

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: J0820-3947  
Southern Touch/1 Dry Creek Rd/Harnett

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: E14794364 thru E14794379

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

North Carolina COA: C-0844



August 27, 2020

Gilbert, Eric

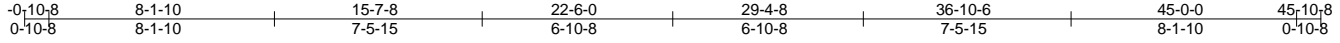
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes),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

Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794364
J0820-3947	A1	GABLE	1	1	Job Reference (optional)	

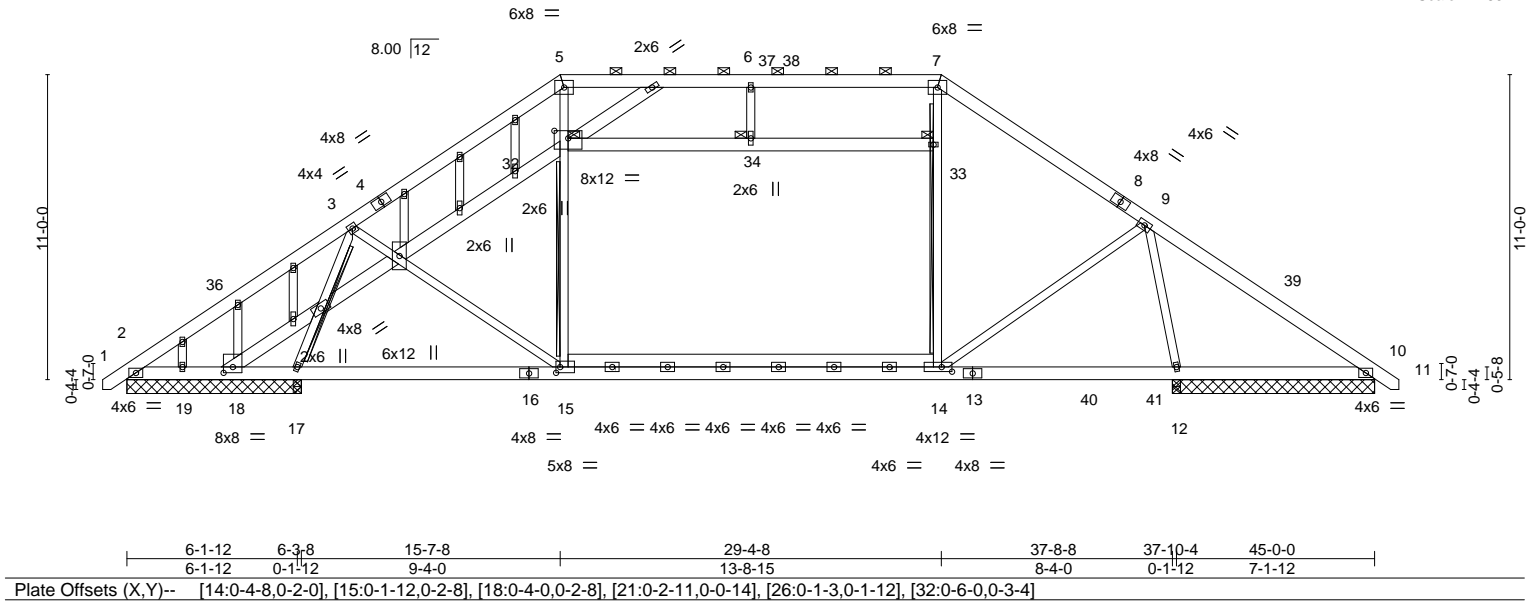
Comtech, Inc., Fayetteville, NC - 28314,

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LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.21	14-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.28	14-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.77	Horz(CT) 0.02	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.04	15	>999	240	Weight: 428 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS T-Brace: 2x4 SPF No.2 - 3-17, 15-32, 14-33
OTHERS 2x4 SP No.2	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.
	JOINTS 1 Brace at Jt(s): 32, 33, 34

**REACTIONS.** All bearings 6-3-8 except (jt=length) 10=7-3-8, 12=0-3-8, 12=0-3-8.  
 (lb) - Max Horz 2=328(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) except 2=233(LC 8), 17=450(LC 12), 10=148(LC 12), 18=142(LC 23), 19=145(LC 12), 12=397(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 18 except 17=1832(LC 19), 17=1591(LC 1), 10=475(LC 1), 19=289(LC 23), 12=1755(LC 20), 12=1369(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=415/547, 3-5=1380/406, 5-6=1070/409, 6-7=1070/409, 7-9=1381/412, 9-10=551/355  
 BOT CHORD 15-17=92/525, 14-15=195/1109, 12-14=216/599, 10-12=267/403  
 WEBS 3-17=1809/556, 3-15=128/720, 15-32=105/339, 5-32=14/369, 14-33=124/341, 7-33=33/371, 9-14=126/775, 9-12=1531/465

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-8-12 to 3-9-4, Interior(1) 3-9-4 to 15-8-6, Exterior(2) 15-8-6 to 22-0-12, Interior(1) 22-0-12 to 29-3-10, Exterior(2) 29-3-10 to 35-8-0, Interior(1) 35-8-0 to 45-8-12 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 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 233 lb uplift at joint 2, 450 lb uplift at joint 17, 148 lb uplift at joint 10, 142 lb uplift at joint 18, 145 lb uplift at joint 19 and 397 lb uplift at joint 12.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
  - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794365
J0820-3947	A2	PIGGYBACK BASE	5	1	Job Reference (optional)	

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-0-10-8	8-1-10	15-7-8	22-6-0	29-4-8	37-8-8	45-0-0	45-10-8
0-10-8	8-1-10	7-5-15	6-10-8	6-10-8	8-4-0	7-3-8	0-10-8

Scale = 1:82.7

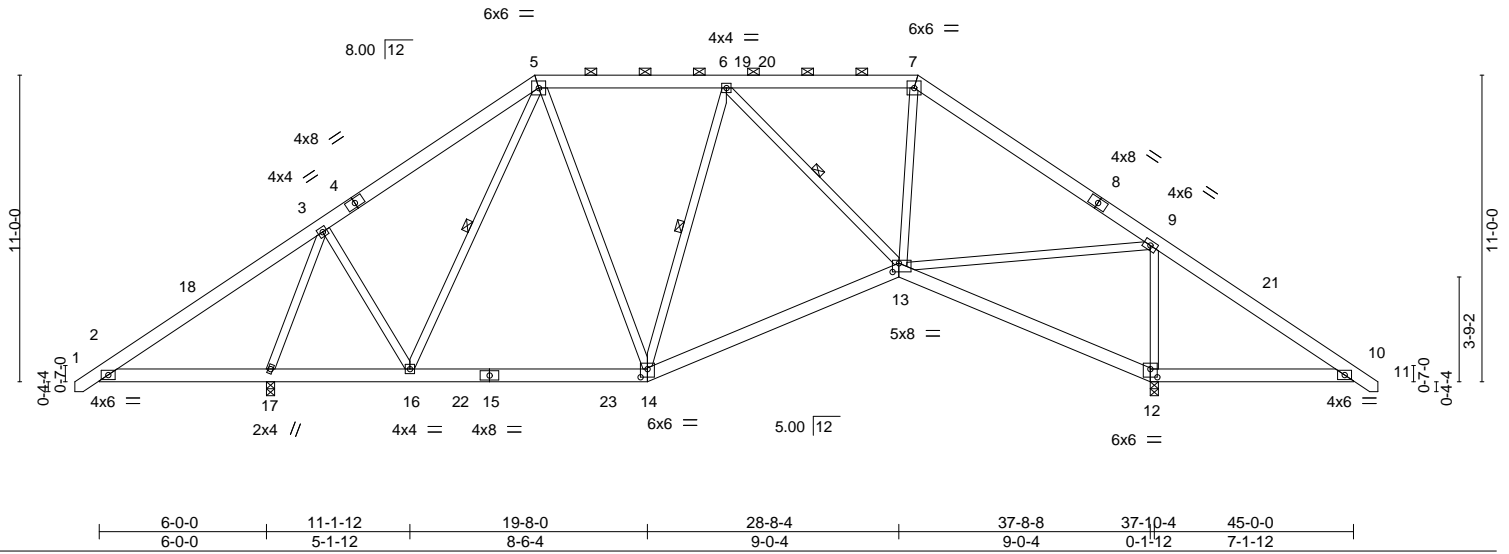


Plate Offsets (X,Y)-- [12:0-3-0,0-3-8], [13:0-2-12,0-3-12], [14:0-3-0,0-3-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.11	14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.38	Vert(CT) -0.16	14-16	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.04	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	13-14	>999	240	Weight: 342 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-16, 6-14, 6-13

