

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0923-5445
The Guilford

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: I61035187 thru I61035221

My license renewal date for the state of North Carolina is December 31, 2023.

North Carolina COA: C-0844



September 26, 2023

Gilbert, Eric

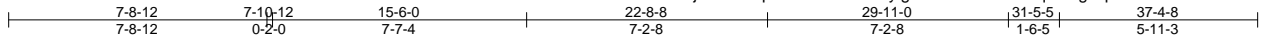
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035187
J0923-5445	A01GE	GABLE	1	1		

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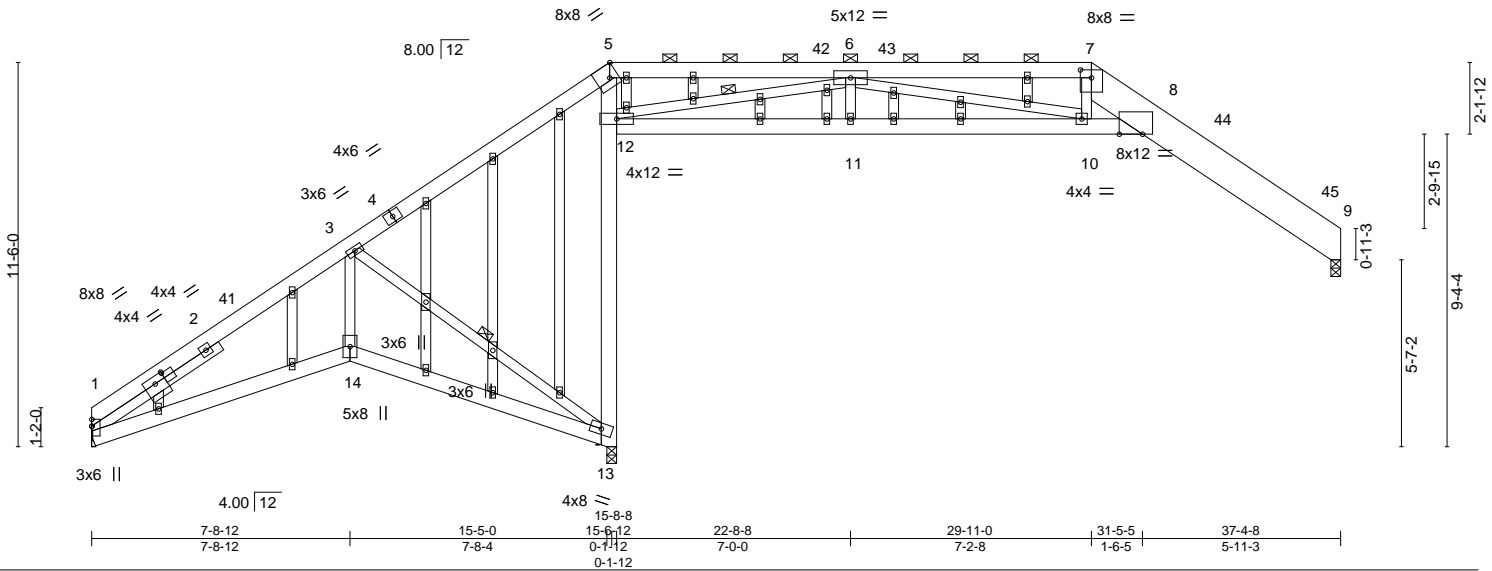


Plate Offsets (X,Y)-- [1:2-7-5,0-2-0], [5:0-3-1,Edge], [7:0-4-0,0-2-13], [8:0-8-6,Edge], [16:0-4-0,0-2-8]

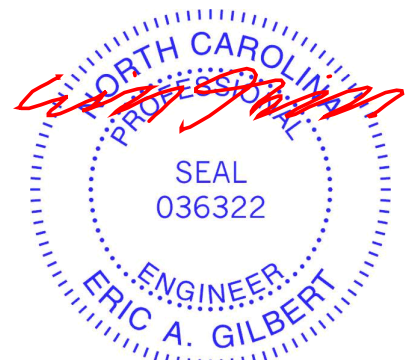
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.22	10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.45	10-11	>585		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.26	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.21	10-11	>999	Weight: 315 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 7-9: 2x12 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-4-5 max.): 5-7.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-13, 6-12
OTHERS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 4-7-11	

REACTIONS. (size) 9=0-3-8, 1=Mechanical, 13=0-3-8
 Max Horz 1=376(LC 12)
 Max Uplift 9=164(LC 13), 1=79(LC 12), 13=329(LC 9)
 Max Grav 9=867(LC 24), 1=581(LC 23), 13=1548(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1024/336, 3-5=-184/254, 6-7=-2802/612, 7-8=-2351/498, 8-9=-426/190
 BOT CHORD 1-14=-533/979, 13-14=-531/977, 12-13=-1155/292, 5-12=-489/219, 11-12=-536/2389,
 10-11=-536/2389, 8-10=-423/2779
 WEBS 3-14=-234/767, 3-13=-1153/619, 6-12=-2469/518, 6-11=0/272, 6-10=-8/466, 7-10=0/288

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 15-6-0, Exterior(2) 15-6-0 to 21-8-11, Interior(1) 21-8-11 to 29-11-0, Exterior(2) 29-11-0 to 36-1-11, Interior(1) 36-1-11 to 37-2-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 9, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 9, 79 lb uplift at joint 1 and 329 lb uplift at joint 13.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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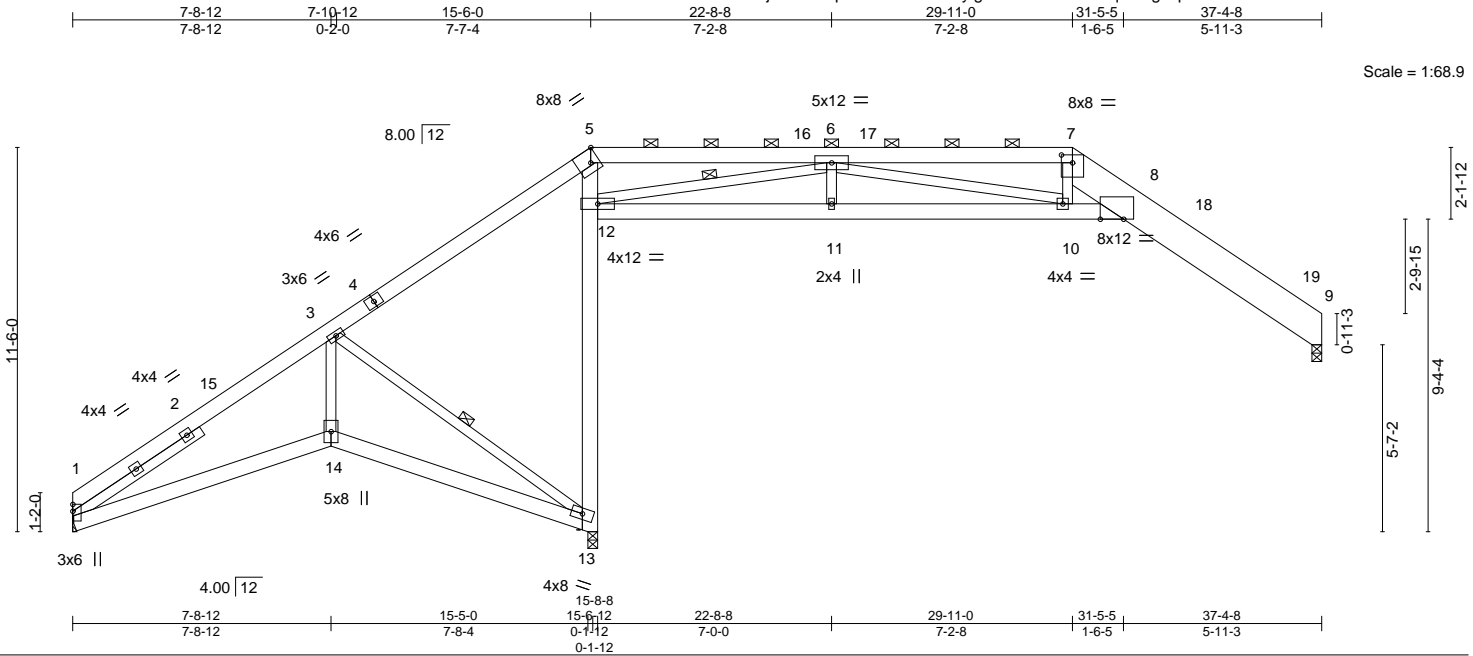
Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035188
J0923-5445	A02	Piggyback Base	5	1		

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Job Reference (optional)



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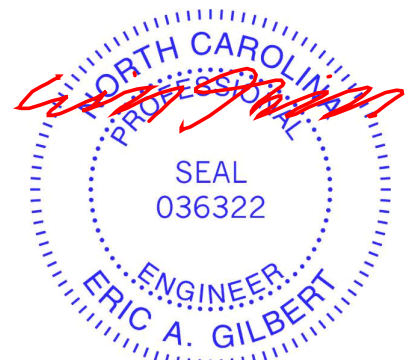
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.86	Vert(LL)	-0.22	10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.45	10-11	>585		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.26	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.15	10	>999	Weight: 273 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 7-9: 2x12 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-4-5 max.): 5-7.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-13, 6-12
SLIDER Left 2x4 SP No.2 4-7-11	

REACTIONS. (size) 9=0-3-8, 1=Mechanical, 13=0-3-8
 Max Horz 1=252(LC 9)
 Max Uplift 9=43(LC 13), 1=-9(LC 12), 13=-137(LC 9)
 Max Grav 9=867(LC 24), 1=581(LC 23), 13=1548(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1024/336, 6-7=-2802/612, 7-8=-2351/498, 8-9=-426/190
 BOT CHORD 1-14=-380/979, 13-14=-378/977, 12-13=-1155/238, 5-12=-489/152, 11-12=-408/2389,
 10-11=-408/2389, 8-10=-406/2779
 WEBS 3-14=-137/767, 3-13=-1153/445, 6-12=-2469/510, 6-11=0/272, 6-10=0/445, 7-10=0/288

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 15-6-0, Exterior(2) 15-6-0 to 21-8-11, Interior(1) 21-8-11 to 29-11-0, Exterior(2) 29-11-0 to 36-1-11, Interior(1) 36-1-11 to 37-2-12 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.
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 9, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 9, 9 lb uplift at joint 1 and 137 lb uplift at joint 13.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

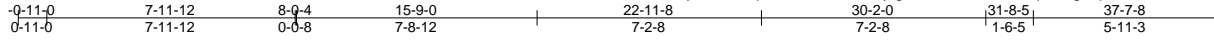
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Job J0923-5445	Truss A03	Truss Type PIGGYBACK BASE	Qty 1	Ply 1	The Guilford	I61035189
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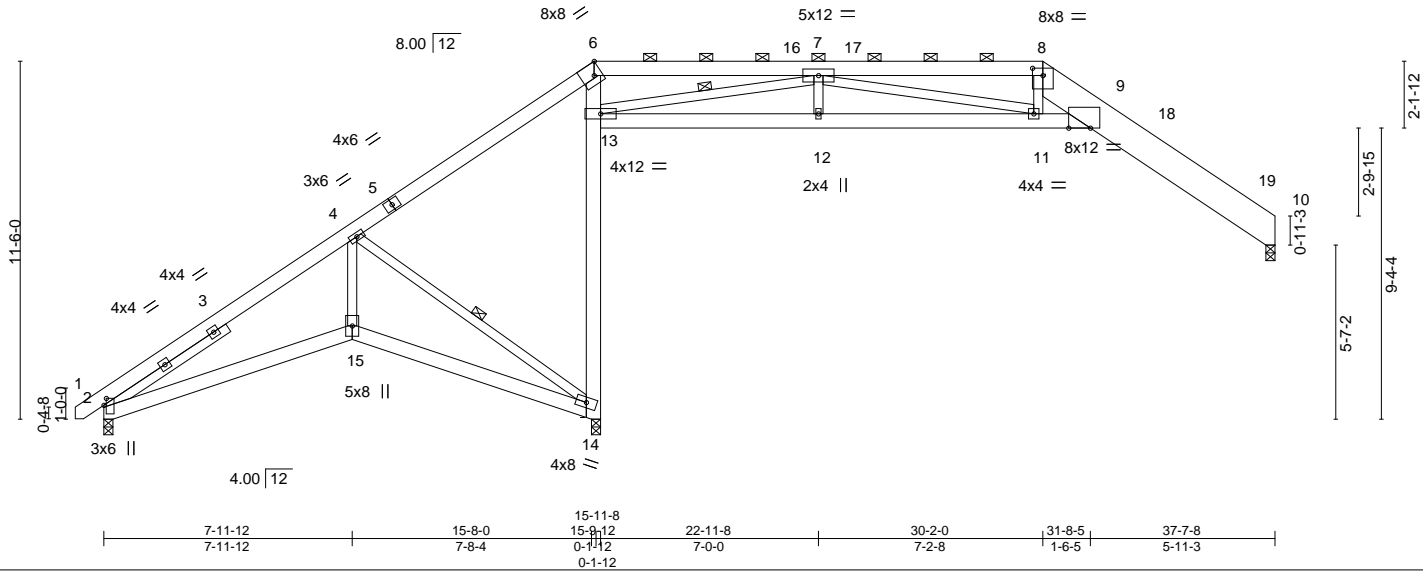


Plate Offsets (X, Y)-- [2:0-2-11,0-0-15], [6:0-3-1,Edge], [8:0-4-0,0-2-13], [9:0-8-6,Edge]

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 0.86	Vert(LL)	-0.22	11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.45	11-12	>585		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.64	Horz(CT)	0.26	10	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.15	11	>999		
								Weight: 277 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 8-10: 2x12 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except 2-0-0 oc purlins (4-4-4 max.): 6-8.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 13-14.
SLIDER Left 2x4 SP No.2 4-8-15	WEBS 1 Row at midpt 7-13, 4-14

REACTIONS. (size) 10=0-3-8, 2=0-3-8, 14=0-3-8
 Max Horz 2=253(LC 9)
 Max Uplift 10=-43(LC 13), 2=-23(LC 12), 14=-137(LC 9)
 Max Grav 10=867(LC 24), 2=649(LC 23), 14=1556(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1052/332, 7-8=-2802/612, 8-9=-2352/498, 9-10=-426/190
 BOT CHORD 2-15=-388/1014, 14-15=-385/1012, 13-14=-1153/238, 6-13=-486/151, 12-13=-407/2389,
 11-12=-407/2389, 9-11=-406/2780
 WEBS 4-15=-142/793, 7-13=-2468/510, 7-12=0/272, 7-11=0/445, 8-11=0/289, 4-14=-1194/453

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 15-9-0, Exterior(2) 15-9-0 to 21-11-11, Interior(1) 21-11-11 to 30-2-0, Exterior(2) 30-2-0 to 36-4-11, Interior(1) 36-4-11 to 37-5-12 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.
 - Bearing at joint(s) 10, 2, 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 10, 23 lb uplift at joint 2 and 137 lb uplift at joint 14.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
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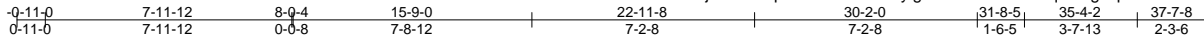
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035190
J0923-5445	A04	PIGGYBACK BASE	1	1		

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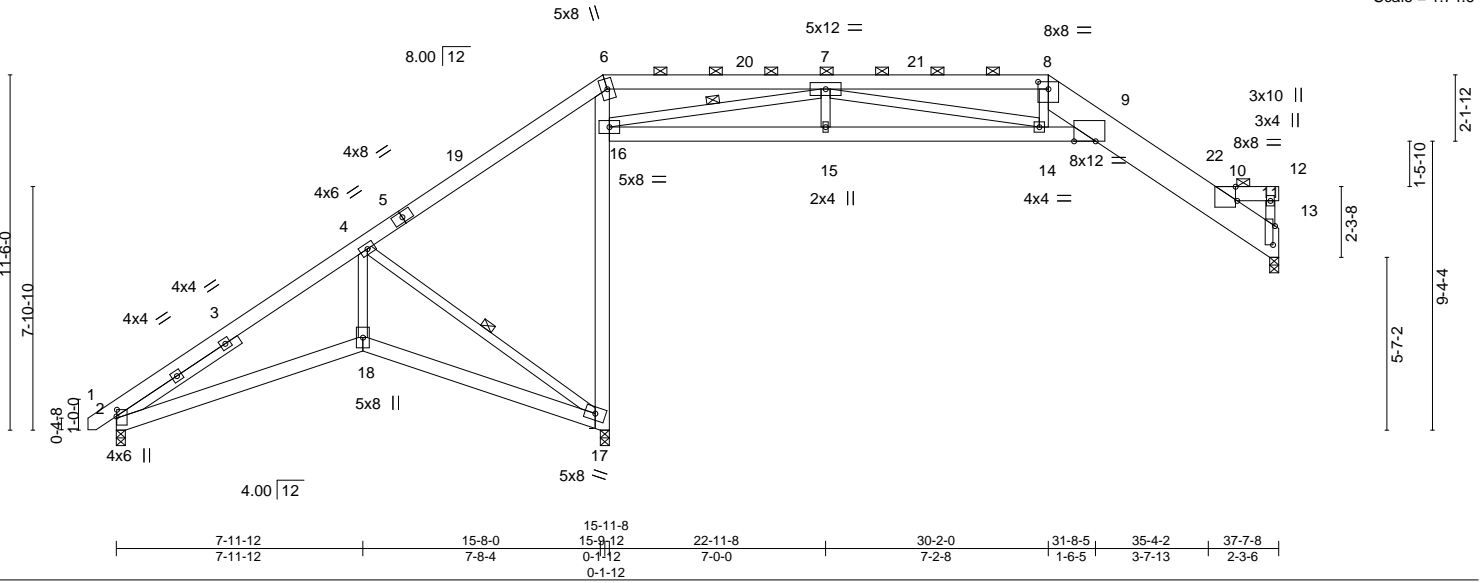


