

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0920-4348
Chris Foisy Residence

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: E14888658 thru E14888687

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

North Carolina COA: C-0844



September 21, 2020

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888658
J0920-4348	A1	PIGGYBACK BASE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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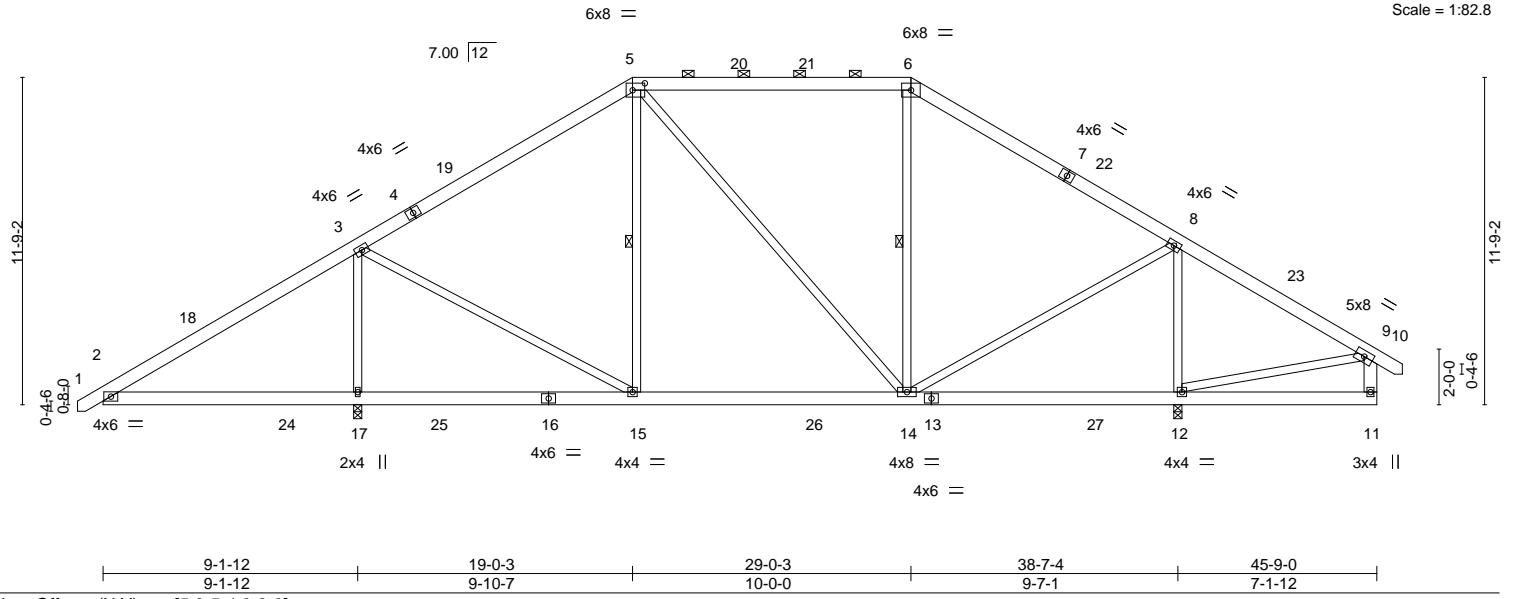
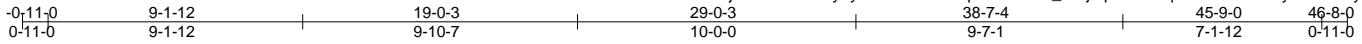


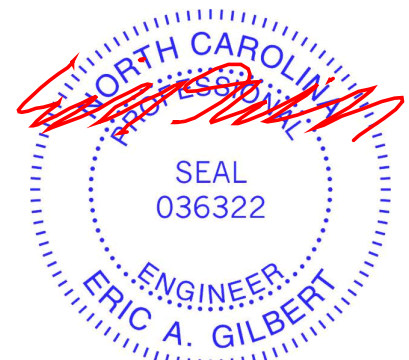
Plate Offsets (X,Y)--	[5:0-5-4,0-3-0]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.12 14-15	>999	360
TCDL 10.0	Lumber DOL	1.15	BC 0.38	Vert(CT)	-0.17 14-15	>999	240
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.92	Horz(CT)	0.01 12	n/a	n/a
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	-0.03 15-17	>999	240
							PLATES
							MT20
							GRIP
							244/190
							Weight: 347 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.): 5-6.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 9-11: 2x6 SP No.1	WEBS 1 Row at midpt 5-15, 6-14

REACTIONS. (size) 17=0-3-8, 12=0-3-8
 Max Horz 17=301(LC 11)
 Max Uplift 17=-130(LC 12), 12=-110(LC 13)
 Max Grav 17=2393(LC 2), 12=2010(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-387/796, 3-5=-814/105, 5-6=-605/186, 6-8=-826/116, 8-9=-234/484
 BOT CHORD 2-17=-559/408, 15-17=-709/464, 14-15=-112/672, 12-14=-317/249
 WEBS 3-17=-1866/492, 3-15=-225/1302, 5-15=-349/249, 6-14=-308/202, 8-14=-137/1049, 8-12=-1535/357, 9-12=-364/321

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 19-0-3, Exterior(2R) 19-0-3 to 25-2-14, Interior(1) 25-2-14 to 29-0-3, Exterior(2R) 29-0-3 to 35-2-14, Interior(1) 35-2-14 to 46-6-5 zone; cantilever left and right exposed ; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 17 and 110 lb uplift at joint 12.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 21, 2020

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888659
J0920-4348	A1A	PIGGYBACK BASE	8	1		

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ID:jCmIBXdM3tFyeyc0bSvKQhzuApV-8ms5AA0ZF2z425ibTZt0e4Yo5rBnL0JEJhHyCybPgM

Job Reference (optional)

0-11-0	9-3-8	14-1-14	19-0-3	24-8-0	29-0-3	37-2-14	38-7-4	45-9-0	46-8-0
0-11-0	9-3-8	4-10-6	4-10-6	5-7-13	4-4-3	8-2-10	1-4-6	7-1-12	0-11-0

Scale = 1:85.6

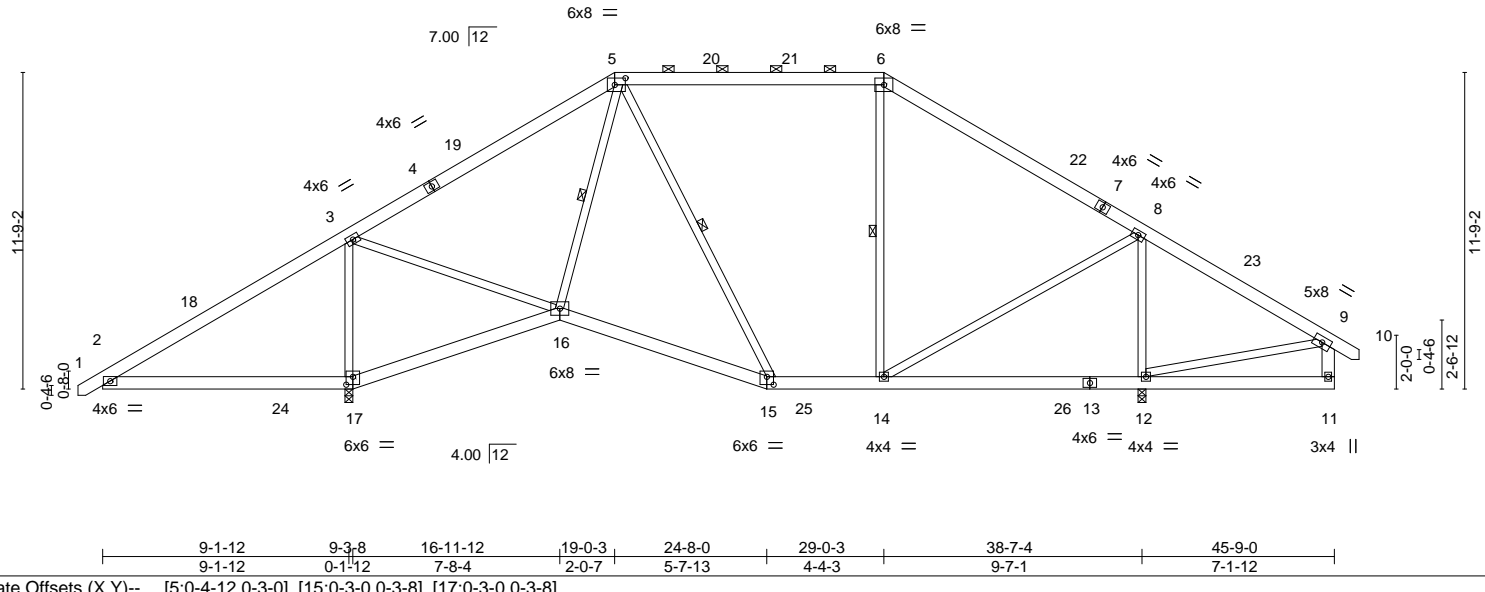


Plate Offsets (X,Y)--	[5:0-4-12,0-3-0], [15:0-3-0,0-3-8], [17:0-3-0,0-3-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.12 15-16	>999	240	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.17 15-16	>999	180		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.84	Horz(CT)	0.01 12	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						