**REACTIONS.** (size) 12=0-3-8, 17=0-3-8  
 Max Horz 17=-263(LC 10)  
 Max Uplift 12=-97(LC 13), 17=-95(LC 12)  
 Max Grav 12=1915(LC 1), 17=1772(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-384/629, 3-5=-795/208, 5-6=-773/281, 6-7=-892/149, 7-9=-1213/92, 9-10=-421/611  
 BOT CHORD 2-17=-429/427, 16-17=-202/405, 14-16=-121/735, 13-14=-144/1047, 12-13=-509/522, 10-12=-398/444  
 WEBS 3-16=-20/649, 5-16=-400/151, 5-14=-81/355, 6-14=-513/109, 9-13=-147/1313, 9-12=-1551/508, 3-17=-1706/561, 7-13=-13/331, 6-13=-54/273

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-9-4, Interior(1) 3-9-4 to 15-8-6, Exterior(2) 15-8-6 to 22-0-12, Interior(1) 22-0-12 to 29-3-10, Exterior(2) 29-3-10 to 35-8-0, Interior(1) 35-8-0 to 45-8-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 97 lb uplift at joint 12 and 95 lb uplift at joint 17.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 27, 2020

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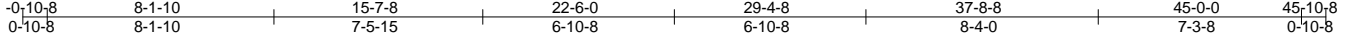
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794366
J0820-3947	A3	PIGGYBACK BASE	4	1		

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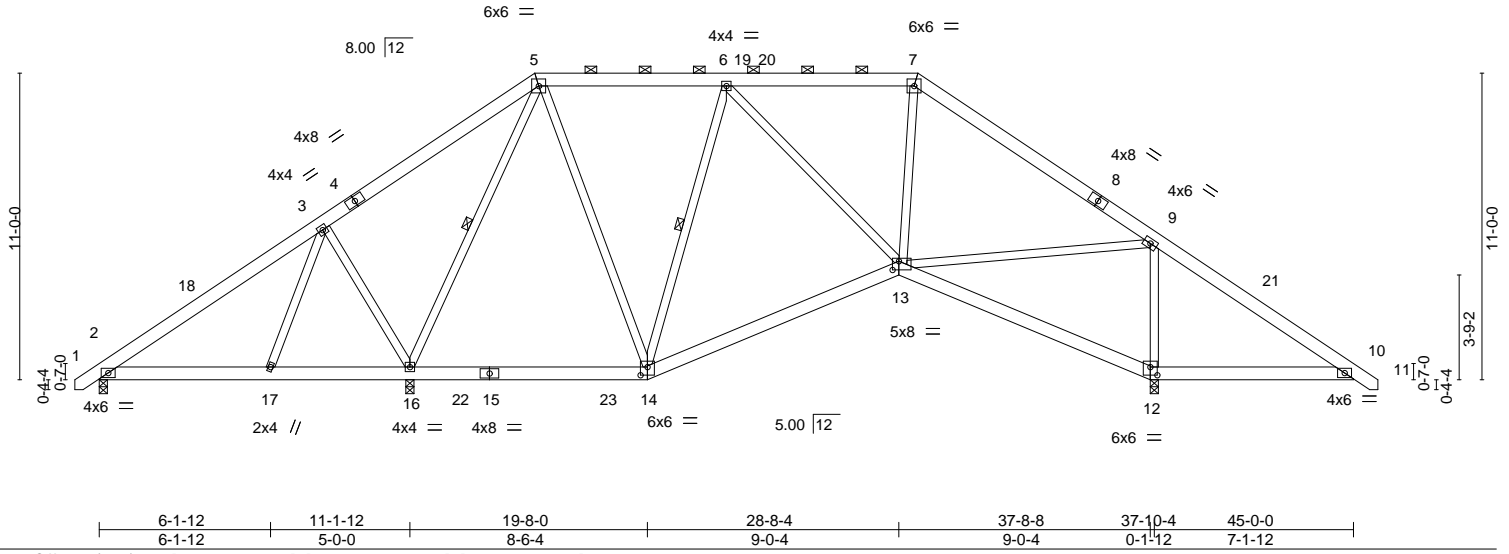


Plate Offsets (X,Y)-- [12:0-3-0,0-3-8], [13:0-2-12,0-3-12], [14:0-3-0,0-3-8]

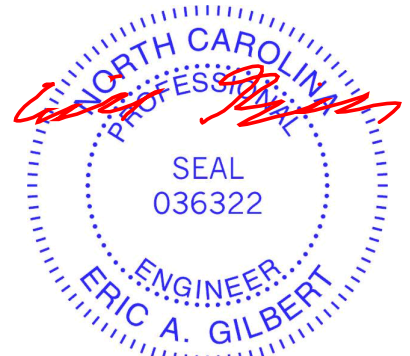
LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.10	14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.14	14-16	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.59	Horz(CT) 0.03	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	2-17	>999	240		
							Weight: 342 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-16, 6-14

**REACTIONS.** (size) 2=0-3-8, 12=0-3-8, 16=0-3-8  
 Max Horz 2=-263(LC 10)  
 Max Uplift 2=-64(LC 8), 12=-114(LC 13), 16=-213(LC 9)  
 Max Grav 2=450(LC 23), 12=1754(LC 1), 16=1522(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-402/233, 5-6=-518/251, 6-7=-677/132, 7-9=-970/72, 9-10=-421/612  
 BOT CHORD 14-16=-58/376, 13-14=-91/742, 12-13=-505/521, 10-12=-399/444  
 WEBS 3-16=-604/478, 5-16=-979/188, 5-14=-37/519, 6-14=-561/96, 9-13=-113/1105, 9-12=-1392/482, 6-13=0/261

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-9-4, Interior(1) 3-9-4 to 15-8-6, Exterior(2) 15-8-6 to 22-0-12, Interior(1) 22-0-12 to 29-3-10, Exterior(2) 29-3-10 to 35-8-0, Interior(1) 35-8-0 to 45-8-12 zone; cantilever right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Provide adequate drainage to prevent water ponding.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 2, 114 lb uplift at joint 12 and 213 lb uplift at joint 16.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 27, 2020

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818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794367
J0820-3947	A4	COMMON	4	1	Job Reference (optional)	

