

RE: J0520-2221
 Ben Stout/2-A Dorroch Rd./Harnett

Trenco
 818 Soundside Rd
 Edenton, NC 27932

Site Information:

Customer: Project Name: J0520-2221
 Lot/Block: Model:
 Address: Subdivision:
 City: State:

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

Design Code: IRC2015/TPI2014 Design Program: MiTek 20/20 8.3
 Wind Code: ASCE 7-10 Wind Speed: 130 mph
 Roof Load: 40.0 psf Floor Load: N/A psf

This package includes 19 individual, dated Truss Design Drawings and 0 Additional Drawings.

No.	Seal#	Truss Name	Date
1	E14449915	A01	5/29/2020
2	E14449916	A01GE	5/29/2020
3	E14449917	A02	5/29/2020
4	E14449918	A03	5/29/2020
5	E14449919	A03GE	5/29/2020
6	E14449920	B01	5/29/2020
7	E14449921	B01GE	5/29/2020
8	E14449922	B02	5/29/2020
9	E14449923	C01	5/29/2020
10	E14449924	C01GR	5/29/2020
11	E14449925	C01SG	5/29/2020
12	E14449926	D01GE	5/29/2020
13	E14449927	J02	5/29/2020
14	E14449928	M01	5/29/2020
15	E14449929	M01GE	5/29/2020
16	E14449930	M03	5/29/2020
17	E14449931	M04	5/29/2020
18	E14449932	PB01	5/29/2020
19	E14449933	PB02	5/29/2020

The truss drawing(s) referenced above have been prepared by Truss Engineering Co. under my direct supervision based on the parameters provided by Comtech, Inc - Fayetteville. Truss Design Engineer's Name: Gilbert, Eric My license renewal date for the state of North Carolina is December 31, 2020. North Carolina COA: C-0844



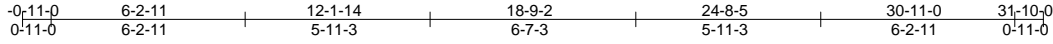
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job J0520-2221	Truss A01	Truss Type PIGGYBACK BASE	Qty 4	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449915
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:00 2020 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-0ih6VS_MWxLLmsEVbHRNjHRFF3ObmQ?fCHZUnJzC?MP



Scale = 1:73.9

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.19	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.65	Vert(LL) -0.29 2-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.15	Vert(CT) -0.44 2-16 >850 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.19 2-16 >999 240	Weight: 251 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x8 SP No.1 -x 4-3-7, Right 2x8 SP No.1 -x 4-3-7

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (6-0-0 max.); 6-7.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 5-16, 8-13

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-267(LC 8)
Max Uplift 2=-52(LC 12), 11=-52(LC 13)
Max Grav 2=1486(LC 19), 11=1486(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-5=-1649/413, 5-6=-1429/436, 6-7=-1033/408, 7-8=-1429/436, 8-11=-1649/413
BOT CHORD 2-16=-183/1268, 13-16=-14/1079, 11-13=-162/1122
WEBS 5-16=-347/270, 6-16=-69/560, 7-13=-69/560, 8-13=-347/270

- 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) -0-9-11 to 3-7-2, Interior(1) 3-7-2 to 12-1-14, Exterior(2) 12-1-14 to 18-4-9, Interior(1) 18-4-9 to 18-9-2, Exterior(2) 18-9-2 to 24-10-5, Interior(1) 24-10-5 to 31-8-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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) 2, 11.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2020

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.

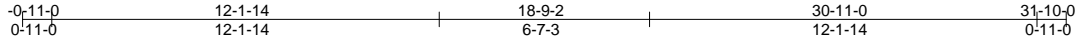
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job J0520-2221	Truss A01GE	Truss Type PIGGYBACK BASE SUPPO	Qty 1	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449916
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8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:01 2020 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-UvFUio?_HFTCN0ph9?zcGV_S3TuIvSkpQxi1Klzc?MO



Scale = 1:72.3

Plate Offsets (X,Y)--	[2:0-1-12,0-0-3], [3:0-2-12,0-2-4], [5:0-4-0,0-4-8], [9:0-3-0,0-3-0], [21:0-7-8,0-0-3], [29:0-0-0,0-2-12], [29:0-3-0,0-1-4], [30:0-1-12,0-0-0]
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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 0.06	Vert(LL)	-0.00	21	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	21	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.21	Horz(CT)	0.01	21	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 333 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.): 9-13.
BOT CHORD 2x6 SP No.1	Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 13-28, 12-30, 11-31, 10-33
SLIDER Left 2x8 SP No.1 -x 1-1-4, Right 2x8 SP No.1 -x 1-11-13	- 8-34, 14-27
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. All bearings 30-11-0.
 (lb) - Max Horz 2=334(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 21, 30, 31, 33, 34, 27, 24 except
 35=125(LC 12), 36=116(LC 12), 37=106(LC 12), 38=123(LC 12), 39=425(LC 12), 26=122(LC 13), 25=113(LC 13), 23=263(LC 13), 2=371(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 28, 30, 31, 33, 34, 35, 36, 37, 38, 27, 26, 25, 24, 23 except 21=256(LC 22), 39=342(LC 10), 2=544(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-557/399, 3-4=-281/244, 7-8=-256/283, 8-9=-282/306, 9-10=-254/285, 10-11=-254/285, 11-12=-254/285, 12-13=-254/285, 13-14=-295/318, 19-21=-322/180
 BOT CHORD 36-37=-167/251, 35-36=-167/251, 34-35=-167/251, 33-34=-167/251, 31-33=-167/251, 30-31=-167/251, 28-30=-167/251, 27-28=-167/251, 26-27=-167/251, 25-26=-167/251, 24-25=-167/251, 23-24=-167/251, 21-23=-167/251
 WEBS 3-39=-243/339, 19-23=-253/262

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=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.
 - 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) 21, 30, 31, 33, 34, 27, 24 except (jt=lb) 35=125, 36=116, 37=106, 38=123, 39=425, 26=122, 25=113, 23=263, 2=371.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Ben Stout/2-A Dorroch Rd./Harnett	E14449916
J0520-2221	A01GE	PIGGYBACK BASE SUPPO	1	1	Job Reference (optional)	

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8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:02 2020 Page 2
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NOTES-

12) 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.

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.



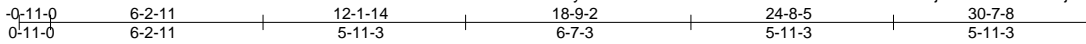
818 Soundside Road
 Edenton, NC 27932

Job J0520-2221	Truss A02	Truss Type PIGGYBACK BASE	Qty 7	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449917
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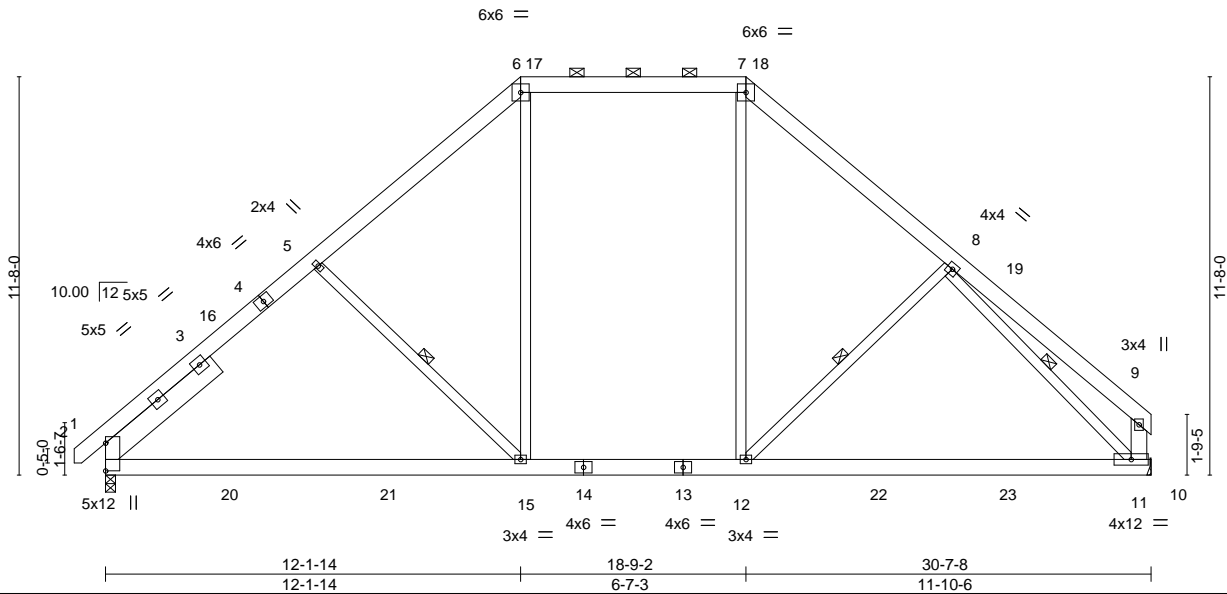
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:03 2020 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-QHNE7U0EosjwdKz3GQ?4Lw3j3HQzIF6uFB8OezC?MM