Weight: 339 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.): 5-6.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 9-11: 2x6 SP No.1	WEBS 1 Row at midpt 6-14, 5-16, 5-15

REACTIONS. (size) 17=0-3-8, 12=0-3-8
 Max Horz 17=-267(LC 10)
 Max Uplift 17=-130(LC 12), 12=-109(LC 13)
 Max Grav 17=2267(LC 2), 12=1983(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-396/854, 3-5=-756/110, 5-6=-566/162, 6-8=-785/123, 8-9=-233/480
 BOT CHORD 2-17=-606/417, 16-17=-849/466, 15-16=-142/724, 14-15=-25/620, 12-14=-302/281
 WEBS 3-17=-1725/351, 6-14=-314/209, 8-14=-146/1000, 8-12=-1477/365, 9-12=-357/342, 5-16=-294/400, 3-16=-103/1225

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-5 to 3-9-10, Interior(1) 3-9-10 to 19-0-3, Exterior(2R) 19-0-3 to 25-5-13, Interior(1) 25-5-13 to 29-0-3, Exterior(2R) 29-0-3 to 35-5-13, Interior(1) 35-5-13 to 46-6-5 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 130 lb uplift at joint 17 and 109 lb uplift at joint 12.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 21, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888660
J0920-4348	A1GE	GABLE	1	1		
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Job Reference (optional)						

-0-11-0	9-1-12	19-0-3	29-0-3	38-7-4	45-9-0	46-8-0
0-11-0	9-1-12	9-10-7	10-0-0	9-7-1	7-1-12	0-11-0

Scale = 1:84.6

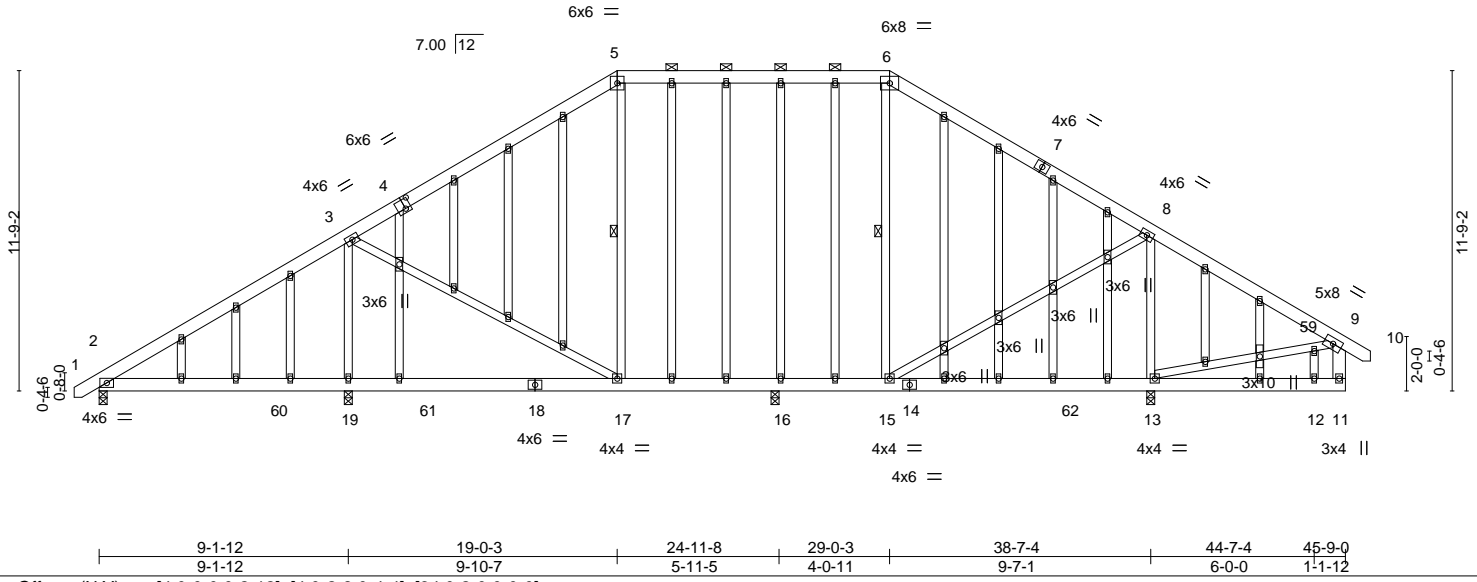


Plate Offsets (X,Y)--	[4:0-0-0,0-2-12], [4:0-2-8,0-4-4], [34:0-2-0,0-0-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.49	Vert(LL)	-0.07	17-19	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.35	Vert(CT)	-0.13	17-19	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.90	Horz(CT)	0.01	13	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.06	2-19	>999	Weight: 496 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.): 5-6.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 9-11: 2x6 SP No.1	WEBS 1 Row at midpt 5-17, 6-15
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 0-3-8.
 (lb) - Max Horz 2=375(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 16 except 2=-328(LC 8), 19=-586(LC 12), 13=-421(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 2=251(LC 20), 19=2347(LC 19), 13=1936(LC 2), 16=363(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-606/976, 3-5=-796/303, 5-6=-571/300, 6-8=-738/240, 8-9=-234/482
 BOT CHORD 2-19=-480/222, 17-19=-480/222, 16-17=-53/544, 15-16=-53/544, 13-15=-320/273
 WEBS 3-19=-1859/685, 3-17=-297/1099, 5-17=-329/287, 6-15=-325/174, 8-15=-102/955, 8-13=-1463/482, 13-59=-365/323, 9-59=-367/322

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 19-0-3, Exterior(2R) 19-0-3 to 23-5-0, Interior(1) 23-5-0 to 29-0-3, Exterior(2R) 29-0-3 to 33-5-0, Interior(1) 33-5-0 to 46-6-5 zone; cantilever right exposed; end vertical right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 2=328, 19=586, 13=421.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 21, 2020

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-743 rev. 5/19/2020 BEFORE USE.