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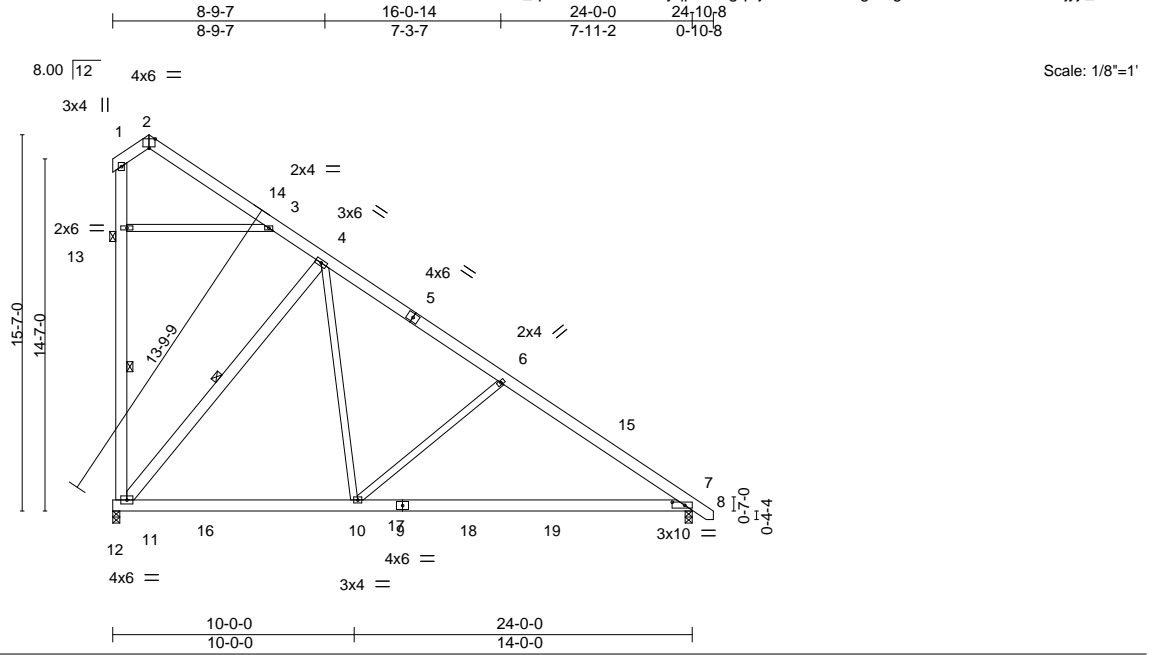


Plate Offsets (X,Y)-- [2:0-3-0,Edge], [7:0-6-3,0-1-8]

LOADING (psf)	SPACING-	CS.I.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.30	Vert(LL)	-0.21 7-10	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.66	Vert(CT)	-0.45 7-10	>630	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.57	Horz(CT)	0.02 7	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.04 7-10	>999	240	Weight: 225 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 11-13, 4-11
1-11,4-11: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 13

**REACTIONS.** (size) 11=0-3-8, 7=0-3-8  
 Max Horz 11=-486(LC 13)  
 Max Uplift 11=-231(LC 13)  
 Max Grav 11=1231(LC 20), 7=1118(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 4-6=-1020/0, 6-7=-1341/0  
 BOT CHORD 10-11=0/709, 7-10=0/1032  
 WEBS 4-10=-18/894, 6-10=-516/279, 4-11=-1145/329

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 5-10-13, Interior(1) 5-10-13 to 24-8-12 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 11.



August 27, 2020

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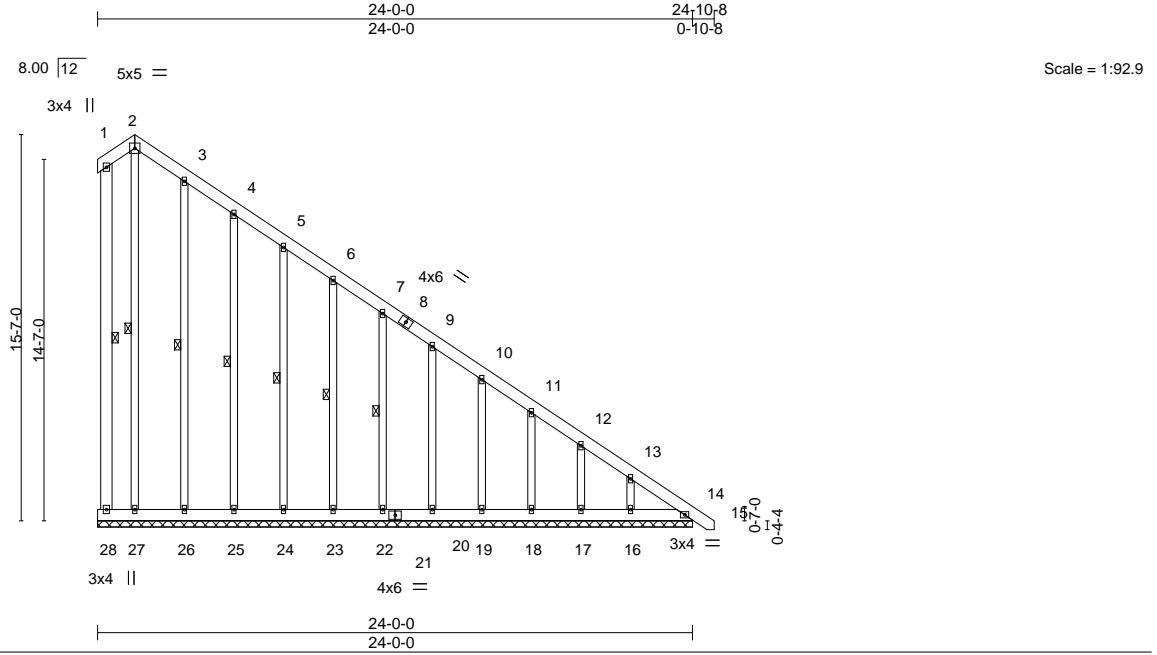


818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794368
J0820-3947	A4GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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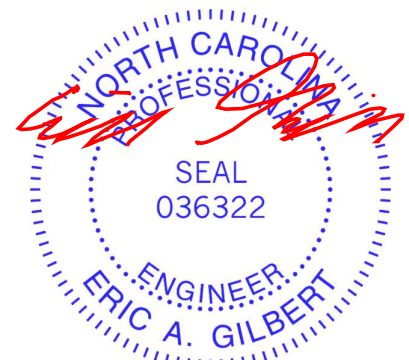
LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.07	Vert(LL)	0.00	14	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.06	Vert(CT)	0.00	14	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.12	Horz(CT)	0.02	14	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						Weight: 290 lb	FT = 20%
	Code IRC2015/TPI2014								

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	WEBS 1 Row at midpt 1-28, 2-27, 3-26, 4-25, 5-24, 6-23, 7-22
OTHERS 2x4 SP No.2	

**REACTIONS.** All bearings 24-0-0.  
 (lb) - Max Horz 28=-702(LC 13)  
 Max Uplift All uplift 100 lb or less at joint(s) 28, 14, 27, 26, 25, 24, 23, 22, 20, 19, 18, 17 except 16=-128(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 28, 27, 26, 25, 24, 23, 22, 20, 19, 18, 17, 16 except 14=405(LC 13)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 6-7=-319/241, 7-9=-394/300, 9-10=-469/359, 10-11=-544/418, 11-12=-619/477, 12-13=-692/532, 13-14=-793/620  
 BOT CHORD 27-28=-537/701, 26-27=-537/701, 25-26=-537/701, 24-25=-537/701, 23-24=-537/701, 22-23=-537/701, 20-22=-537/701, 19-20=-537/701, 18-19=-537/701, 17-18=-537/701, 16-17=-537/701, 14-16=-537/701

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
  - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-4-4 to 5-10-13, Exterior(2) 5-10-13 to 24-8-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) 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.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable requires continuous bottom chord bearing.
  - 6) Gable studs spaced at 2-0-0 oc.
  - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 14, 27, 26, 25, 24, 23, 22, 20, 19, 18, 17 except (jt=lb) 16=128.