Scale = 1:67.5



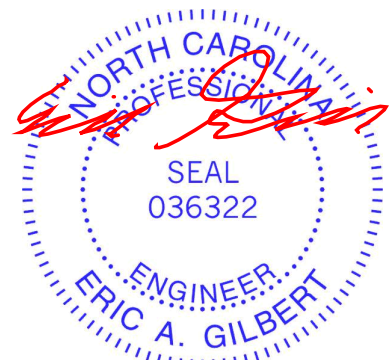
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.67	Vert(LL) -0.33 2-15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.31	Vert(CT) -0.50 2-15 >726 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.19 2-15 >999 240	Weight: 248 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 9-11: 2x6 SP No.1	WEBS 1 Row at midpt 5-15, 8-12, 8-11
SLIDER Left 2x8 SP No.1 -x 4-3-7	

REACTIONS. (size) 2=0-3-8, 11=Mechanical
 Max Horz 2=283(LC 9)
 Max Uplift 2=-52(LC 12), 11=-33(LC 13)
 Max Grav 2=1453(LC 19), 11=1390(LC 2)

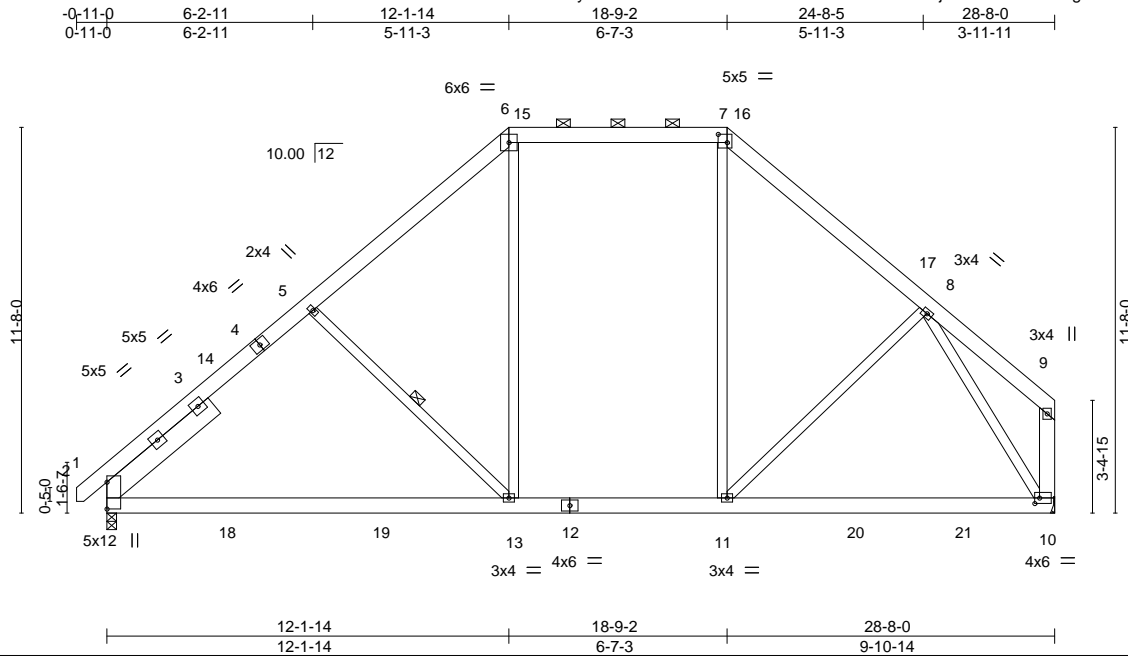
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-1593/405, 5-6=-1372/428, 6-7=-981/402, 7-8=-1362/431, 8-9=-640/106, 9-11=-510/107
 BOT CHORD 2-15=-247/1236, 12-15=-53/1030, 11-12=-206/1023
 WEBS 5-15=-361/271, 6-15=-64/553, 7-12=-68/493, 8-12=-289/251, 8-11=-1049/339

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-11 to 3-7-2, Interior(1) 3-7-2 to 12-1-14, Exterior(2) 12-1-14 to 18-4-9, Interior(1) 18-4-9 to 18-9-2, Exterior(2) 18-9-2 to 24-10-5, Interior(1) 24-10-5 to 30-3-4 zone; end vertical 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2020

Job J0520-2221	Truss A03	Truss Type PIGGYBACK BASE	Qty 8	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449918
Comtech, Inc., Fayetteville, NC - 28314,					8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:03 2020 Page 1	
					ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-QHNE7U0EosjwdKz3GQ?4Lw3lgHPAzab6uFB8OezC?MM	
					Job Reference (optional)	



Scale = 1:69.7

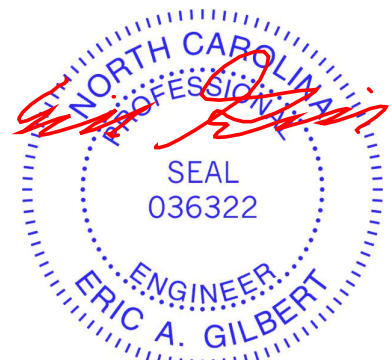
Plate Offsets (X,Y)--	[7:0-3-4,0-3-0], [10:0-1-12,0-2-0]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.24	Vert(LL) -0.38	2-13	>893	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.72	Vert(CT) -0.61	2-13	>558	240		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.99	Horz(CT) 0.02	10	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL) 0.22	2-13	>999	240		
								Weight: 240 lb	FT = 20%

LUMBER-	BRACING-	
TOP CHORD 2x6 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 6-7.
BOT CHORD 2x6 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 9-10: 2x6 SP No.1	WEBS	1 Row at midpt 5-13
SLIDER Left 2x8 SP No.1 -x 4-3-7		

REACTIONS. (size) 2=0-3-8, 10=Mechanical
 Max Horz 2=303(LC 9)
 Max Uplift 2=-51(LC 12), 10=-28(LC 13)
 Max Grav 2=1369(LC 19), 10=1318(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-5=-1456/382, 5-6=-1232/404, 6-7=-860/381, 7-8=-1188/387
 BOT CHORD 2-13=-314/1148, 11-13=-114/910, 10-11=-199/672
 WEBS 5-13=-395/280, 6-13=-55/516, 7-11=-27/350, 8-11=-98/333, 8-10=-1209/358

- 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) 0-9-11 to 3-7-2, Interior(1) 3-7-2 to 12-1-14, Exterior(2) 12-1-14 to 18-4-9, Interior(1) 18-4-9 to 18-9-2, Exterior(2) 18-9-2 to 24-10-5, Interior(1) 24-10-5 to 28-5-4 zone; end vertical 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



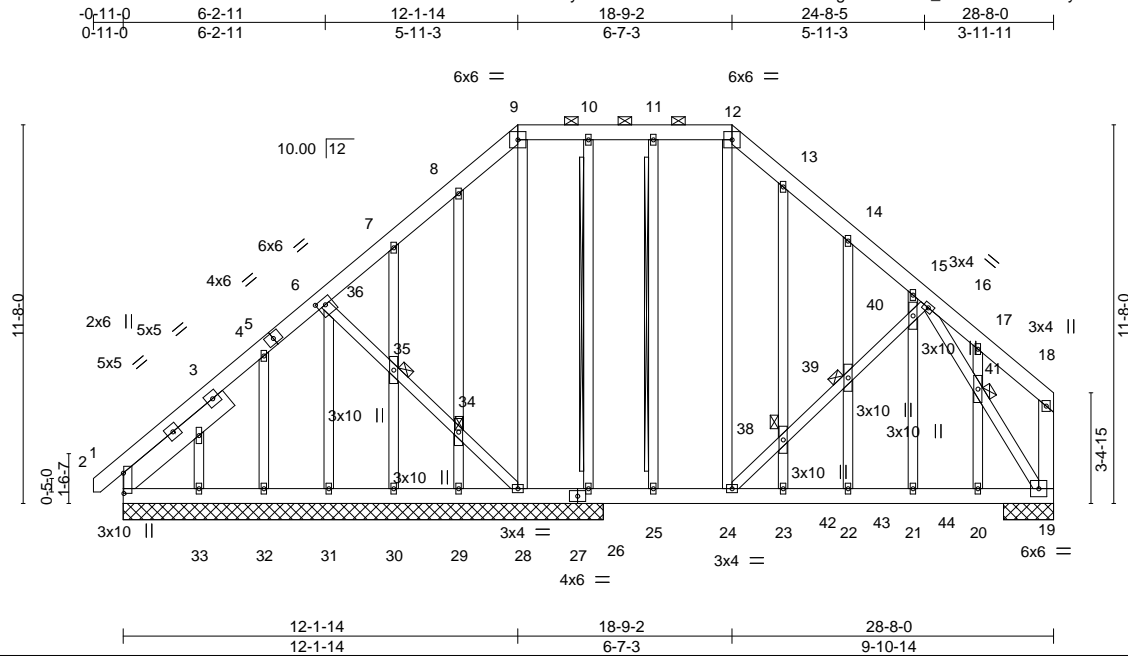
May 28, 2020

Job J0520-2221	Truss A03GE	Truss Type GABLE	Qty 1	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449919
					Job Reference (optional)	

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8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:05 2020 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-NguY?YA2VKT_dsd6SOR1YQL95y4C9RZ8OLZgFTWzC?MK



Scale = 1:71.0

Plate Offsets (X,Y)-- [2:0-7-8,0-0-3], [6:0-3-0,0-2-4], [36:0-0-4,0-2-6]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.19	Vert(LL)	0.07	22-23	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.24	Vert(CT)	-0.08	22-23	>999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.67	Horz(CT)	0.01	19	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S						
							Weight: 354 lb	FT = 20%