Plate Offsets (X,Y)-- [2:0-2-9,0-0-3], [8:0-4-0,0-2-13], [9:0-8-6,Edge], [10:0-0-10,Edge], [11:0-7-5,0-0-12]

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 0.79	Vert(LL)	-0.22	14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.41	14-15	>636		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.62	Horz(CT)	0.23	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.15	14-15	>999	Weight: 283 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 8-11: 2x12 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-8-11 oc purlins, except end verticals, and 2-0-0 oc purlins (4-5-9 max.): 6-8, 10-11, 10-13.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 16-17.
SLIDER Left 2x4 SP No.2 4-8-15	WEBS 1 Row at midpt 4-17, 7-16

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 11=0-3-8
 Max Horz 2=253(LC 12)
 Max Uplift 2=23(LC 12), 17=149(LC 9), 11=178(LC 13)
 Max Grav 2=652(LC 23), 17=1536(LC 1), 11=1018(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1063/317, 7-8=-2681/678, 8-9=-2272/535, 9-10=-298/165, 10-11=-449/165
 BOT CHORD 2-18=-369/1024, 17-18=-367/1021, 16-17=-1131/253, 6-16=-482/160, 15-16=-435/2341,
 14-15=-435/2341, 9-14=-500/2657
 WEBS 4-18=-131/798, 4-17=-1202/431, 7-16=-2392/526, 7-15=0/272, 7-14=-61/365,
 8-14=0/307

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 15-9-13, Exterior(2) 15-9-13 to 20-2-10, Interior(1) 20-2-10 to 30-2-0, Exterior(2) 30-2-0 to 34-6-13, Interior(1) 34-6-13 to 37-7-8 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.
 - Bearing at joint(s) 2, 17, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 23 lb uplift at joint 2, 149 lb uplift at joint 17 and 178 lb uplift at joint 11.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



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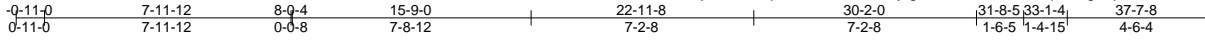
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035191
J0923-5445	A05	PIGGYBACK BASE	1	1	Job Reference (optional)	

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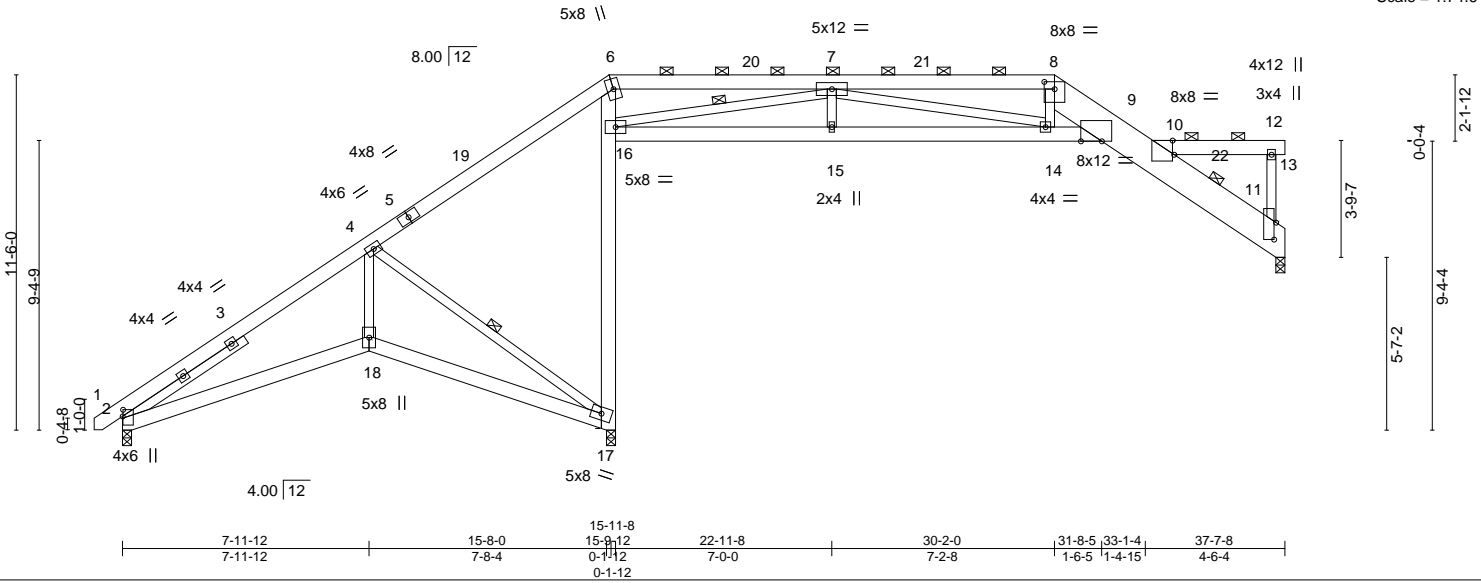


Plate Offsets (X, Y)-- [2:0-2-9,0-0-3], [8:0-4-0,0-2-13], [9:0-8-2,Edge], [10:0-0-10,Edge], [11:0-6-9,0-0-12]

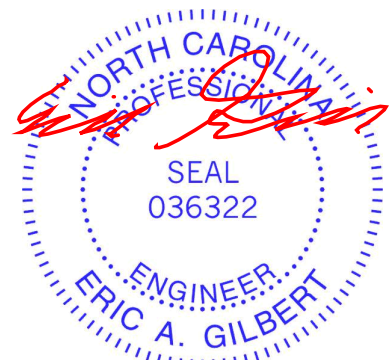
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.87	Vert(LL)	-0.26	14	>987	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.53	Vert(CT)	-0.44	14-15	>581		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.26	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.15	14	>999	Weight: 290 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 8-11: 2x12 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-2-9 max.): 6-8, 10-11, 10-13. Except:
BOT CHORD 2x6 SP No.1	4-11-0 oc bracing: 10-11
WEBS 2x4 SP No.2	Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
SLIDER Left 2x4 SP No.2 4-8-15	6-0-0 oc bracing: 16-17.
	WEBS 1 Row at midpt 4-17, 7-16

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 11=0-3-8
 Max Horz 2=246(LC 12)
 Max Uplift 2=-27(LC 12), 17=-152(LC 9), 11=-239(LC 13)
 Max Grav 2=652(LC 23), 17=1573(LC 1), 11=1284(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1066/321, 7-8=-2981/781, 8-9=-2471/604, 10-11=-506/198, 11-12=-283/113
 BOT CHORD 2-18=-367/1023, 17-18=-365/1021, 16-17=-1169/262, 6-16=-486/157, 15-16=-478/2475,
 14-15=-478/2475, 9-14=-599/2960
 WEBS 4-18=-130/798, 4-17=-1201/429, 7-16=-2536/574, 7-15=0/272, 7-14=-117/534,
 8-14=0/305

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 15-9-13, Exterior(2) 15-9-13 to 20-2-10, Interior(1) 20-2-10 to 30-2-0, Exterior(2) 30-2-0 to 34-6-13, Interior(1) 34-6-13 to 37-7-8 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 2, 17, 11 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 2, 152 lb uplift at joint 17 and 239 lb uplift at joint 11.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.



September 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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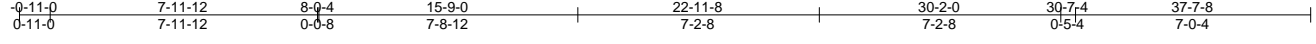
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035192
J0923-5445	A06	PIGGYBACK BASE	1	1		

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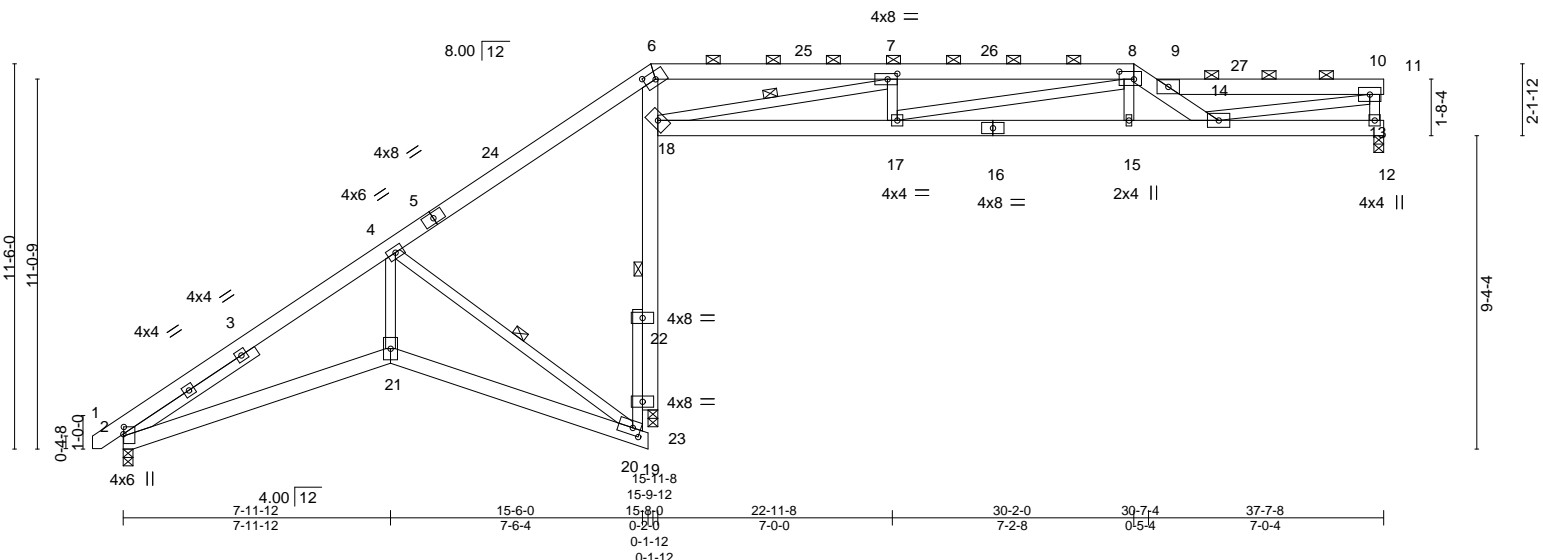


Plate Offsets (X, Y)-- [2:0-2-9,0-0-3], [6:0-4-0,0-2-12], [7:0-3-8,0-2-0], [8:0-5-4,0-2-12], [20:0-2-14,0-2-8]

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 0.41	Vert(LL)	-0.14	15-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.29	15-17	>905		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.63	Horz(CT)	0.03	23	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.11	15-17	>999		
								Weight: 279 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 8-14: 2x6 SP 2400F 2.0E	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (4-10-4 max.): 6-8, 9-14, 9-11.
BOT CHORD 2x6 SP No.1 *Except* 20-22: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 18-20
OTHERS 2x6 SP No.1	WEBS 1 Row at midpt 4-20, 7-18
SLIDER Left 2x4 SP No.2 4-8-15	

REACTIONS. (size) 13=0-3-8, 2=0-3-8, 23=0-3-8
 Max Horz 2=351(LC 12)
 Max Uplift 13=-77(LC 8), 23=-183(LC 9)
 Max Grav 13=853(LC 24), 2=602(LC 1), 23=1593(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-927/77, 7-8=-2316/509, 8-9=-2278/525, 9-14=-646/205, 9-10=-2135/460, 10-13=-725/216
 BOT CHORD 2-21=-362/955, 20-21=-358/950, 20-23=-119/507, 18-23=-1171/389, 6-18=-511/280, 17-18=-492/2316, 15-17=-584/2520, 14-15=-586/2499, 13-14=-82/263
 WEBS 4-21=-130/749, 4-20=-1180/447, 7-18=-2418/586, 7-17=0/307, 8-15=0/313, 10-14=-391/1935

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 15-9-13, Exterior(2) 15-9-13 to 20-2-10, Interior(1) 20-2-10 to 30-2-0, Exterior(2) 30-2-0 to 30-9-6, Interior(1) 30-9-6 to 37-7-8 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.
 - All plates are 5x8 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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.
 - Bearing at joint(s) 2, 23 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 77 lb uplift at joint 13 and 183 lb uplift at joint 23.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 26, 2023

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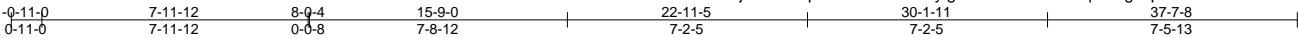
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035193
J0923-5445	A07	PIGGYBACK BASE	3	1		

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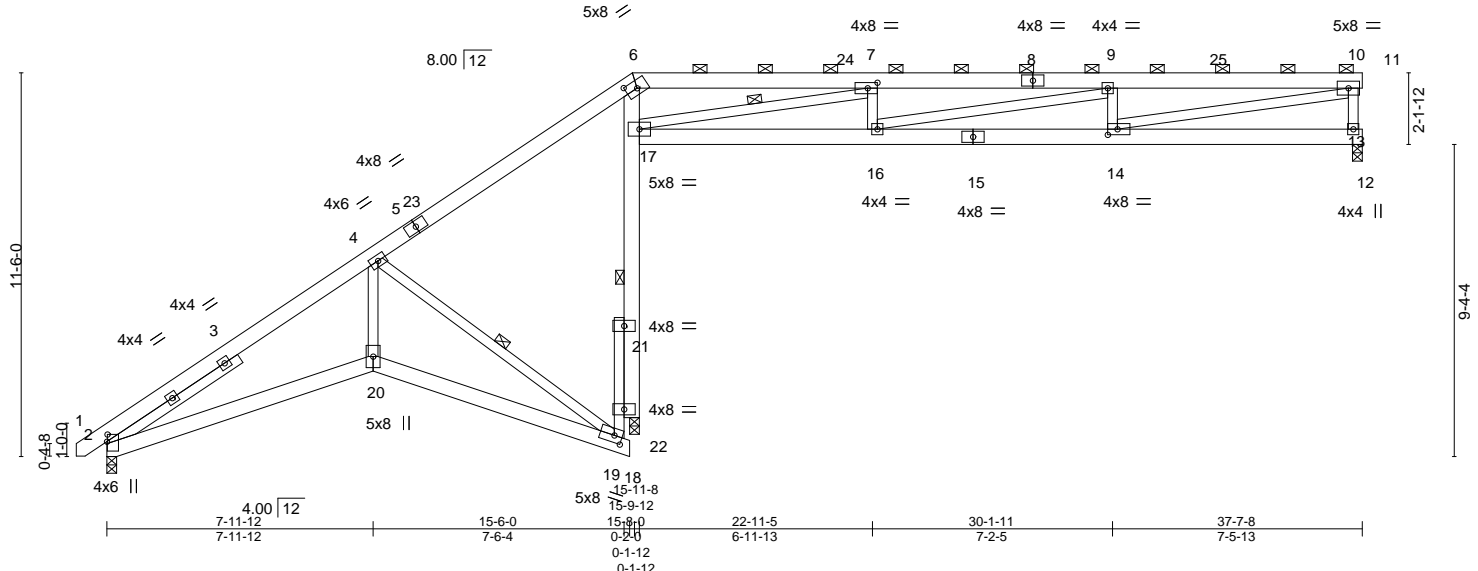


Plate Offsets (X, Y)-- [2:0-2-9,0-0-3], [6:0-4-0,0-2-12], [7:0-3-8,0-2-0], [14:0-3-8,0-2-0], [19:0-2-14,0-2-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.15 14-16 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.62	Vert(CT) -0.30 14-16 >879 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 22 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.12 14-16 >999 240	Weight: 278 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 (4-9-7 max.): 6-11.
BOT CHORD 2x6 SP No.1 *Except* 19-21: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 17-19
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-19, 7-17
OTHERS 2x6 SP No.1	
SLIDER Left 2x4 SP No.2 4-8-15	

REACTIONS. (size) 13=0-3-8, 2=0-3-8, 22=0-3-8
 Max Horz 2=361(LC 12)
 Max Uplift 13=-90(LC 8), 22=-197(LC 9)
 Max Grav 13=843(LC 24), 2=584(LC 1), 22=1619(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-884/40, 4-6=-196/251, 7-9=-2246/464, 9-10=-2392/489, 10-13=-741/216
 BOT CHORD 2-20=-370/925, 19-20=-366/920, 19-22=-129/508, 17-22=-1200/405, 6-17=-532/315,
 16-17=-464/2246, 14-16=-489/2392
 WEBS 4-20=-135/733, 4-19=-1171/467, 7-17=-2419/569, 7-16=0/296, 9-14=-395/205,
 10-14=-463/2266

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 15-9-13, Exterior(2) 15-9-13 to 22-0-8, Interior(1) 22-0-8 to 37-7-8 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 2, 22 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 90 lb uplift at joint 13 and 197 lb uplift at joint 22.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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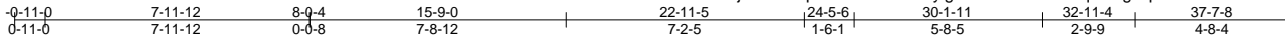
TRENCO
 ENGINEERING BY
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035194
J0923-5445	A08	PIGGYBACK BASE	1	1		
Comtech, Inc. Fayetteville, NC - 28314,						Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