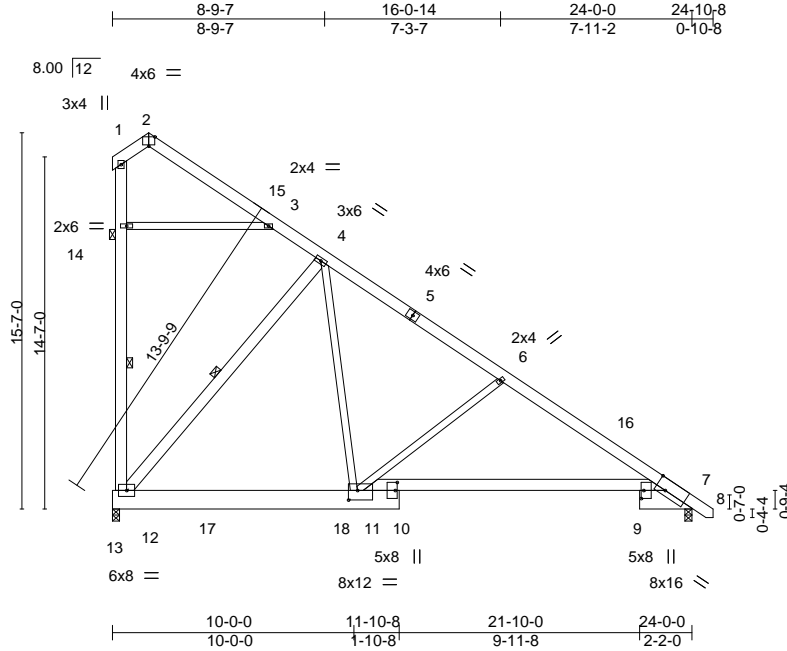
August 27, 2020

Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794369
J0820-3947	A5	COMMON	2	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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ID:VSuoCKi\_qGxxBsvh?omleXyqpHe-ZqCR\_pzV5rCj1r7RpxS66JpTRrkHTpu546kxNyjf\_h



Scale: 1/8"=1'

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [7:0-5-0,Edge], [9:0-4-0,0-1-4], [10:0-4-0,0-1-0], [11:0-4-8,0-4-12]

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 0.40	Vert(LL)	-0.15 7-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.49	Vert(CT)	-0.37 7-11	>766	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.55	Horz(CT)	0.09 7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.07 7-11	>999	240	Weight: 251 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.1 *Except* 7-11: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 1-12,4-12: 2x6 SP No.1	WEBS 1 Row at midpt 12-14, 4-12
	JOINTS 1 Brace at Jt(s): 14

**REACTIONS.** (size) 12=0-3-8, 7=0-3-8  
 Max Horz 12=485(LC 13)  
 Max Uplift 12=228(LC 13)  
 Max Grav 12=1176(LC 20), 7=1012(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 4-6=-1084/0, 6-7=-1401/0  
 BOT CHORD 11-12=0/703, 7-11=0/1096  
 WEBS 4-11=0/915, 6-11=-525/255, 4-12=-1131/309

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 5-10-13, Interior(1) 5-10-13 to 24-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=228.



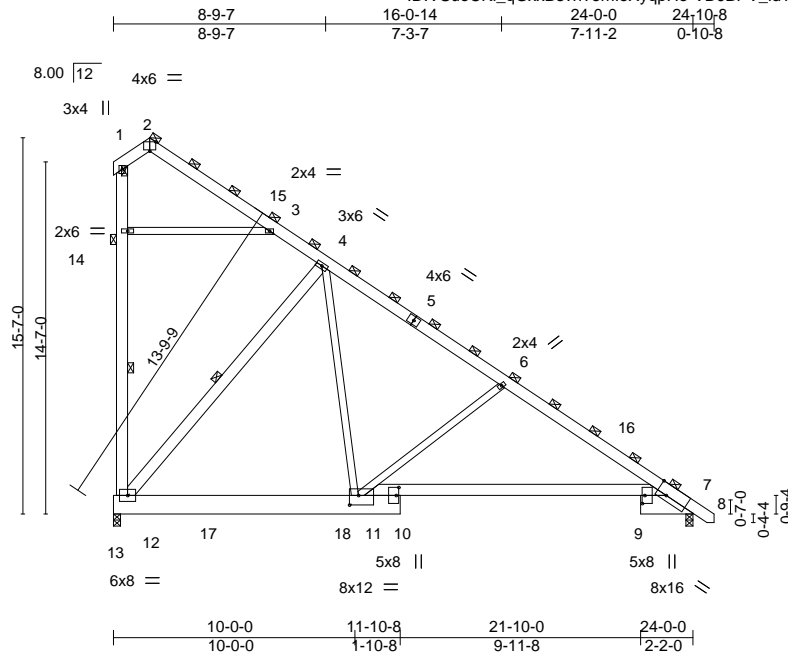
August 27, 2020

Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794370
J0820-3947	A6	COMMON	2	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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Scale: 1/8"=1'

Plate Offsets (X,Y)-- [2:0-3-0,Edge], [7:0-5-0,Edge], [9:0-4-0,0-1-4], [10:0-4-0,0-1-4], [11:0-4-8,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.15	7-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.53	Vert(CT) -0.37	7-11	>766	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.24	Horz(CT) 0.09	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07	7-11	>999	240	Weight: 502 lb	FT = 20%

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x10 SP No.1 \*Except\*  
 7-11: 2x6 SP No.1  
 WEBS 2x4 SP No.2 \*Except\*  
 1-12,4-12: 2x6 SP No.1

**BRACING-**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals  
 (Switched from sheeted: Spacing > 2-8-0).  
 Rigid ceiling directly applied or 10-0-0 oc bracing.  
 BOT CHORD  
 WEBS 1 Row at midpt 12-14, 4-12  
 JOINTS 1 Brace at Jt(s): 2, 1, 14

**REACTIONS.**

(size) 12=0-3-8, 7=0-3-8  
 Max Horz 12=-970(LC 13)  
 Max Uplift 12=-455(LC 13)  
 Max Grav 12=2352(LC 20), 7=2024(LC 20)

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

TOP CHORD 1-2=-367/247, 2-3=-273/45, 3-4=-325/10, 4-6=-2168/0, 6-7=-2802/0, 12-14=-447/281,  
 1-14=-448/282  
 BOT CHORD 11-12=0/1406, 7-11=0/2191  
 WEBS 4-11=0/1830, 6-11=-1049/510, 4-12=-2262/619

**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 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.  
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 5-10-13, Interior(1) 5-10-13 to 24-8-12 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=455.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 27, 2020

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPII Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932





Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794372
J0820-3947	B1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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0-10-8 15-7-8 20-6-0 25-4-8 41-0-0 41-10-8  
 0-10-8 15-7-8 4-10-8 4-10-8 15-7-8 0-10-8

