

Trenco

818 Soundside Rd
Edenton, NC 27932

Re: J0718-2990
Red Door\06-18-106 Shrader

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: E12816283 thru E12816295

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

North Carolina COA: C-0844



March 19, 2019

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Red Door/06-18-106 Shrader	E12816283
J0718-2990	A02	Roof Special	1	1	Job Reference (optional)	UNITS: 0.10

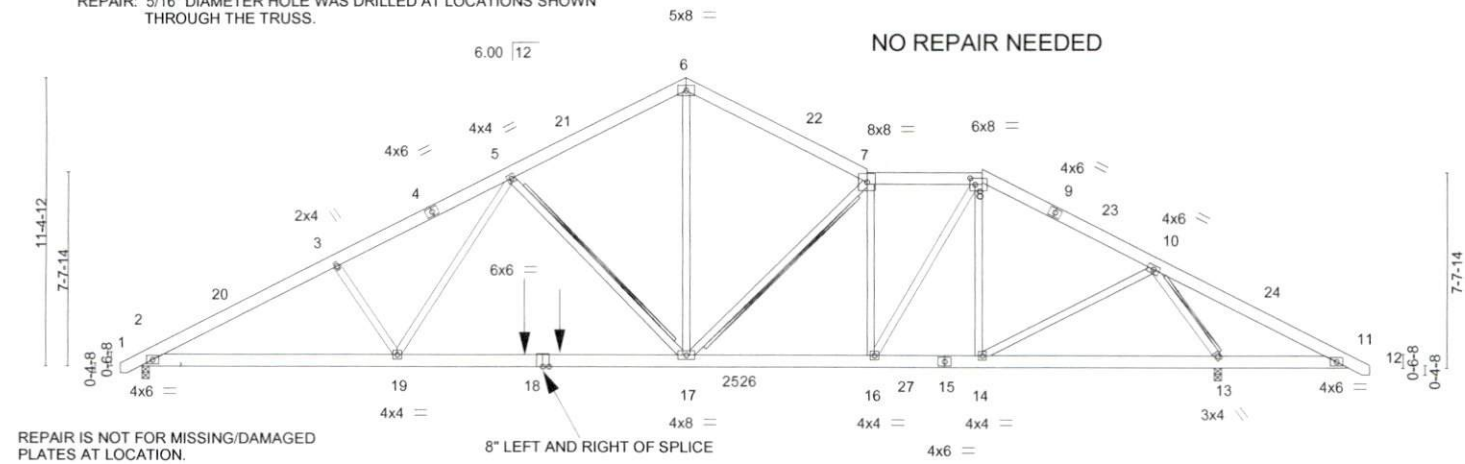
Comtech, Inc., Fayetteville, NC 28309 8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Mar 18 12:08:15 2019 Page 1
 ID:sbgrhUmUETctG57n8vo3Fcz32aV-1dc_RzJpVivPU?vNcmF8ujxi9UXBo3AlwGkGtzZiW_



Scale = 1:87.9

REPAIR: 5/16" DIAMETER HOLE WAS DRILLED AT LOCATIONS SHOWN THROUGH THE TRUSS.

NO REPAIR NEEDED



Job	Truss	Truss Type	Qty	Ply	Red Door/06-18-106 Shrader	E12816284
J0718-2990	A03	Roof Special	1	1	Job Reference (optional)	UNITS: 0.10

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Mar 18 12:08:17 2019 Page 1
 ID: sbgrhUmUETctG57n8vo3Fc32aV-z?kiseKfQ4zden9UcjpDjPEVYCLfiUTDEirKmzZIVy

0-10-8	7-9-11	14-9-1	21-8-8	30-11-0	35-6-0	41-3-14	48-0-0	48-10-8
0-10-8	7-9-11	6-11-7	6-11-7	9-2-8	4-7-0	5-9-14	6-8-2	0-10-8

Scale = 1:87.9

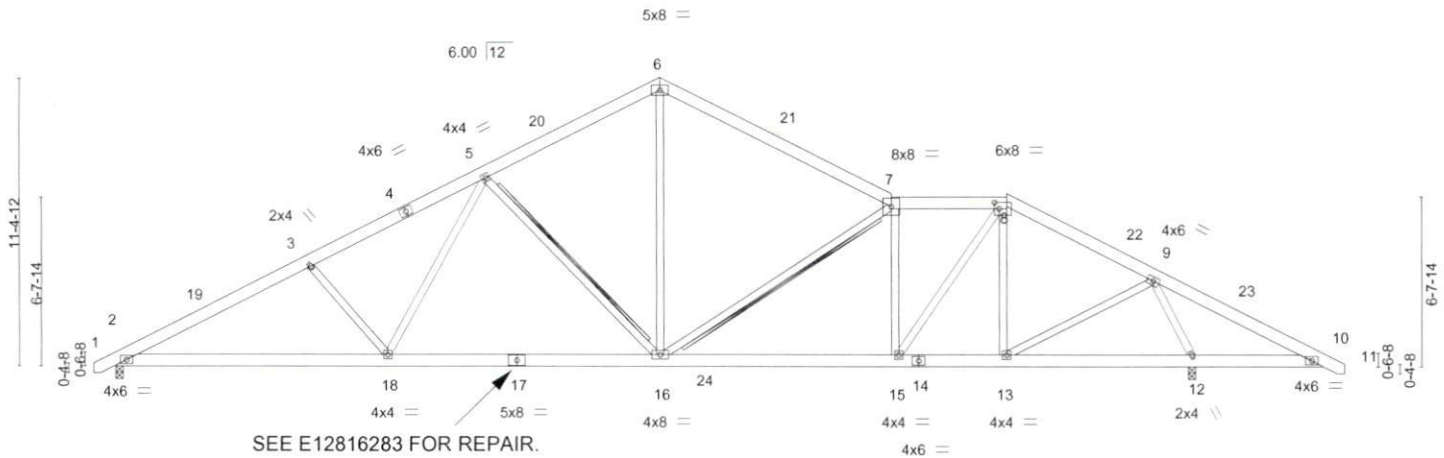


Plate Offsets (X,Y)--	[8:0-2-4,0-3-0]
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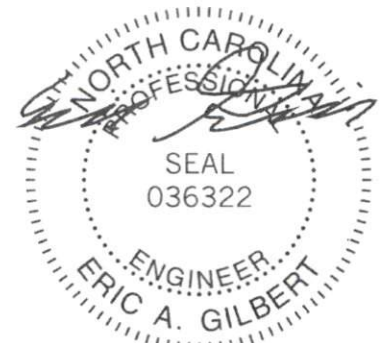
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.25 16-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.58	Vert(CT)	-0.39 16-18	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.66	Horz(CT)	0.08 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.08 16-18	>999	240	Weight: 349 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-0-13 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (5-2-0 max.); 7-8.
WEBS 2x4 SP No.3 *Except*	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-16,7-16: 2x4 SP No.2	6-0-0 oc bracing: 10-12.
	T-Brace: 2x4 SPF No.2 - 5-16, 7-16
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS. (lb/size) 2=1738/0-3-8, 12=2188/0-3-8
 Max Horz 2=-146(LC 10)
 Max Uplift 2=-117(LC 12), 12=-159(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3199/655, 3-5=-2957/639, 5-6=-1980/555, 6-7=-2010/512, 7-8=-2244/550,
 8-9=-1824/397, 9-10=-497/584
 BOT CHORD 2-18=-426/2845, 16-18=-250/2280, 15-16=-286/2265, 13-15=-130/1543, 12-13=0/540,
 10-12=-430/528
 WEBS 3-18=-399/248, 5-18=-63/758, 5-16=-806/275, 6-16=-202/1297, 7-16=-743/260,
 7-15=-887/322, 8-15=-301/1212, 8-13=-473/218, 9-13=-269/1166, 9-12=-2215/772

- 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) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 21-8-8, Exterior(2) 21-8-8 to 26-1-5, Interior(1) 30-11-0 to 48-8-14 zone; cantilever right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=117, 12=159.
 - 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.