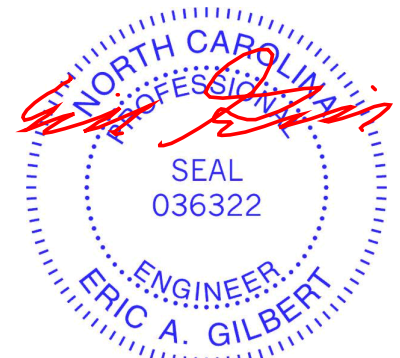
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 18-19: 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x8 SP No.1 -x 4-3-7

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 9-12.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 10-26, 11-25
 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.
 1 Brace at Jt(s): 34, 35, 38, 39, 41

REACTIONS. All bearings 14-9-8 except (jt=length) 19=1-6-8.
 (lb) - Max Horz 2=377(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) 29, 31, 33 except 2=311(LC 4), 28=617(LC 20), 19=481(LC 9), 26=163(LC 4), 30=121(LC 8), 32=247(LC 27)
 Max Grav All reactions 250 lb or less at joint(s) 29, 30, 33 except 2=793(LC 34), 28=414(LC 9), 19=1148(LC 1), 26=478(LC 20), 31=267(LC 1), 32=266(LC 15)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-959/474, 4-6=-783/425, 6-7=-862/495, 7-8=-887/581, 8-9=-807/596,
 9-10=-618/496, 10-11=-617/496, 11-12=-618/496, 12-13=-733/544, 13-14=-820/523,
 14-15=-860/444, 15-16=-1056/536
 BOT CHORD 2-33=-171/517, 32-33=-171/517, 31-32=-171/517, 30-31=-171/517, 29-30=-171/517,
 28-29=-171/517, 26-28=-165/602, 25-26=-165/602, 24-25=-165/602, 23-24=-296/638,
 22-23=-296/638, 21-22=-296/638, 20-21=-296/638, 19-20=-296/638
 WEBS 9-28=-307/405, 12-24=-213/262, 16-41=-1242/532, 19-41=-1095/468, 4-32=-237/285,
 15-40=-166/285, 21-40=-151/267

- 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) gable end zone; end vertical right exposed; 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 31, 33 except (jt=lb) 2=311, 28=617, 19=481, 26=163, 30=121, 32=247.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



May 28, 2020

Continued on page 2

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job J0520-2221	Truss A03GE	Truss Type GABLE	Qty 1	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett E14449919 Job Reference (optional)
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:06 2020 Page 2
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-rs2NIW375n6UUnhexYYnzYhGiUYOA0OYaDQo?yzC?MJ

NOTES-

- 11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 45 lb down and 55 lb up at 16-6-12, 45 lb down and 55 lb up at 18-6-12, 45 lb down and 55 lb up at 20-2-12, 45 lb down and 55 lb up at 21-8-4, and 45 lb down and 55 lb up at 23-4-4, and 45 lb down and 55 lb up at 25-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 12) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
- 13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-9=-60, 9-12=-60, 12-18=-60, 2-19=-20
Concentrated Loads (lb)
Vert: 24=-45(B) 25=-45(B) 23=-45(B) 42=-45(B) 43=-45(B) 44=-45(B)

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 J0520-2221	Truss B01	Truss Type ATTIC	Qty 1	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett E14449920
Comtech, Inc., Fayetteville, NC - 28314,					Job Reference (optional)

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:07 2020 Page 1

ID:ikQyRsnXi14PrYc3UMF2QWzXTAO-J3czs3ls5EL5xGrVF30VmEJ3ul6vTMhpt9LXPzC?MI

0-11-0 5-8-12 8-9-4 10-1-8 11-11-8 13-9-8 15-1-12 18-2-4 23-11-0 24-10-0
0:11-0 5-8-12 3-0-8 1-4-4 1-10-0 1-10-0 1-4-4 3-0-8 5-8-12 0:11-0

Scale = 1:69.0

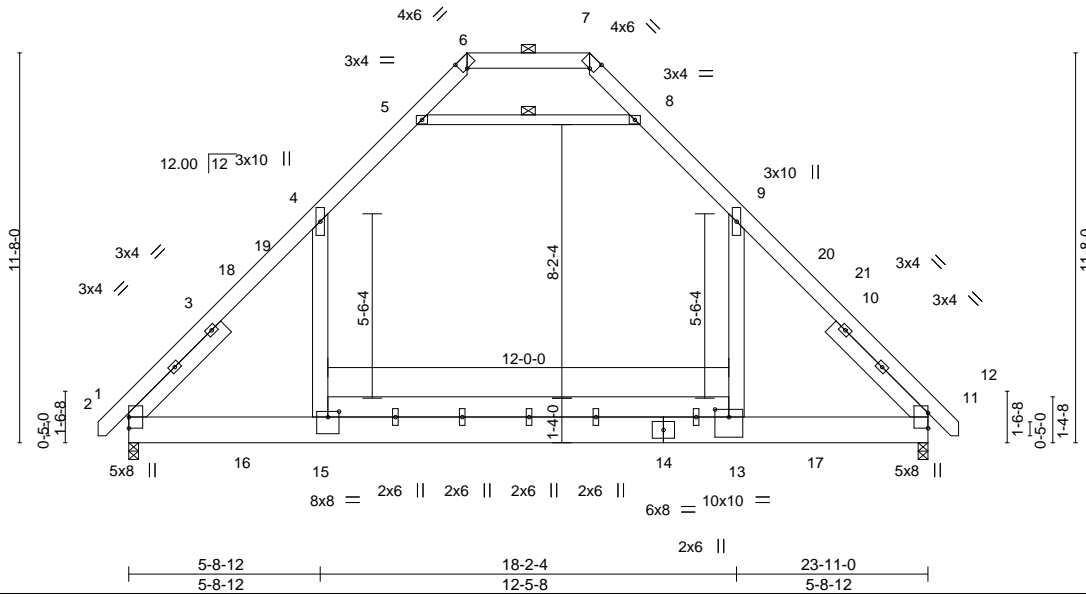


Plate Offsets (X,Y)-- [6:0-2-2,Edge], [7:0-2-2,Edge], [13:0-5-0,0-2-12], [15:0-4-0,0-2-0]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.67	Vert(LL) -0.27	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.78	Vert(CT) -0.44	13-15	>647	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.68	Horz(CT) 0.02	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.08	13-15	>999	240		
							Weight: 271 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP 2400F 2.0E *Except*
6-7: 2x6 SP No.1
BOT CHORD 2x10 SP No.1 *Except*
13-15: 2x8 SP No.1
WEBS 2x6 SP No.1 *Except*
5-8: 2x4 SP No.1
SLIDER Left 2x6 SP No.1 -x 3-11-11, Right 2x6 SP No.1 -x 3-11-11

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-11-3 oc purlins, except
2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD Rigid ceiling directly applied or 9-10-2 oc bracing.
WEBS 1 Row at midpt 5-8

REACTIONS. (size) 2=0-3-8, 11=0-3-8
Max Horz 2=-265(LC 8)
Max Grav 2=1677(LC 20), 11=1677(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-2171/0, 4-5=-1136/177, 5-6=0/449, 7-8=0/449, 8-9=-1136/177, 9-11=-2171/0,
6-7=0/695
BOT CHORD 2-15=0/1246, 13-15=0/1246, 11-13=0/1246
WEBS 5-8=-1793/177, 4-15=0/1130, 9-13=0/1130

- 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) 0-9-10 to 3-7-3, Interior(1) 3-7-3 to 10-1-8, Exterior(2) 10-1-8 to 20-0-3, Interior(1) 20-0-3 to 24-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas 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.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s). 4-15, 9-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



May 28, 2020

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 J0520-2221	Truss B01GE	Truss Type GABLE	Qty 1	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449921
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:08 2020 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-nFA7AC4NdOMCj5r13zbF2znUpI5Lexdr1Xv3rzC?MH

0-11-0 5-8-12 8-9-4 10-1-8 11-11-8 13-9-8 15-1-12 18-2-4 23-11-0 24-10-0
 0-11-0 5-8-12 3-0-8 1-4-4 1-10-0 1-10-0 1-4-4 3-0-8 5-8-12 0-11-0

