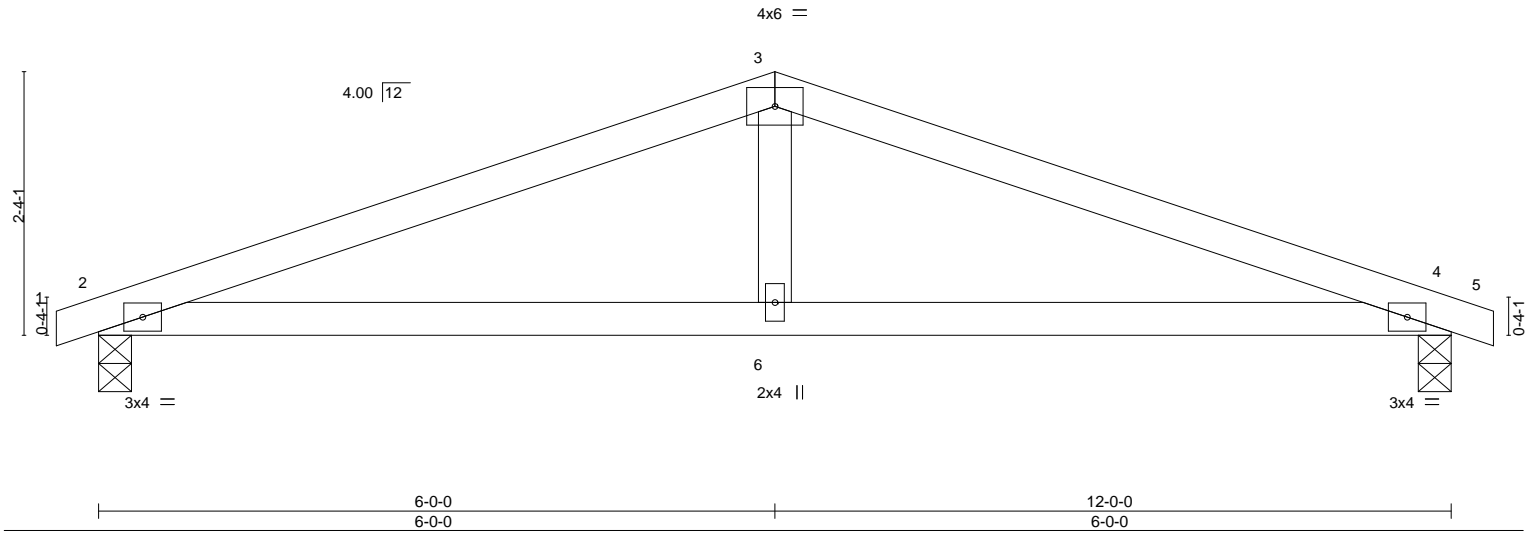
Comtech, Inc., Fayetteville, NC 28309

8,130 s Mar 11 2018 MiTek Industries, Inc. Tue Feb 12 15:59:01 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	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.07	2-6	>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	2-6	>999	240	Weight: 41 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-10-12 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 10)
 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=-874/369, 3-4=-874/369
 BOT CHORD 2-6=-273/774, 4-6=-273/774
 WEBS 3-6=0/282

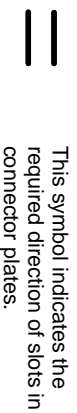
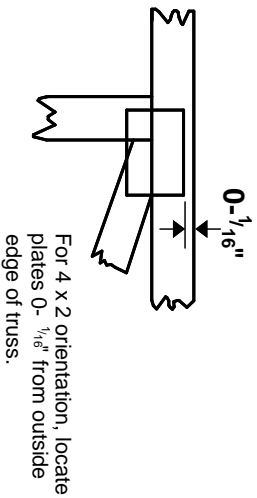
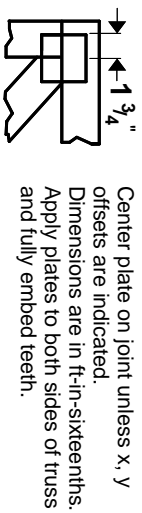
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=5.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 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) 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.



February 13, 2019

Symbols

PLATE LOCATION AND ORIENTATION



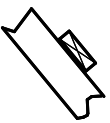
* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

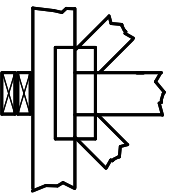
4 X 4

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

LATERAL BRACING LOCATION



BEARING

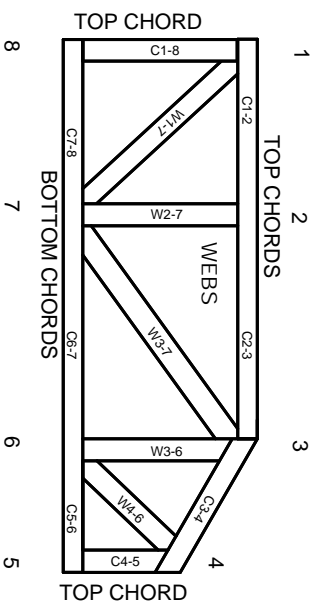


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

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.