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888661
J0920-4348	A2	PIGGYBACK BASE	5	1		

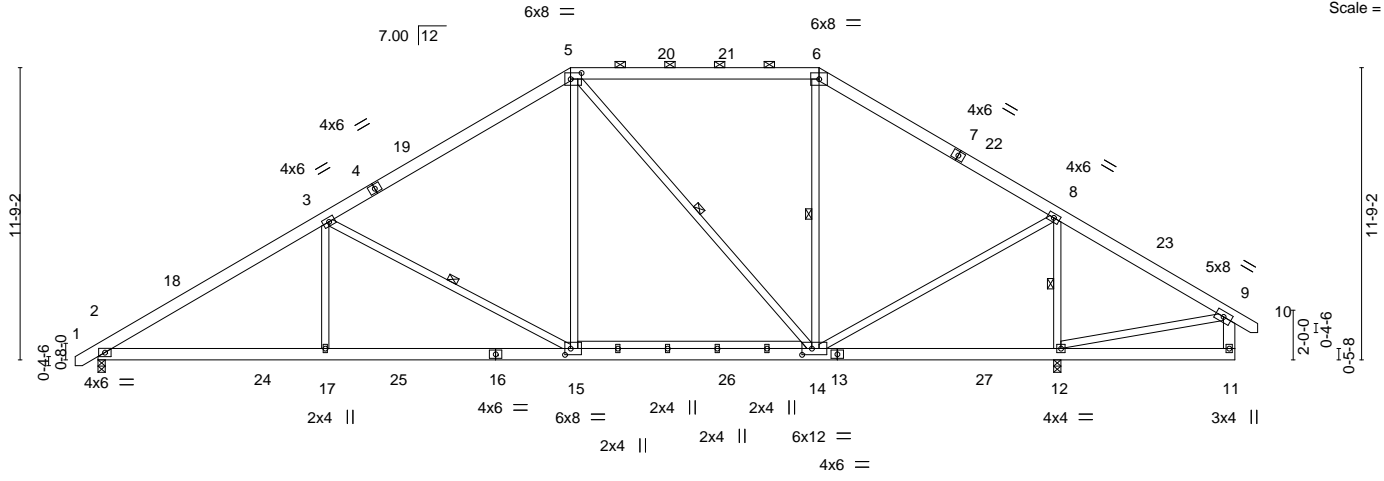
Comtech, Inc. Fayetteville, NC - 28314,

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ID:jCmlBXdm3tFyeyc0bSvKQhzuApV-0Y5c0Y33JHTVXj?MiPxywpjUwSvfhE0qexfU5zybPgI

0-11-0	9-1-12	19-0-3	29-0-3	38-7-4	45-9-0	46-8-0
0-11-0	9-1-12	9-10-7	10-0-0	9-7-1	7-1-12	0-11-0

Scale = 1:92.7



9-1-12	19-0-3	24-9-12	29-0-3	38-7-4	45-9-0
9-1-12	9-10-7	5-9-9	4-2-7	9-7-1	7-1-12

Plate Offsets (X,Y)-- [5:0-5-4,0-3-0], [14:0-4-12,0-3-0], [15:0-2-12,0-3-0]

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 0.51	Vert(LL)	-0.12	15-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.21	15-17	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.73	Horz(CT)	0.05	12	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05	2-17	>999	Weight: 361 lb	FT = 20%

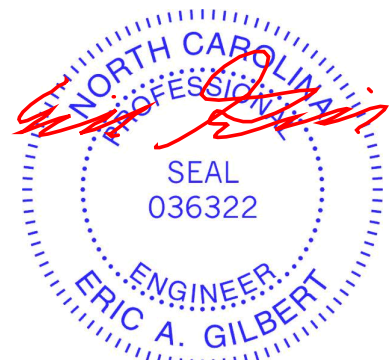
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-4-13 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-6.
BOT CHORD 2x6 SP No.1 *Except* 14-15: 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-14.
WEBS 2x4 SP No.2 *Except* 9-11: 2x6 SP No.1	WEBS 1 Row at midpt 3-15, 6-14, 8-12, 5-14

REACTIONS. (size) 2=0-3-8, 12=0-3-8
 Max Horz 2=301(LC 11)
 Max Uplift 2=-100(LC 12), 12=-98(LC 13)
 Max Grav 2=1823(LC 19), 12=2460(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2808/225, 3-5=-1755/280, 5-6=-980/267, 6-8=-1262/209, 8-9=-233/482
 BOT CHORD 2-17=-179/2518, 15-17=-179/2518, 14-15=-86/1498, 12-14=-310/248
 WEBS 3-17=0/620, 3-15=-1177/231, 5-15=0/915, 8-14=-206/1475, 8-12=-1959/426,
 9-12=-362/320, 5-14=-747/147

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 19-0-3, Exterior(2R) 19-0-3 to 25-2-14, Interior(1) 25-2-14 to 29-0-3, Exterior(2R) 29-0-3 to 35-2-14, Interior(1) 35-2-14 to 46-6-5 zone; cantilever right exposed; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Provide adequate drainage to prevent water ponding.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=100.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 21, 2020

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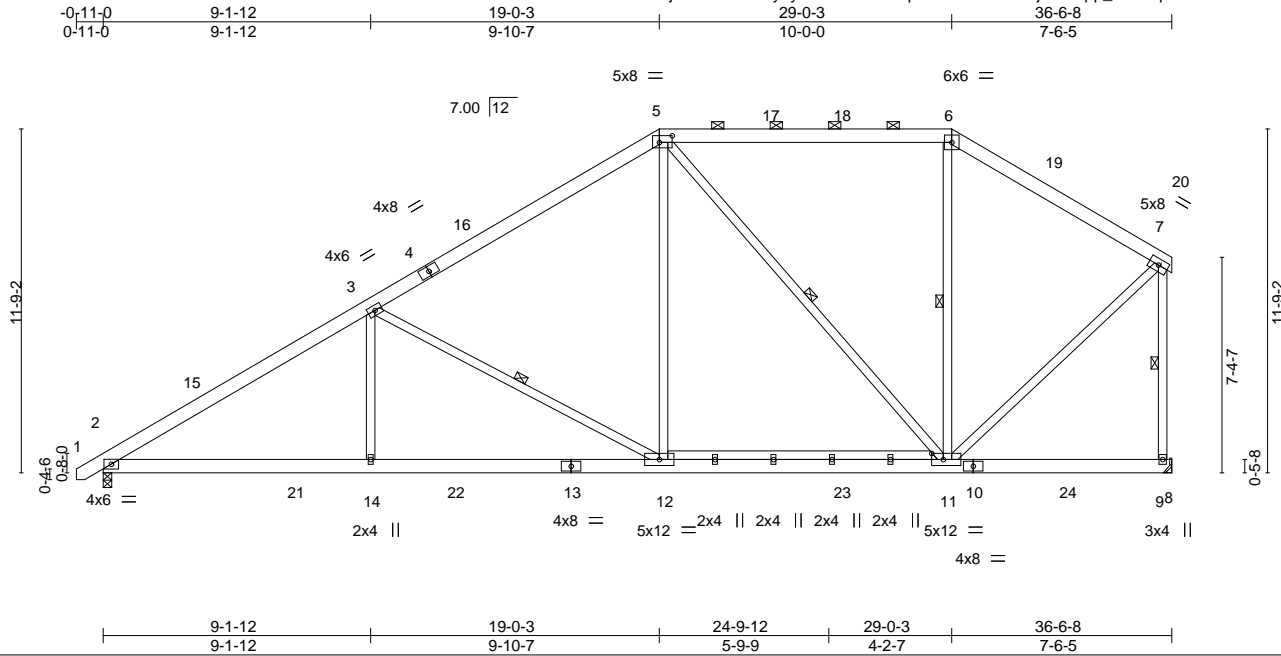
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888662
J0920-4348	A3	PIGGYBACK BASE	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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ID:jCmlBXdm3tFyeyc0bSvKQhzuApV-zwDNRE4KrujDn09lpp_QuLoqUGBEI7h75F8bArybPgG



Scale = 1:78.8

Plate Offsets (X,Y)--	[5:0-5-4,0-2-12], [11:0-4-12,0-2-8]
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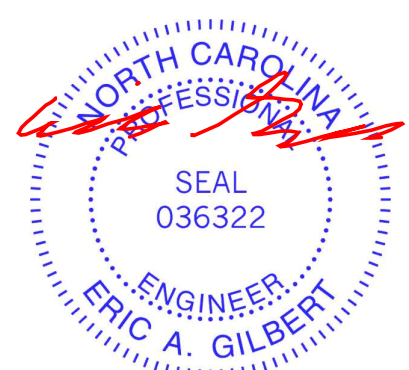
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.50	Vert(LL)	-0.11	12-14	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.20	12-14	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	0.05	9	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.05	2-14	>999	Weight: 300 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-8, 9=Mechanical
 Max Horz 2=288(LC 12)
 Max Uplift 2=-83(LC 12), 9=-29(LC 12)
 Max Grav 2=1785(LC 19), 9=1679(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-2736/235, 3-5=-1678/267, 5-6=-876/245, 6-7=-1073/220, 7-9=-1495/269
 BOT CHORD 2-14=-337/2402, 12-14=-337/2402, 11-12=-183/1382
 WEBS 3-14=0/620, 3-12=-1179/232, 5-12=0/918, 5-11=-801/122, 7-11=-140/1198