Scale = 1:68.8

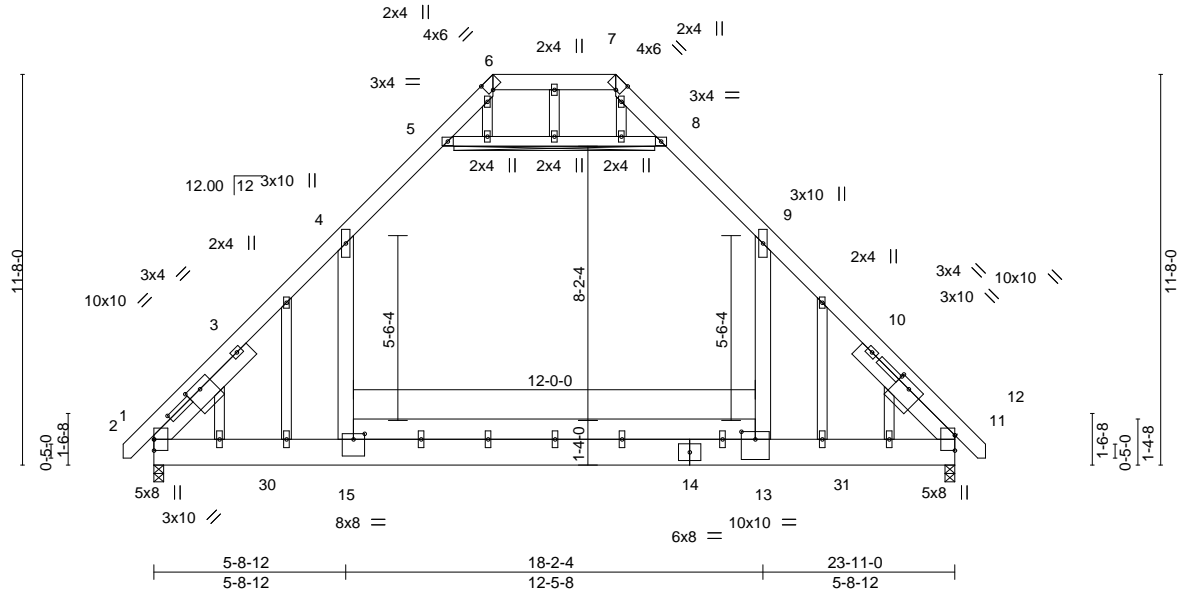


Plate Offsets (X,Y)--	[2:0-9-6,0-2-9], [6:0-2-2,Edge], [7:0-2-2,Edge], [11:2-4-5,0-1-8], [13:0-5-0,0-2-12], [15:0-4-0,0-2-0], [23:0-5-0,0-2-8], [29:0-5-0,0-2-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.27 13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.44 13-15	>647	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.02 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.12 13-15	>999	240	Weight: 294 lb	FT = 20%

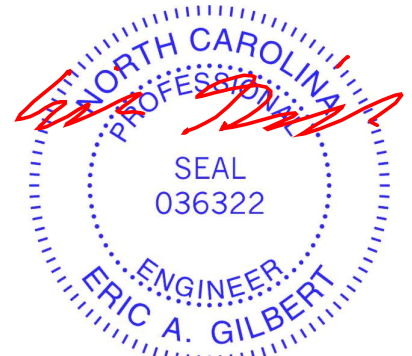
LUMBER-
 TOP CHORD 2x6 SP 2400F 2.0E *Except*
 6-7: 2x6 SP No.1
 BOT CHORD 2x10 SP No.1 *Except*
 13-15: 2x8 SP No.1
 WEBS 2x6 SP No.1 *Except*
 5-8: 2x4 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 -x 3-11-11, Right 2x6 SP No.1 -x 3-11-11

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-11-3 oc purlins, except
 2-0-0 oc purlins (10-0-0 max.): 6-7.
 BOT CHORD Rigid ceiling directly applied or 9-10-2 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 5-8
 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. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=331(LC 8)
 Max Grav 2=1672(LC 2), 11=1671(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2165/0, 4-5=-1134/203, 5-6=0/449, 7-8=0/449, 8-9=-1134/203, 9-11=-2165/0, 6-7=0/695
 BOT CHORD 2-15=0/1253, 13-15=0/1253, 11-13=0/1253
 WEBS 5-8=-1790/248, 4-15=0/1130, 9-13=0/1130

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x6 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.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s). 4-15, 9-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 - 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.
 - Attic room checked for L/360 deflection.



May 28, 2020

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.



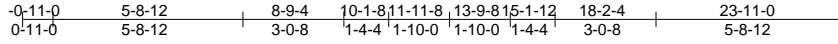
818 Soundside Road
 Edenton, NC 27932

Job J0520-2221	Truss B02	Truss Type ATTIC	Qty 5	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449922
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:09 2020 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-FRkVOX5?OIU3LFQDdG6UaBJfviRYNOd_GAeSchZC?MG



Scale = 1:69.5

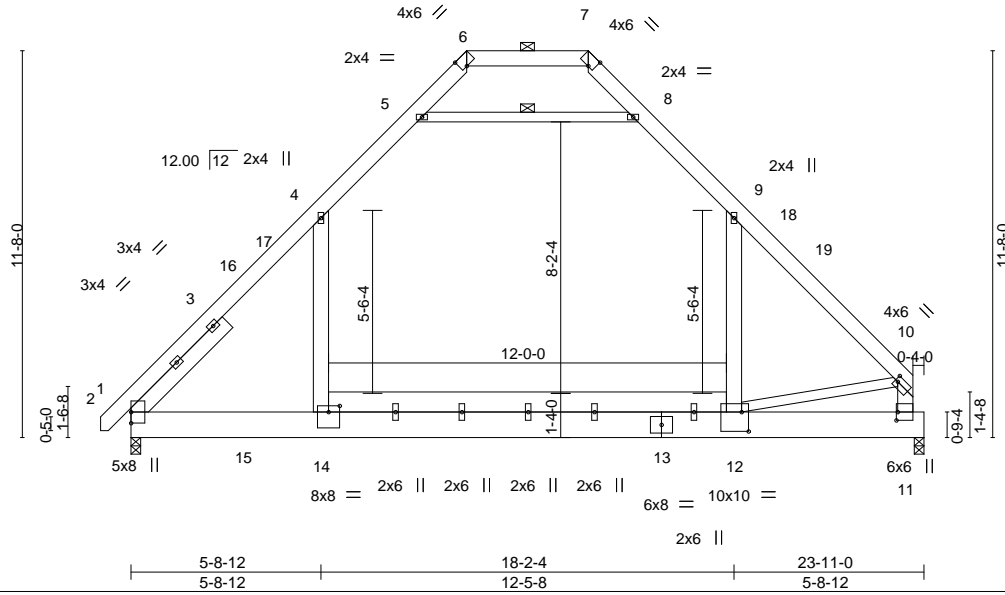


Plate Offsets (X,Y)--	[6:0-2-2,Edge], [7:0-2-2,Edge], [10:0-1-0,0-2-0], [11:0-3-0,0-0-8], [12:0-2-8,0-7-0], [14:0-4-0,0-2-4]
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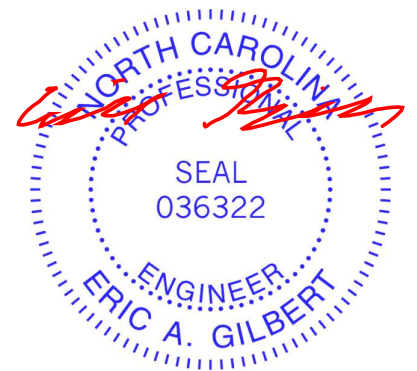
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.64	Vert(LL)	-0.26	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.78	Vert(CT)	-0.44	12-14	>642		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.09	12-14	>999		
								Weight: 267 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP 2400F 2.0E *Except* 6-7: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (10-0-0 max.): 6-7.
BOT CHORD 2x10 SP No.1 *Except* 12-14: 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-5-9 oc bracing.
WEBS 2x6 SP No.1 *Except* 5-8: 2x4 SP No.1, 10-12: 2x4 SP No.2	WEBS 1 Row at midpt 5-8
SLIDER Left 2x6 SP No.1 -x 3-11-11	

REACTIONS. (size) 2=0-3-8, 11=0-3-8
 Max Horz 2=283(LC 9)
 Max Grav 2=1621(LC 20), 11=1542(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2035/0, 4-5=-1065/176, 5-6=0/428, 7-8=-11/400, 8-9=-1091/177, 9-10=-1849/0,
 6-7=0/644, 10-11=-1722/0
 BOT CHORD 2-14=0/1163, 12-14=0/1163, 11-12=-92/265
 WEBS 5-8=-1665/174, 4-14=0/1039, 9-12=0/832, 10-12=0/1010

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 10-1-8, Exterior(2) 10-1-8 to 20-0-3, Interior(1) 20-0-3 to 23-4-4 zone; end vertical 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.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 8-9, 5-8; Wall dead load (5.0psf) on member(s). 4-14, 9-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.



May 28, 2020

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

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job J0520-2221	Truss C01	Truss Type COMMON	Qty 1	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449923
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:09 2020 Page 1
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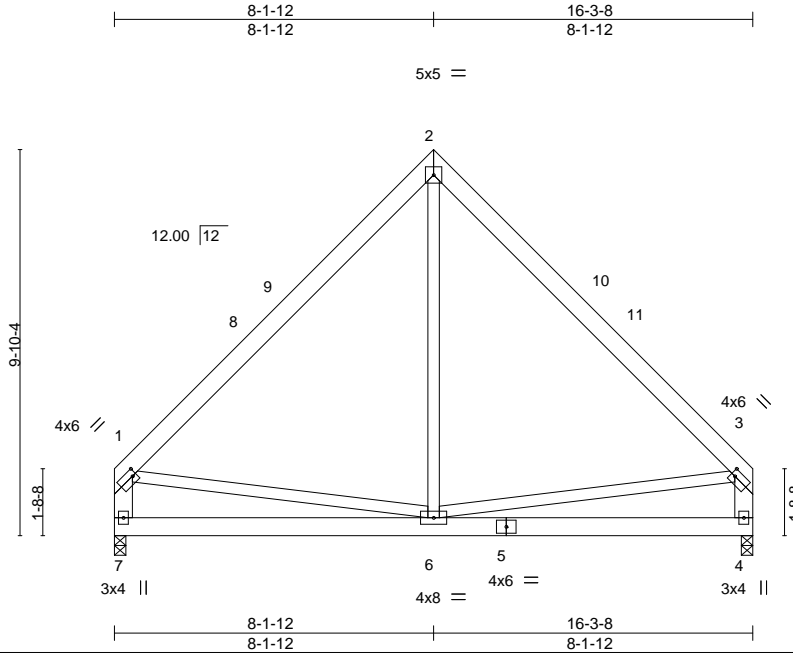


Plate Offsets (X,Y)-- [1:0-1-4,0-2-0], [3:0-1-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.02	6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.04	6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.12	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.00	6	>999	240		
							Weight: 135 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-7,3-4: 2x6 SP No.1

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

REACTIONS. (size) 4=0-3-8, 7=0-3-8
 Max Horz 7=238(LC 9)
 Max Uplift 4=-27(LC 12), 7=-27(LC 13)
 Max Grav 4=633(LC 1), 7=633(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-597/185, 2-3=-597/185, 1-7=-562/196, 3-4=-562/196
 BOT CHORD 6-7=-280/369, 4-6=-152/262
 WEBS 2-6=0/315, 1-6=-106/254, 3-6=-112/260

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 8-1-12, Exterior(2) 8-1-12 to 12-6-9, Interior(1) 12-6-9 to 16-0-12 zone; end vertical left and right exposed; 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.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7.