March 19,2019

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.

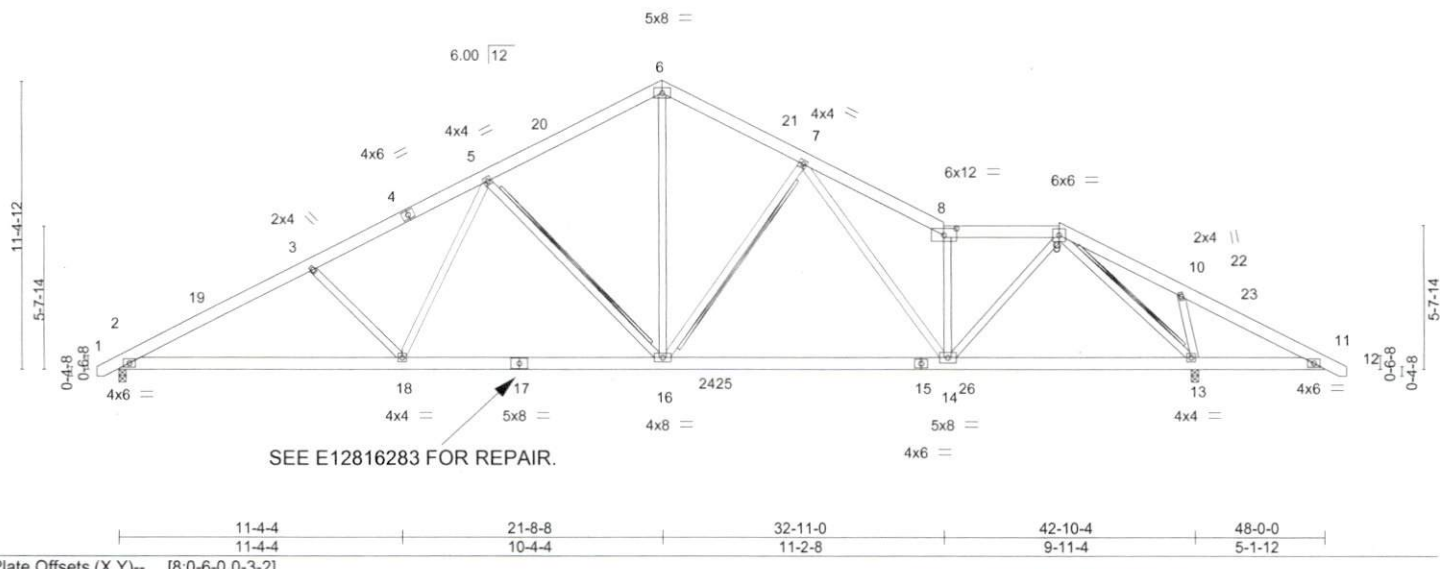


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Red Door 06-18-106 Shrader	E12816285
J0718-2990	A04	Roof Special	1	1		UNITS: 0.10
Comtech, Inc., Fayetteville, NC 28309					8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Mar 18 12:08:20 2019 Page 1	
					ID: sbgrhUmUETctG57n8vo3Fcz32aV-OaPtUgMXj?LBVft9IMQrxQnIACLS0cvvB_Vx5zZiVv	

0-10-8	7-9-11	14-9-1	21-8-8	27-3-12	32-11-0	37-6-0	42-3-14	48-0-0	48-10-8
0-10-8	7-9-11	6-11-7	6-11-7	5-7-4	5-7-4	4-7-0	4-9-14	5-8-2	0-10-8

Scale = 1:87.9



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.32	Vert(LL)	-0.26 14-16	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.68	Vert(CT)	-0.45 14-16	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.09 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.09 14-16	>999	240	Weight: 350 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-11-7 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (4-8-12 max.): 8-9.
WEBS 2x4 SP No.3 *Except*	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-16: 2x4 SP No.2	6-0-0 oc bracing: 11-13.
	T-Brace: 2x4 SPF No.2 - 5-16, 7-16, 9-13
	Fasten (2X) T and I braces to narrow edge of web with 10D (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS. (lb/size) 2=1734/0-3-8, 13=2192/0-3-8
 Max Horz 2=146(LC 11)
 Max Uplift 2=-117(LC 12), 13=-160(LC 13)
 Max Grav 2=1818(LC 2), 13=2234(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3378/648, 3-5=-3130/615, 5-6=-2239/540, 6-7=-2222/529, 7-8=-3055/612, 8-9=-2643/477, 9-10=-261/333, 10-11=-481/498
 BOT CHORD 2-18=-420/3020, 16-18=-242/2502, 14-16=-202/2271, 13-14=-100/1491, 11-13=-361/504
 WEBS 3-18=-409/247, 5-18=-49/678, 5-16=-799/283, 6-16=-282/1631, 7-16=-628/264, 7-14=-88/727, 8-14=-1591/392, 9-14=-271/1785, 9-13=-2389/616, 10-13=-468/313

- 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) 0-8-14 to 3-7-15, Interior(1) 3-7-15 to 21-8-8, Exterior(2) 21-8-8 to 26-1-5, Interior(1) 32-11-0 to 48-8-14 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=117, 13=160.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) 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. 10/03/2015 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate
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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Red Door/06-18-106 Shrader	E12816286
J0718-2990	A05	Roof Special	1	1		UNITS: 0.10