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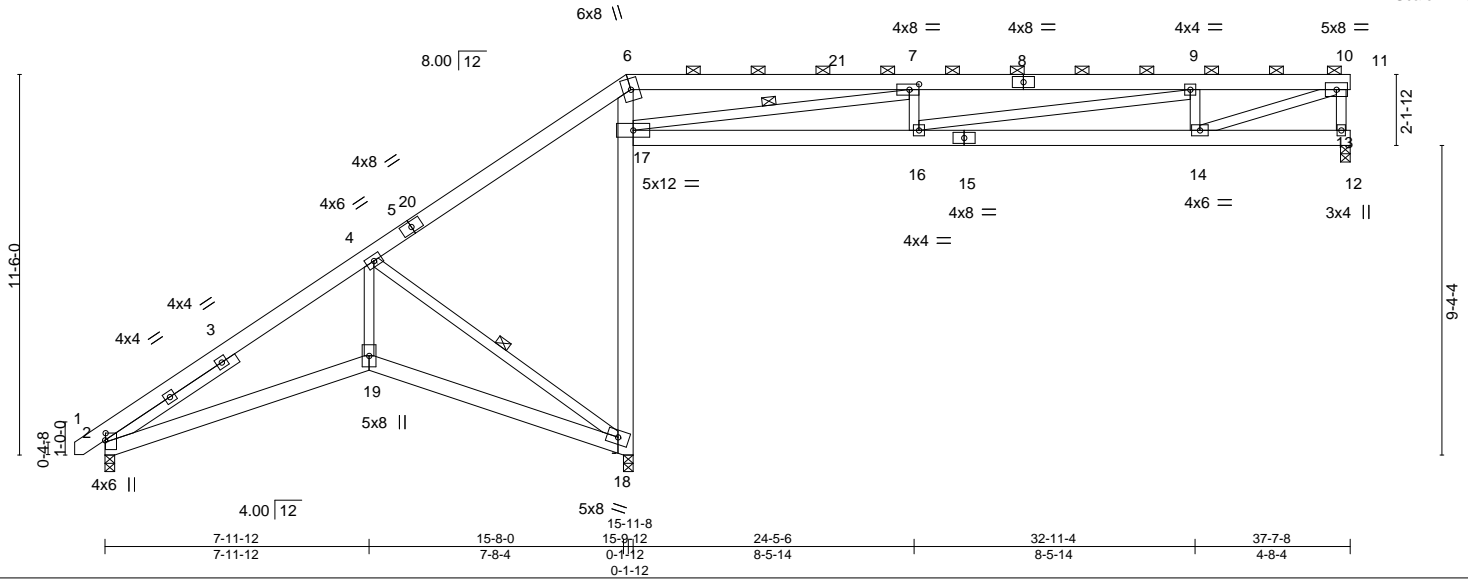


Plate Offsets (X, Y)--	[2:0-2-9,0-0-3], [7:0-3-8,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.16 14-16 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.44	Vert(CT) -0.33 14-16 >789 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.05 18 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.13 14-16 >999 240	Weight: 275 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 (4-4-3 max.): 6-11.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 17-18.
SLIDER Left 2x4 SP No.2 4-8-15	WEBS 1 Row at midpt 4-18, 7-17

REACTIONS.	(size) 13=0-3-8, 2=0-3-8, 18=0-3-8
	Max Horz 2=361(LC 12)
	Max Uplift 13=-91(LC 8), 18=-181(LC 9)
	Max Grav 13=864(LC 24), 2=657(LC 1), 18=1528(LC 1)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-4=-1077/100, 7-9=-2673/577, 9-10=-1954/423, 10-13=-819/207
BOT CHORD	2-19=-425/1071, 18-19=-422/1067, 17-18=-1120/376, 6-17=-519/307, 16-17=-577/2673, 14-16=-423/1954
WEBS	4-19=-166/826, 4-18=-1245/491, 7-17=-2571/580, 9-16=-173/733, 9-14=-575/240, 10-14=-435/2029

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 15-9-13, Exterior(2) 15-9-13 to 22-0-8, Interior(1) 22-0-8 to 37-7-8 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 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Bearing at joint(s) 2, 18 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 13 and 181 lb uplift at joint 18.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 26, 2023

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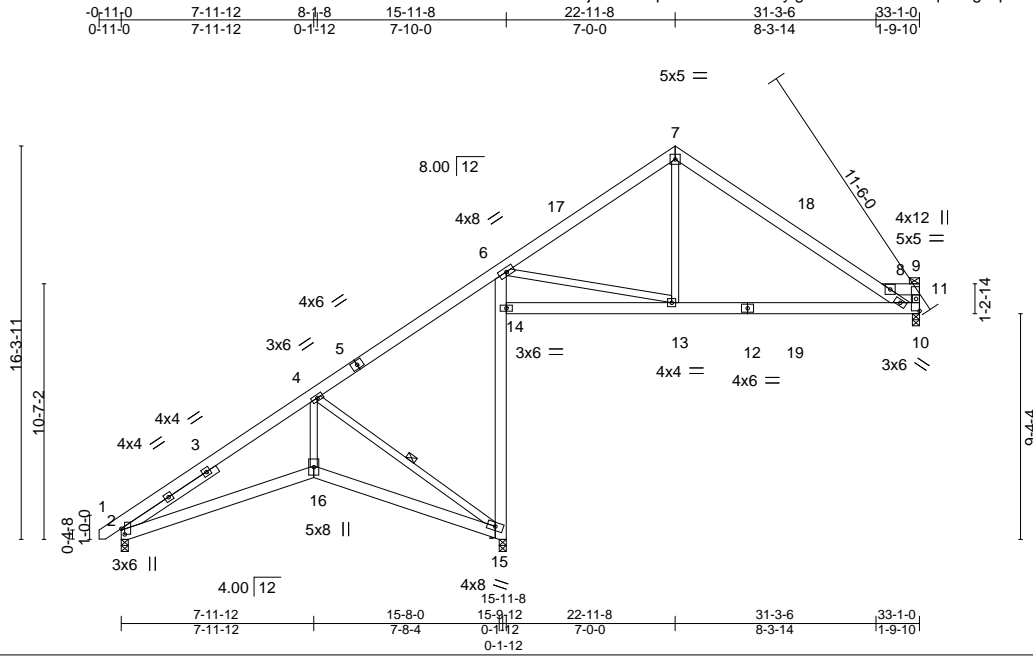
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035195
J0923-5445	A09	ROOF SPECIAL	1	1		

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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:24:53 2023 Page 1

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Scale: 1/8"=1'

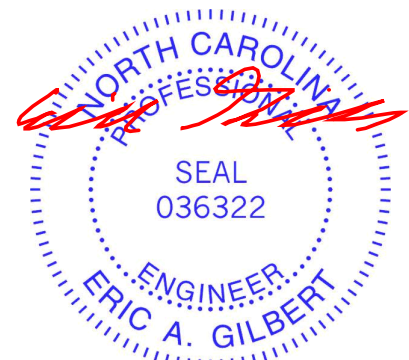
Plate Offsets (X,Y)--	[2:0-2-13,0-1-11]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.47	Vert(LL) -0.10 11-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.42	Vert(CT) -0.20 11-13 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.48	Horz(CT) 0.05 15 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 11-13 >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.): 8-11, 8-9.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-15
SLIDER Left 2x4 SP No.2 4-8-15	

REACTIONS. (size) 10=0-3-8, 2=0-3-8, 15=0-3-8
 Max Horz 2=399(LC 12)
 Max Uplift 10=-43(LC 13), 15=-274(LC 12)
 Max Grav 10=695(LC 20), 2=659(LC 1), 15=1492(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1075/142, 4-6=-241/254, 6-7=-828/185, 7-8=-744/153, 8-11=-784/234
 BOT CHORD 2-16=-376/1042, 15-16=-372/1037, 14-15=-1058/294, 6-14=-1033/338, 11-13=-6/573
 WEBS 4-16=-137/807, 4-15=-1197/428, 6-13=-30/595, 7-13=0/343

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 22-11-8, Exterior(2) 22-11-8 to 27-4-5, Interior(1) 27-4-5 to 32-11-4 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 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.
 - 6) Bearing at joint(s) 2, 15 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 43 lb uplift at joint 10 and 274 lb uplift at joint 15.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 26, 2023

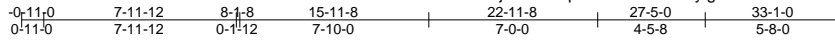
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0923-5445	Truss A10	Truss Type ROOF SPECIAL	Qty 3	Ply 1	The Guilford	I61035196
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:24:54 2023 Page 1

ID: BxjBsXsSlZp9FDDWLx?eR?yIguH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCdoi7J4zJC?f



5x5 =

Scale: 1/8"=1'

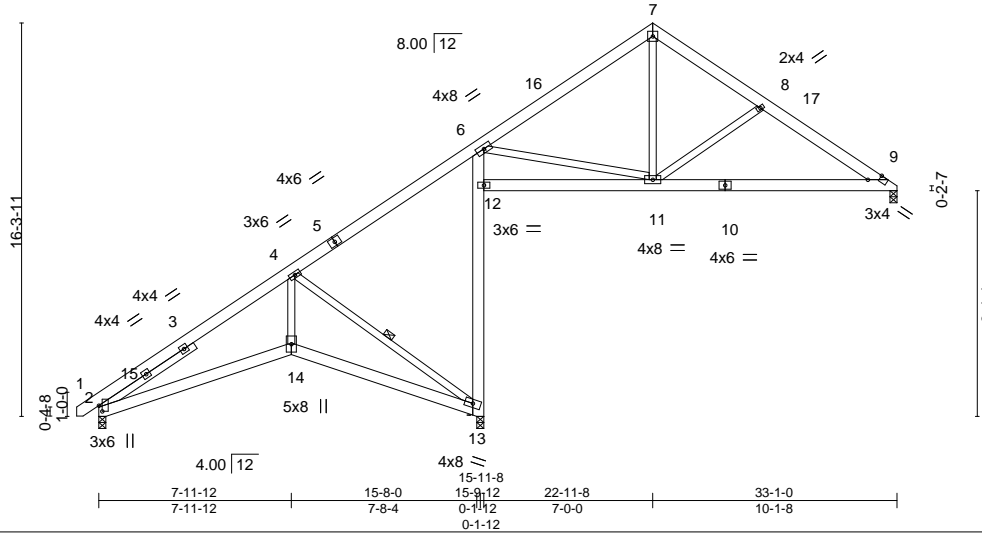


Plate Offsets (X,Y)-- [2:0-2-13,0-1-11], [9:0-4-10,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.06 9-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.48	Vert(CT) -0.13 9-11 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 2-14 >999 240	Weight: 251 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except:
WEBS 2x4 SP No.2	6-0-0 oc bracing: 12-13.
SLIDER Left 2x4 SP No.2 4-8-15	WEBS 1 Row at midpt 4-13

REACTIONS. (size) 9=0-3-8, 2=0-3-8, 13=0-3-8
 Max Horz 2=383(LC 12)
 Max Uplift 9=44(LC 13), 13=263(LC 12)
 Max Grav 9=668(LC 1), 2=658(LC 1), 13=1420(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1071/168, 4-6=-249/262, 6-7=-689/166, 7-8=-635/190, 8-9=-906/238
 BOT CHORD 2-14=-365/1033, 13-14=-361/1029, 12-13=-986/266, 6-12=-932/297, 9-11=-117/724
 WEBS 4-14=-130/802, 4-13=-1188/416, 6-11=0/439, 7-11=-19/413, 8-11=-390/220

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 22-11-8, Exterior(2) 22-11-8 to 27-7-7, Interior(1) 27-7-7 to 32-11-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Bearing at joint(s) 2, 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 9 and 263 lb uplift at joint 13.



September 26, 2023

Job J0923-5445	Truss A11-GR	Truss Type ATTIC	Qty 1	Ply 3	The Guilford	161035197
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:24:57 2023 Page 1

0-11-0	7-11-12	8-3-5	15-9-0	15-9-12	22-11-14	30-2-0	32-9-8	37-4-0
0-11-0	7-11-12	0-3-9	7-5-11	0-0-12	7-2-2	7-2-2	2-7-8	4-6-8

ID: BxjBsXSslZp9FDDWLx?eR?ylguH-RIC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Job Reference (optional)

6x6 =

2x4 ||

6x8 =

Scale = 1:76.8

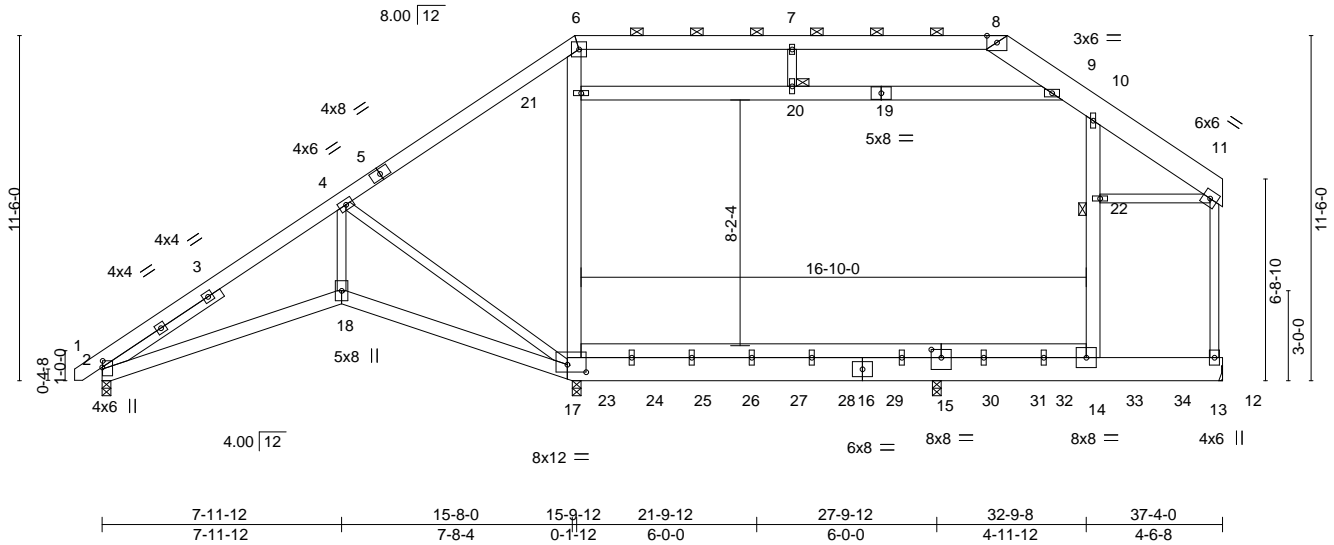


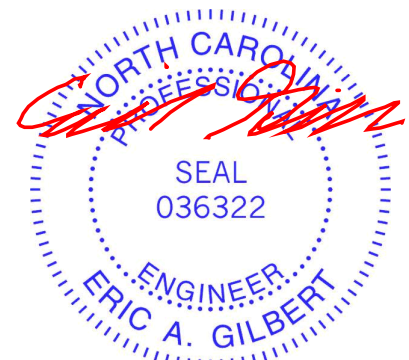
Plate Offsets (X,Y)--	[2:0-2-9,0-0-3], [15:0-4-0,0-3-4], [17:0-7-8,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.46	Vert(LL) -0.15 15-17 >981 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.64	Vert(CT) -0.18 15-17 >843 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.43	Horz(CT) 0.02 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.07 14 >999 240	Weight: 1207 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 8-11: 2x10 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.): 6-8.
BOT CHORD 2x6 SP No.1 *Except* 16-17: 2x10 SP No.1, 12-16: 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 6-17,10-14,9-19,19-21: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 20, 22
SLIDER Left 2x4 SP No.2 4-8-15	

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.
 (lb) - Max Horz 2=260(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2 except 13=278(LC 9)
 Max Grav All reactions 250 lb or less at joint(s) except 2=917(LC 1), 17=2713(LC 22), 13=3923(LC 14), 15=8796(LC 14)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1785/218, 4-6=-596/198, 6-7=-838/177, 7-8=-838/177, 8-9=-982/187, 9-10=-716/123, 10-11=-1062/150, 11-13=-866/143
 BOT CHORD 2-18=-354/1504, 17-18=-353/1500, 15-17=-35/375, 14-15=-33/366
 WEBS 4-18=-130/1084, 4-17=-1285/388, 17-21=-760/120, 6-21=-522/143, 14-22=-345/306, 10-22=-306/301, 20-21=-45/473, 9-20=-45/475, 11-22=-65/703

- NOTES-**
- 3-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, 2x10 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 5 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x6 MT20 unless otherwise indicated.