May 28, 2020

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ENGINEERING BY
TRENCO
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 818 Soundside Road
 Edenton, NC 27932

Job J0520-2221	Truss C01GR	Truss Type COMMON GIRDER	Qty 1	Ply 2	Ben Stout/2-A Dorroch Rd./Harnett	E14449924
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:10 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-jdlbt6d90cwyO?QA0dj7OswE5mp6ud8VqO?8kzC?MF

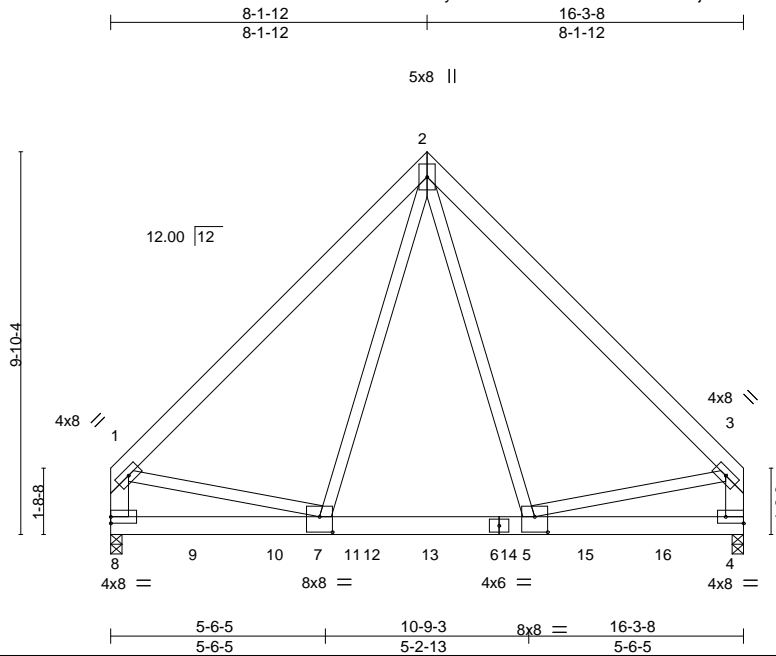


Plate Offsets (X,Y)-- [4:Edge,0-2-0], [5:0-4-0,0-4-12], [7:0-4-0,0-4-12]

LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL) -0.06	5-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.85	Vert(CT) -0.11	5-7	>999	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.39	Horz(CT) 0.01	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03	5-7	>999	240		
							Weight: 283 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
1-8,3-4: 2x6 SP No.1

BRACING-

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

REACTIONS.

(size) 8=0-3-8, 4=0-3-8
Max Horz 8=-238(LC 6)
Max Uplift 8=-168(LC 9), 4=-170(LC 8)
Max Grav 8=5101(LC 2), 4=5160(LC 2)

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

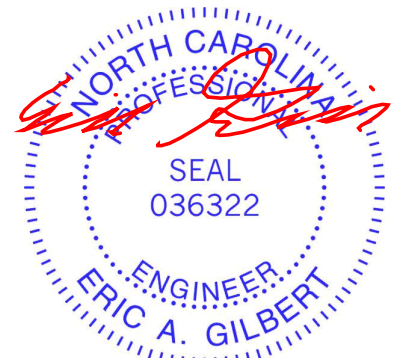
TOP CHORD 1-2=-4739/232, 2-3=-4718/232, 1-8=-4153/167, 3-4=-4130/167
BOT CHORD 7-8=-310/750, 5-7=-105/2364, 4-5=-135/623
WEBS 2-5=-98/3162, 2-7=-99/3216, 1-7=-169/2767, 3-5=-172/2735

NOTES-

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-7-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; 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) 8=168, 4=170.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1298 lb down and 48 lb up at 2-2-12, 1298 lb down and 48 lb up at 4-2-12, 1287 lb down and 48 lb up at 6-2-12, 1253 lb down and 48 lb up at 8-2-12, 1291 lb down and 48 lb up at 10-2-12, and 1298 lb down and 48 lb up at 12-2-12, and 1298 lb down and 48 lb up at 14-2-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 4-8=-20



May 28, 2020

Continued on page 2

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818 Soundside Road
Edenton, NC 27932

Job J0520-2221	Truss C01GR	Truss Type COMMON GIRDER	Qty 1	Ply 2	Ben Stout/2-A Dorroch Rd./Harnett E14449924 Job Reference (optional)
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8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:11 2020 Page 2
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-BqsGpD6FwJknaYack58ygcP5_V51rKtHjU7ZgAzC?ME

LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 6=-1117(B) 9=-1117(B) 10=-1117(B) 11=-1117(B) 13=-1117(B) 15=-1117(B) 16=-1117(B)

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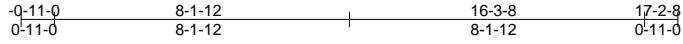
818 Soundside Road
Edenton, NC 27932

Job J0520-2221	Truss C01SG	Truss Type GABLE	Qty 1	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett E14449925
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8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:11 2020 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-BqsGpD6FwJknaYack58ygcP8ZVHsrOpHjU7ZgAzC?ME



5x5 =

Scale: 3/16"=1'

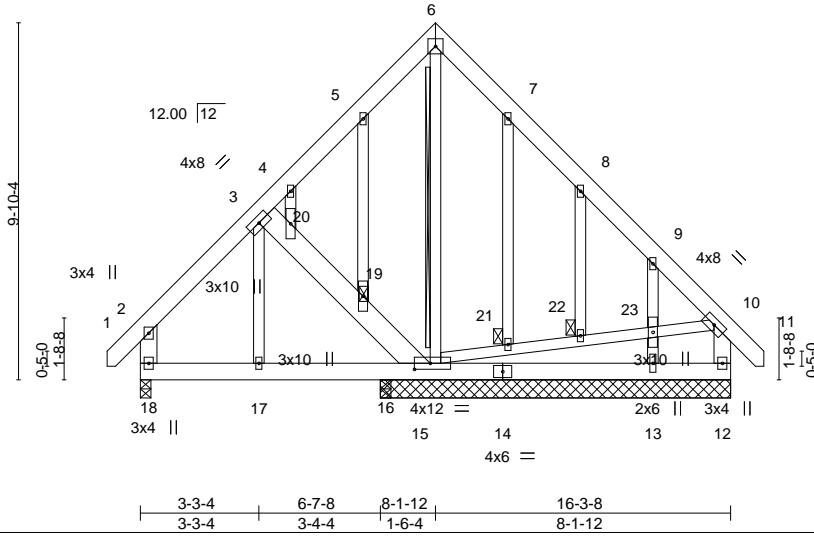


Plate Offsets (X,Y)-- [15:0-5-4,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.12	Vert(LL) -0.01	13-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.01	13-15	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.14	Horz(CT) 0.00	12	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.00	17	>999	240		
							Weight: 182 lb	FT = 20%

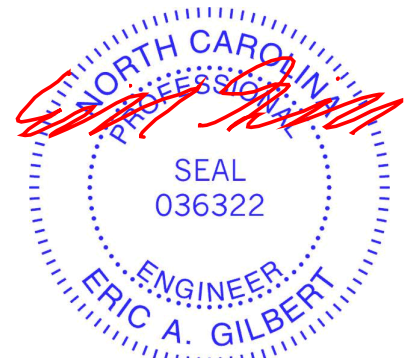
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
2-18,10-12: 2x6 SP No.1, 3-15: 2x8 SP No.1
OTHERS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 6-15
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.
1 Brace at Jt(s): 19, 21, 22

REACTIONS. All bearings 9-8-0 except (jt=length) 18=0-3-8, 16=0-3-8, 16=0-3-8.
(lb) - Max Horz 18=-329(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 18, 16 except 12=-165(LC 11), 15=-109(LC 12), 13=-372(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 12, 16, 16 except 15=584(LC 1), 18=314(LC 1), 13=522(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-10=-279/242, 2-18=-259/155
BOT CHORD 17-18=-225/293, 16-17=-226/293, 15-16=-226/293
WEBS 6-15=-303/0, 3-20=-269/225, 19-20=-287/224, 15-19=-350/288, 9-23=-435/362, 13-23=-523/442