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 19-0-3, Exterior(2R) 19-0-3 to 25-2-14, Interior(1) 25-2-14 to 29-0-3, Exterior(2R) 29-0-3 to 35-2-14, Interior(1) 35-2-14 to 36-2-12 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, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 9.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 21, 2020

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

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888663
J0920-4348	A4	ROOF TRUSS	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:31 2020 Page 1
 ID:jCmlBXdm3tFyeyc0bSvKQhzuApV-vJK7rv6aNVzx0KJ7xE0uzmtDu3sjD26QZZdiEkybPgE

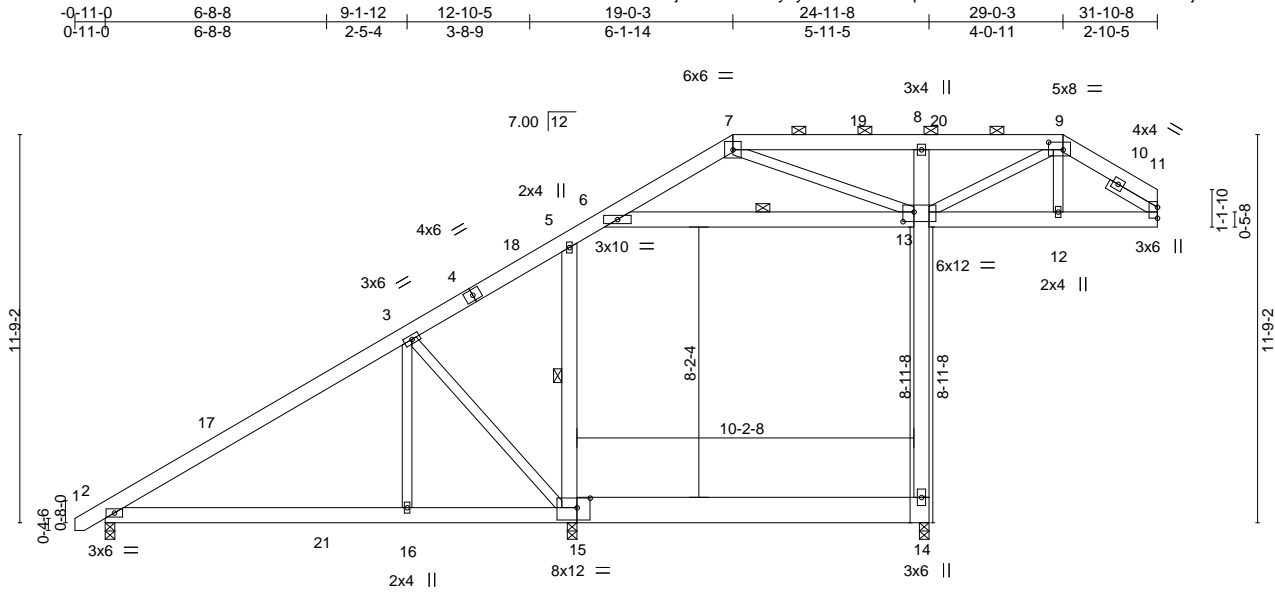


Plate Offsets (X, Y)--	[9:0-5-4,0-2-12], [13:0-4-0,0-3-8], [15:0-4-12,0-3-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.57	Vert(LL) -0.20 6-13 >642 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.66	Vert(CT) -0.26 6-13 >475 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 14 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.03 2-16 >999 240	Weight: 281 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 7-9.
BOT CHORD 2x6 SP No.1 *Except* 14-15: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except: 6-0-0 oc bracing: 6-13
WEBS 2x4 SP No.2 *Except* 5-15: 2x6 SP No.1	WEBS 1 Row at midpt 5-15
SLIDER Right 2x4 SP No.2 -x 1-8-12	

REACTIONS. (size) 2=0-3-8, 15=0-3-8, 14=0-3-8
 Max Horz 2=327(LC 12)
 Max Uplift 15=-141(LC 12)
 Max Grav 2=693(LC 20), 15=1533(LC 20), 14=1728(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-669/0, 7-8=-109/745, 8-9=-98/830
 BOT CHORD 2-16=-120/551, 15-16=-120/552, 13-14=-1403/222, 8-13=-382/160
 WEBS 3-16=0/381, 3-15=-745/174, 5-15=-542/146, 9-13=-785/137, 7-13=-800/203

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 19-0-3, Exterior(2R) 19-0-3 to 25-2-14, Interior(1) 25-2-14 to 29-0-3, Exterior(2E) 29-0-3 to 31-10-8 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 15=141.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 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 21, 2020

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

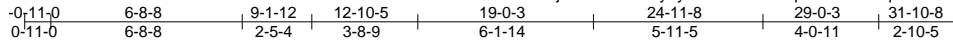
ENGINEERING BY
TRENCO
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 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888664
J0920-4348	A4A	ROOF TRUSS	2	1		

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ID:jCmlBXdM3tFyeyc0bSvKQhzuApV-rhStGt7qv7EffeTW2f2M2ByXgtXAh?1j0t6pJdybPgC



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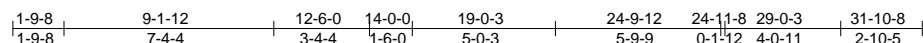
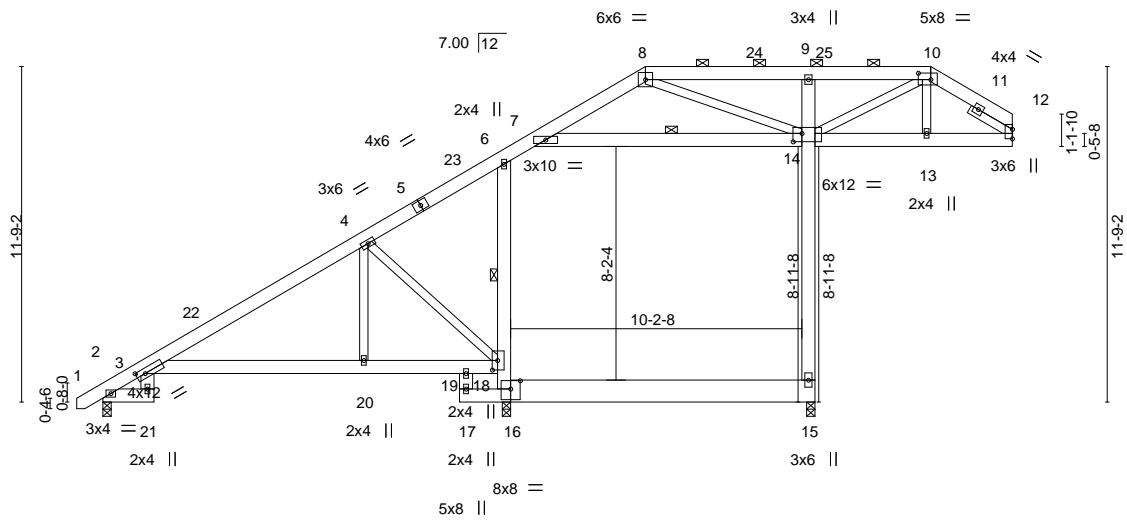


Plate Offsets (X, Y)--	[3:0-3-12,0-2-2], [10:0-5-4,0-2-12], [14:0-3-12,0-3-8], [16:0-4-0,0-3-8], [18:0-4-0,0-2-4]
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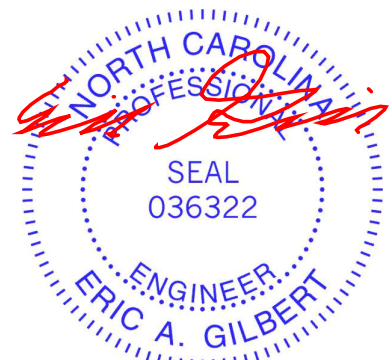
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.43	Vert(LL)	-0.20	7-14	>637	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.57	Vert(CT)	-0.27	7-14	>470		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.50	Horz(CT)	0.13	15	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.10	3-20	>999		
								Weight: 285 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
BOT CHORD 2x6 SP No.1 *Except* 15-16: 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing. Except:
WEBS 2x4 SP No.2 *Except* 6-16,3-21,17-19: 2x6 SP No.1	WEBS 1 Row at midpt 6-16
SLIDER Right 2x4 SP No.2 -x 1-8-12	