Scale = 1:7.5

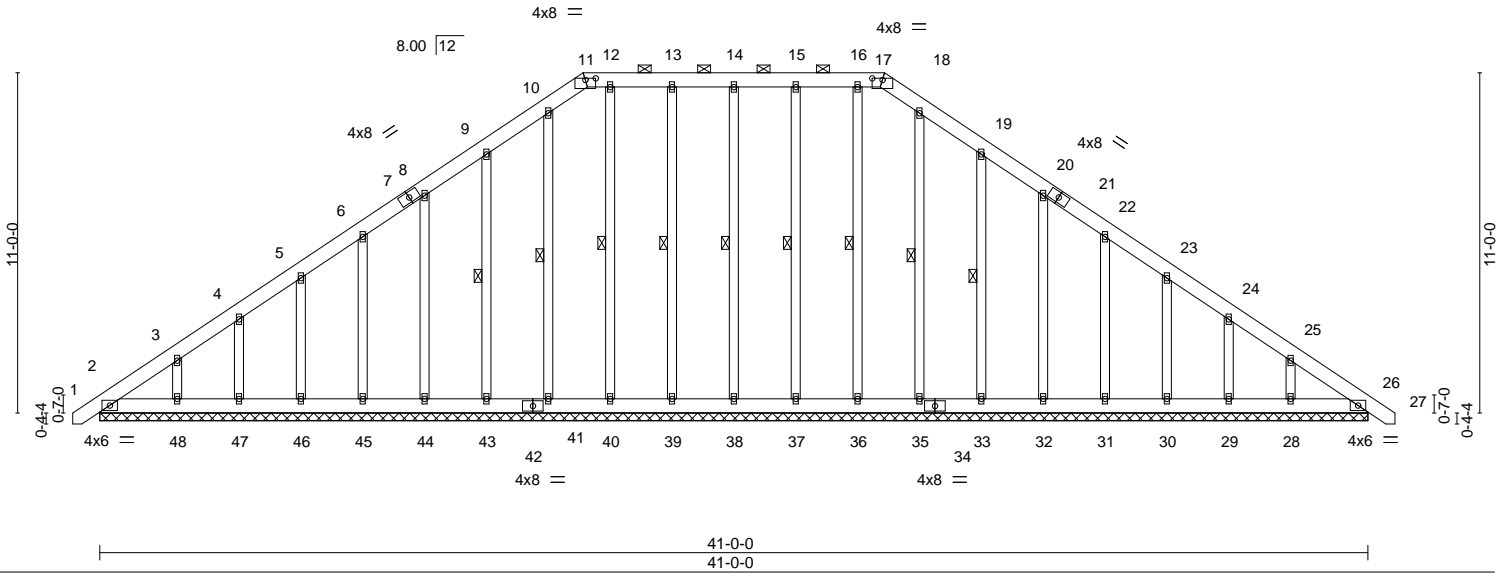


Plate Offsets (X,Y)-- [11:0-4-0,0-0-10], [17:0-4-0,0-0-10]

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 0.05	Vert(LL)	0.00	26	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	26	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.12	Horz(CT)	0.01	26	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 398 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 11-17.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 14-38, 13-39, 12-40, 10-41, 9-43, 15-37, 16-36, 18-35, 19-33

**REACTIONS.** All bearings 41-0-0.  
 (lb) - Max Horz 2=328(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 26, 38, 39, 40, 41, 43, 44, 45, 46, 47, 37, 36, 33, 32, 31, 30, 29 except 48=117(LC 12), 28=114(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 26, 38, 39, 40, 41, 43, 44, 45, 46, 47, 48, 37, 36, 35, 33, 32, 31, 30, 29, 28

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-3=-324/265, 9-10=-244/286, 10-11=-256/293, 11-12=-242/286, 12-13=-242/286, 13-14=-242/286, 14-15=-242/286, 15-16=-242/286, 16-17=-242/286, 17-18=-256/293, 18-19=-244/278

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-12 to 3-8-1, Exterior(2) 3-8-1 to 15-8-6, Corner(3) 15-8-6 to 20-1-2, Exterior(2) 20-1-2 to 25-3-10, Corner(3) 25-3-10 to 29-8-7, Exterior(2) 29-8-7 to 41-8-12 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.
  - 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 26, 38, 39, 40, 41, 43, 44, 45, 46, 47, 37, 36, 33, 32, 31, 30, 29 except (it=lb) 48=117, 28=114.
  - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



August 27, 2020

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

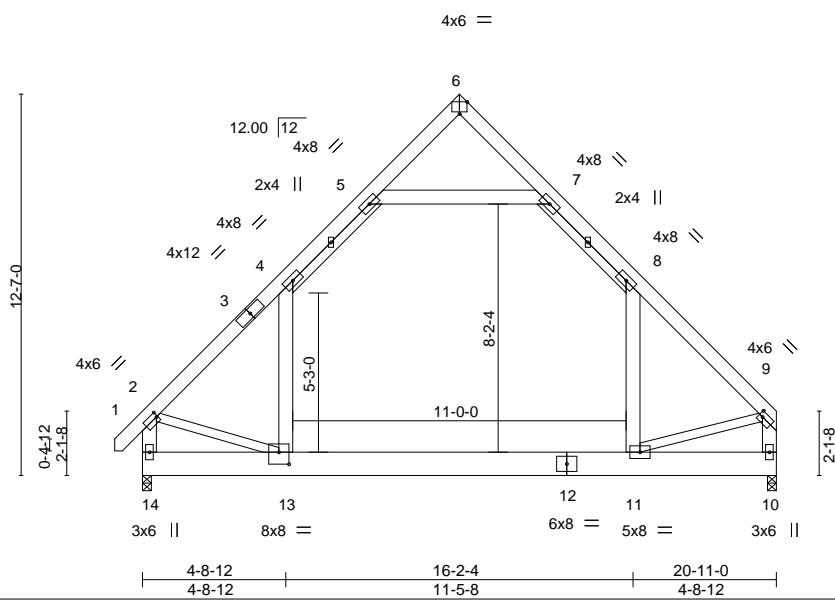
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794373
J0820-3947	C1	ATTIC	1	1		

Comtech, Inc., Fayetteville, NC - 28314, 8.330 s Jul 22 2020 MiTek Industries, Inc. Thu Aug 27 12:18:21 2020 Page 1  
 ID:VSuoCKi\_qGxxBsvh?omleXyqpHe-kyMbla5PVEb9rXTYyl9h3dmG7HT2MXeWclHpqEyjf\_W  
 0-11-0 4-8-12 7-8-8 10-5-8 13-2-8 16-2-4 20-11-0  
 0-11-0 4-8-12 2-11-12 2-9-0 2-9-0 2-11-12 4-8-12



Scale = 1:76.0

Plate Offsets (X,Y)-- [2:0-0-8,0-2-0], [6:0-3-0,Edge], [9:0-1-8,0-2-0], [13:0-4-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.75	Vert(LL)	-0.21 11-13	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.70	Vert(CT)	-0.35 11-13	>709	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Horz(CT)	0.01 10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.09 11-13	>999	240	Weight: 227 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x10 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 2-13,9-11,4-5,7-8: 2x4 SP No.2

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 4-8-2 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 14=0-3-8, 10=0-3-8  
 Max Horz 14=370(LC 10)  
 Max Grav 14=1421(LC 21), 10=1384(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 2-4=-1554/33, 4-5=-929/174, 7-8=-934/176, 8-9=-1539/23, 2-14=-1562/31, 9-10=-1521/11  
 BOT CHORD 13-14=-358/529, 11-13=0/956  
 WEBS 5-7=-1069/237, 4-13=-30/663, 8-11=-42/630, 2-13=-14/819, 9-11=0/876

- 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-9-8 to 3-7-5, Exterior(2) 3-7-5 to 10-5-8, Corner(3) 10-5-8 to 14-10-5, Exterior(2) 14-10-5 to 20-8-4 zone; end vertical 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-13, 8-11
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
  - Attic room checked for L/360 deflection.



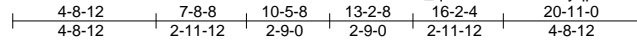
August 27, 2020

Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794374
J0820-3947	C2	ATTIC	8	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

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4x6 =

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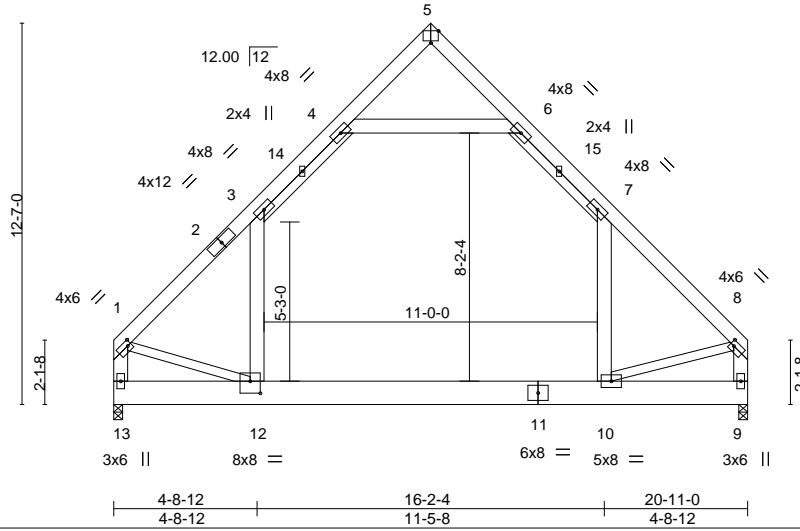


Plate Offsets (X,Y)-- [1:0-1-8,0-2-0], [5:0-3-0,Edge], [8:0-1-8,0-2-0], [12:0-4-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.73	Vert(LL)	-0.21	10-12	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.70	Vert(CT)	-0.35	10-12	>702		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Horz(CT)	0.01	9	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.07	10-12	>999	Weight: 224 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 1-12,8-10,3-4,6-7: 2x4 SP No.2	

**REACTIONS.** (size) 13=0-3-8, 9=0-3-8  
 Max Horz 13=245(LC 8)  
 Max Grav 13=1385(LC 21), 9=1385(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-1519/0, 3-4=-929/144, 6-7=-929/144, 7-8=-1518/0, 1-13=-1502/0, 8-9=-1503/0  
 BOT CHORD 12-13=-253/380, 10-12=0/934  
 WEBS 4-6=-1079/172, 3-12=-9/634, 7-10=-9/634, 1-12=0/840, 8-10=0/843

- 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; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-8-12, Interior(1) 4-8-12 to 10-5-8, Exterior(2) 10-5-8 to 14-10-5, Interior(1) 14-10-5 to 20-8-4 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-12, 7-10
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
  - Attic room checked for L/360 deflection.