- 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) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18, 16 except (jt=lb) 12=165, 15=109, 13=372.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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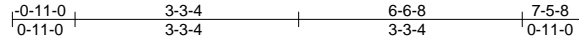


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Job J0520-2221	Truss D01GE	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449926
					Job Reference (optional)	

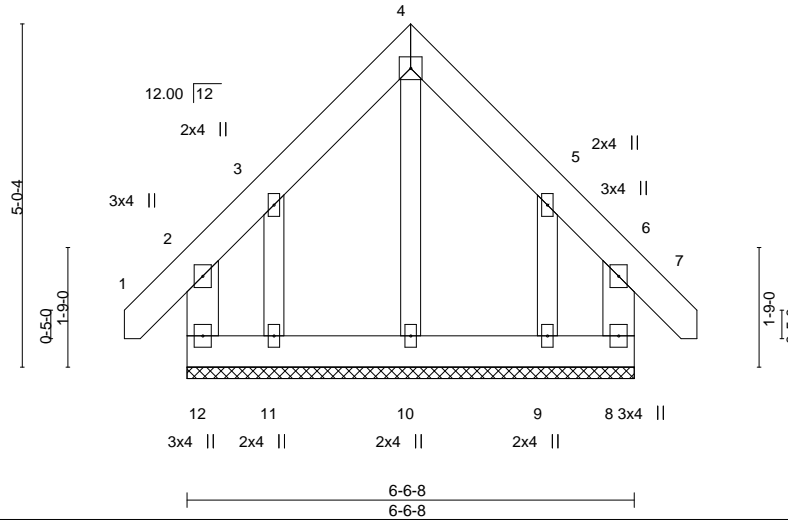
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:13 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-8Cz0Dv8WSx_Vpsk_sWAQI1UVOJ_AJKraBocgl2zC?MC



4x4 =

Scale = 1:33.7



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	6	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	6	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	8	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-R						Weight: 61 lb	FT = 20%

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

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

REACTIONS. All bearings 6-6-8.
(lb) - Max Horz 12=185(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) except 12=141(LC 8), 8=127(LC 9), 11=160(LC 9), 9=151(LC 8)
Max Grav All reactions 250 lb or less at joint(s) 12, 8, 10, 11, 9

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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 141 lb uplift at joint 12, 127 lb uplift at joint 8, 160 lb uplift at joint 11 and 151 lb uplift at joint 9.



May 28, 2020

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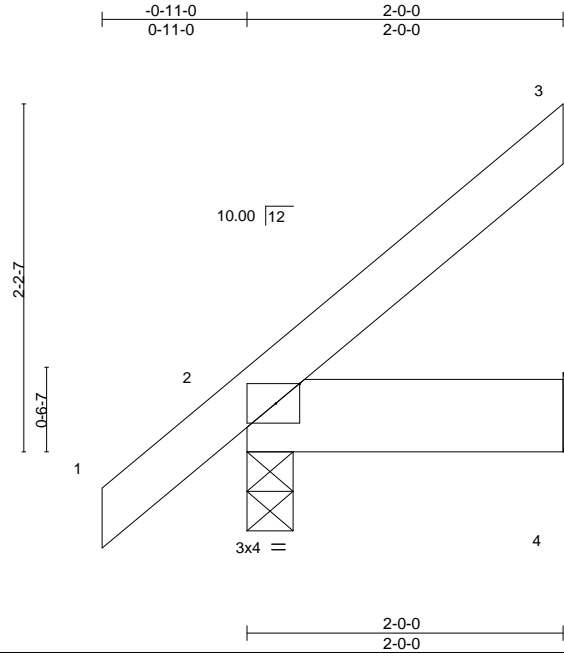
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Edenton, NC 27932

Job J0520-2221	Truss J02	Truss Type JACK-OPEN	Qty 8	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett E14449927
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8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:13 2020 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-8Cz0Dv8WSx_Vpsk_sWAQI1URKJz8JKXaBocgl2zC?MC



Scale = 1:14.6

Plate Offsets (X,Y)-- [2:0-1-13,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	-0.00	2	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	-0.00	2-4	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 11 lb	FT = 20%

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

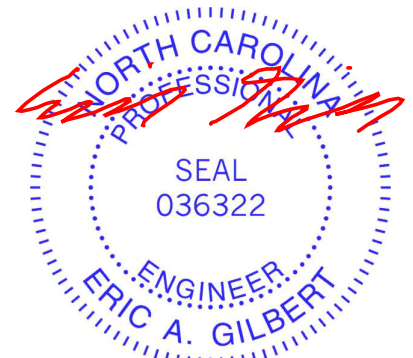
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=0-3-8, 4=Mechanical
Max Horz 2=93(LC 9)
Max Uplift 2=-18(LC 9), 4=-35(LC 9)
Max Grav 2=149(LC 1), 4=66(LC 19)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=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
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 2 and 35 lb uplift at joint 4.



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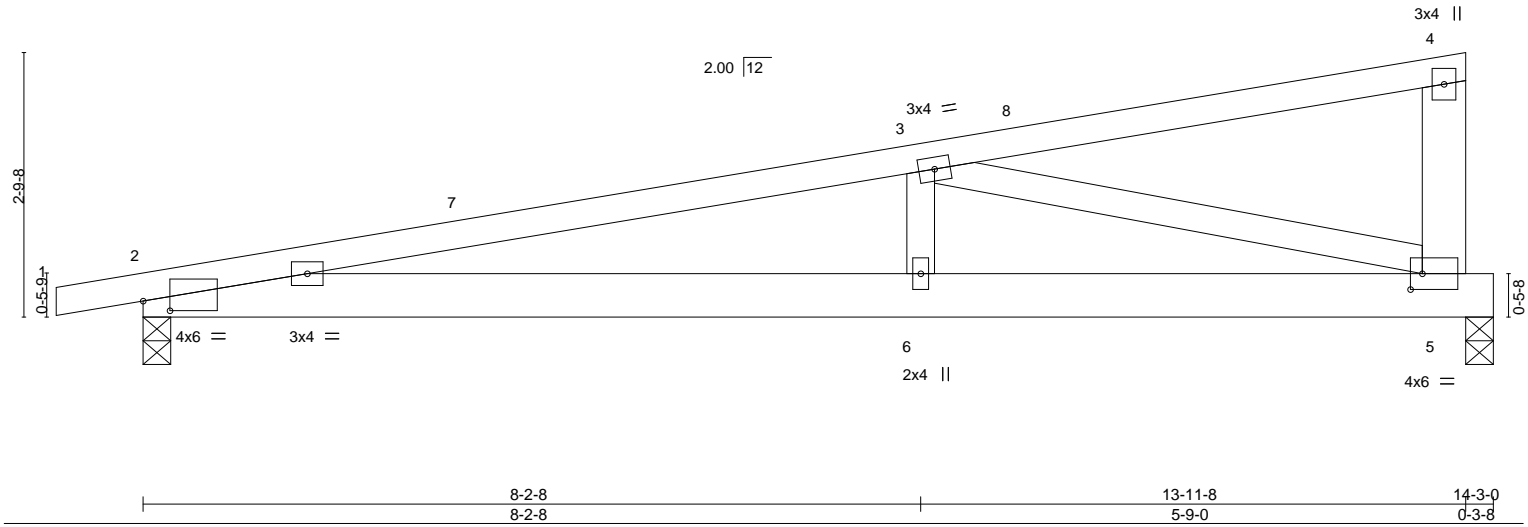
Job J0520-2221	Truss M01	Truss Type MONOPITCH	Qty 15	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449928
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Comtech, Inc., Fayetteville, NC - 28314,

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:14 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-cPXORF98DE6MR0IBPDhfHE0YbjEq2crjQSDMHVzC?MB



Scale = 1:24.3



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.52	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.39	Vert(LL) -0.07 2-6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.76	Vert(CT) -0.15 2-6 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.15 2-6 >999 240	Weight: 70 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-2-9 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-1-3 oc bracing.

REACTIONS. (size) 5=0-3-8, 2=0-3-8
 Max Horz 2=81(LC 8)
 Max Uplift 5=215(LC 8), 2=-243(LC 8)
 Max Grav 5=541(LC 1), 2=610(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1485/1380
 BOT CHORD 2-6=-1426/1420, 5-6=-1426/1420
 WEBS 3-6=-383/311, 3-5=-1420/1417

- NOTES-**
- 1) 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) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 13-8-12 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 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.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 215 lb uplift at joint 5 and 243 lb uplift at joint 2.