REACTIONS. (size) 16=0-3-8, 15=0-3-8, 2=0-3-8
 Max Horz 2=327(LC 12)
 Max Uplift 16=-157(LC 12)
 Max Grav 16=1592(LC 20), 15=1687(LC 2), 2=628(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-448/0, 3-4=-595/0, 8-9=-102/715, 9-10=-97/825
 BOT CHORD 14-15=-1392/219, 9-14=-382/160, 3-20=-136/549, 19-20=-136/549, 18-19=-136/549
 WEBS 4-20=0/284, 4-18=-705/187, 16-18=-813/242, 6-18=-568/155, 10-14=-779/135,
 8-14=-772/196, 17-19=-315/0

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 19-0-3, Exterior(2R) 19-0-3 to 25-2-14, Interior(1) 25-2-14 to 29-0-3, Exterior(2E) 29-0-3 to 31-10-8 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, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 16=157.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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 21, 2020

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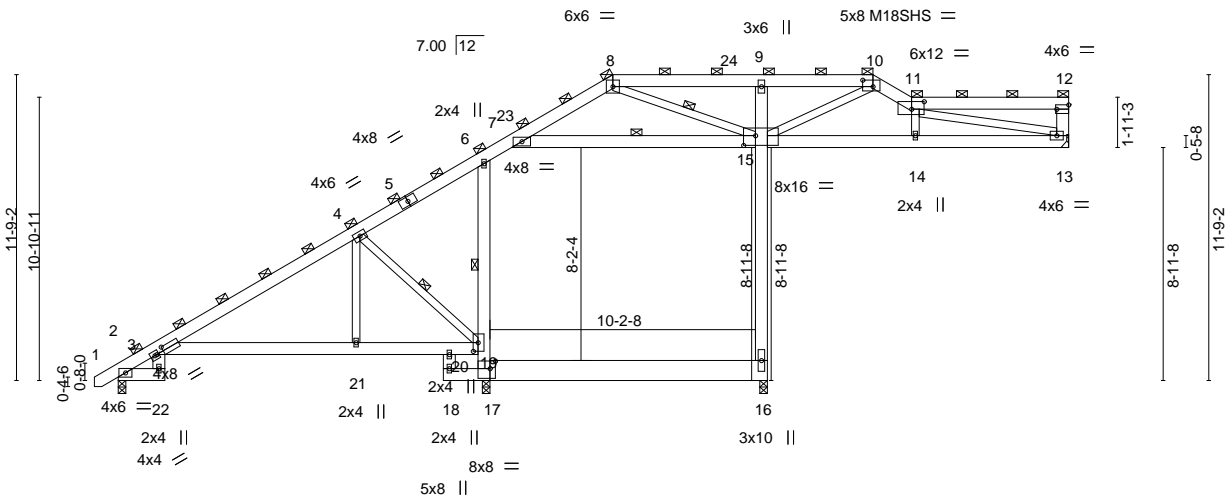
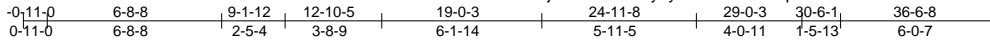
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888665
J0920-4348	A5	ROOF TRUSS	3	1		

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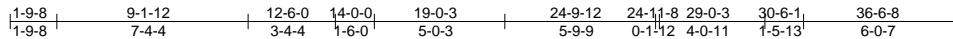


Plate Offsets (X,Y)--	[3:0-3-7,0-2-0], [10:0-4-12,0-3-0], [11:0-5-12,0-3-8], [12:Edge,0-2-0], [15:0-5-8,0-4-8], [17:0-2-8,0-3-8], [19:0-4-0,0-2-4]
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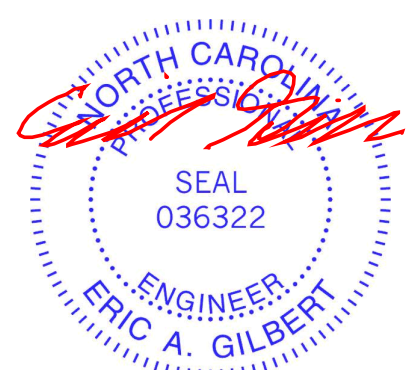
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 1.00	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.81	Vert(LL) -0.32 7-15 >387 360	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr NO	WB 0.77	Vert(CT) -0.44 7-15 >285 240		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.26 16 n/a n/a		
			Wind(LL) 0.20 3-21 >829 240	Weight: 313 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (2-4-4 max.), except end verticals
BOT CHORD 2x6 SP No.1 *Except* 7-15: 2x6 SP 2400F 2.0E, 16-17: 2x10 SP 2400F 2.0E	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x4 SP No.2 *Except* 12-13,6-17,3-22,18-20: 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 4-5-13 oc bracing. Except: 6-0-0 oc bracing: 7-15
	WEBS 1 Row at midpt 4-19, 6-17, 8-15

REACTIONS. All bearings 0-3-8 except (jt=length) 13=Mechanical.
 (lb) - Max Horz 2=715(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 13, 16 except 17=331(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) except 13=622(LC 27), 17=3113(LC 20), 16=3573(LC 2), 2=1269(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-913/0, 3-4=-1158/0, 4-6=-343/209, 6-7=-389/1, 7-8=-380/281, 8-9=-189/1485,
 9-10=-199/1711, 10-11=-16/430, 11-12=-307/51, 12-13=-463/155
 BOT CHORD 15-16=-2981/485, 9-15=-672/321, 7-15=-202/311, 3-21=-335/1099, 20-21=-335/1099,
 19-20=-335/1099
 WEBS 4-21=0/576, 4-19=-1430/457, 17-19=-1598/636, 6-19=-1066/375, 10-15=-1913/323,
 11-14=0/369, 11-13=-67/373, 8-15=-1617/449, 3-22=-66/251, 18-20=-586/7

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 19-0-3, Exterior(2R) 19-0-3 to 23-5-0, Interior(1) 23-5-0 to 29-0-3, Exterior(2E) 29-0-3 to 30-6-1, Interior(1) 30-6-1 to 36-3-12 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.
 - 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, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13, 16 except (jt=lb) 17=331.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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 21, 2020

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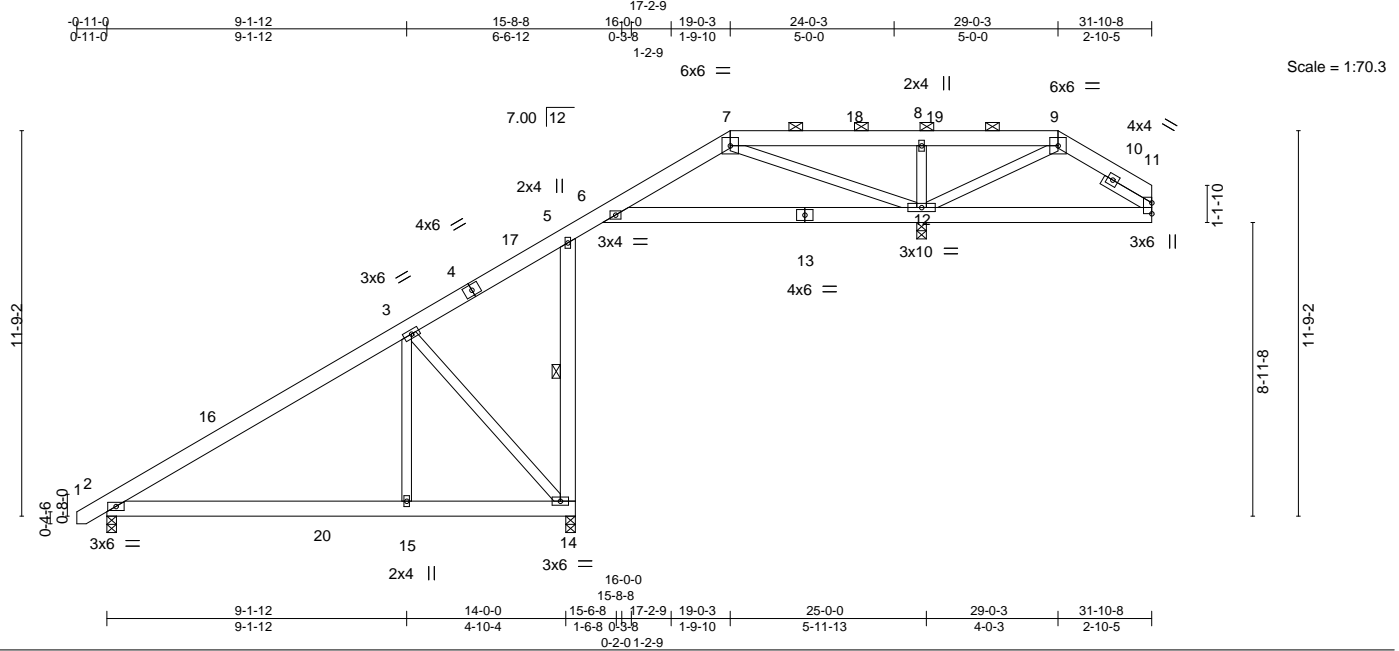
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888666
J0920-4348	A6	Piggyback Base	1	1	Job Reference (optional)	