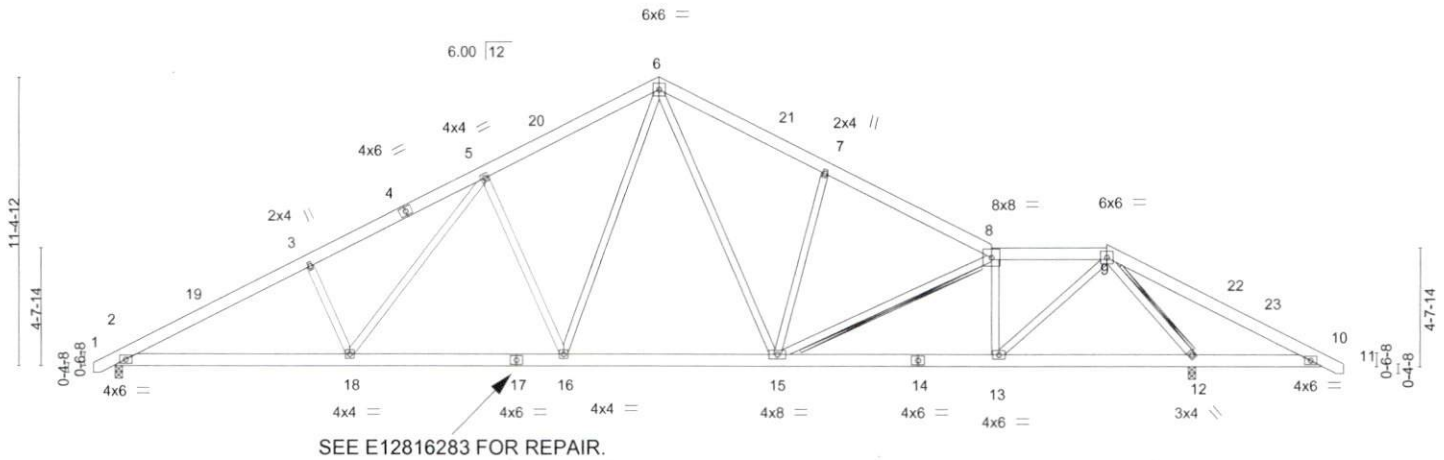
Comtech, Inc., Fayetteville, NC 28309

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ID:sbgrhUmUETctG57n8vo3FcZ32aV-GLfOK1P2nDrd_sBeOaRM?nbS6nc2oq6Vqpyi4szZIVr

-0-10-8	7-9-11	14-9-1	21-8-8	28-3-12	34-11-0	39-6-0	48-0-0	48-10-8
0-10-8	7-9-11	6-11-7	6-11-7	6-7-4	6-7-4	4-7-0	8-6-0	0-10-8

Scale = 1:87.9



9-4-7	17-10-10	26-4-13	34-11-0	42-10-4	48-0-0
9-4-7	8-6-3	8-6-3	8-6-3	7-11-4	5-1-12

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.33	Vert(LL)	-0.17 16-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.29 16-18	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.86	Horz(CT)	0.09 12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.08 16	>999	240	Weight: 352 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-11-3 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (4-10-15 max.): 8-9.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-16,6-15: 2x4 SP No.2	6-0-0 oc bracing: 10-12.
	WEBS T-Brace: 2x4 SPF No.2 - 8-15, 9-12
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS. (lb/size) 2=1741/0-3-8, 12=2184/0-3-8
 Max Horz 2=-146(LC 10)
 Max Uplift 2=-117(LC 12), 12=-159(LC 13)
 Max Grav 2=1821(LC 2), 12=2184(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3425/624, 3-5=-3272/679, 5-6=-2516/611, 6-7=-2465/616, 7-8=-2533/528,
 8-9=-2492/448, 9-10=-541/692
 BOT CHORD 2-18=-398/3042, 16-18=-243/2479, 15-16=-63/1829, 13-15=-260/2532, 12-13=-63/1131,
 10-12=-520/591
 WEBS 3-18=-381/239, 5-18=-139/747, 5-16=-708/302, 6-16=-190/1157, 6-15=-195/859,
 7-15=-405/259, 8-15=-434/80, 8-13=-1189/344, 9-13=-311/1885, 9-12=-2512/860

- 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) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 21-8-8, Exterior(2) 21-8-8 to 26-1-5, Interior(1) 34-11-0 to 48-8-14 zone; cantilever right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=117, 12=159.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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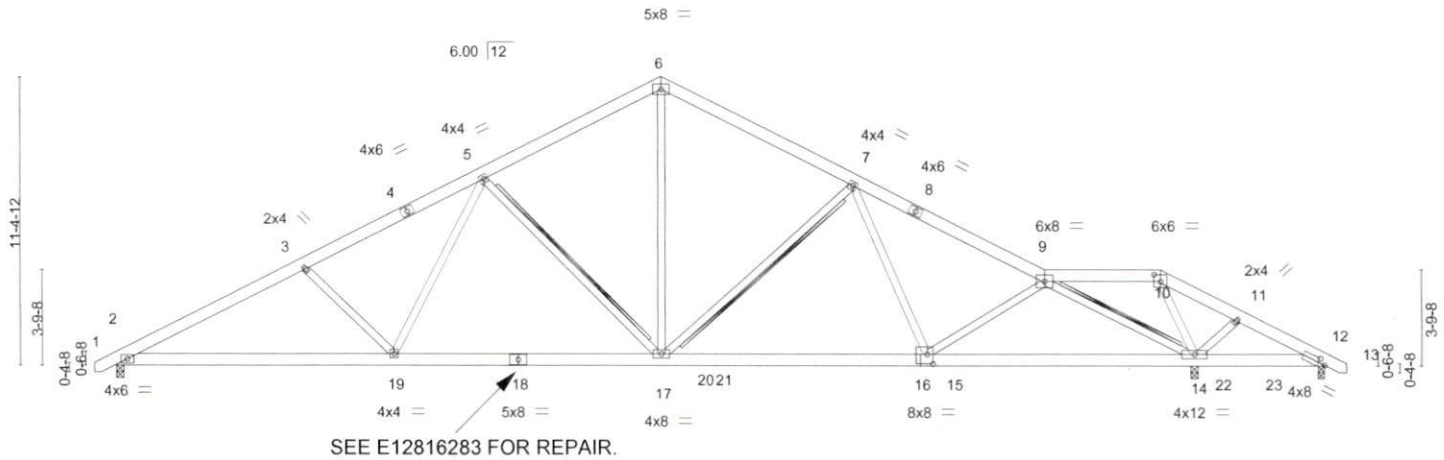
Job	Truss	Truss Type	Qty	Ply	Red Door/06-18-106 Shrader	E12816287
J0718-2990	A06	Roof Special Girder	1	1	Job Reference (optional)	UNITS: 0.10

Comtech, Inc., Fayetteville, NC 28309

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 ID: sbgrhUmUETctG57n8vo3Fcz32aV-Ckn8jRlJr5LDAL0W?Tq4CgngbFSGkhoH7Rp8kzVp

-0-10-8	7-6-11	14-7-9	21-8-8	29-3-12	36-11-0	41-6-0	44-6-2	48-0-0	48-10-8
0-10-8	7-6-11	7-0-15	7-0-15	7-7-4	7-7-4	4-7-0	3-0-2	3-5-14	0-10-8

Scale = 1:87.8



	11-0-14	21-8-8	32-3-2	42-10-4	48-0-0
	11-0-14	10-7-10	10-6-10	10-7-2	5-1-12
Plate Offsets (X,Y)--	[10:0-3-0,0-3-4],	[12:0-3-4,0-2-0],	[15:0-2-12,0-4-8],	[16:0-0-0,0-2-12]	

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 0.39	Vert(LL)	-0.22 17-19	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.36 15-17	>999	240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.86	Horz(CT)	0.08 14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.08 15-17	>999	240	Weight: 342 lb	FT = 20%