May 28, 2020

Job J0520-2221	Truss M01GE	Truss Type GABLE	Qty 2	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449929
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

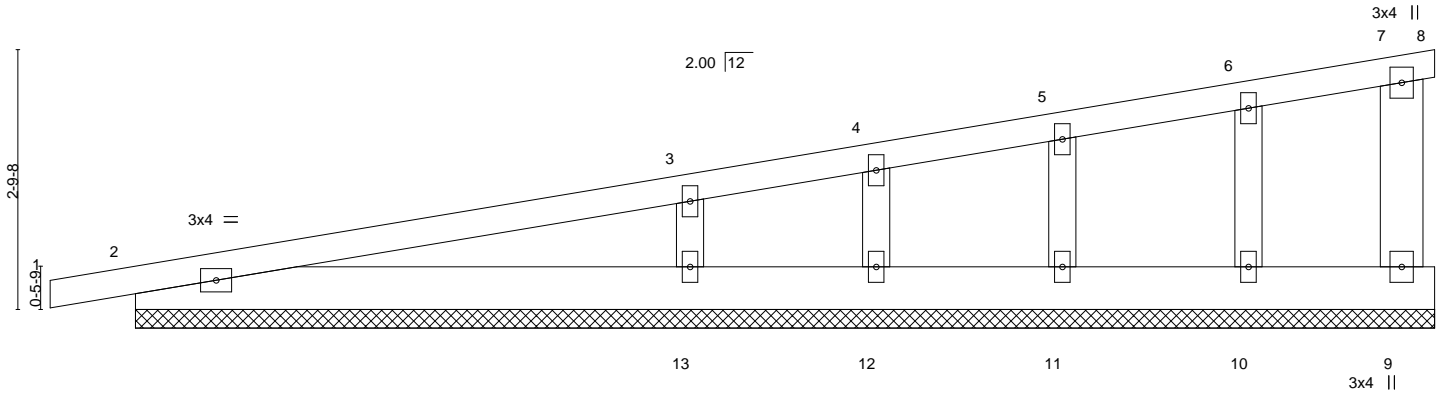
8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:14 2020 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-cPXORF98DE6MR0IBPDhfHE0cfjJM2n6jQSMdHVzC?MB

13-11-8
13-11-8

-0-11-0
0-11-0

Scale = 1:24.8



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 0.26	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.10	Vert(CT)	0.01	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.04	Horz(CT)	-0.00	8	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S					Weight: 67 lb	FT = 20%

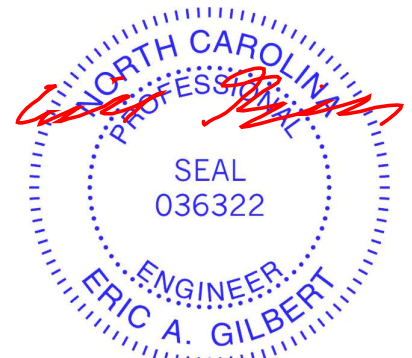
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x6 SP No.1
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 13-11-8.
(lb) - Max Horz 2=117(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 8, 9, 2, 10, 11, 12 except 13=154(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 8, 9, 10, 11, 12 except 2=253(LC 1), 13=513(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-13=330/242

- NOTES-**
- 1) 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; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * 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.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 9, 2, 10, 11, 12 except (jt=lb) 13=154.



May 28, 2020

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 218 N. Lee Street, Suite 312, Alexandria, VA 22314.

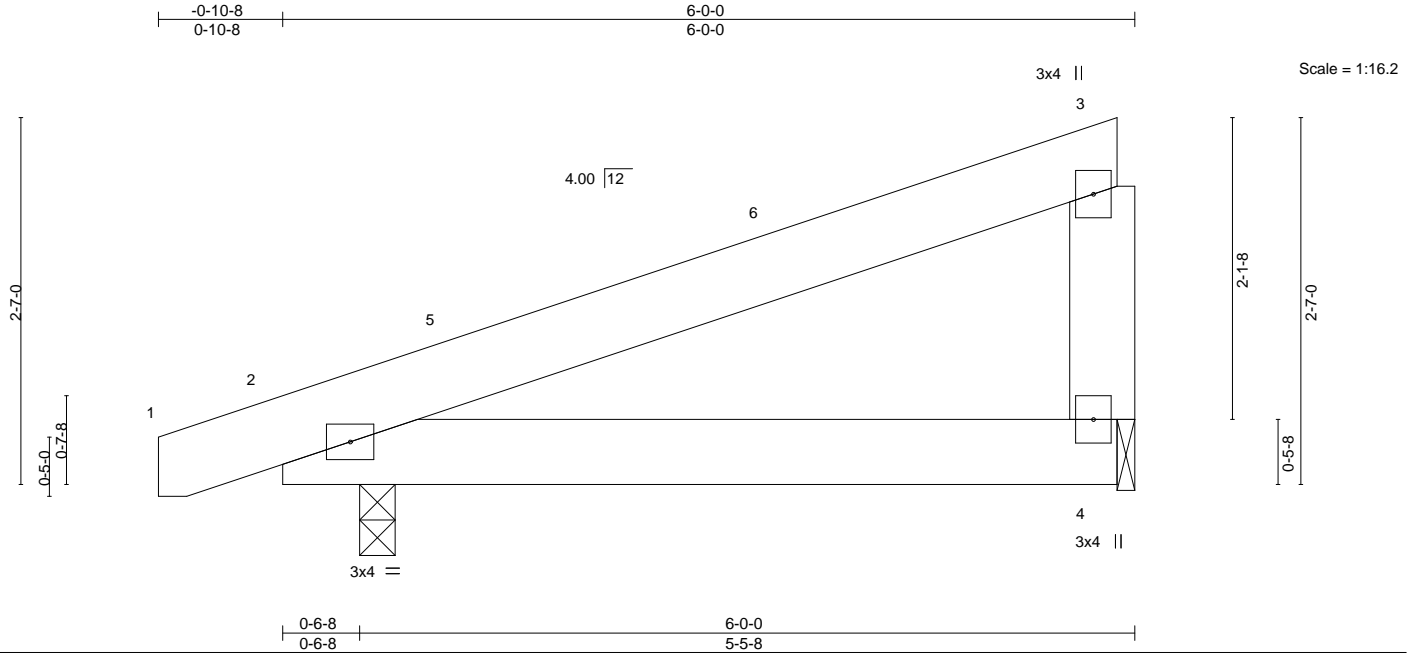
ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job J0520-2221	Truss M03	Truss Type Monopitch	Qty 5	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449930
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:15 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-4b5mebAm_YED3AtNzxDuqSZnk6axnE0te65mpxzC?MA



LOADING (psf)	SPACING-	CSL.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.30	Vert(LL) -0.01	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.03	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.03	2-4	>999	240	Weight: 34 lb	FT = 20%

LUMBER-

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

BRACING-

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

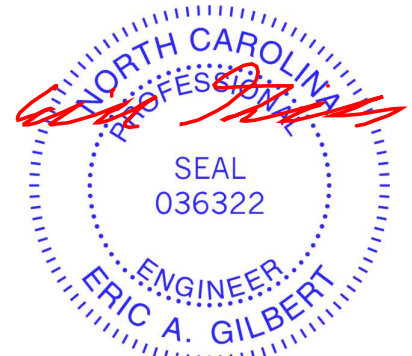
REACTIONS.

(size) 2=0-3-0, 4=0-1-8
Max Horz 2=73(LC 8)
Max Uplift 2=-110(LC 8), 4=-97(LC 8)
Max Grav 2=284(LC 1), 4=222(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 5-9-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=110.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



May 28, 2020

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818 Soundside Road
Edenton, NC 27932

Job J0520-2221	Truss M04	Truss Type Roof Special	Qty 4	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449931
					Job Reference (optional)	

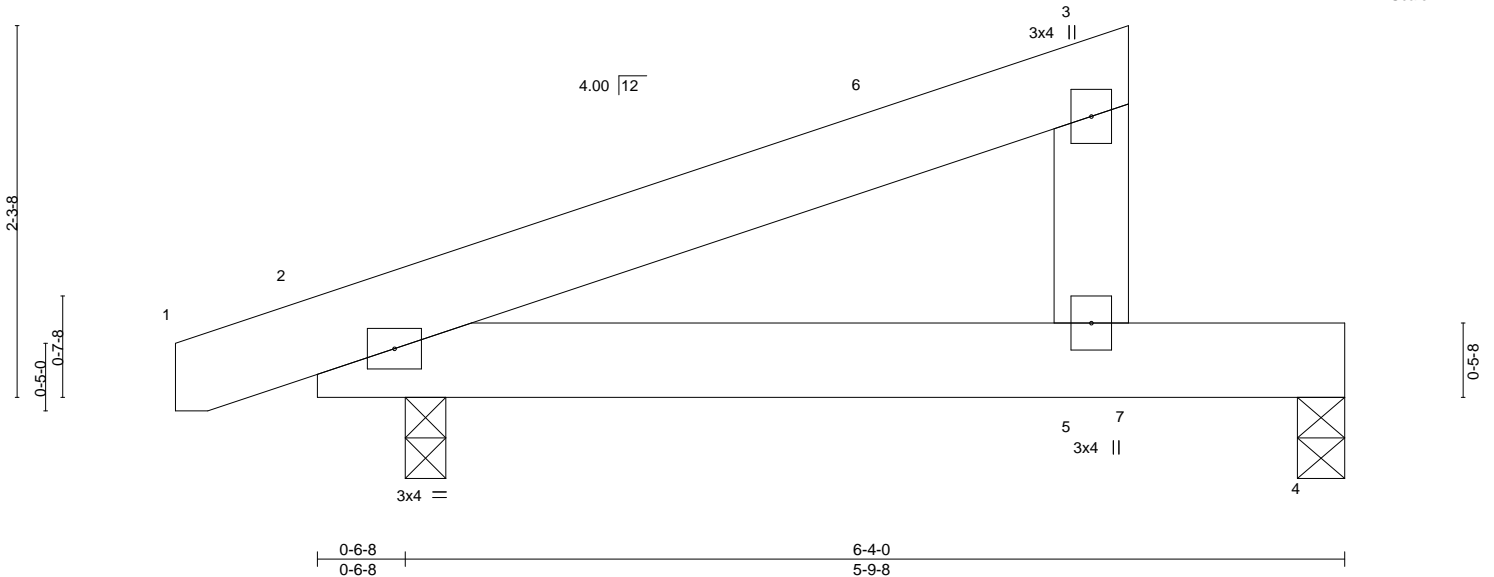
Comtech, Inc., Fayetteville, NC - 28314,