September 26, 2023

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035197
J0923-5445	A11-GR	ATTIC	1	3	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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NOTES-

- 7) Concentrated loads from layout are not present in Load Case(s): #3 Dead + Uninhabitable Attic Without Storage; #4 Dead + 0.6 MWFRS Wind (Pos. Internal) Left; #5 Dead + 0.6 MWFRS Wind (Pos. Internal) Right; #6 Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #7 Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #8 Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel; #9 Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel; #10 Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #11 Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel; #12 Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #13 Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #20 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #21 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #22 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #23 Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel); #28 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left; #29 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right; #30 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left; #31 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right; #32 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel; #33 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel; #34 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel; #35 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel; #36 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel; #37 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel; #38 Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left); #39 Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right); #40 Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel); #41 Reversal: Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel).
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Ceiling dead load (10.0 psf) on member(s). 20-21, 9-20, 11-22; Wall dead load (5.0psf) on member(s).17-21, 14-22
- 11) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17, 14-15
- 12) Refer to girder(s) for truss to truss connections.
- 13) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 14) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 13=278.
- 15) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
- 16) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 17) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 4554 lb down and 483 lb up at 32-11-4, 590 lb down at 16-8-5, 590 lb down at 18-3-8, 590 lb down at 19-10-11, 590 lb down at 21-5-14, 590 lb down at 23-1-1, 590 lb down at 24-8-4, 533 lb down at 26-3-7, 533 lb down at 27-10-10, 533 lb down at 29-5-13, 533 lb down at 31-1-0, 533 lb down at 31-11-4, and 533 lb down at 34-3-6, and 533 lb down at 35-10-9 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 18) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-60, 6-8=-60, 8-11=-60, 2-18=-20, 17-18=-20, 13-17=-40, 12-13=-20, 9-21=-20, 11-22=-20

Drag: 17-21=-10, 14-22=-10

Concentrated Loads (lb)

Vert: 14=-4500(F) 15=-109(F) 23=-149(F) 24=-149(F) 25=-149(F) 26=-149(F) 27=-149(F) 28=-149(F) 29=-109(F) 30=-109(F) 31=-109(F) 32=-109(F) 33=-109(F) 34=-109(F)

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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 and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



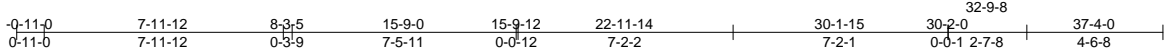
818 Soundside Road
Edenton, NC 27932

Job J0923-5445	Truss A12	Truss Type ATTIC	Qty 2	Ply 1	The Guilford	I61035198
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:24:59 2023 Page 1

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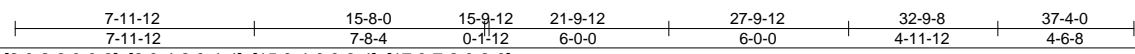
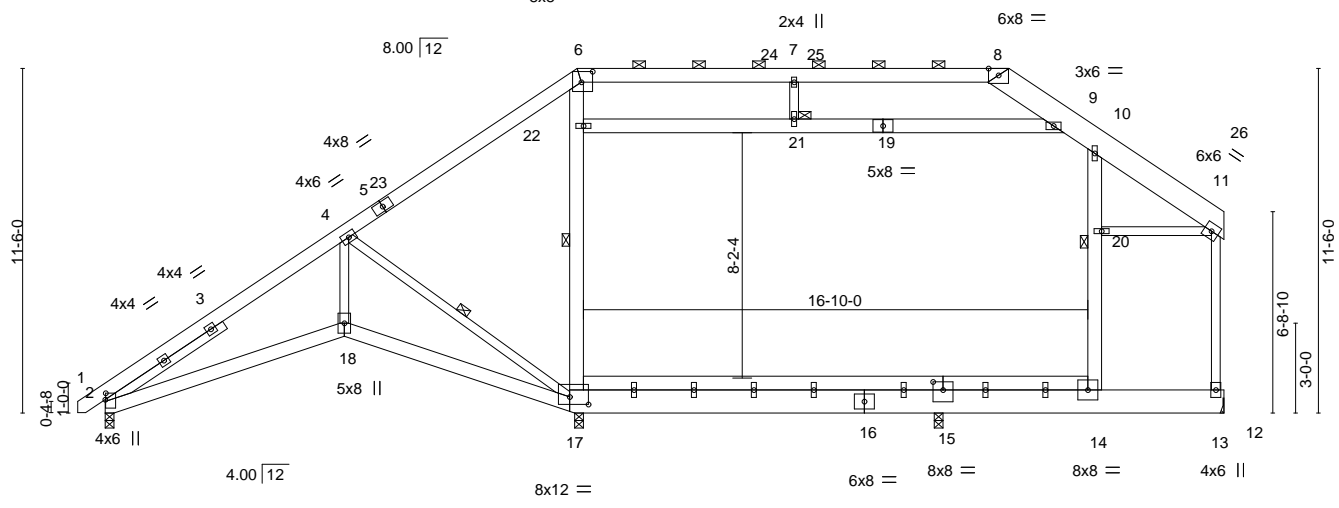


Plate Offsets (X,Y)--	[2:0-2-9,0-0-3], [6:0-4-8,0-4-4], [15:0-4-0,0-3-4], [17:0-7-8,0-3-0]
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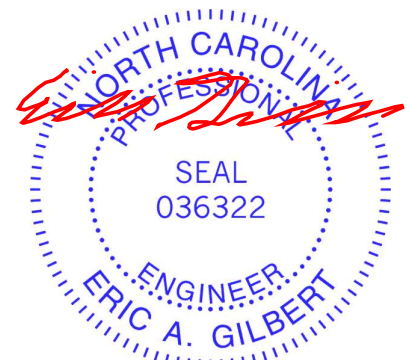
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.13	15-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.93	Vert(CT)	-0.16	15-17	>920		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.76	Horz(CT)	0.05	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.05	14	>999		
								Weight: 402 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 8-11: 2x10 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 (5-0-0 max.): 6-8.
BOT CHORD 2x6 SP No.1 *Except* 16-17,12-16: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 4-9-5 oc bracing.
WEBS 2x4 SP No.2 *Except* 6-17,10-14,9-19,19-22: 2x6 SP No.1	WEBS 1 Row at midpt 4-17, 17-22
SLIDER Left 2x4 SP No.2 4-8-15	JOINTS 1 Brace at Jt(s): 20, 21

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.
 (lb) - Max Horz 2=260(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2
 Max Grav All reactions 250 lb or less at joint(s) except 2=742(LC 1), 17=1657(LC 20), 13=815(LC 21), 15=1886(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-1293/371, 4-6=-315/189, 6-7=-474/268, 7-8=-474/268, 8-9=-701/303, 9-10=-537/230
 BOT CHORD 2-18=-438/1141, 17-18=-437/1134
 WEBS 4-18=-182/853, 4-17=-1203/477, 17-22=-881/175, 6-22=-651/187, 14-20=-1088/233, 10-20=-1015/260, 21-22=-49/342, 9-21=-50/344, 11-20=-34/258

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-9-7 to 3-7-6, Interior(1) 3-7-6 to 15-9-13, Exterior(2) 15-9-13 to 22-0-8, Interior(1) 22-0-8 to 29-9-12, Exterior(2) 29-9-12 to 36-0-6, Interior(1) 36-0-6 to 37-1-9 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.
 - All plates are 2x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 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). 21-22, 9-21, 11-20; Wall dead load (5.0psf) on member(s). 17-22, 14-20
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17, 14-15
 - Refer to girder(s) for truss to truss connections.
 - Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
 - Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
 - 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.



September 26, 2023

Continued on page 2

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ENGINEERING BY
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035198
J0923-5445	A12	ATTIC	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:24:59 2023 Page 2
 ID:BxjBsXSslZp9FDDWLx?eR?ylguH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-6=-60, 6-8=-60, 8-11=-60, 2-18=-20, 17-18=-20, 13-17=-40, 12-13=-20, 9-22=-20, 11-20=-20

Drag: 17-22=-10, 14-20=-10

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



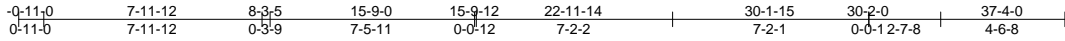
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	The Guilford	161035199
J0923-5445	A13GE	GABLE	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

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ID: BxjBsXsSlZp9FDDWLx?eR?yIguH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f



Scale = 1:84.2

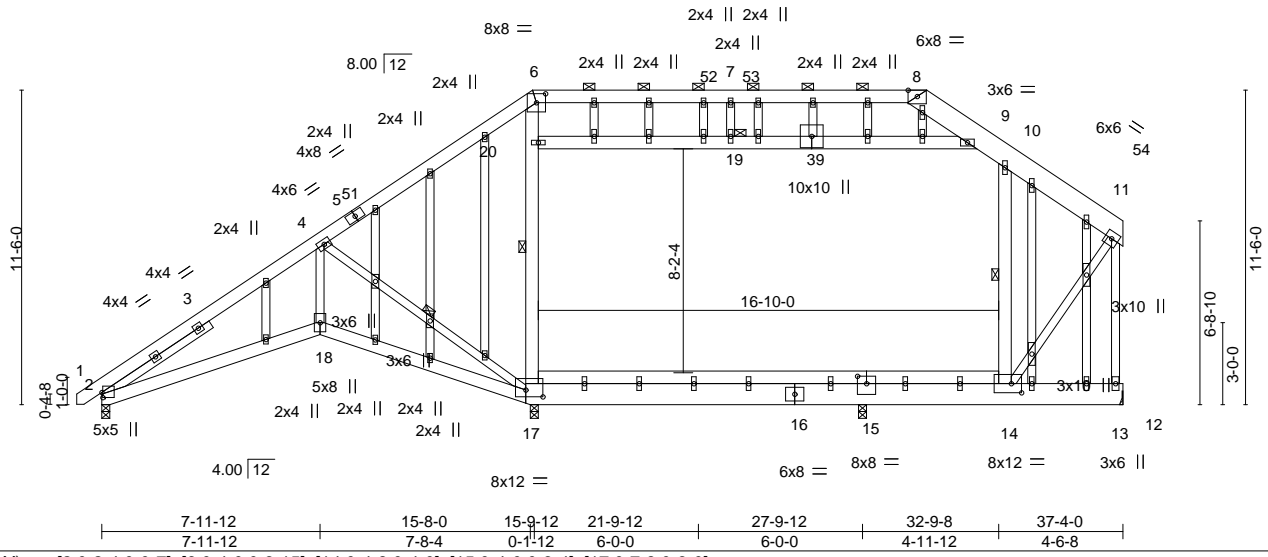


Plate Offsets (X, Y)--	[2:0-2-4,0-0-7], [6:0-4-0,0-3-15], [14:0-4-8,0-4-0], [15:0-4-0,0-3-4], [17:0-7-8,0-3-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.85	Vert(LL)	-0.14 15-17	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.72	Vert(CT)	-0.20 15-17	>764	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.69	Horz(CT)	0.09 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.05 18	>999	240	Weight: 471 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 8-11: 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-9-2 oc purlins, except end verticals, and 2-0-0 oc purlins (4-3-4 max.): 6-8.
BOT CHORD 2x6 SP No.1 *Except* 16-17,12-16: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 6-17,10-14,9-39,20-39: 2x6 SP No.1	WEBS 1 Row at midpt 4-17, 17-20, 10-14
OTHERS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 19
SLIDER Left 2x4 SP No.2 4-8-15	

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.
 (lb) - Max Horz 2=389(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 2 except 17=-107(LC 12), 13=-127(LC 8)
 Max Grav All reactions 250 lb or less at joint(s) except 2=993(LC 1), 17=1518(LC 20), 13=1126(LC 25), 15=1590(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-2009/446, 4-6=-715/291, 6-7=-688/287, 7-8=-688/287, 8-9=-896/322,
 9-10=-889/266, 10-11=-537/128, 11-13=-986/181
 BOT CHORD 2-18=-504/1621, 17-18=-503/1614, 15-17=-95/532, 14-15=-93/532
 WEBS 4-18=-221/1138, 4-17=-1374/625, 17-20=-666/236, 6-20=-439/244, 10-14=-956/149,
 11-14=-169/958

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 15-9-13, Exterior(2) 15-9-13 to 22-0-8, Interior(1) 22-0-8 to 29-9-12, Exterior(2) 29-9-12 to 36-0-6, Interior(1) 36-0-6 to 37-1-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) Provide adequate drainage to prevent water ponding.
 - 5) All plates are 2x6 MT20 unless otherwise indicated.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Ceiling dead load (10.0 psf) on member(s). 9-10, 19-20, 9-19; Wall dead load (5.0psf) on member(s). 17-20, 10-14
 - 10) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 15-17, 14-15
 - 11) Refer to girder(s) for truss to truss connections.

Continued on page 2



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ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job J0923-5445	Truss A13GE	Truss Type GABLE	Qty 1	Ply 1	The Guilford Job Reference (optional)	I61035199
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:01 2023 Page 2
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NOTES-

- 12) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 17=107, 13=127.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) Attic room checked for L/360 deflection.

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.

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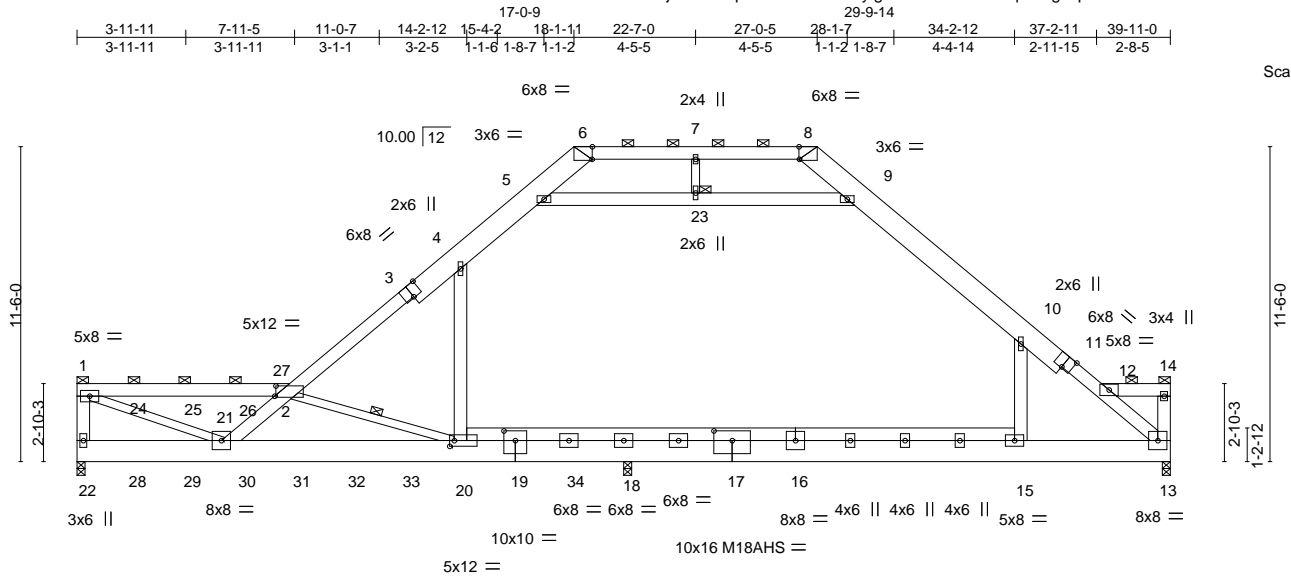
818 Soundside Road
Edenton, NC 27932

Job J0923-5445	Truss B01-GR	Truss Type ATTIC GIRDER	Qty 1	Ply 1	The Guilford	I61035200
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:03 2023 Page 1

ID: BxjBsXsSlZp9FDDWLx?eR?yIguH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f



Scale = 1:84.1

Plate Offsets (X, Y)--	[2:0-0-9,0-4-8], [3:0-4-0,Edge], [6:0-0-2,Edge], [8:0-0-2,Edge], [11:0-4-0,Edge], [17:0-8-0,0-4-4], [19:0-5-0,0-4-4], [20:0-2-0,0-2-8]
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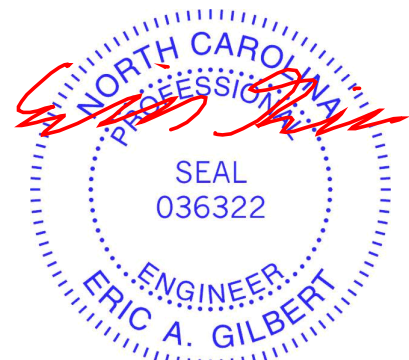
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.70	Vert(LL)	-0.22 15-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.38 20-21	>625	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.59	Horz(CT)	0.02 13	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.21 20-21	>999	240		Weight: 437 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 3-6,8-11: 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-11-2 oc purlins, except end verticals, and 2-0-0 oc purlins (4-8-13 max.): 1-2, 2-21, 6-8, 12-13, 12-14.
BOT CHORD 2x6 SP No.1 *Except* 19-22,13-17: 2x10 SP 2400F 2.0E, 17-19: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 4-3-5 oc bracing.
WEBS 2x6 SP No.1 *Except* 1-21,2-20,7-23: 2x4 SP No.2	WEBS 1 Row at midpt 2-20
	JOINTS 1 Brace at Jt(s): 1, 14, 23 This truss requires both edges of the bottom chord be sheathed in the room area.

REACTIONS. (size) 22=0-3-8, 18=0-3-8, 13=0-3-8
 Max Horz 22=-213(LC 4)
 Max Uplift 22=-94(LC 4)
 Max Grav 22=1311(LC 43), 18=2444(LC 42), 13=1647(LC 31)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-22=-1149/103, 1-2=-2371/48, 2-21=-1372/79, 2-4=-1804/74, 4-5=-1294/45,
 5-6=-486/209, 6-7=-310/258, 7-8=-310/258, 8-9=-477/229, 9-10=-1452/21,
 10-12=-1680/0, 12-13=-1698/0
 BOT CHORD 21-22=-222/311, 20-21=-76/3357, 18-20=0/1233, 15-18=0/1233, 13-15=0/1169
 WEBS 1-21=-22/2406, 2-20=-2355/275, 4-20=-235/334, 5-23=-1411/109, 9-23=-1411/109,
 10-15=-167/442

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 2-4, 4-5, 9-10, 10-12, 5-23, 9-23; Wall dead load (5.0psf) on member(s).4-20, 10-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 15-18
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 22.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 62 lb down and 42 lb up at 2-0-12, 62 lb down and 42 lb up at 4-0-12, and 62 lb down and 42 lb up at 6-0-12, and 62 lb down and 54 lb up at 8-0-12 on top chord, and 21 lb down and 21 lb up at 2-0-12, 21 lb down and 21 lb up at 4-0-12, 21 lb down and 21 lb up at 6-0-12, 21 lb down and 21 lb up at 8-0-12, 21 lb down and 21 lb up at 10-0-12, 21 lb down and 21 lb up at 12-0-12, 21 lb down and 21 lb up at 14-0-12, and 21 lb down and 21 lb up at 16-0-12, and 21 lb down and 21 lb up at 18-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - Attic room checked for L/360 deflection.