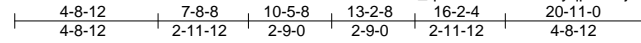
August 27, 2020

Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794375
J0820-3947	C3	ATTIC	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Thu Aug 27 12:18:25 2020 Page 1

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4x6 =

Scale = 1:76.0

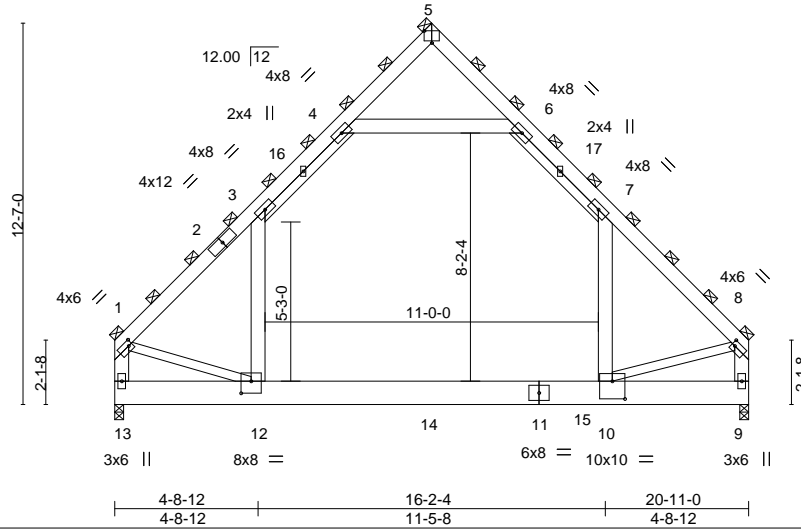


Plate Offsets (X,Y)-- [1:0-1-8,0-2-0], [5:0-3-0,Edge], [8:0-1-4,0-2-0], [10:0-5-0,0-7-0], [12:0-4-0,0-4-12]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	3-0-0	TC 0.93	Vert(LL)	-0.24	10-12	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.91	Vert(CT)	-0.38	10-12	>642		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.19	Horz(CT)	0.01	9	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.09	10-12	>999	Weight: 448 lb	FT = 20%
	Code IRC2015/TPI2014							

**LUMBER-**

TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x10 SP No.1  
 WEBS 2x6 SP No.1 \*Except\*  
 1-12,8-10,3-4,6-7: 2x4 SP No.2

**BRACING-**

TOP CHORD 2-0-0 oc purlins (6-0-0 max.), except end verticals  
 (Switched from sheeted: Spacing > 2-8-0).  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.**

(size) 13=0-3-8, 9=0-3-8  
 Max Horz 13=-368(LC 8)  
 Max Grav 13=2528(LC 21), 9=2685(LC 20)

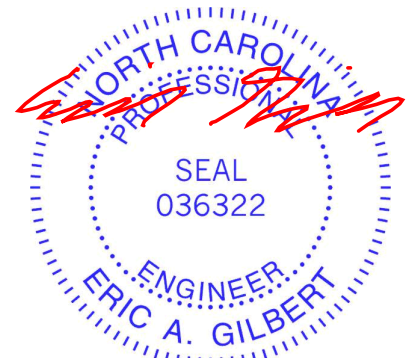
**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-3=-2954/20, 3-4=-1691/259, 4-5=-31/429, 5-6=-30/446, 6-7=-1675/257, 7-8=-2979/23,  
 1-13=-2935/28, 8-9=-2953/30  
 BOT CHORD 12-13=-379/604, 10-12=0/1811, 9-10=-97/389  
 WEBS 4-6=-2248/348, 3-12=-10/1405, 7-10=-8/1457, 1-12=0/1660, 8-10=0/1604

**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 0-9-0 oc.  
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-8-12, Interior(1) 4-8-12 to 10-5-8, Exterior(2) 10-5-8 to 14-10-5, Interior(1) 14-10-5 to 20-8-4 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Ceiling dead load (10.0 psf) on member(s), 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s),3-12, 7-10
- Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room, 10-12
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 529 lb down and 76 lb up at 10-4-0, and 529 lb down and 76 lb up at 13-7-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- Attic room checked for L/360 deflection.

**LOAD CASE(S)** Standard



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Continued on page 2

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818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794375
J0820-3947	C3	ATTIC	1	<b>2</b>	Job Reference (optional)	

Comtech, Inc, Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Thu Aug 27 12:18:25 2020 Page 2  
 ID:VSuoCKi\_qGxxBsvh?omleXyqpHe-djc67x8vZS5bK8nKBbEdDTxvHumhILG5XwF0z?yjf\_S

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 12-13=-30, 10-12=-60, 9-10=-30, 1-3=-90, 3-4=-120, 4-5=-90, 5-6=-90, 6-7=-120, 7-8=-90, 4-6=-30

Drag: 3-12=-15, 7-10=-15

Concentrated Loads (lb)

Vert: 14=-300(B) 15=-300(B)

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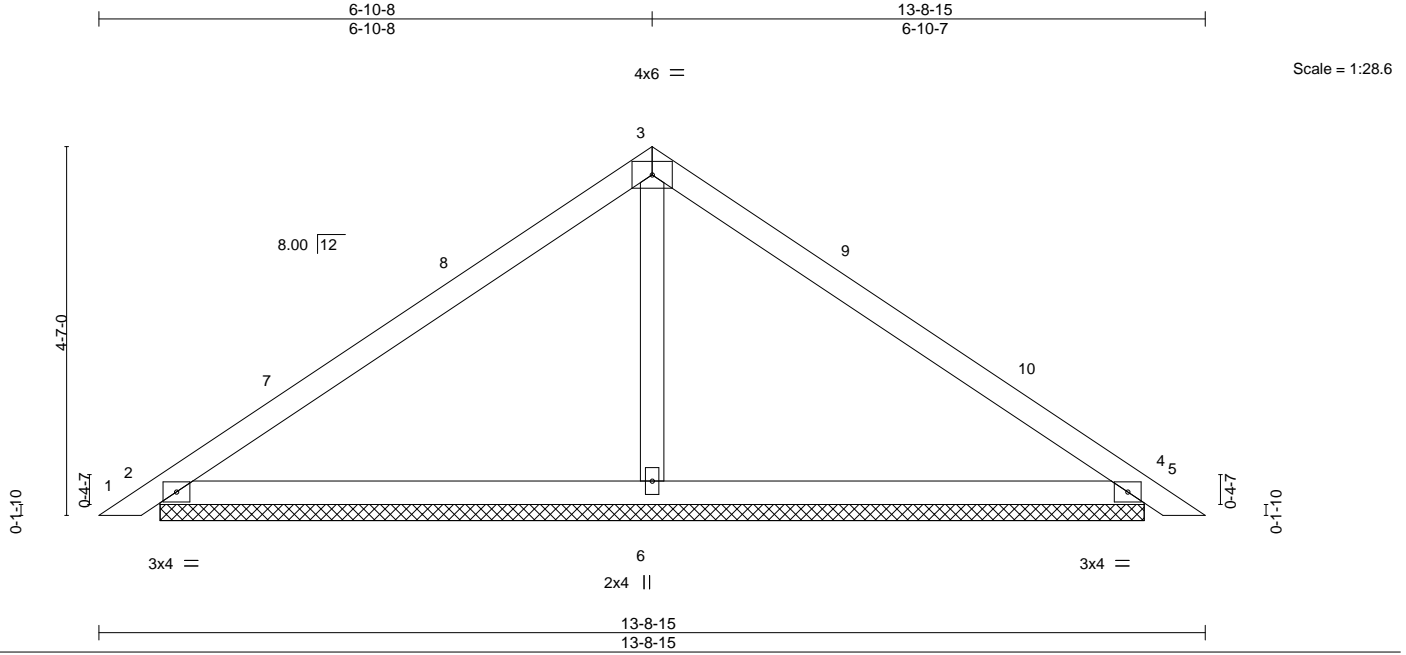