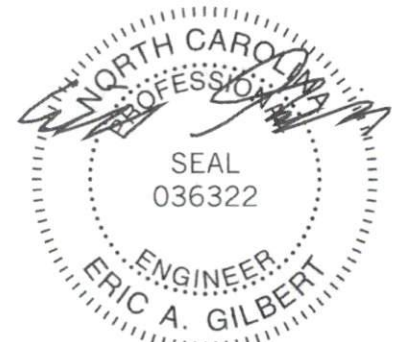
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-1-8 oc purlins, except 2-0-0 oc purlins (10-0-0 max.); 9-10.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 5-8-9 oc bracing: 12-14.
WEBS 2x4 SP No.3 *Except* 6-17: 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 5-17, 7-17 2x6 SPF No.2 - 9-14
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (lb/size) 2=1648/0-3-8, 14=3302/0-3-8 (req. 0-4-1), 12=607/0-3-0
 Max Horz 2=-146(LC 6)
 Max Uplift 2=-115(LC 27), 14=-202(LC 9), 12=-882(LC 15)
 Max Grav 2=1718(LC 2), 14=3435(LC 2), 12=111(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3180/223, 3-5=-2935/202, 5-6=-2009/186, 6-7=-2020/192, 7-9=-2277/157,
 9-10=-19/1467, 10-11=-104/2260, 11-12=-98/2098
 BOT CHORD 2-19=-247/2850, 17-19=-106/2314, 15-17=0/2006, 14-15=-60/1477, 12-14=-1783/119
 WEBS 3-19=-403/198, 5-19=-5/693, 5-17=-810/209, 6-17=-53/1385, 7-17=-511/204,
 9-15=0/650, 9-14=-3360/210, 10-14=-1304/127, 11-14=-319/108

- 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); Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=115, 14=202, 12=882.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 210 lb down and 30 lb up at 43-11-4, and 210 lb down and 30 lb up at 45-11-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - 11) 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
 Continued on page 2



March 19, 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	Truss	Truss Type	Qty	Ply	Red Door/06-18-106 Shrader	E12816287
J0718-2990	A06	Roof Special Girder	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

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 ID:sbgrhUmUETctG57n8vo3Fcz32aV-Ckn8lJRIJr5LDAL0W?Tq4CgngbFSGkhoH7Rp8kzZiVp

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-60, 6-9=-60, 9-10=-60, 10-13=-60, 2-12=-20

Concentrated Loads (lb)

Vert: 22=-210(F) 23=-210(F)

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Red Door/06-18-106 Shrader	E12816288
J0718-2990	A07	COMMON	3	1		UNITS: 0.10
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

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Scale = 1:73.3

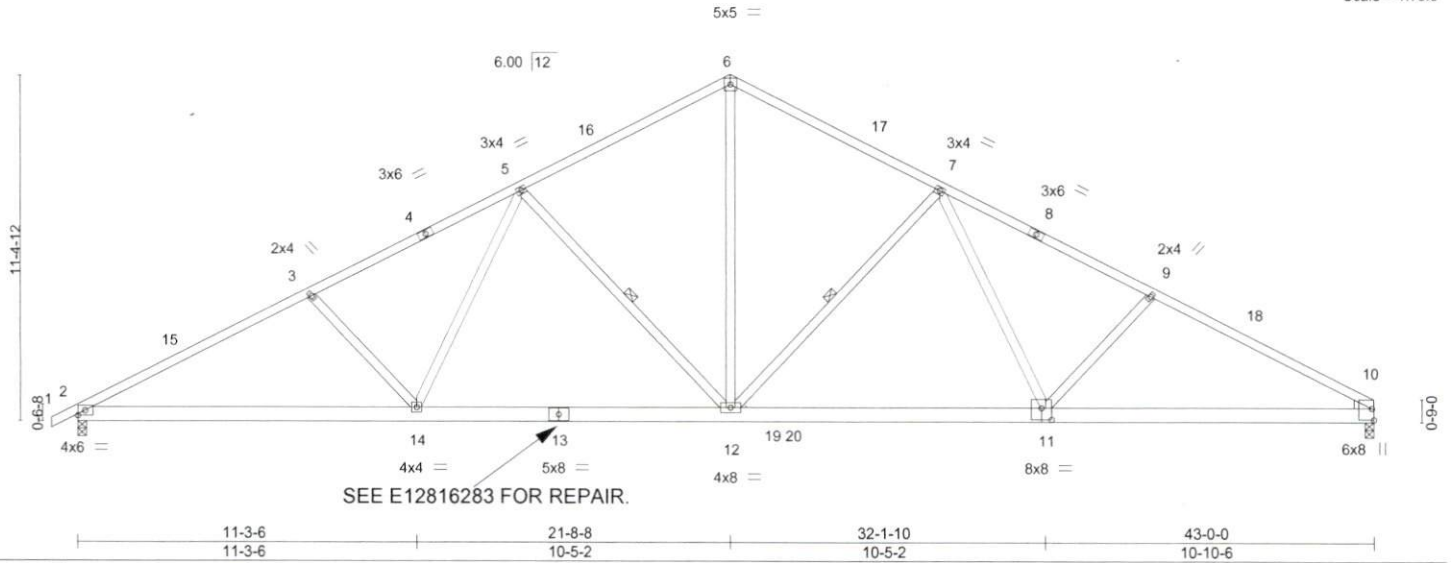


Plate Offsets (X,Y)--	[10:Edge,0-0-12], [10:0-0-6,0-5-7], [10:0-0-3,0-0-6], [11:0-4-0,0-4-8]
-----------------------	--

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.88	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.67	Vert(LL) -0.26 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.57	Vert(CT) -0.42 12-14 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.10 10 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.10 12 >999 240	Weight: 259 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
6-12: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 7-12, 5-12

WEDGE
Right: 2x4 SP No.3

REACTIONS. (lb/size) 2=1770/0-3-8, 10=1708/0-3-8
Max Horz 2=148(LC 9)
Max Uplift 2=-118(LC 12), 10=-101(LC 13)
Max Grav 2=1846(LC 2), 10=1800(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3386/645, 3-5=-3141/624, 5-6=-2257/554, 6-7=-2257/559, 7-9=-3069/633, 9-10=-3289/651
BOT CHORD 2-14=-450/2977, 12-14=-294/2499, 11-12=-288/2429, 10-11=-456/2802
WEBS 6-12=-270/1623, 7-12=-750/272, 7-11=-52/601, 9-11=-298/239, 5-12=-798/280, 5-14=-48/676, 3-14=-360/232

- 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) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 21-8-8, Exterior(2) 21-8-8 to 26-1-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=118, 10=101.