Job J0923-5445	Truss B01-GR	Truss Type ATTIC GIRDER	Qty 1	Ply 1	The Guilford Job Reference (optional)	I61035200
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:04 2023 Page 2
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NOTES-

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: 1-2=-60, 2-5=-80, 5-6=-60, 6-8=-60, 8-9=-60, 9-12=-80, 12-14=-60, 20-22=-20, 19-20=-40, 17-19=-40, 16-17=-40, 15-16=-40, 13-15=-20, 5-9=-20

Drag: 4-20=-10, 10-15=-10

Concentrated Loads (lb)

Vert: 19=1(F) 20=1(F) 28=1(F) 29=1(F) 30=1(F) 31=1(F) 32=1(F) 33=1(F) 34=1(F)

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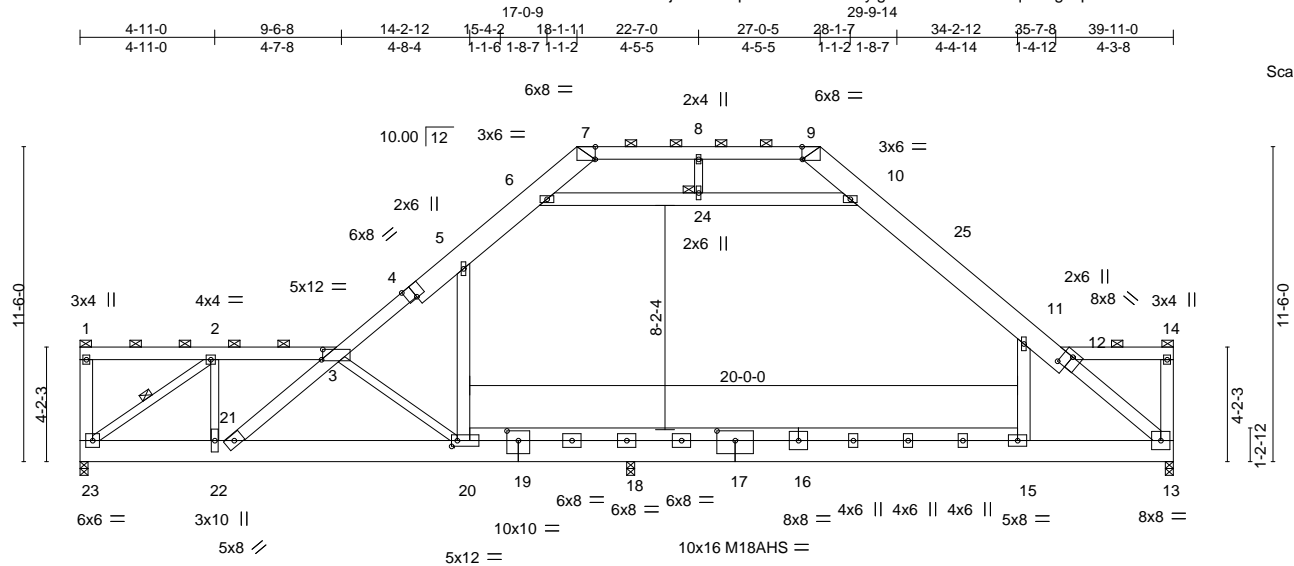
818 Soundside Road
Edenton, NC 27932

Job J0923-5445	Truss B02	Truss Type Attic	Qty 1	Ply 1	The Guilford	I61035201
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:05 2023 Page 1

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Scale = 1:84.1

Plate Offsets (X,Y)--	[3:0-0-9,0-4-8], [4:0-4-0,Edge], [7:0-0-2,Edge], [9:0-0-2,Edge], [12:0-4-0,0-5-10], [17:0-8-0,0-4-4], [19:0-5-0,0-4-4], [20:0-2-8,0-2-8]
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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 0.64	Vert(LL)	-0.24	15-18	>972	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.89	Vert(CT)	-0.35	20-21	>676	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.02	13	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.14	20-21	>999		
								Weight: 453 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 4-7,9-12: 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-5-15 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 1-3, 3-21, 7-9, 12-13, 12-14.
BOT CHORD 2x10 SP No.1 *Except* 16-20,15-16: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 4-8-10 oc bracing.
WEBS 2x6 SP No.1 *Except* 2-23,2-22,3-20,8-24: 2x4 SP No.2	WEBS 1 Row at midpt 2-23
	JOINTS 1 Brace at Jt(s): 1, 14, 24 This truss requires both edges of the bottom chord be sheathed in the room area.

REACTIONS. (size) 23=0-3-8, 18=0-3-8, 13=0-3-8
 Max Horz 23=188(LC 11)
 Max Grav 23=1325(LC 1), 18=2214(LC 20), 13=1661(LC 27)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1632/186, 3-21=-1149/99, 3-5=-1842/196, 5-6=-1339/281, 6-7=-475/198, 7-8=-312/251, 8-9=-312/251, 9-10=-491/229, 10-11=-1538/265, 11-12=-1730/2, 12-13=-1709/33
 BOT CHORD 22-23=-183/1625, 21-22=-183/1625, 20-21=-243/2395, 18-20=-38/1297, 15-18=-40/1300, 13-15=-36/1237
 WEBS 2-23=-1997/225, 2-22=0/996, 3-20=-1480/261, 5-20=-157/471, 6-24=-1461/155, 10-24=-1461/155, 11-15=-97/494

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-12 to 4-11-0, Interior(1) 4-11-0 to 18-5-10, Exterior(2) 18-5-10 to 22-7-0, Interior(1) 22-7-0 to 26-8-6, Exterior(2) 26-8-6 to 31-1-3, Interior(1) 31-1-3 to 39-8-4 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.
 - All plates are MT20 plates unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 3-5, 5-6, 10-11, 11-12, 6-24, 10-24; Wall dead load (5.0psf) on member(s).5-20, 11-15
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20, 15-18
 - 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.



September 26, 2023

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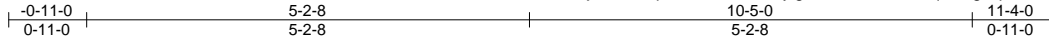
ENGINEERING BY TRENCO
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 818 Soundside Road
 Edenton, NC 27932

Job J0923-5445	Truss C01GE	Truss Type GABLE	Qty 1	Ply 1	The Guilford	I61035203
					Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:09 2023 Page 1

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5x5 =

Scale = 1:27.1

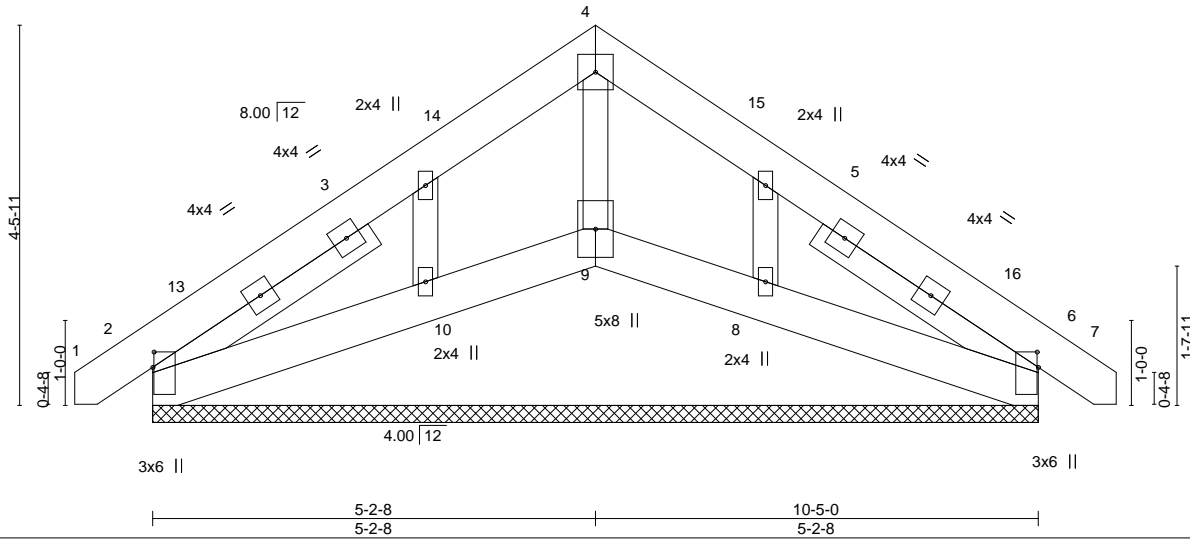


Plate Offsets (X,Y)--	[2:0-2-3,0-0-3], [6:0-2-3,0-0-3]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	0.00	7	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	7	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.02	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 77 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 3-0-15, Right 2x4 SP No.2 3-0-15	

REACTIONS. All bearings 10-5-0.
 (lb) - Max Horz 2=-120(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 8 except 2=-142(LC 13), 6=-170(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 9, 10, 8 except 2=304(LC 1), 6=304(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-381/279, 4-6=-380/277

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 5-2-8, Exterior(2) 5-2-8 to 9-7-5, Interior(1) 9-7-5 to 11-2-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 8 except (jt=lb) 2=142, 6=170.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 9, 10, 8.



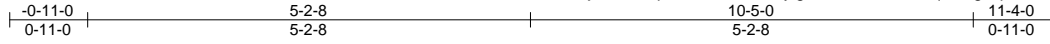
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Job J0923-5445	Truss C02	Truss Type SCISSORS	Qty 5	Ply 1	The Guilford	I61035204
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ID: BxjBsXSslZp9FDDWLx?eR?yIguH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



5x5 =

Scale = 1:27.1

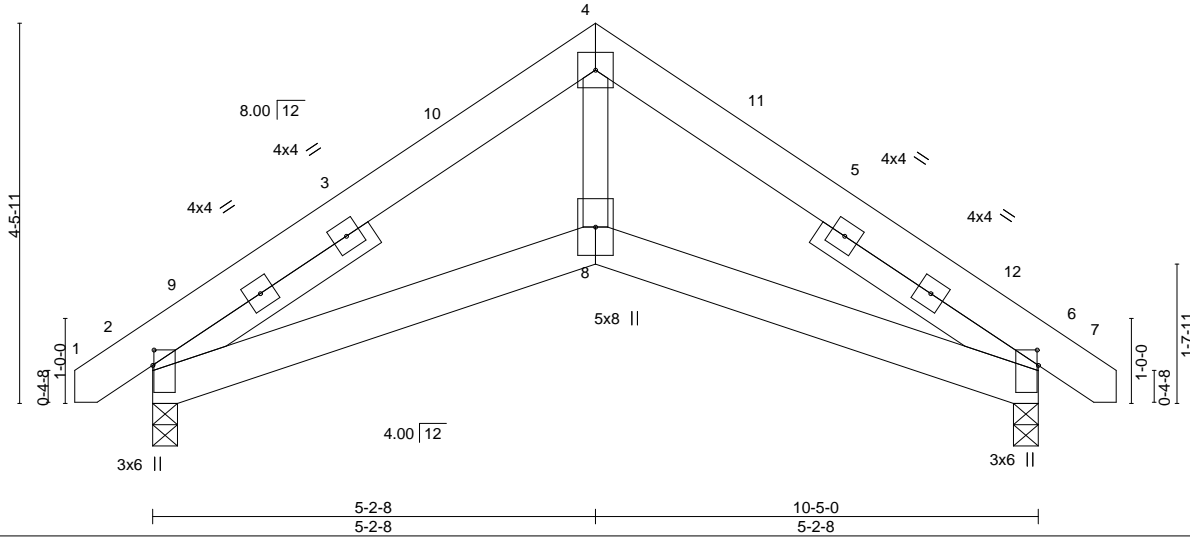


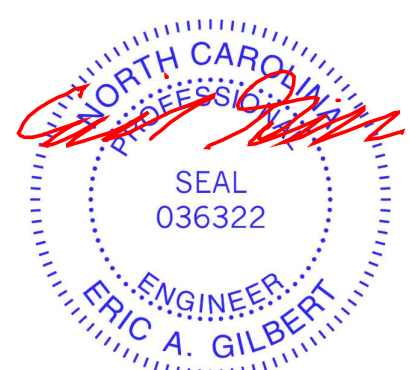
Plate Offsets (X, Y)--	[2:0-2-3,0-0-3], [6:0-2-3,0-0-3]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.07	Vert(LL) -0.01 6-8 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.10	Vert(CT) -0.02 6-8 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.01 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.00 2-8 >999 240	Weight: 73 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 3-0-15, Right 2x4 SP No.2 3-0-15	

REACTIONS. (size) 2=0-3-8, 6=0-3-8
 Max Horz 2=-96(LC 8)
 Max Uplift 2=-32(LC 12), 6=-32(LC 13)
 Max Grav 2=461(LC 1), 6=461(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-655/132, 4-6=-653/135
 BOT CHORD 2-8=-3/503, 6-8=-2/499
 WEBS 4-8=0/423

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-7 to 3-7-6, Interior(1) 3-7-6 to 5-2-8, Exterior(2) 5-2-8 to 9-7-5, Interior(1) 9-7-5 to 11-2-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



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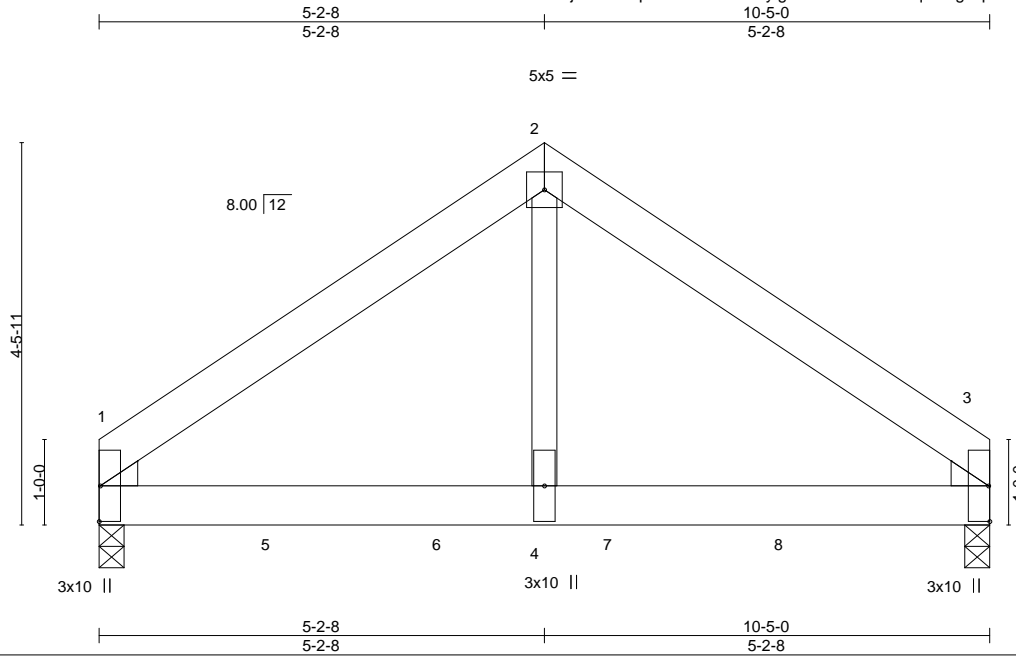
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0923-5445	Truss C03-GR	Truss Type Common Girder	Qty 1	Ply 2	The Guilford I61035205
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ID: BxjBsXSslZp9FDDWLx?eR?yIguH-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.31	Vert(LL)	-0.02	1-4	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.39	Vert(CT)	-0.03	1-4	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.21	Horz(CT)	0.01	3	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.01	1-4	>999		
	Code IRC2015/TPI2014						Weight: 123 lb	FT = 20%

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

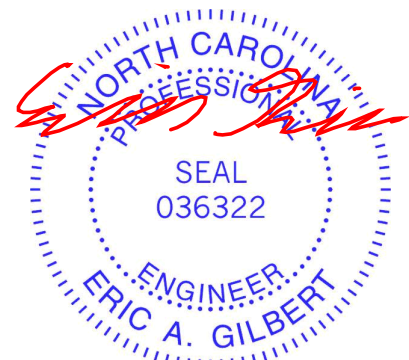
REACTIONS. (size) 1=0-3-8, 3=0-3-8
Max Horz 1=95(LC 24)
Max Uplift 1=-78(LC 8), 3=-99(LC 9)
Max Grav 1=1459(LC 2), 3=1941(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1664/118, 2-3=-1666/118
BOT CHORD 1-4=-40/1279, 3-4=-40/1279
WEBS 2-4=-26/1678

- 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 0-9-0 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 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
 - 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) 1, 3.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 537 lb down and 37 lb up at 2-0-12, 537 lb down and 37 lb up at 4-0-12, 537 lb down and 37 lb up at 6-0-12, and 537 lb down and 37 lb up at 8-0-12, and 545 lb down and 29 lb up at 10-3-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 1-3=-20
Concentrated Loads (lb)
Vert: 3=-506(F) 5=-498(F) 6=-498(F) 7=-498(F) 8=-498(F)

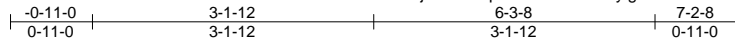


Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035206
J0923-5445	D01GE	COMMON SUPPORTED GAB	1	1	Job Reference (optional)	

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4x4 =

Scale = 1:25.8

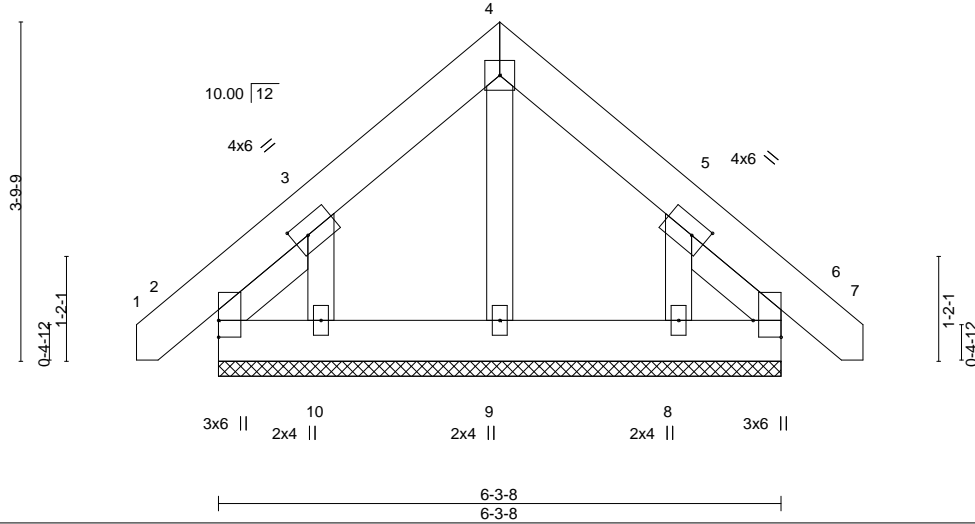


Plate Offsets (X,Y)--	[3:0-2-0,0-2-0], [5:0-2-0,0-2-0], [6:Edge,0-3-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.02	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.01	Vert(LL) -0.00 6 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.03	Vert(CT) -0.00 6 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 6 n/a n/a		
	Code IRC2015/TPI2014			Weight: 52 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	
SLIDER Left 2x4 SP No.2 1-4-9, Right 2x4 SP No.2 1-4-9	

REACTIONS. All bearings 6-3-8.
 (lb) - Max Horz 2=-98(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-139(LC 12), 8=-132(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=139, 8=132.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.