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Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794376
J0820-3947	PB	PIGGYBACK	9	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Thu Aug 27 12:18:26 2020 Page 1  
 ID:VSuoCKi\_qGxxBsvh?omleXyqpHe-5vAULH9XKmDSylLLWllsmhUCZIGr1p\_Fma\_aWSyjf\_R  
 13-8-15 6-10-7



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.39	Vert(LL)	0.02	5	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.27	Vert(CT)	0.03	5	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						Weight: 48 lb	FT = 20%
	Code IRC2015/TPI2014								

**LUMBER-**

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

**BRACING-**

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

**REACTIONS.**

(size) 2=12-2-11, 4=12-2-11, 6=12-2-11  
 Max Horz 2=106(LC 11)  
 Max Uplift 2=-37(LC 12), 4=-47(LC 13)  
 Max Grav 2=272(LC 1), 4=272(LC 1), 6=493(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-6=-304/119

**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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-2 to 4-7-15, Interior(1) 4-7-15 to 6-10-8, Exterior(2) 6-10-8 to 11-3-4, Interior(1) 11-3-4 to 13-5-13 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 27, 2020

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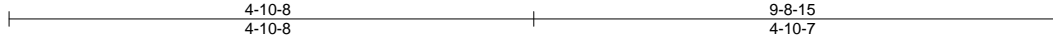


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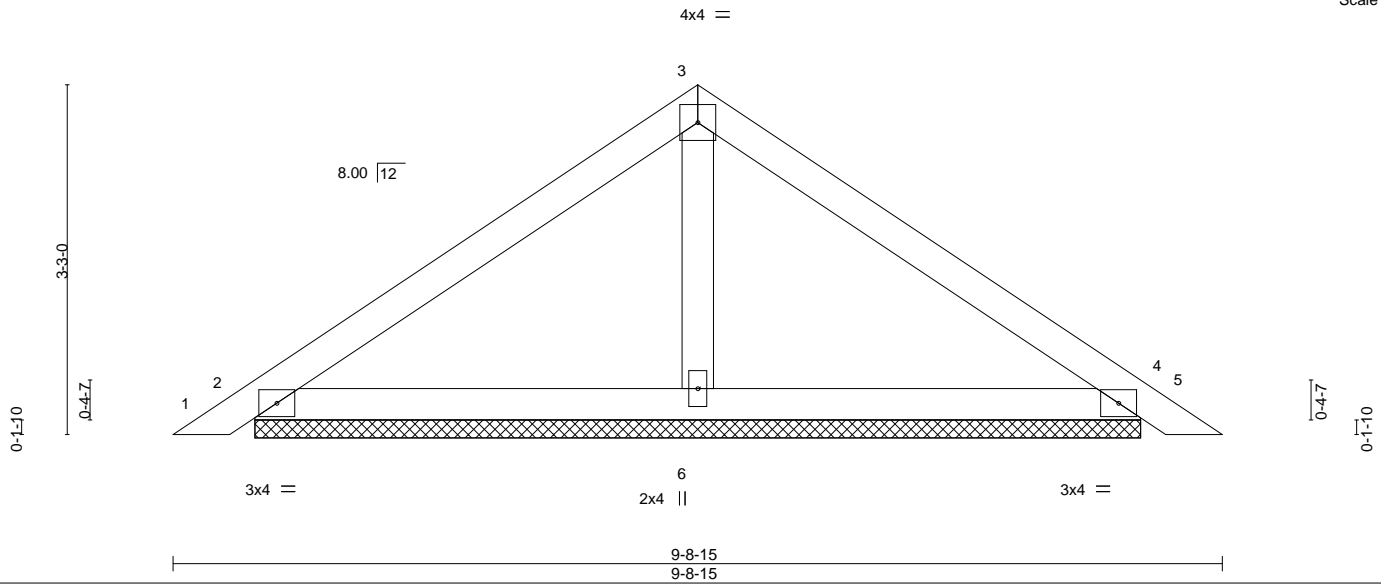
Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794377
J0820-3947	PBA	PIGGYBACK	5	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Thu Aug 27 12:18:27 2020 Page 1  
ID:VSuoCKi\_qGxxBsvh?omleXyqpHe-Z5jsYdAA54MJaSwii?G5Iu0QgiffMmHAO?Ek72uyjf\_Q



Scale = 1:21.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	Vert(LL)	0.01	5	n/r	120	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.13	Vert(CT)	0.02	5	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P						Weight: 33 lb	FT = 20%
	Code IRC2015/TPI2014								

**LUMBER-**

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

**BRACING-**

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

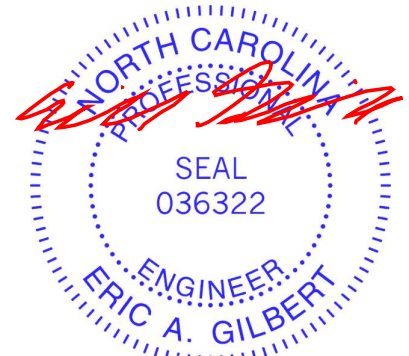
**REACTIONS.**

(size) 2=8-2-11, 4=8-2-11, 6=8-2-11  
Max Horz 2=-74(LC 10)  
Max Uplift 2=-36(LC 12), 4=-44(LC 13)  
Max Grav 2=211(LC 1), 4=211(LC 1), 6=297(LC 1)

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

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 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 where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