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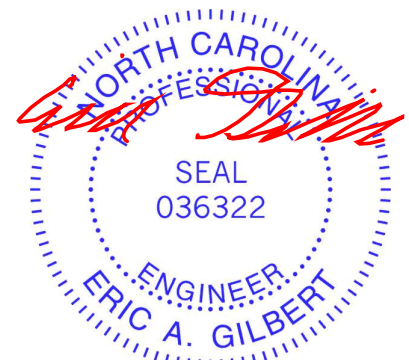
LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	Vert(LL)	-0.06	2-15	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.31	Vert(CT)	-0.12	2-15	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.73	Horz(CT)	0.01	12	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.03	2-15	>999		
	Code IRC2018/TPI2014						Weight: 216 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-8, 14=0-3-8, 12=0-3-8
 Max Horz 2=327(LC 12)
 Max Uplift 14=-215(LC 12), 12=-43(LC 8)
 Max Grav 2=685(LC 19), 14=1060(LC 19), 12=1233(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-680/0, 7-8=-121/702, 8-9=-121/702, 9-11=-13/280
 BOT CHORD 2-15=-108/550, 14-15=-108/550
 WEBS 3-15=0/465, 5-14=-423/147, 3-14=-826/163, 8-12=-382/163, 7-12=-762/215, 9-12=-602/183

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 19-0-3, Exterior(2R) 19-0-3 to 25-2-14, Interior(1) 25-2-14 to 29-0-3, Exterior(2E) 29-0-3 to 31-10-8 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, with BCCL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 14=215.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



September 21, 2020

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888667
J0920-4348	A6A	Piggyback Base	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:39 2020 Page 1

ID:jCmlBXdm3tFyeycObSvKQhzuApV-grp8XeCbUz_ozZwgPw9miSCYLLd15iDbPoZ7WgYbPg6

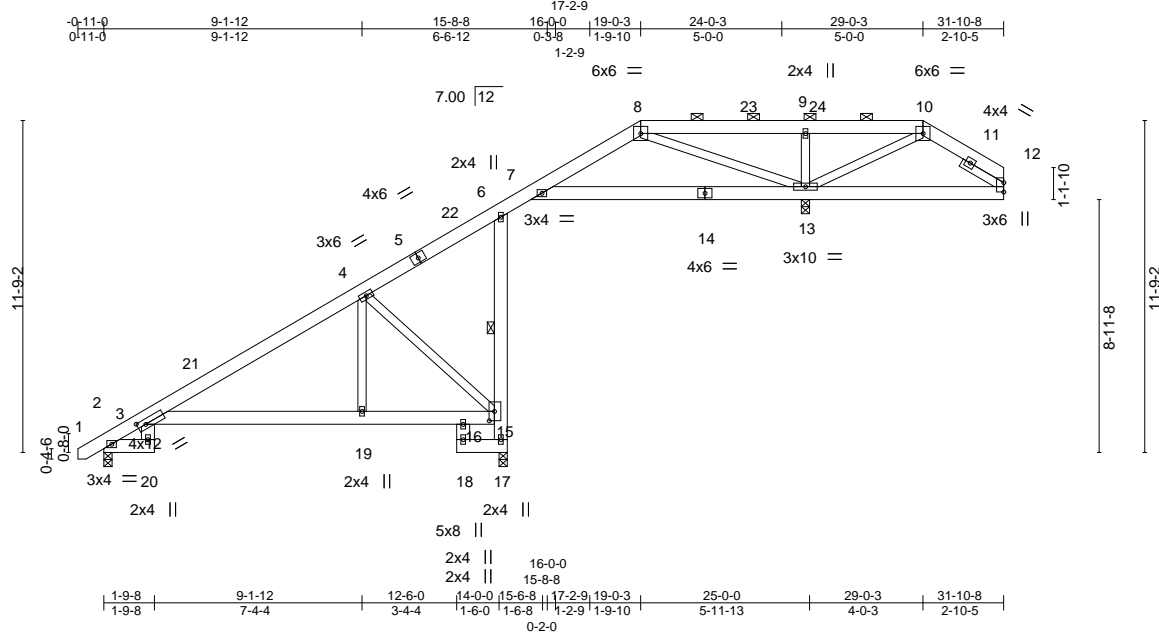


Plate Offsets (X,Y)--	[3:0-3-8,0-2-2], [15:0-4-0,0-2-4]
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LOADING (psf)	SPACING-	CSL	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.35	Vert(LL) -0.08 3-19 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.52	Vert(CT) -0.17 3-19 >964 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.11 17 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.10 3-19 >999 240	Weight: 220 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except 2-0-0 oc purlins (10-0-0 max.): 8-10.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 6-17
6-17,16-18,3-20: 2x6 SP No.1	
SLIDER Right 2x4 SP No.3 -x 1-8-12	

REACTIONS. (size) 2=0-3-8, 17=0-3-8, 13=0-3-8
 Max Horz 2=327(LC 12)
 Max Uplift 17=-219(LC 12), 13=-44(LC 8)
 Max Grav 2=603(LC 1), 17=884(LC 19), 13=1158(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-399/0, 3-4=-618/0, 8-9=-121/663, 9-10=-121/663
 BOT CHORD 3-19=-133/523, 16-19=-133/523, 15-16=-133/523
 WEBS 4-19=0/358, 15-17=-871/227, 6-15=-423/154, 4-15=-710/181, 9-13=-382/163,
 8-13=-751/212, 10-13=-589/183

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 19-0-3, Exterior(2R) 19-0-3 to 25-2-14, Interior(1) 25-2-14 to 29-0-3, Exterior(2E) 29-0-3 to 31-10-8 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 17=219.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

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

ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888668
J0920-4348	A6GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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ID:jCmlBXdM3tFyeycObSvKQhzuApV-82NXk_DDFG6fbjVsydg?gglpxh2LqG3ldSjg3jybPg5

-0-11-0	15-8-8	16-0-0	19-0-3	29-0-3	31-10-8
0-11-0	15-8-8	0-3-8	3-0-3	10-0-0	2-10-5