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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Red Door/06-18-106 Shrader	E12816289
J0718-2990	A08	COMMON	1	1		UNITS: 0.10

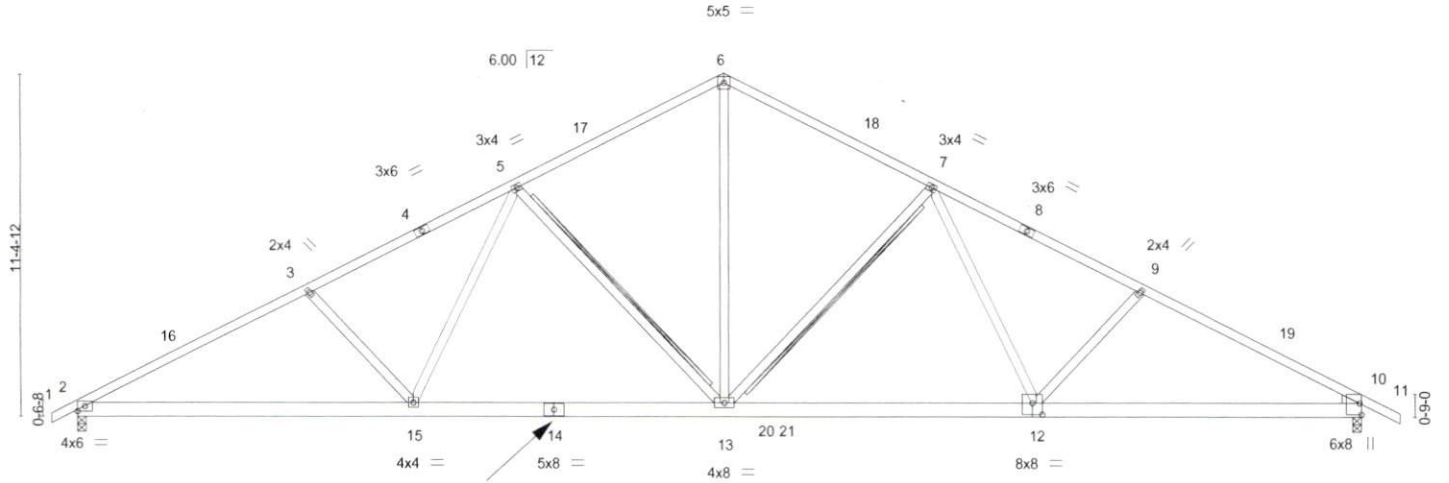
Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Mar 18 12:08:30 2019 Page 1

ID:sbgrhUmUETctG57n8vo3Fcc32aV-5V0fb5UpN3bneolrYmF2rNyCbDCdINCIP1HVzZVI

0-10-8	7-9-11	14-9-1	21-8-8	28-7-15	35-7-5	43-0-0	44-3-8
0-10-8	7-9-11	6-11-7	6-11-7	6-11-7	6-11-7	7-4-11	1-3-8

Scale = 1:74.0



SEE E12816283 FOR REPAIR.

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.82	Vert(LL)	-0.26 13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.71	Vert(CT)	-0.42 13-15	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.10 10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.10 13	>999	240	Weight: 261 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.3 *Except*
 6-13: 2x4 SP No.2

WEDGE

Right: 2x4 SP No.3

REACTIONS.

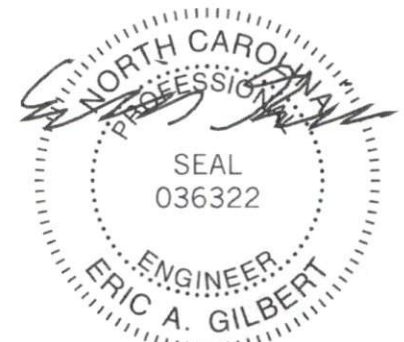
(lb/size) 2=1769/0-3-8, 10=1795/0-3-8
 Max Horz 2=-147(LC 10)
 Max Uplift 2=-118(LC 12), 10=-121(LC 13)
 Max Grav 2=1845(LC 2), 10=1873(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3383/644, 3-5=-3138/624, 5-6=-2254/553, 6-7=-2254/551, 7-9=-3059/601,
 9-10=-3277/612
 BOT CHORD 2-15=-440/2979, 13-15=-275/2501, 12-13=-279/2425, 10-12=-415/2787
 WEBS 6-13=-266/1621, 7-13=-748/273, 7-12=-26/594, 9-12=-285/207, 5-13=-798/281,
 5-15=-48/676, 3-15=-360/232

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) 0-10-8 to 3-6-5, Interior(1) 3-6-5 to 21-8-8, Exterior(2) 21-8-8 to 26-1-5 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=118, 10=121.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



March 19, 2019

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

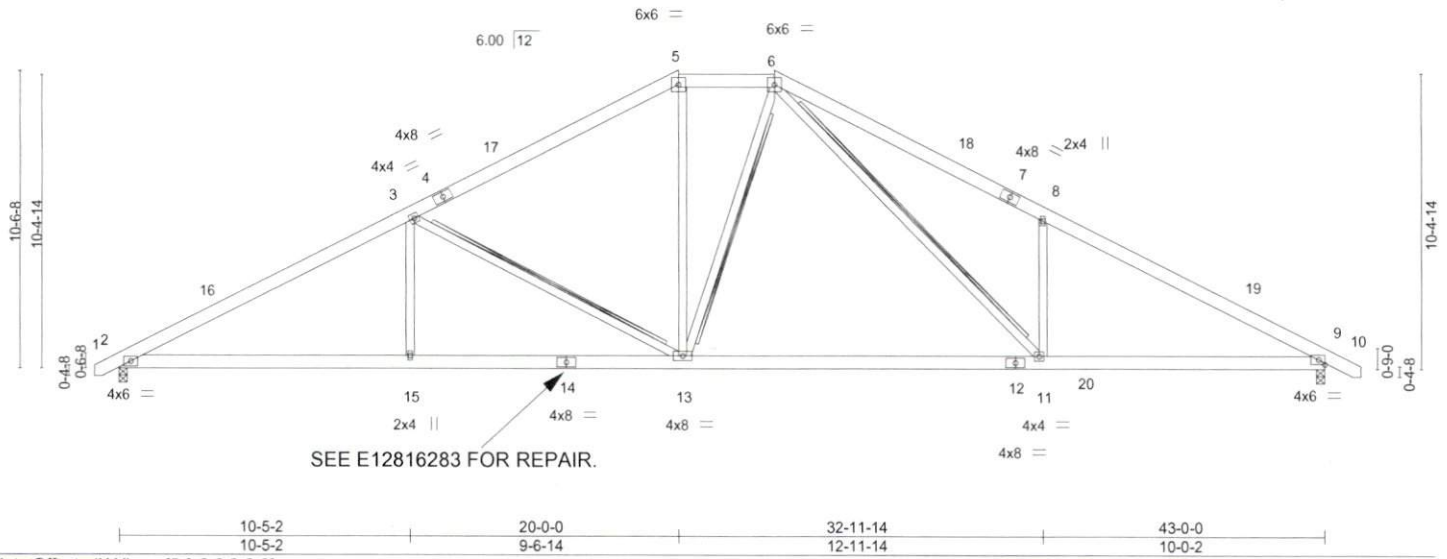
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall 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	Truss	Truss Type	Qty	Ply	Red Door/06-18-106 Shrader	E12816290
J0718-2990	A09	Hip	1	1		UNITS: 0.10
Comtech, Inc., Fayetteville, NC 28309					8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Mar 18 12:08:32 2019 Page 1	
					ID:sbgrhUmUETctG57n8vo3FcZ32aV-1u8Q0nW3uhsUx5oAsGaEKTwas?ltgVVgf3u8MOzZIVj	
-0-10-8		10-5-2	20-0-0	23-5-0	32-11-14	43-0-0
0-10-8		10-5-2	9-6-14	3-5-0	9-6-14	10-0-2
						44-3-8
						1-3-8