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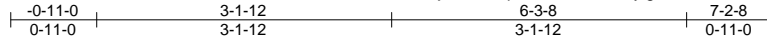
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0923-5445	Truss D02	Truss Type COMMON	Qty 2	Ply 1	The Guilford	I61035207
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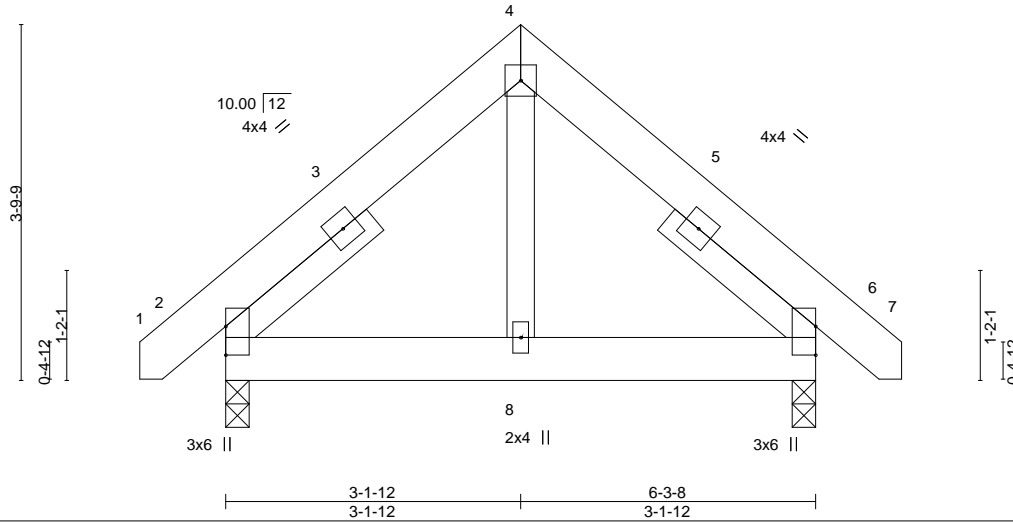
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:14 2023 Page 1

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4x4 =

Scale = 1:24.6



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	-0.00	8	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	-0.00	8	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	8	>999		
								Weight: 51 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 2-0-5, Right 2x4 SP No.2 2-0-5

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=0-3-0, 6=0-3-0
 Max Horz 2=-79(LC 10)
 Max Uplift 2=-32(LC 8), 6=-32(LC 9)
 Max Grav 2=299(LC 1), 6=299(LC 1)

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

TOP CHORD 2-4=-254/240, 4-6=-254/241

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) 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
- 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) 2, 6.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
 Edenton, NC 27932

Job J0923-5445	Truss G01GE	Truss Type GABLE	Qty 1	Ply 1	The Guilford 161035208
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:15 2023 Page 1

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4x6 =

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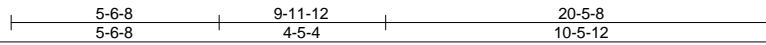
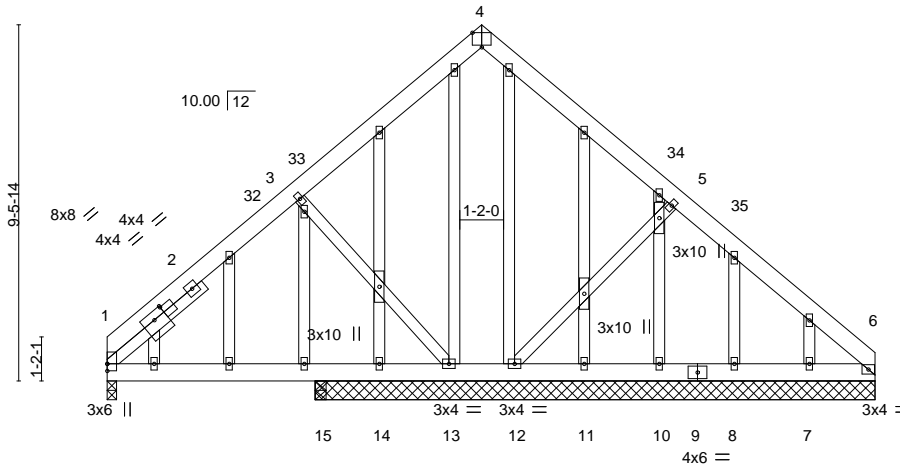


Plate Offsets (X, Y)-- [1:2-0-8,0-3-2], [4:0-3-0,Edge], [24:0-4-0,0-2-8]

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 0.14	Vert(LL)	-0.01	1-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.18	Vert(CT)	-0.02	1-15	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.25	Horz(CT)	0.01	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.01	1-15	>999	Weight: 201 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 3-4-2

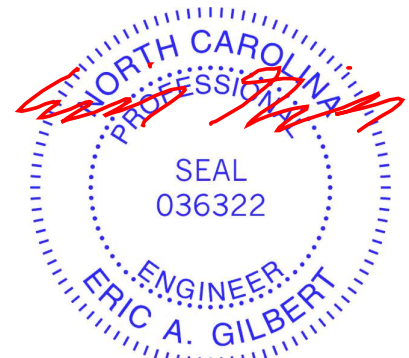
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-11-0 except (jt=length) 1=0-3-0, 15=0-3-8.
 (lb) - Max Horz 1=215(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 6, 14, 7 except 13=134(LC 12), 12=135(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 14, 11, 10, 8, 7 except 1=566(LC 1), 6=436(LC 1), 13=368(LC 19), 12=322(LC 20), 15=488(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=503/93, 3-4=317/128, 4-5=325/125, 5-6=546/96
 BOT CHORD 1-15=-111/394, 14-15=-111/394, 13-14=-111/394, 11-12=0/344, 10-11=0/344,
 8-10=0/344, 7-8=0/344, 6-7=0/344
 WEBS 3-13=-356/247, 5-12=-372/253

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 9-11-12, Exterior(2) 9-11-12 to 14-4-9, Interior(1) 14-4-9 to 20-5-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable 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) 1, 6, 14, 7 except (jt=lb) 13=134, 12=135.
 - Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-4=-60, 4-6=-60, 1-6=-60(F=-40)



September 26, 2023

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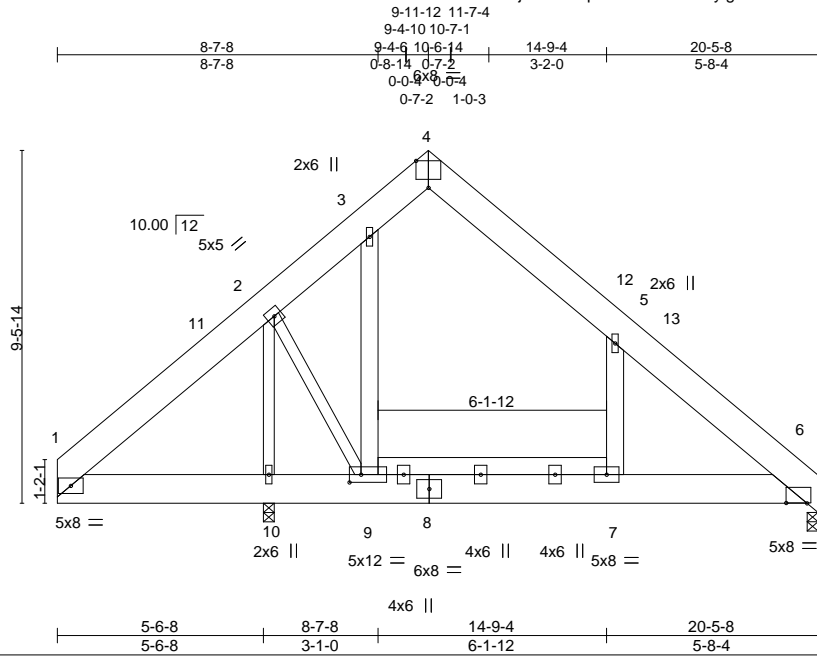
818 Soundside Road
 Edenton, NC 27932

Job J0923-5445	Truss G02	Truss Type GABLE	Qty 1	Ply 1	The Guilford Job Reference (optional)	I61035209
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:16 2023 Page 1

ID: BxjBsXSslZp9FDDWLx?eR?yIguH-RIC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:62.0

Plate Offsets (X, Y)--	[4:0-4-0,Edge], [6:0-6-12,0-0-2], [9:0-3-12,0-2-8]
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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 0.21	Vert(LL)	-0.04	7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.08	7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.51	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	7	>999		
								Weight: 241 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x10 SP No.1 *Except* 7-9: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 2-10,2-9: 2x4 SP No.2	This truss requires both edges of the bottom chord be sheathed in the room area.

REACTIONS. (size) 6=0-3-8, 10=0-3-8
 Max Horz 10=-206(LC 8)
 Max Grav 6=771(LC 21), 10=1448(LC 21)


FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-266/336, 2-3=-513/48, 3-4=-411/96, 4-5=-471/43, 5-6=-651/0
 BOT CHORD 1-10=-207/283, 9-10=-276/287, 7-9=0/404, 6-7=0/404
 WEBS 2-10=-1518/287, 2-9=-12/1076

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 9-11-12, Exterior(2) 9-11-12 to 14-4-9, Interior(1) 14-4-9 to 20-0-3 zone; cantilever left 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) Ceiling dead load (10.0 psf) on member(s). 3-4, 4-5; Wall dead load (5.0psf) on member(s).3-9, 5-7
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 7-9
- 7) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 6.
- 8) Gap between inside of top chord bearing and first diagonal or vertical web shall not exceed 0.500in.
- 9) Attic room checked for L/360 deflection.



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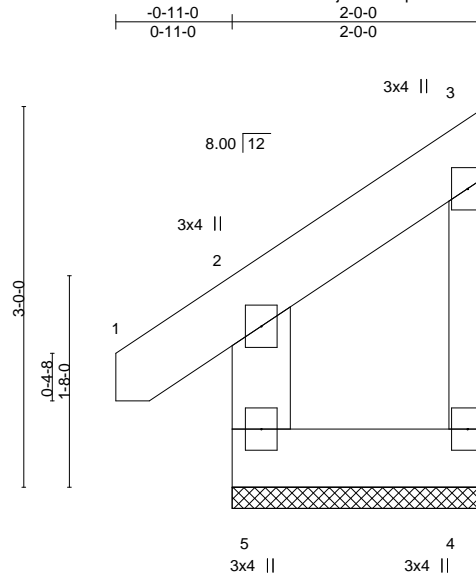
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p>  <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0923-5445	Truss M01GE	Truss Type JACK-OPEN SUPPORTED	Qty 1	Ply 1	The Guilford I61035210
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:17 2023 Page 1

ID: BxjBsXSsIzP9FDDWLx?eR?ylguH-RIC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:18.2

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	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	1	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-R					Weight: 19 lb	FT = 20%

LUMBER-

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

BRACING-

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

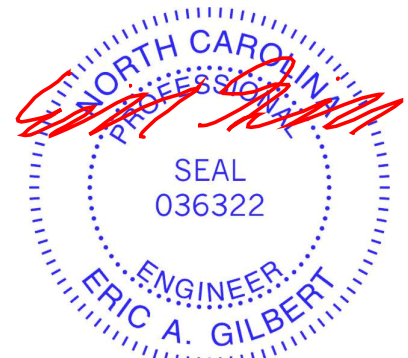
REACTIONS.

(size) 5=2-0-0, 4=2-0-0
 Max Horz 5=75(LC 9)
 Max Uplift 4=75(LC 12)
 Max Grav 5=145(LC 1), 4=81(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 Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; end vertical left 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) Gable requires continuous bottom chord bearing.
- 4) Truss to be fully sheathed on one face or securely braced against lateral movement (i.e. diagonal web).
- 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) 4.



September 26, 2023

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818 Soundside Road
 Edenton, NC 27932

Job J0923-5445	Truss M02	Truss Type JACK-OPEN	Qty 9	Ply 1	The Guilford Job Reference (optional)	I61035211
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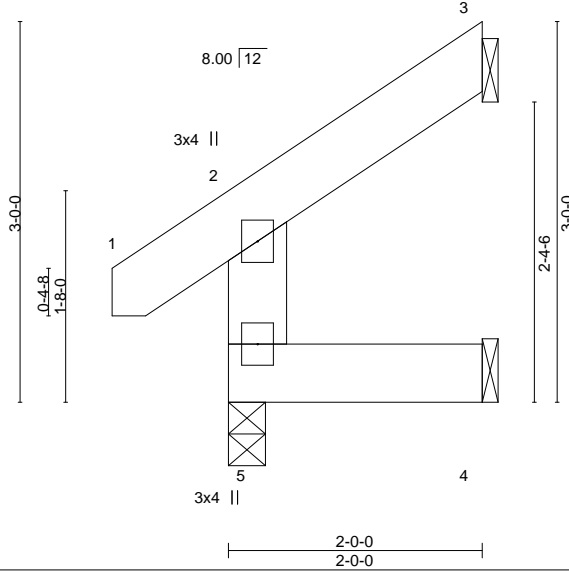
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:18 2023 Page 1

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Scale = 1:18.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	-0.00	5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-R					Weight: 16 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 2-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 3=Mechanical, 4=Mechanical
 Max Horz 5=65(LC 9)
 Max Uplift 3=-41(LC 12), 4=-11(LC 9)
 Max Grav 5=149(LC 1), 3=53(LC 19), 4=33(LC 10)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; end vertical left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 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 100 lb uplift at joint(s) 3, 4.



September 26, 2023

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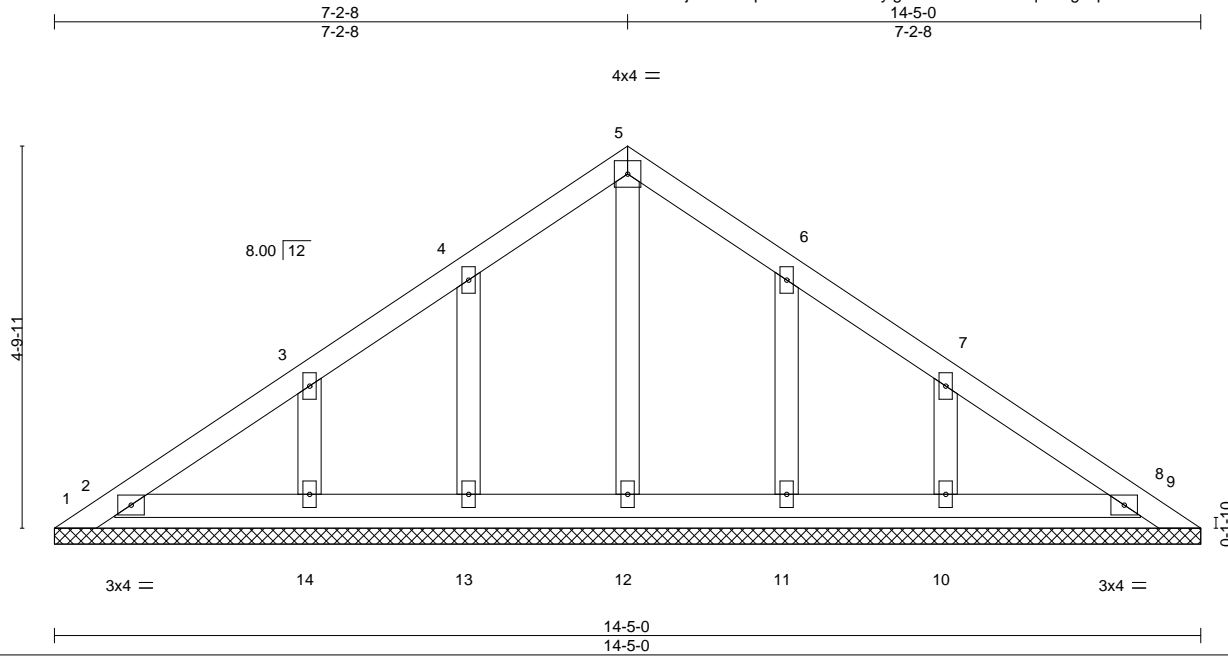
818 Soundside Road
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Job J0923-5445	Truss PB1	Truss Type GABLE	Qty 2	Ply 1	The Guilford	I61035212
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:20 2023 Page 1

ID:BxjBsXSslZp9FDDWLx?eR?yIguH-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwRCDoi7J4zJC?f