6x6 =

Scale = 1:66.2

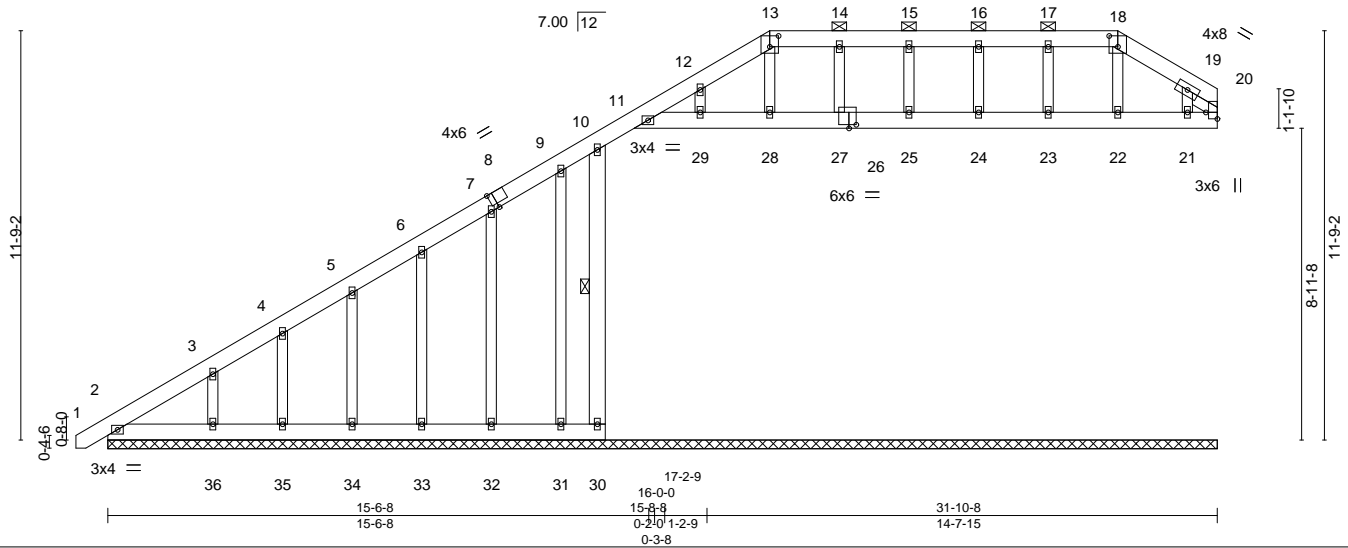


Plate Offsets (X, Y)--	[8:0-1-14,Edge], [13:0-3-0,0-3-12], [18:0-3-0,0-3-12], [20:Edge,0-4-0], [26:0-0-0,0-2-12], [26:0-2-8,0-1-4], [27:0-1-12,0-0-0]
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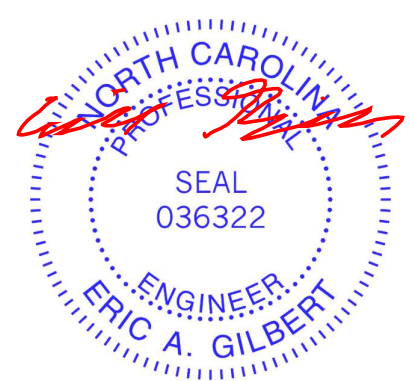
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	-0.01	11	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 237 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
BOT CHORD 2x6 SP No.1	2-0-0 oc purlins (6-0-0 max.): 13-18.
WEBS 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 10-30
SLIDER Right 2x4 SP No.2 -x 0-10-12	

REACTIONS. All bearings 31-10-8.
 (lb) - Max Horz 2=478(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 20, 2, 30, 11, 22, 23, 24, 25, 27, 28, 29, 31, 32, 33, 34, 35, 21 except 36=139(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 20, 2, 30, 11, 22, 23, 24, 25, 27, 28, 29, 31, 32, 33, 34, 35, 21 except 36=265(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-510/262, 3-4=-405/212, 4-5=-347/194, 5-6=-283/171

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Hip Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 19-0-3, Exterior(2R) 19-0-3 to 23-5-0, Interior(1) 23-5-0 to 29-0-3, Exterior(2E) 29-0-3 to 31-10-8 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.
 - Provide adequate drainage to prevent water ponding.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Bearing at joint(s) 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 100 lb uplift at joint(s) 20, 2, 30, 11, 22, 23, 24, 25, 27, 28, 29, 31, 32, 33, 34, 35, 21 except (jt=lb) 36=139.
 - Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 20, 11, 22, 23, 24, 25, 27, 28, 29, 21.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

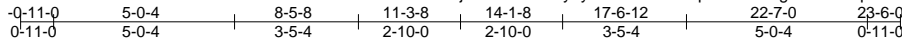


Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888669
J0920-4348	B1	PIGGYBACK ATTIC	2	1		

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Scale: 3/16"=1'

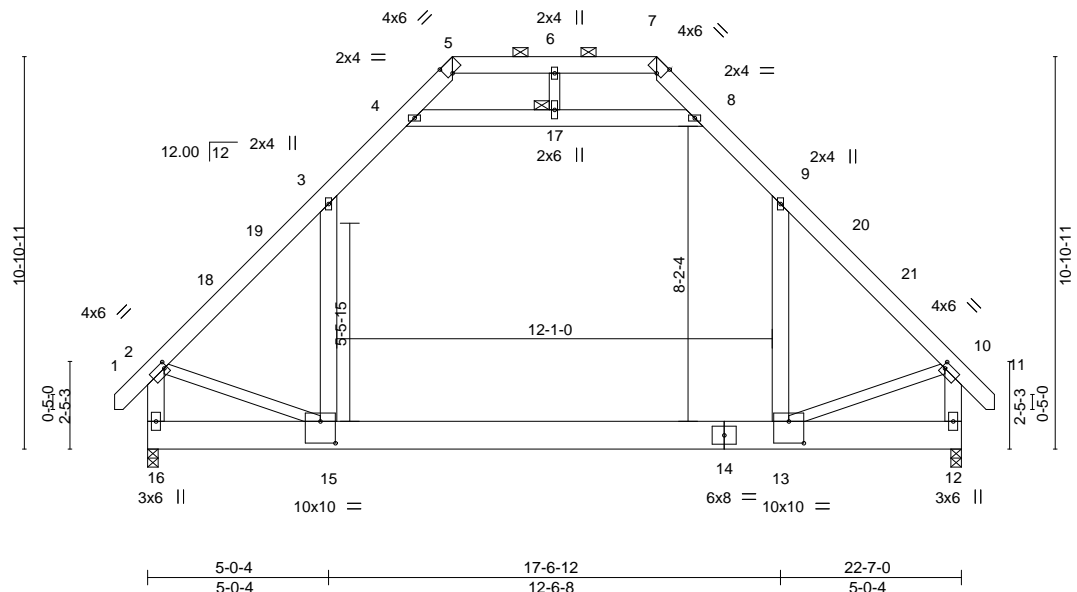


Plate Offsets (X,Y)--	[2:0-1-0,0-2-0], [5:0-2-2,Edge], [7:0-2-2,Edge], [10:0-1-0,0-2-0], [13:0-5-0,0-7-4], [15:0-5-0,0-7-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.66	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.19 13-15 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Vert(CT) -0.31 13-15 >846 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 12 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.06 13-15 >999 240	Weight: 236 lb	FT = 20%

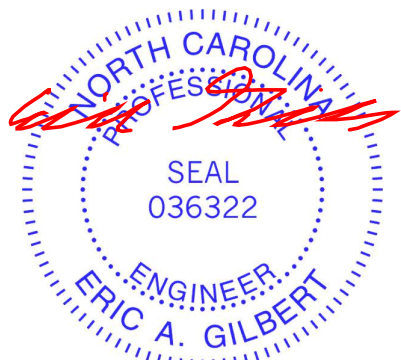
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-3-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-7.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 2-15,10-13,6-17: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 17

REACTIONS. (size) 16=0-3-8, 12=0-3-8
 Max Horz 16=-292(LC 10)
 Max Grav 16=1520(LC 2), 12=1520(LC 2)

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

TOP CHORD	2-3=-1611/0, 3-4=-992/140, 8-9=-992/154, 9-10=-1611/0, 5-6=-53/412, 6-7=-53/412, 2-16=-1670/3, 10-12=-1671/25
BOT CHORD	15-16=-267/386, 13-15=0/1037
WEBS	3-15=0/699, 9-13=0/699, 4-17=-1299/121, 8-17=-1299/121, 2-15=0/973, 10-13=0/975

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-10 to 3-7-3, Interior(1) 3-7-3 to 8-5-8, Exterior(2E) 8-5-8 to 14-1-8, Exterior(2R) 14-1-8 to 20-4-3, Interior(1) 20-4-3 to 23-4-10 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 8-9, 4-17, 8-17; Wall dead load (5.0psf) on member(s).3-15, 9-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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.