Scale = 1:78.8



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)	-0.38 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.70	Vert(CT)	-0.61 11-13	>842	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.09 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.09 11	>999	240	Weight: 297 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.3 *Except*
3-13,6-11: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-9-12 oc purlins, except 2-0-0 oc purlins (5-6-10 max.): 5-6. Rigid ceiling directly applied or 10-0-0 oc bracing.
BOT CHORD T-Brace: 2x4 SPF No.2 - 3-13, 6-13, 6-11
WEBS Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (lb/size) 2=1761/0-3-8, 9=1787/0-3-8
Max Horz 2=-134(LC 10)
Max Uplift 2=-108(LC 12), 9=-112(LC 13)
Max Grav 2=1761(LC 1), 9=1791(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-3121/680, 3-5=-2277/606, 5-6=-1940/615, 6-8=-3190/885, 8-9=-3225/653
BOT CHORD 2-15=-489/2671, 13-15=-489/2671, 11-13=-213/1889, 9-11=-457/2753
WEBS 3-15=0/411, 3-13=-951/332, 5-13=-121/681, 6-13=-111/338, 6-11=-352/1301, 8-11=-571/396

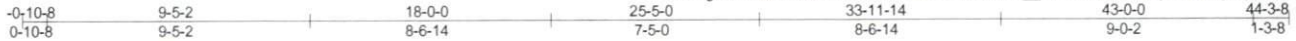
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 20-0-0, Exterior(2) 20-0-0 to 23-5-0, Interior(1) 29-7-11 to 44-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=108, 9=112.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



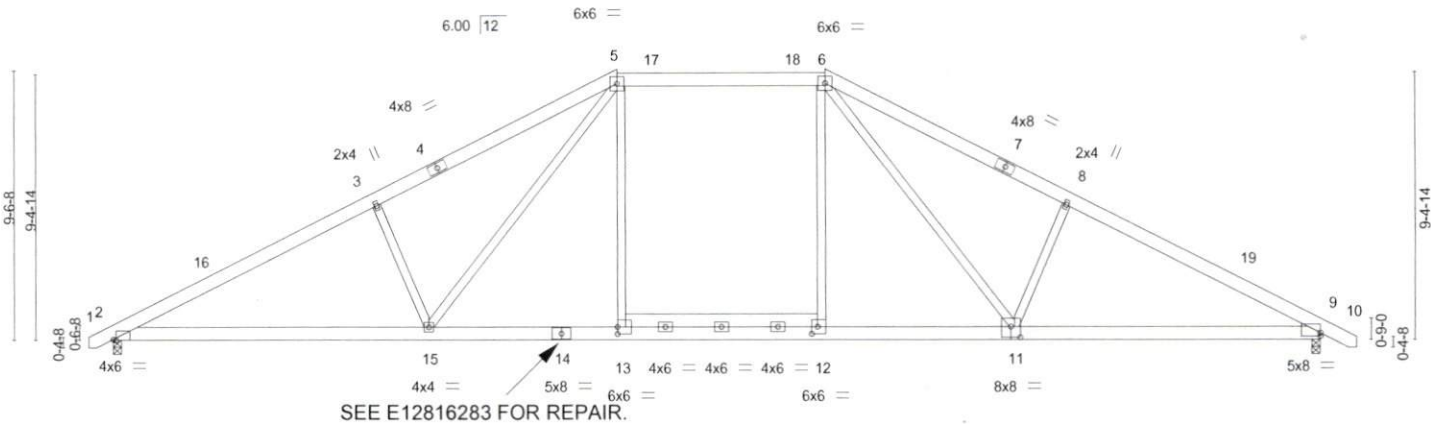
Job	Truss	Truss Type	Qty	Ply	Red Door/06-18-106 Shrader	E12816291
J0718-2990	A10	Hip	1	1		UNITS: 0.10

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Mar 18 12:08:33 2019 Page 1
 ID:sbgrhUmUETctG57n8vo3Fcz32aV-V4ioD6Whf_LZFNNQz5TshTyIpcOPzgpjujehuzZiVi



Scale = 1:78.6



11-3-6	18-0-0	21-8-8	25-5-0	32-1-10	43-0-0
11-3-6	6-8-10	3-8-8	3-8-8	6-8-10	10-10-6
Plate Offsets (X,Y)--	[2:0-1-2,Edge], [9:0-0-0,0-1-7], [11:0-4-0,0-4-8], [12:0-2-8,0-3-0], [13:0-0-0,0-3-0]				

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.53	Vert(LL) -0.29 13-15	>999 360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT) -0.42 13-15	>999 240		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.58	Horz(CT) 0.11 9	n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL) 0.16 13-15	>999 240	Weight: 305 lb	FT = 20%

LUMBER-	BRACING-	
TOP CHORD 2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 3-6-8 oc purlins, except
BOT CHORD 2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 9-2-14 oc bracing.
WEBS 2x4 SP No.3 *Except*		
5-15-6-11: 2x4 SP No.2, 12-13: 2x6 SP No.1		

REACTIONS: (lb/size) 2=1972/0-3-8, 9=2003/0-3-8
 Max Horz 2=-121(LC 10)
 Max Uplift 2=-120(LC 12), 9=-124(LC 13)
 Max Grav 2=2033(LC 2), 9=2065(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3794/919, 3-5=-3636/990, 5-6=-2670/809, 6-8=-3540/972, 8-9=-3700/899
 BOT CHORD 2-15=-713/3312, 13-15=-427/2662, 12-13=-426/2670, 11-12=-425/2661, 9-11=-683/3197
 WEBS 3-15=-511/338, 5-15=-263/968, 5-13=-55/672, 6-12=-66/717, 6-11=-234/846,
 8-11=-434/315