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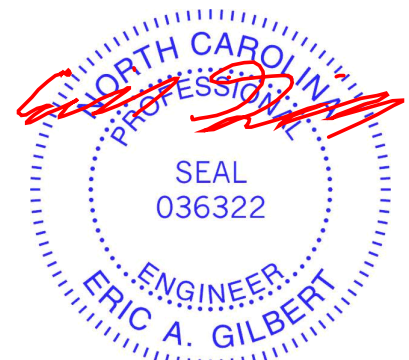
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.05	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 64 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 14-5-0.
 (lb) - Max Horz 1=-139(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 8, 13, 11 except 1=-108(LC 10), 14=-101(LC 12), 10=-101(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 9, 2, 8, 12, 13, 14, 11, 10

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-3-2 to 4-7-15, Exterior(2) 4-7-15 to 7-2-8, Corner(3) 7-2-8 to 11-7-5, Exterior(2) 11-7-5 to 14-1-14 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2, 8, 13, 11 except (jt=lb) 1=108, 14=101, 10=101.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



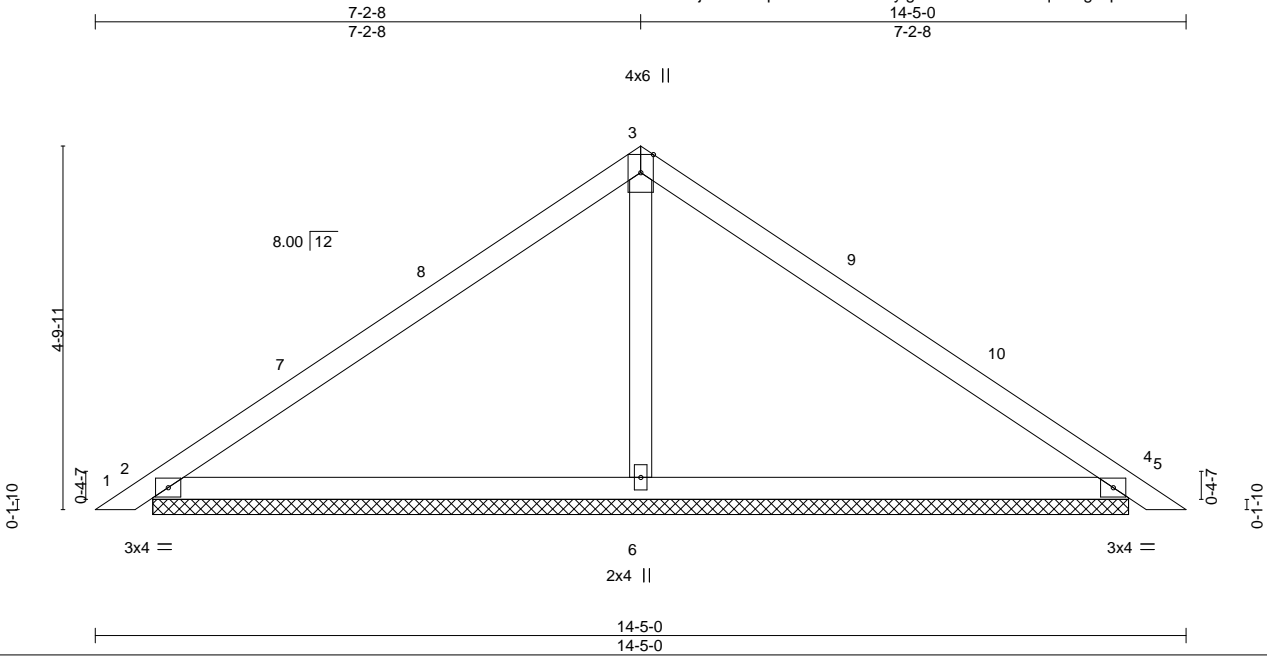
September 26, 2023

Job J0923-5445	Truss PB2	Truss Type Piggyback	Qty 12	Ply 1	The Guilford	I61035213
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Scale = 1:30.5

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.43	Vert(LL)	0.02	5	n/r	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(CT)	0.04	5	n/r		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.11	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 51 lb	FT = 20%
	Code IRC2015/TPI2014							

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

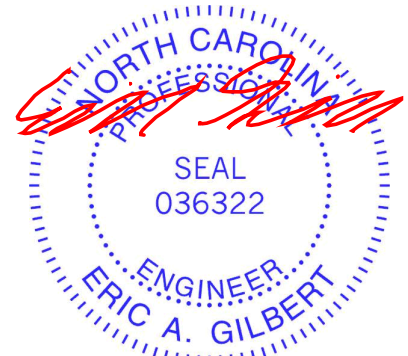
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=12-10-12, 4=12-10-12, 6=12-10-12
 Max Horz 2=-111(LC 10)
 Max Uplift 2=-38(LC 12), 4=-49(LC 13)
 Max Grav 2=286(LC 1), 4=286(LC 1), 6=520(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-321/123

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-2 to 4-7-15, Interior(1) 4-7-15 to 7-2-8, Exterior(2) 7-2-8 to 11-7-5, Interior(1) 11-7-5 to 14-1-14 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.



September 26, 2023

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Job J0923-5445	Truss PB3	Truss Type PIGGYBACK	Qty 1	Ply 1	The Guilford	I61035214
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:22 2023 Page 1

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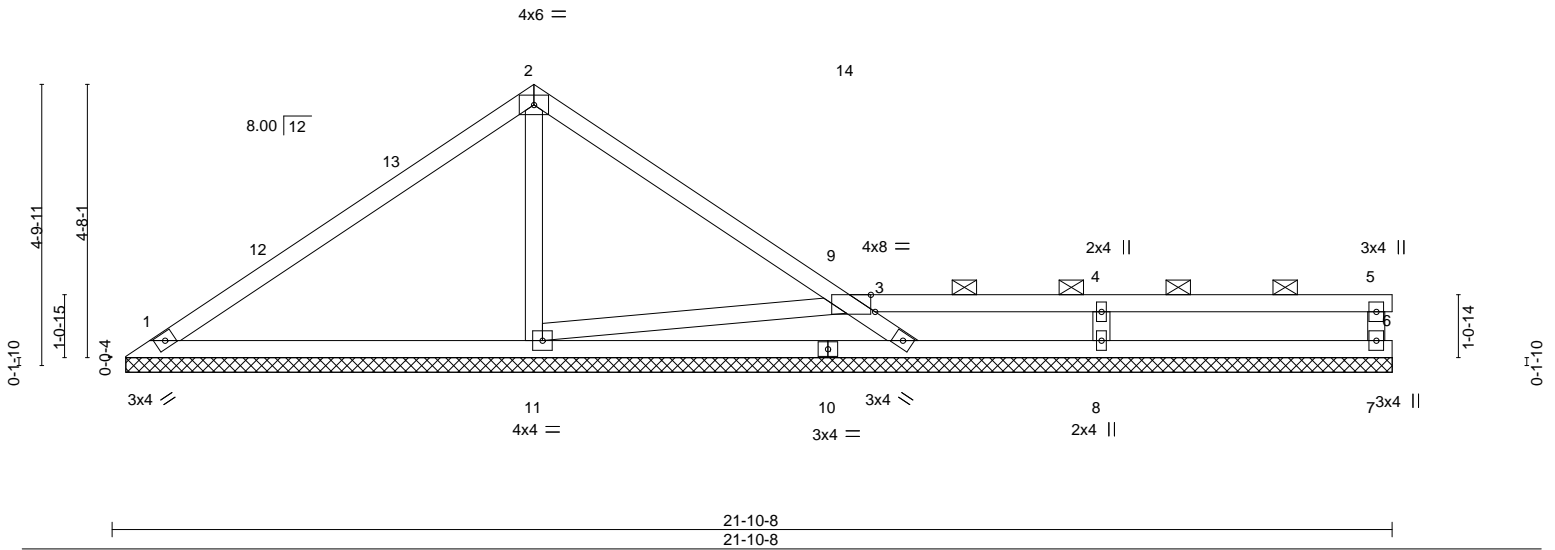


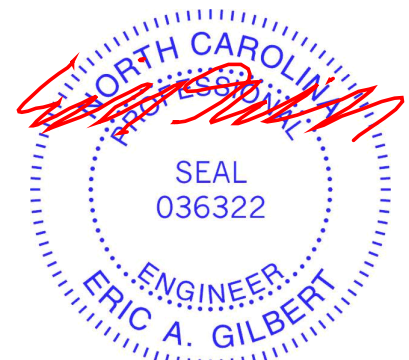
Plate Offsets (X,Y)--	[3:0-0-14,Edge]	21-10-8		21-10-8		PLATES	GRIP
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL 1.15	TC 0.48	Vert(LL) n/a	-	n/a	999	MT20
TCDL 10.0	Lumber DOL 1.15	BC 0.27	Vert(CT) n/a	-	n/a	999	244/190
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.00	7	n/a	n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 85 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-9, 3-6.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 9-11.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 21-7-11.
 (lb) - Max Horz 1=107(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 11, 8 except 6=292(LC 24), 7=143(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 6 except 1=264(LC 1), 9=408(LC 24), 7=488(LC 24), 11=445(LC 1), 8=385(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-9=-293/132, 5-7=-447/223
 WEBS 2-11=-290/112, 4-8=-281/132

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-3 to 5-1-0, Interior(1) 5-1-0 to 7-2-8, Exterior(2) 7-2-8 to 11-7-5, Interior(1) 11-7-5 to 21-10-8 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) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * 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.
 - 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 11, 8 except (jt=lb) 6=292, 7=143.
 - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job	Truss	Truss Type	Qty	Ply	The Guilford	161035215
J0923-5445	PB4	Piggyback	1	1	Job Reference (optional)	

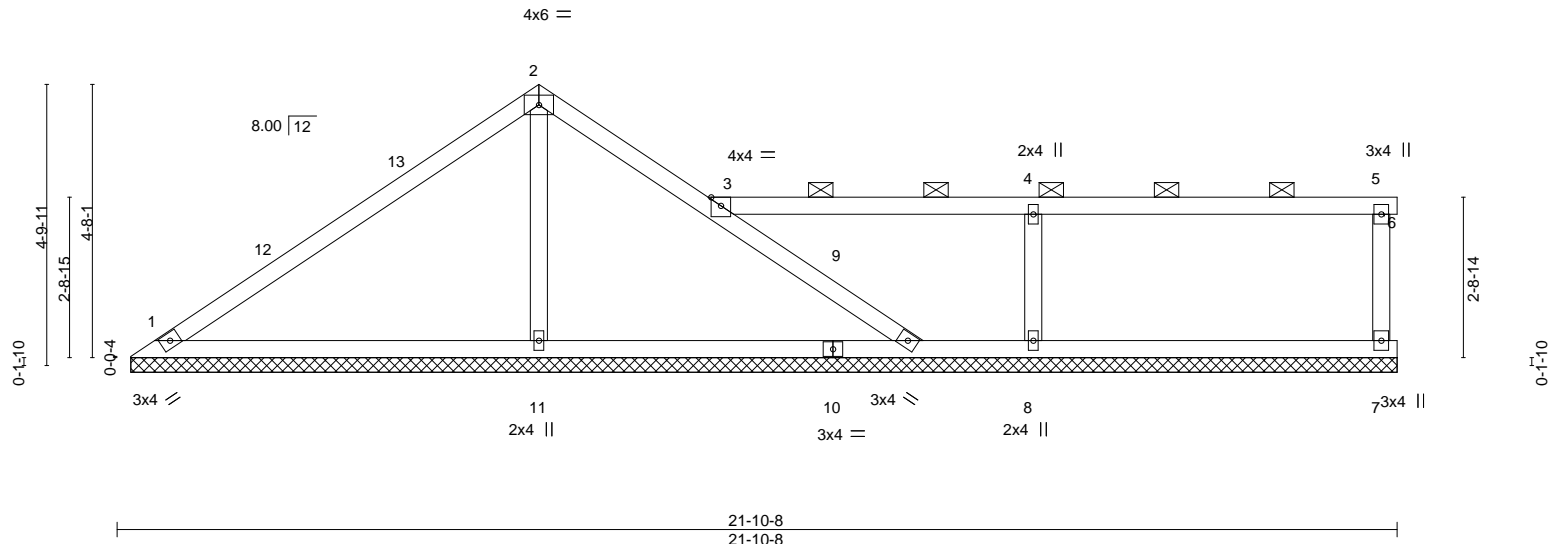
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:23 2023 Page 1

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Scale = 1:39.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.04	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 86 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-9, 3-6.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 21-7-11.
 (lb) - Max Horz 1=103(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 11, 8 except 9=105(LC 13), 6=508(LC 24), 7=221(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 6 except 1=400(LC 1), 9=447(LC 24), 7=738(LC 24), 11=355(LC 23), 8=495(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-421/166, 2-3=-376/186, 3-9=-489/225, 5-7=-688/332
 BOT CHORD 1-11=-125/299, 9-11=-125/299
 WEBS 4-8=-388/184

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-3 to 5-1-0, Interior(1) 5-1-0 to 7-2-8, Exterior(2) 7-2-8 to 10-0-11, Interior(1) 10-0-11 to 21-10-8 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) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * 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.
 - 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11, 8 except (jt=lb) 9=105, 6=508, 7=221.
 - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



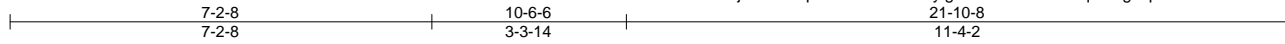
September 26, 2023

Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035216
J0923-5445	PB5	Piggyback	1	1	Job Reference (optional)	

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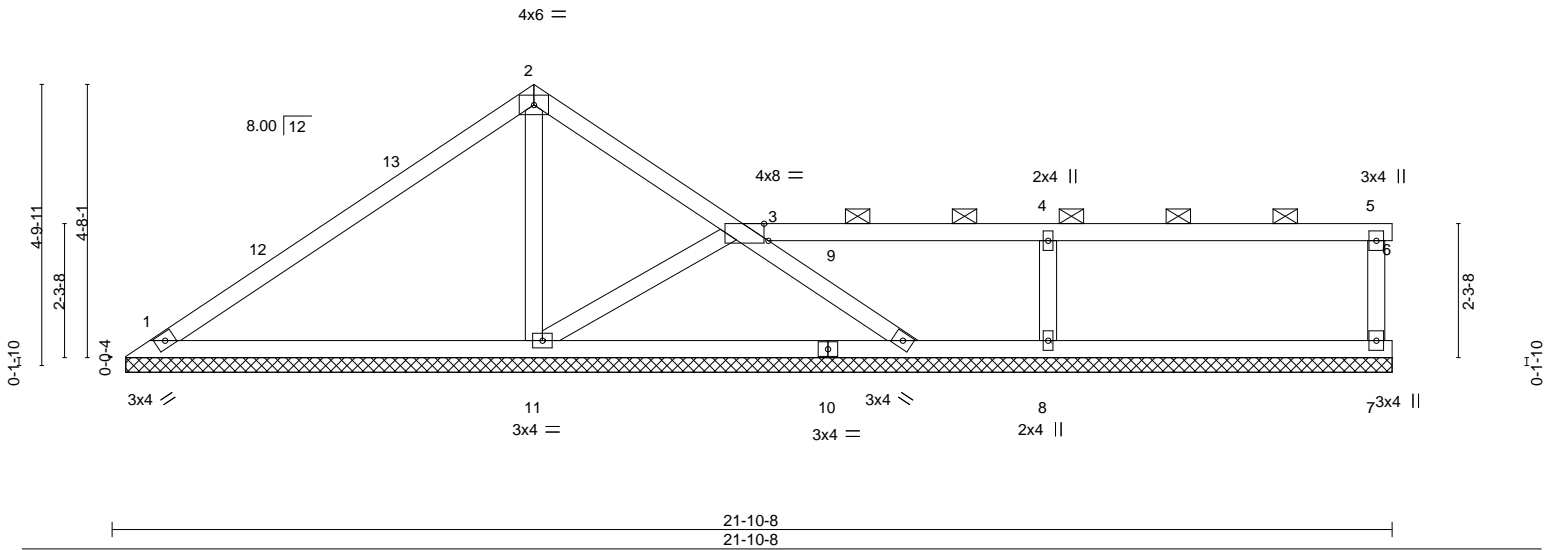


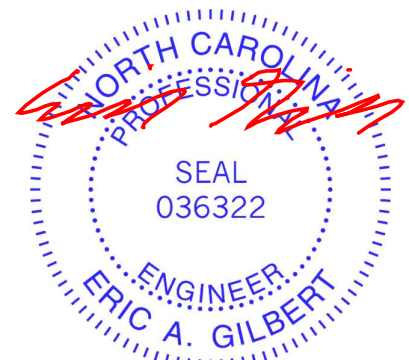
Plate Offsets (X,Y)--	[3:0-0-14,Edge]		21-10-8		21-10-8					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.47	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.27	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 89 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 3-9, 3-6.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 21-7-11.
 (lb) - Max Horz 1=106(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 9, 11, 8 except 6=354(LC 24), 7=166(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 9, 6 except 1=259(LC 23), 7=583(LC 24), 11=503(LC 1), 8=456(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-7=532/268
 WEBS 2-11=278/130, 4-8=348/165

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-3 to 5-1-0, Interior(1) 5-1-0 to 7-2-8, Exterior(2) 7-2-8 to 10-11-0, Interior(1) 10-11-0 to 21-10-8 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) Gable requires continuous bottom chord bearing.
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * 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.
 - 7) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9, 11, 8 except (jt=lb) 6=354, 7=166.
 - 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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Job	Truss	Truss Type	Qty	Ply	The Guilford	I61035217
J0923-5445	PB6	Piggyback	1	1	Job Reference (optional)	