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:16 2020 Page 1

ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-Ynf9sxAOKsM4gJSZXek7Nf6x4WvIWhG0tmrKMnZC?M9



Scale = 1:14.2



LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.33	Vert(LL) -0.04	2-5	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.49	Vert(CT) -0.09	2-5	>846	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-P	Wind(LL) 0.14	2-5	>525	240	Weight: 33 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

REACTIONS. (size) 4=0-3-8, 2=0-3-0
 Max Horz 2=62(LC 8)
 Max Uplift 4=-191(LC 8), 2=-142(LC 8)
 Max Grav 4=466(LC 1), 2=357(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 4-9-4 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=191, 2=142.
- 5) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 6) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) . The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 2-4=-20
 Concentrated Loads (lb)
 Vert: 7=-369



May 28, 2020

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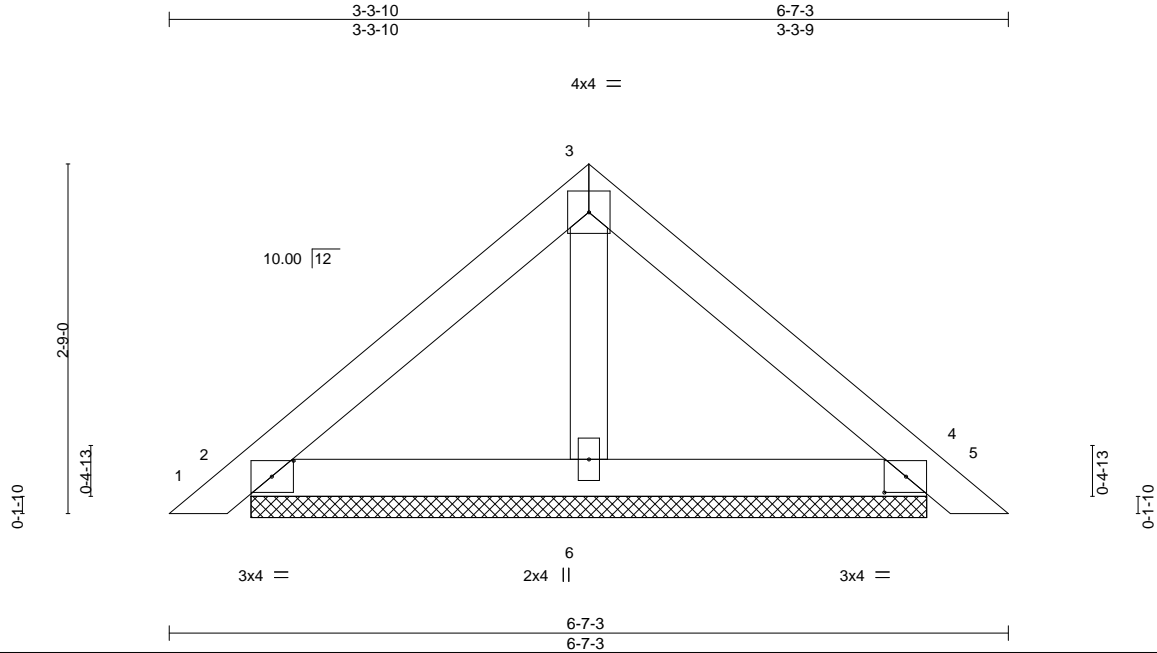


818 Soundside Road
 Edenton, NC 27932

Job J0520-2221	Truss PB01	Truss Type PIGGYBACK	Qty 21	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449932
					Job Reference (optional)	

Comtech, Inc., Fayetteville, NC - 28314,

8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:16 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-Ynf9sxAOksM4gJSZXek7Nf6?bW0cWh10mrKMnzC?M9



Scale = 1:18.1

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.10	Vert(LL) 0.00	5	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.05	Vert(CT) 0.00	5	n/r	120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P					Weight: 24 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. (size) 2=5-3-12, 4=5-3-12, 6=5-3-12
Max Horz 2=-77(LC 10)
Max Uplift 2=-51(LC 12), 4=-61(LC 13)
Max Grav 2=150(LC 1), 4=150(LC 1), 6=175(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; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; end vertical left and right exposed; 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.



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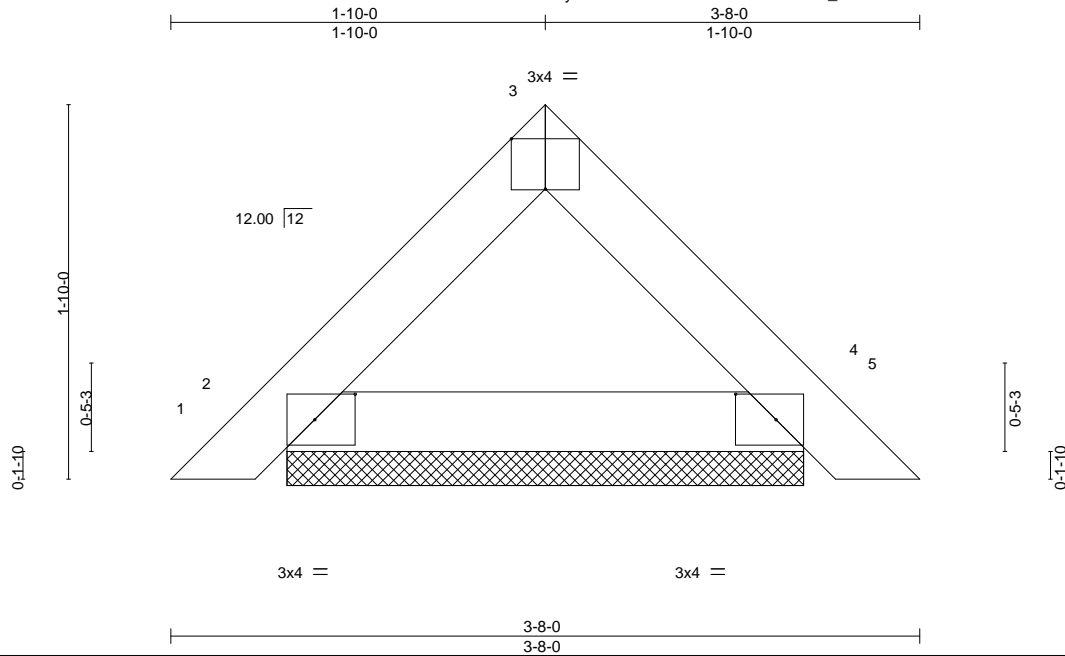
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Edenton, NC 27932

Job J0520-2221	Truss PB02	Truss Type PIGGYBACK	Qty 7	Ply 1	Ben Stout/2-A Dorroch Rd./Harnett	E14449933
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8.330 s May 6 2020 MiTek Industries, Inc. Thu May 28 10:19:17 2020 Page 1
ID:ikQyRsNXi14PrYc3UMF2QWzXTAO-0_DX3GB0V9UwIT1m5MFMvteBYwLqF8WA6QatuqzC?M8



Scale = 1:11.3

Plate Offsets (X,Y)--	[2:0-2-6,0-1-8], [3:0-2-0,Edge], [4:0-2-6,0-1-8]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	0.00	4	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	4	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P					Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-8-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=2-6-6, 4=2-6-6
Max Horz 2=-49(LC 10)
Max Uplift 2=-26(LC 12), 4=-26(LC 13)
Max Grav 2=123(LC 1), 4=123(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; 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
- 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.



May 28, 2020

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

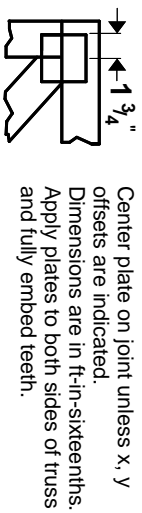
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



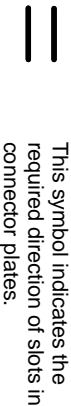
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



For 4 x 2 orientation, locate plates 0- $\frac{1}{16}$ " from outside edge of truss.



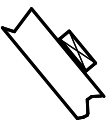
* Plate location details available in **MITrak 20/20 software or upon request.**

PLATE SIZE

4 X 4

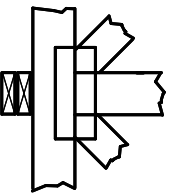
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

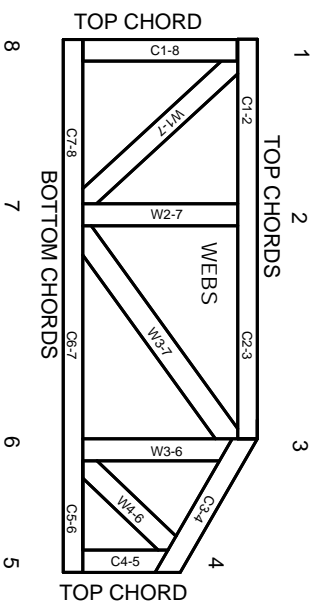


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MITek Engineering Reference Sheet: MII-7473 rev. 10/03/2015



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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