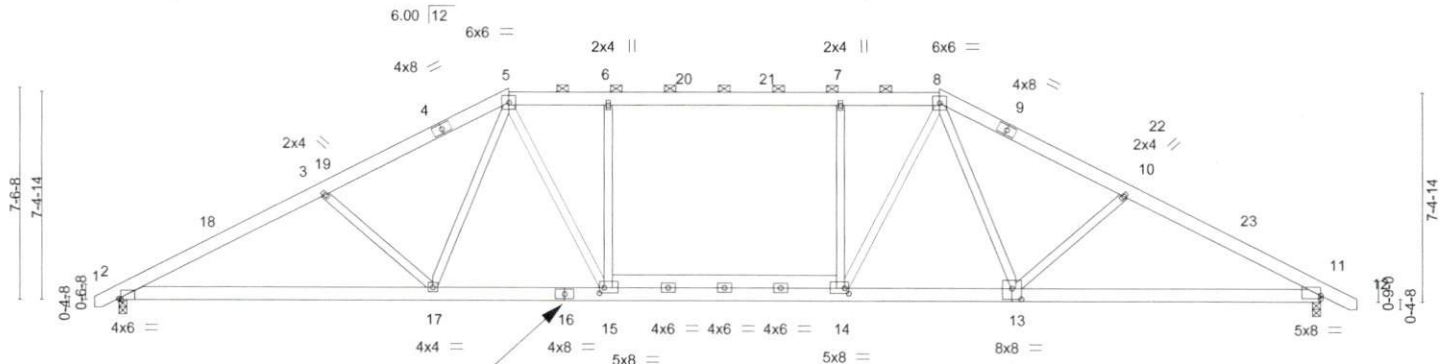
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-14 to 3-7-15, Interior(1) 3-7-15 to 18-0-0, Exterior(2) 18-0-0 to 31-7-11, Interior(1) 31-7-11 to 44-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=120, 9=124.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-60, 5-6=-60, 6-10=-60, 2-13=-20, 12-13=-80, 9-12=-20



Job	Truss	Truss Type	Qty	Ply	Red Door/06-18-106 Shrader	E12816293
J0718-2990	A12	Hip	1	1		
Comtech, Inc., Fayetteville, NC 28309					8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Mar 18 12:08:36 2019 Page 1	
					Job Reference (optional)	
					ID:sbgrhUmUETctG57n8vo3Fcz32aV-wfNwr8ZayvMwQi6x56eAUJ5VadfUcK8GahsLV9zZIVf	
-0-10-8		7-5-2	14-0-0	21-8-8	29-5-0	35-11-14
0-10-8		7-5-2	6-6-14	7-8-8	7-8-8	6-6-14
						43-0-0
						44-3-8
						1-3-8

Scale = 1:79.0



11-3-6	21-8-8	32-1-10	43-0-0
11-3-6	10-5-2	10-5-2	10-10-6
Plate Offsets (X,Y)-- [2-0-0-14,Edge], [11-0-0-0,0-1-7], [13-0-4-0,0-4-8], [14-0-1-12,0-2-4], [15-0-2-0,0-2-4]			

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) -0.22	15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.66	Vert(CT) -0.35	15	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.54	Horz(CT) 0.11	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.14	14-15	>999	240		
							Weight: 311 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-8-2 oc purlins, except
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (3-10-11 max.): 5-8.
WEBS 2x4 SP No.3 *Except*	BOT CHORD Rigid ceiling directly applied or 8-8-2 oc bracing.
14-15: 2x6 SP No.1	

REACTIONS. (lb/size) 2=2007/0-3-8, 11=2038/0-3-8
 Max Horz 2=95(LC 11)
 Max Uplift 2=-99(LC 12), 11=-102(LC 13)
 Max Grav 2=2064(LC 2), 11=2096(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3900/1006, 3-5=-3652/942, 5-6=-3500/979, 6-7=-3498/976, 7-8=-3500/978,
 8-10=-3561/924, 10-11=-3764/974
 BOT CHORD 2-17=-808/3413, 15-17=-573/3018, 14-15=-668/3498, 13-14=-562/2976, 11-13=-765/3250
 WEBS 3-17=-372/281, 5-17=-73/543, 5-15=-305/1218, 8-14=-327/1301, 8-13=-49/438,
 10-13=-268/251, 6-15=-543/249, 7-14=-576/260

- 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) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 14-0-0, Exterior(2) 14-0-0 to 35-7-11, Interior(1) 35-7-11 to 44-1-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 11=102.
 - 7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-5=-60, 5-8=-60, 8-12=-60, 2-15=-20, 14-15=-80, 11-14=-20



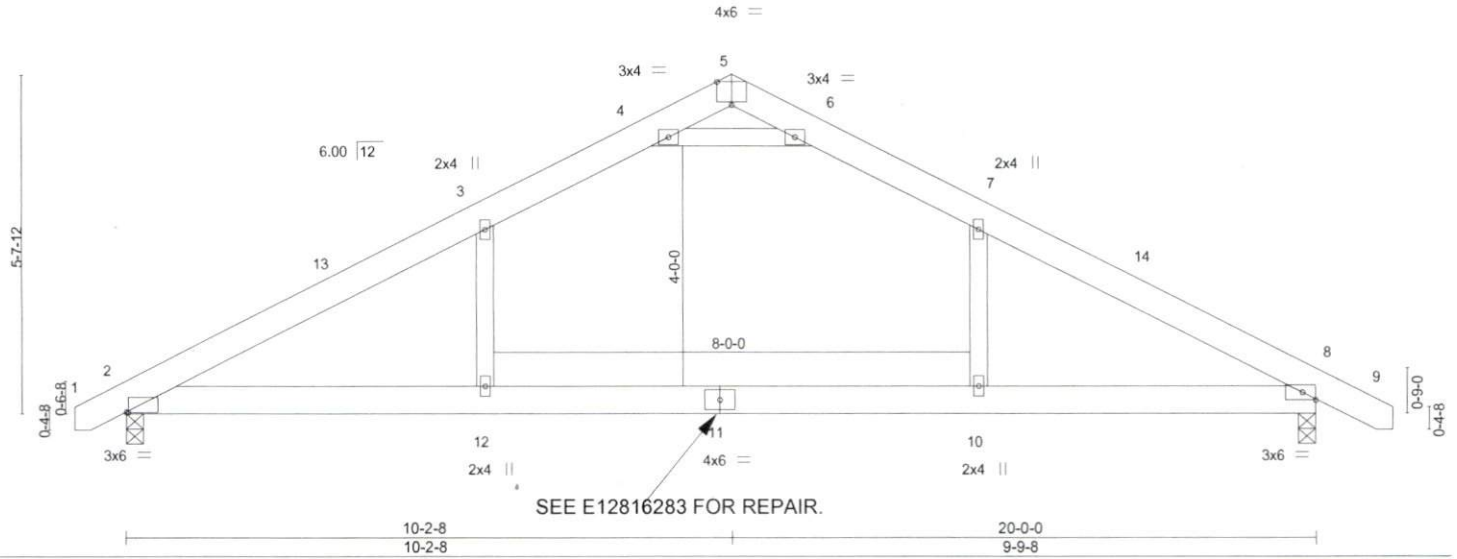
Job	Truss	Truss Type	Qty	Ply	Red Door/06-18-106 Shrader	E12816294
J0718-2990	B02	COMMON	2	1	Job Reference (optional)	UNITS: 0.10

Comtech, Inc., Fayetteville, NC 28309

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Mar 18 12:08:37 2019 Page 1
ID:sbgrhUmUETctG57n8vo3Fcz32aV-OsxJ3UaCjDUn2sh8fpAP1XeeL03ALoIppLcu1bzZiVe



Scale = 1:37.1



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Vert(LL) -0.18 10-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.45	Vert(CT) -0.29 10-12 >826 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 8 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.08 12 >999 240	Weight: 117 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