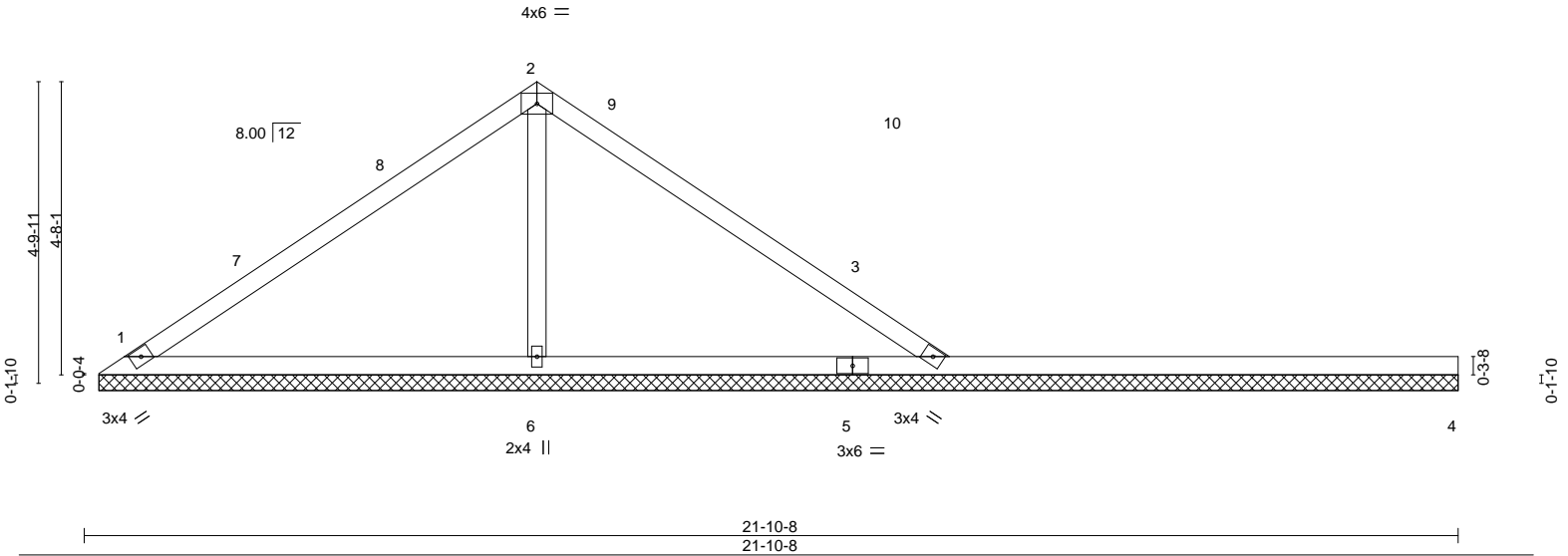
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:25 2023 Page 1

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Scale = 1:36.6



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.49	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.61	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 62 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

REACTIONS. All bearings 21-7-11.
 (lb) - Max Horz 1=104(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 6
 Max Grav All reactions 250 lb or less at joint(s) 4 except 1=269(LC 1), 3=435(LC 3), 6=413(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-6=-272/111

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-3 to 5-1-0, Interior(1) 5-1-0 to 7-2-8, Exterior(2) 7-2-8 to 11-7-5, Interior(1) 11-7-5 to 12-4-9 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) 1, 6.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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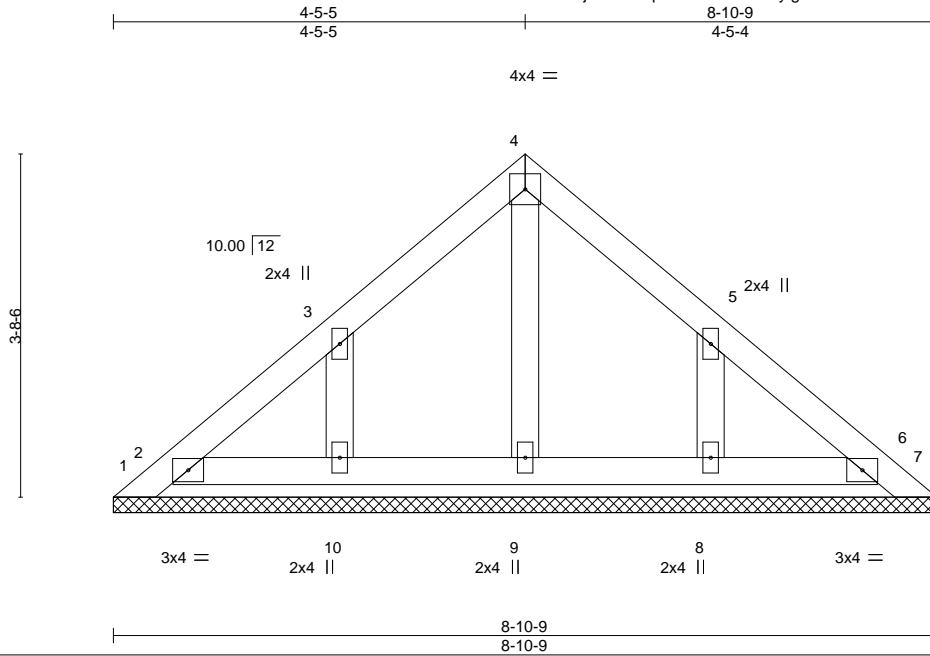
818 Soundside Road
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Job J0923-5445	Truss PB7	Truss Type GABLE	Qty 1	Ply 1	The Guilford	I61035218
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:27 2023 Page 1

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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 0.04	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						Weight: 37 lb	FT = 20%

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

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

REACTIONS. All bearings 8-10-9.
(lb) - Max Horz 1=-105(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6 except 10=-125(LC 12), 8=-124(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 7, 2, 6, 9, 10, 8

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Gable 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) 1, 7, 2, 6 except (jt=lb) 10=125, 8=124.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job J0923-5445	Truss PB8	Truss Type Piggyback	Qty 2	Ply 1	The Guilford	I61035219
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:28 2023 Page 1

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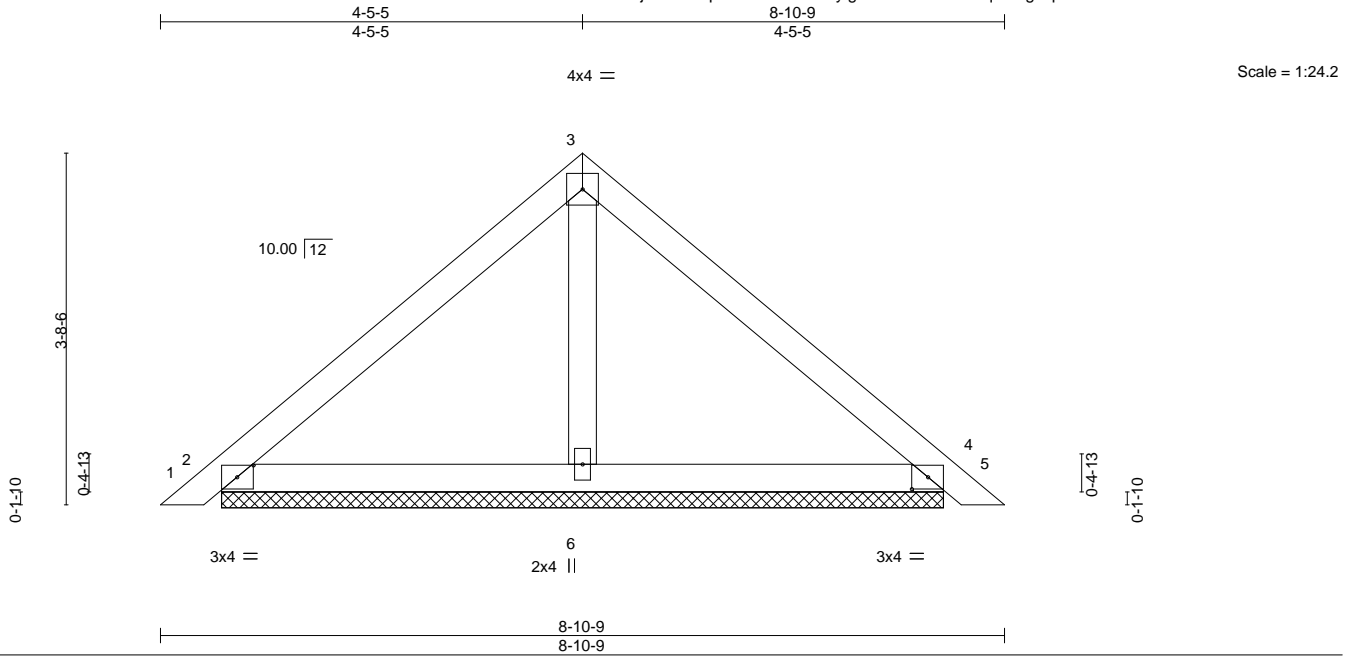


Plate Offsets (X,Y)-- [2:0-2-1,0-1-8], [4:0-2-1,0-1-8]

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 0.22	Vert(LL)	0.01	5	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.11	Vert(CT)	0.01	5	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P					Weight: 33 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	

REACTIONS. (size) 2=7-7-2, 4=7-7-2, 6=7-7-2
 Max Horz 2=-84(LC 10)
 Max Uplift 2=-33(LC 12), 4=-41(LC 13)
 Max Grav 2=202(LC 1), 4=202(LC 1), 6=253(LC 1)

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

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph 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
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job J0923-5445	Truss V1	Truss Type VALLEY	Qty 1	Ply 1	The Guilford	I61035220
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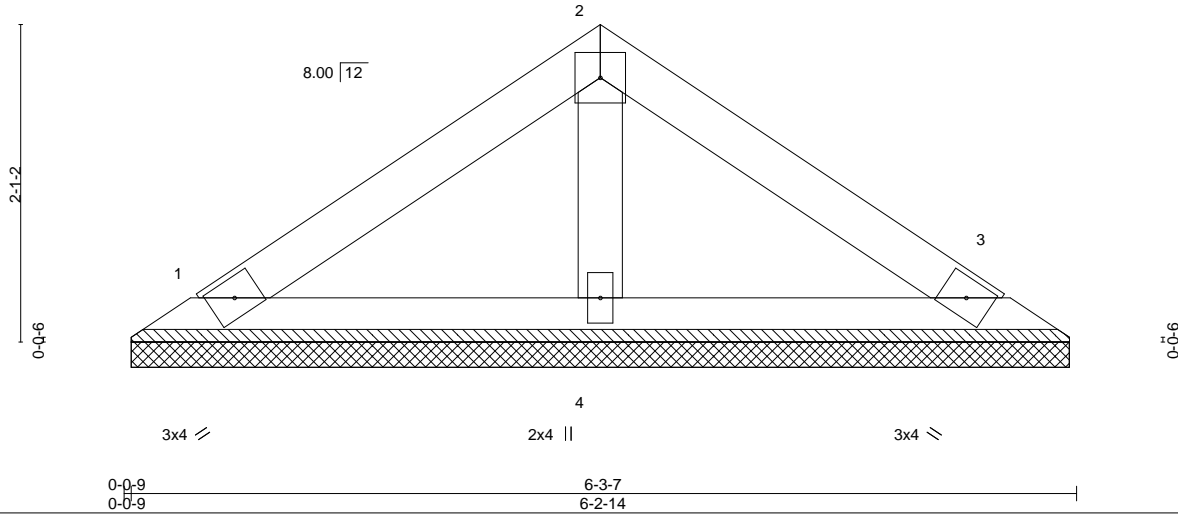
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:29 2023 Page 1

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4x4 =

Scale = 1:15.2



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 21 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

REACTIONS. (size) 1=6-2-5, 3=6-2-5, 4=6-2-5
 Max Horz 1=-43(LC 8)
 Max Uplift 1=-18(LC 12), 3=-22(LC 13)
 Max Grav 1=115(LC 1), 3=115(LC 1), 4=193(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=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
- 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) 1, 3.
- 6) N/A



September 26, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 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/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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

Job J0923-5445	Truss V2	Truss Type Valley	Qty 1	Ply 1	The Guilford	I61035221
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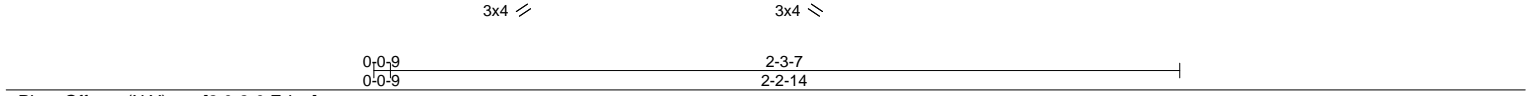
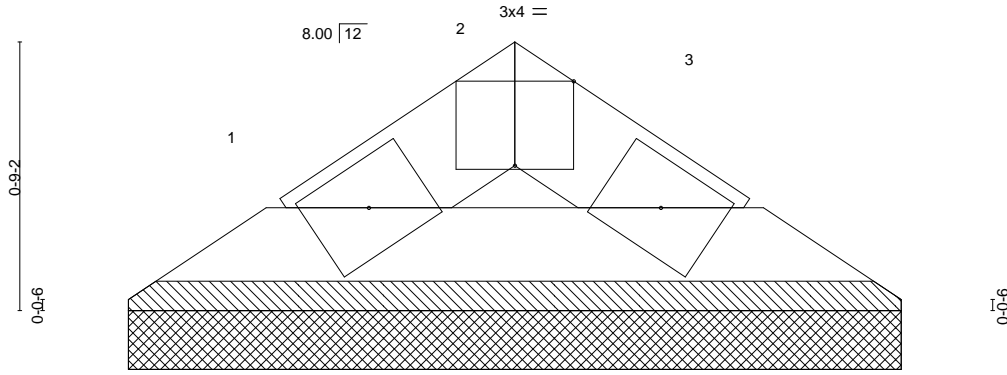
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Sep 26 13:25:30 2023 Page 1

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Scale = 1:6.5



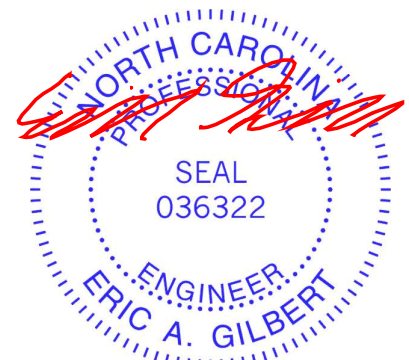
LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP			
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.01	Vert(LL)	n/a	(loc)	-	l/defl	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.01	Vert(CT)	n/a				n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		3		n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-P									Weight: 6 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 2-3-7 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-2-5, 3=2-2-5
 Max Horz 1=11(LC 8)
 Max Uplift 1=3(LC 12), 3=3(LC 13)
 Max Grav 1=52(LC 1), 3=52(LC 1)

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

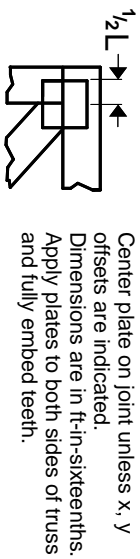
- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate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



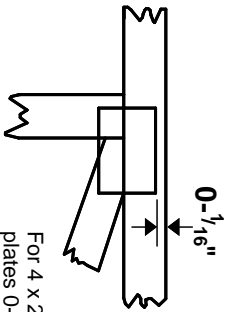
September 26, 2023

Symbols

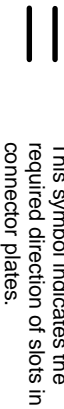
PLATE LOCATION AND ORIENTATION



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- $\frac{1}{16}$ \" from outside edge of truss.



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

PLATE SIZE

4 X 4

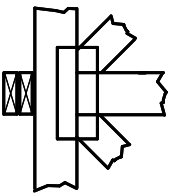
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

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/letter where bearings occur. Min size shown is for crushing only.

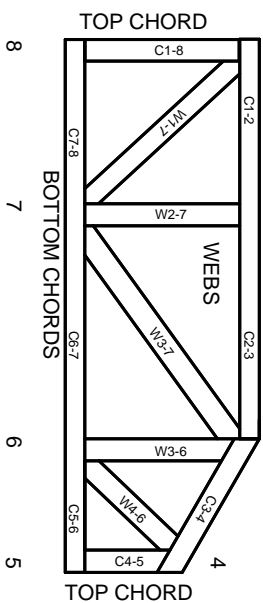
Industry Standards:

ANSI/TP1: National Design Specification for Metal Plate Connected Wood Truss Construction.
DSB-22: Design Standard for Bracing.
BCSI: Building Component Safety Information, Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses.

Numbering System



1 TOP CHORDS
2 Joint ID typ.



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-1988, ESR-2362, ESR-2685, ESR-3282
ESR-4722, ESL-1388

Design General Notes

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

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

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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/TP1 1.
7. Design assumes trusses will be suitably protected from the environment in accord with ANSI/TP1 1.
8. Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication.
9. Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.
10. Camber is a non-structural consideration and is the responsibility of truss fabricator. General practice is to camber for dead load deflection.
11. Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
12. Lumber used shall be of the species and size, and in all respects, equal to or better than that specified.
13. Top chords must be sheathed or purlins provided at spacing indicated on design.
14. Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted.
15. Connections not shown are the responsibility of others.
16. Do not cut or alter truss member or plate without prior approval of an engineer.
17. Install and load vertically unless indicated otherwise.
18. Use of green or treated lumber may pose unacceptable environmental, health or performance risks. Consult with project engineer before use.
19. Review all portions of this design (front, back, words and pictures) before use. Reviewing pictures alone is not sufficient.
20. Design assumes manufacture in accordance with ANSI/TP1 1 Quality Criteria.
21. The design does not take into account any dynamic or other loads other than those expressly stated.

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TRENGO
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MITek Engineering Reference Sheet: MIL-7473 rev. 1/2/2023