August 27, 2020

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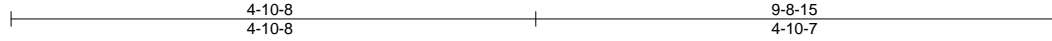
818 Soundside Road  
Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794378
J0820-3947	PBAGE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Thu Aug 27 12:18:28 2020 Page 1  
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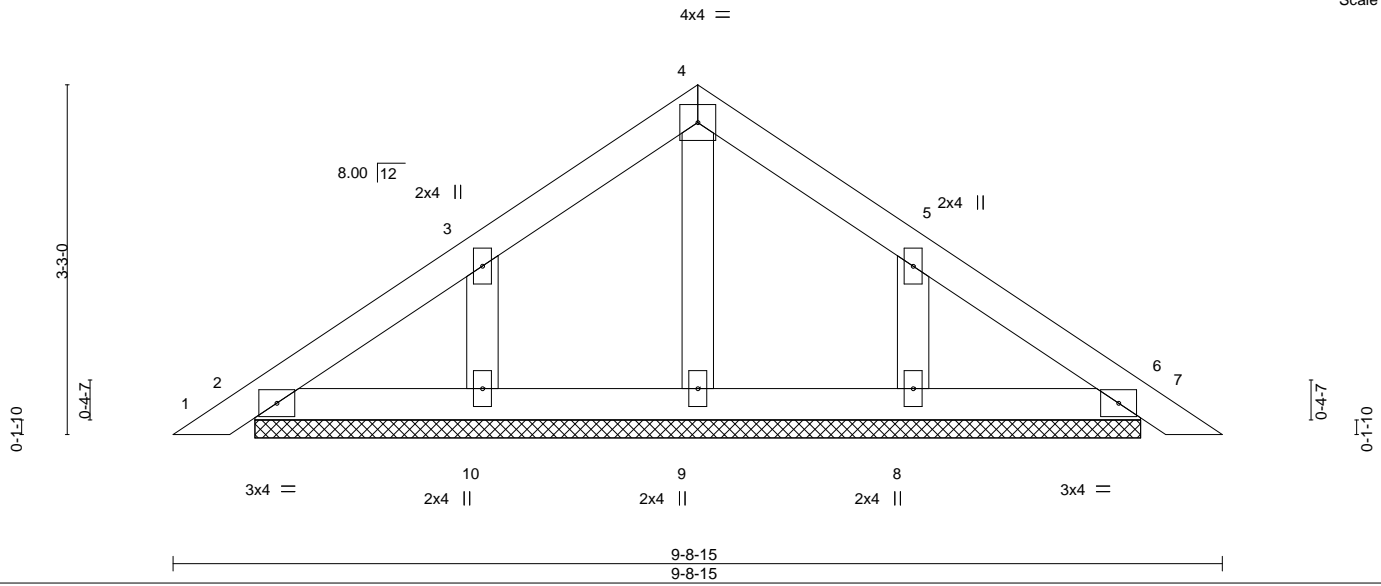


Plate Offsets (X,Y)-- [5:0-0-0,0-0-0]

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 0.05	Vert(LL)	0.00	6	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	6	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 37 lb	FT = 20%

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

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

**REACTIONS.** All bearings 8-2-11.  
 (lb) - Max Horz 2=92(LC 11)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=112(LC 12), 8=111(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

**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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=112, 8=111.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job	Truss	Truss Type	Qty	Ply	Southern Touch/1 Dry Creek Rd/Harnett	E14794379
J0820-3947	PBGE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Thu Aug 27 12:18:30 2020 Page 1  
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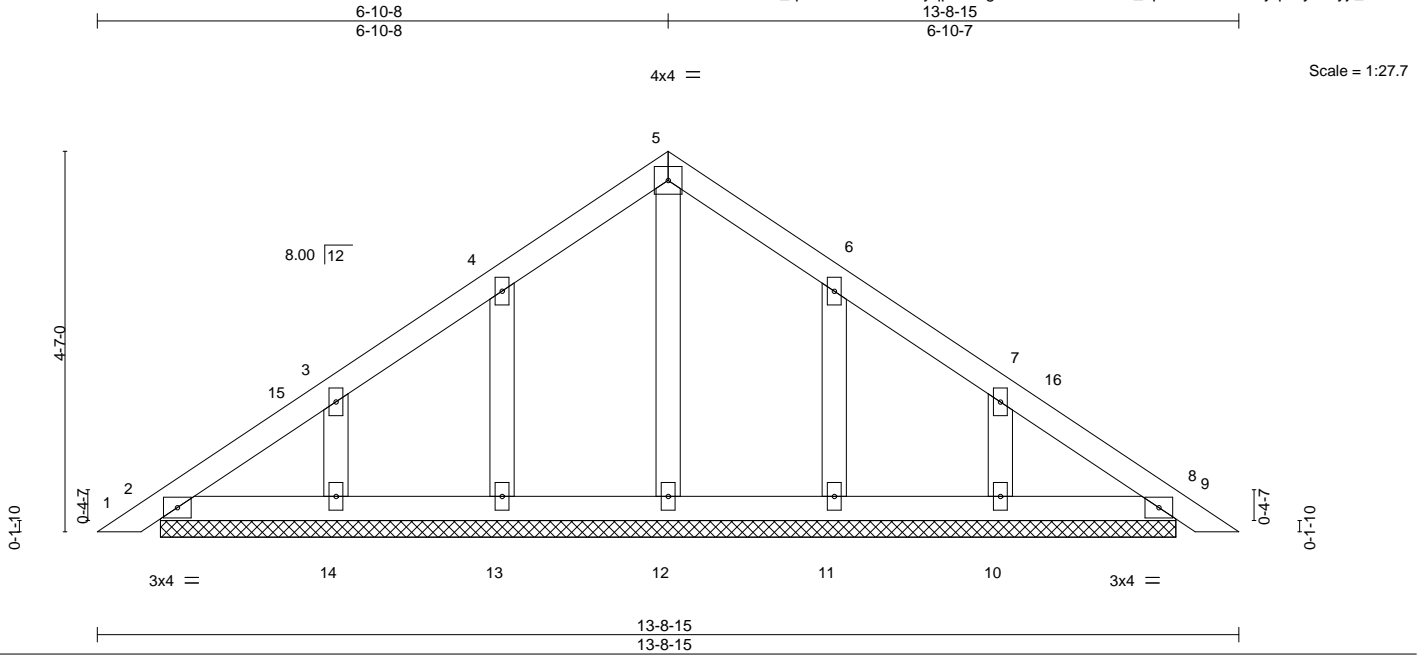


Plate Offsets (X,Y)-- [6:0-0-0,0-0-0], [7:0-0-0,0-0-0]

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 0.04	Vert(LL)	0.00	8	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	8	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 60 lb	FT = 20%

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

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

**REACTIONS.** All bearings 12-2-11.  
 (lb) - Max Horz 2=132(LC 10)  
 Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 11 except 14=101(LC 12), 10=101(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

- 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; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-3-2 to 4-10-8, Interior(1) 4-10-8 to 6-10-8, Exterior(2) 6-10-8 to 11-3-4, Interior(1) 11-3-4 to 13-5-13 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 11 except (jt=lb) 14=101, 10=101.
  - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



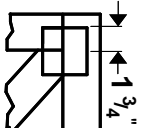
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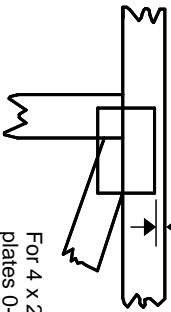


# Symbols

## PLATE LOCATION AND ORIENTATION



Center plate on joint unless x, y offsets are indicated. Dimensions are in ft-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



For 4 x 2 orientation, locate plates 0- 1/16" from outside edge of truss.



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

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

## PLATE SIZE

4 X 4

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

## LATERAL BRACING LOCATION



Indicated by symbol shown and/or by text in the bracing section of the output. Use T or I bracing if indicated.

## BEARING



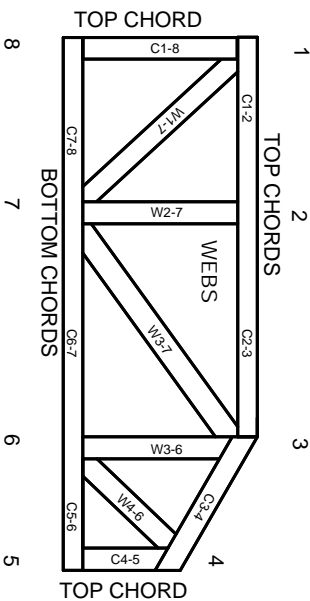
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

## Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.  
DSB-89: Design Standard for Bracing, Building Component Safety Information, Guide to Good Practice for Handling, Installing & Bracing of Metal Plate  
BCSI: Connected Wood Trusses.

# Numbering System

6-4-8  
dimensions shown in ft-in-sixteenths  
(Drawings not to scale)



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

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

## PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

Lumber design values are in accordance with ANSI/TP1 section 6.3 These truss designs rely on lumber values established by others.

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MITek Engineering Reference Sheet: Mill-7473 rev. 5/19/2020

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative T or I bracing should be considered.
3. Never exceed the design loading shown and never stack materials on inadequately braced trusses.
4. Provide copies of this truss design to the building designer, erection supervisor, property owner and all other interested parties.
5. Cut members to bear tightly against each other.
6. Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.