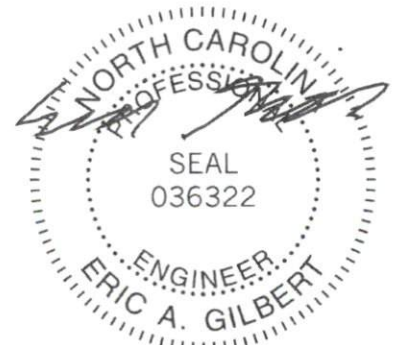
(lb/size) 2=840/0-3-8, 8=868/0-3-8
Max Horz 2=71(LC 11)
Max Uplift 2=-61(LC 12), 8=-64(LC 13)
Max Grav 2=915(LC 2), 8=946(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1422/261, 3-4=-1118/317, 4-5=-108/790, 5-6=-116/783, 6-7=-1125/313,
7-8=-1446/260
BOT CHORD 2-12=-123/1156, 10-12=-123/1156, 8-10=-123/1156
WEBS 3-12=0/446, 7-10=0/479, 4-6=-2033/463

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) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 10-2-8, Exterior(2) 10-2-8 to 14-4-4 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 with a clearance greater than 4-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.



March 19, 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 J0718-2990	Truss B03	Truss Type COMMON	Qty 9	Ply 1	Red Door06-18-106 Shrader	E12816295
Comtech, Inc., Fayetteville, NC 28309					Job Reference (optional)	UNITS: 0.10

8.130 s Mar 11 2018 MiTek Industries, Inc. Mon Mar 18 12:08:38 2019 Page 1
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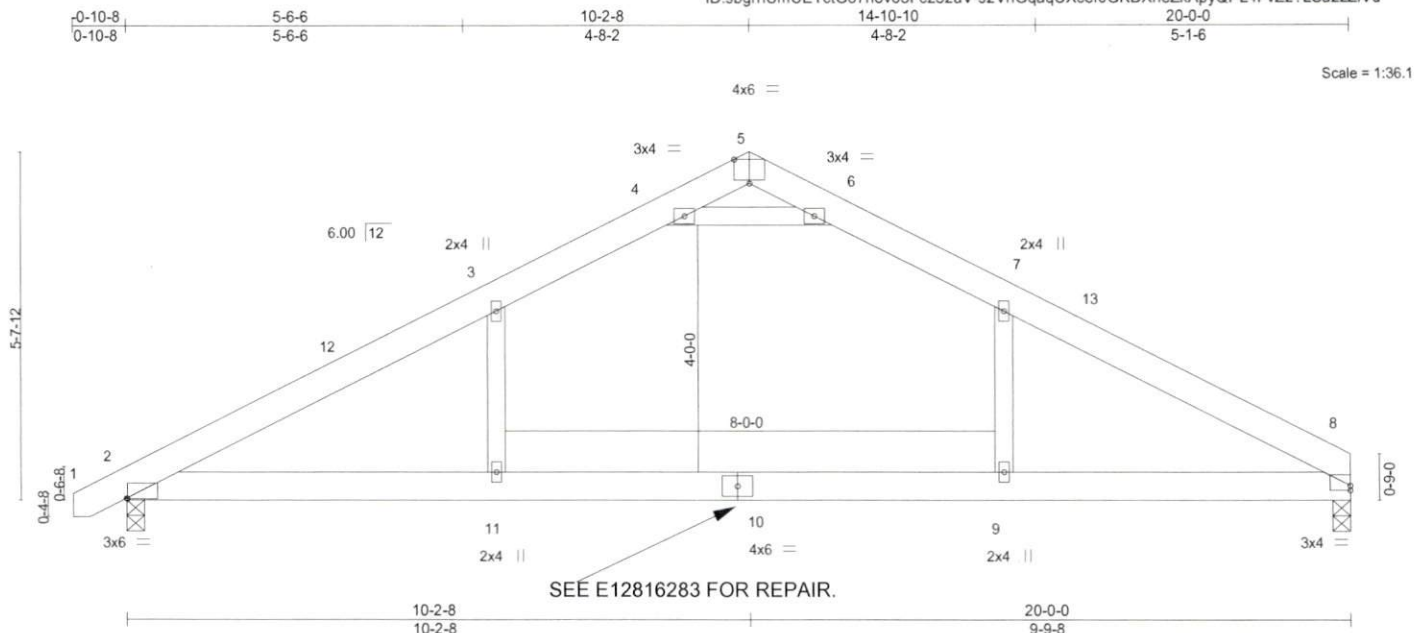


Plate Offsets (X,Y)--	[2:0-0-2,0-0-2], [5:0-3-0,Edge], [8:Edge,0-0-15]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.57	Vert(LL) -0.18 9-11 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.29 9-11 >816 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.46	Horz(CT) 0.02 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08 11 >999 240		
				Weight: 114 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 5-7-3 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

(lb/size) 8=787/0-3-8, 2=843/0-3-8
Max Horz 2=72(LC 9)
Max Uplift 8=-46(LC 13), 2=-61(LC 12)
Max Grav 8=879(LC 2), 2=918(LC 2)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1429/264, 3-4=-1124/320, 4-5=-140/803, 5-6=-121/796, 6-7=-1131/333, 7-8=-1446/275
BOT CHORD 2-11=-143/1157, 9-11=-143/1157, 8-9=-143/1157
WEBS 3-11=0/449, 7-9=0/470, 4-6=-2054/506

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=6.0psf; h=15ft; Cat. II; Exp C; enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 10-2-8, Exterior(2) 10-2-8 to 14-4-4 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 with a clearance greater than 4-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 2.

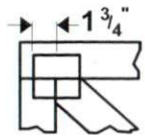


March 19, 2019

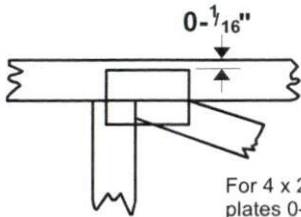
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 10/03/2015 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before 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.</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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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.

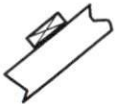
* Plate location details available in MiTek 20/20 software or upon request.

PLATE SIZE

4 x 4

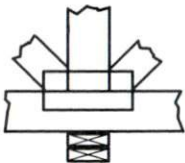
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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

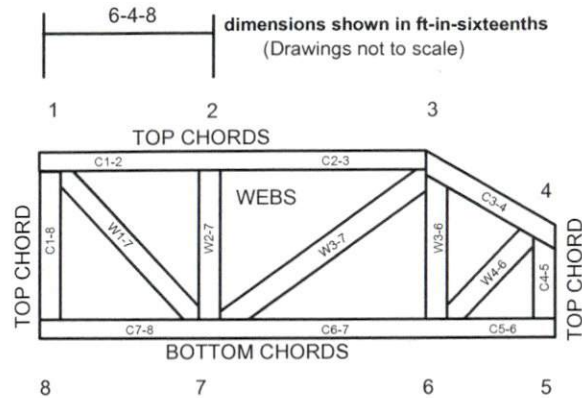


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

- ANSI/TPI1: 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.