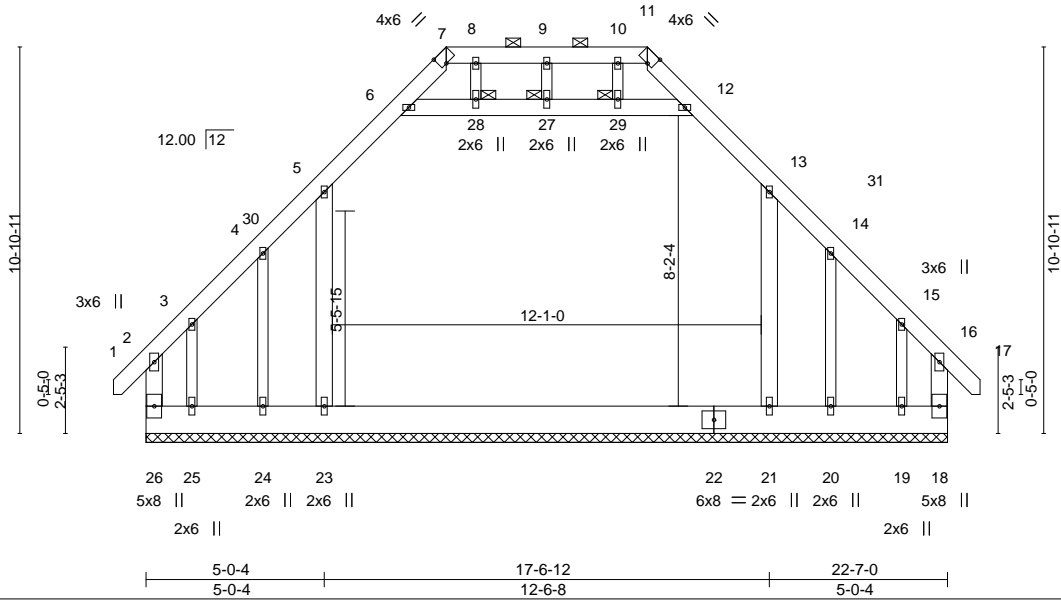
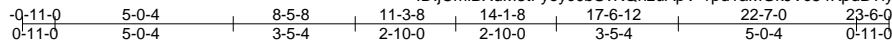
September 21, 2020

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Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888670
J0920-4348	B1GE	GABLE	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

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Scale = 1:64.9

Plate Offsets (X,Y)--	[7:0-2-2,Edge], [11:0-2-2,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.18	Vert(LL) -0.00 16 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.30	Vert(CT) -0.00 16 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) -0.00 18 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S		Weight: 246 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 9-27: 2x4 SP No.2
 OTHERS 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 7-11.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 JOINTS 1 Brace at Jt(s): 27, 28, 29

REACTIONS.

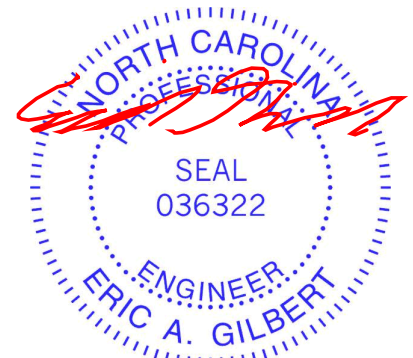
All bearings 22-7-0.
 (lb) - Max Horz 26=-366(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 26=-369(LC 8), 18=-348(LC 9), 24=-792(LC 18), 25=-485(LC 12), 20=-792(LC 18), 19=-480(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) except 26=823(LC 21), 23=1530(LC 20), 21=1522(LC 21), 18=812(LC 23), 25=412(LC 10), 19=396(LC 11)

FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-547/234, 3-4=-359/156, 4-5=-289/212, 5-6=-511/246, 6-7=-570/117, 11-12=-570/121, 12-13=-511/246, 13-14=-279/212, 14-15=-359/147, 15-16=-544/221, 7-8=-485/74, 8-9=-485/74, 9-10=-485/74, 10-11=-485/74, 2-26=-529/205, 16-18=-520/193
 BOT CHORD 25-26=-136/278, 24-25=-135/278, 23-24=-135/278, 21-23=-135/278, 20-21=-135/278, 19-20=-135/278, 18-19=-134/277
 WEBS 5-23=-550/64, 13-21=-550/54, 6-28=-1/319, 27-28=-1/319, 27-29=-1/319, 12-29=-1/319, 3-25=-161/273, 15-19=-155/271

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-10 to 3-7-3, Exterior(2N) 3-7-3 to 8-5-8, Corner(3R) 8-5-8 to 12-10-5, Exterior(2N) 12-10-5 to 14-1-8, Corner(3R) 14-1-8 to 18-6-5, Exterior(2N) 18-6-5 to 23-4-10 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- Provide adequate drainage to prevent water ponding.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Ceiling dead load (10.0 psf) on member(s). 5-6, 12-13, 6-28, 27-28, 27-29, 12-29; Wall dead load (5.0psf) on member(s). 5-23, 13-21



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Continued on page 2

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ENGINEERING BY
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 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888670
J0920-4348	B1GE	GABLE	1	1	Job Reference (optional)	

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NOTES-

- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 369 lb uplift at joint 26, 348 lb uplift at joint 18, 792 lb uplift at joint 24, 485 lb uplift at joint 25, 792 lb uplift at joint 20 and 480 lb uplift at joint 19.
- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 14) Attic room checked for L/360 deflection.

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

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



818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888671
J0920-4348	B2	PIGGYBACK ATTIC	4	1	Job Reference (optional)	

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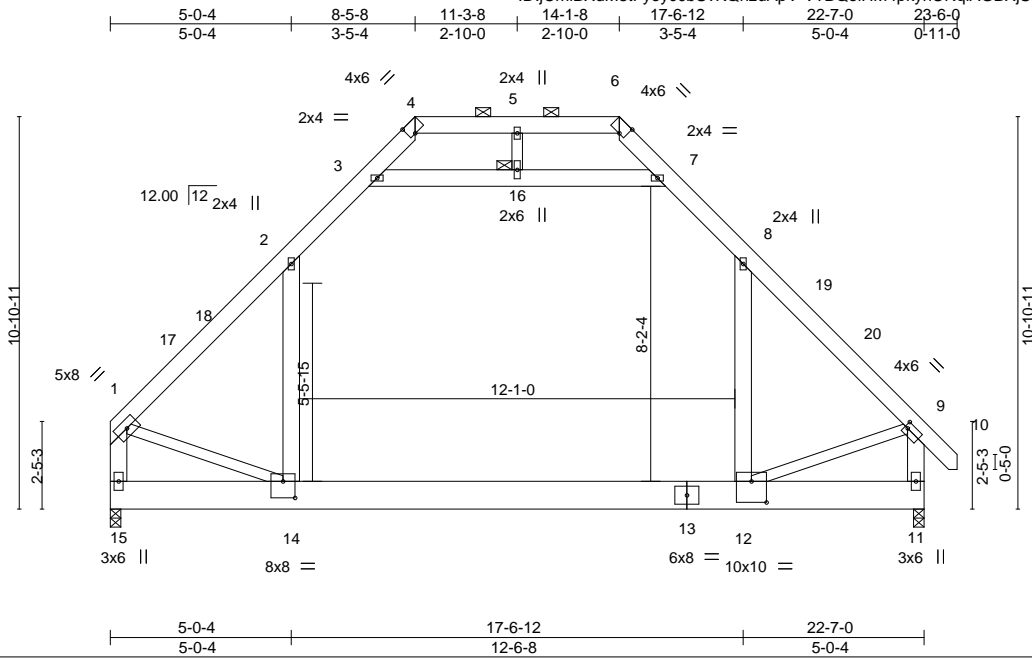


Plate Offsets (X,Y)--	[4:0-2-2,Edge], [6:0-2-2,Edge], [9:0-1-0,0-2-0], [12:0-5-0,0-7-0], [14:0-4-0,0-5-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.19 12-14 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.25	Vert(CT) -0.32 12-14 >841 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 11 n/a n/a		
	Code IRC2018/TPI2014		Wind(LL) 0.06 12-14 >999 240	Weight: 233 lb	FT = 20%

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

REACTIONS.	(size) 15=0-3-8, 11=0-3-8
	Max Horz 15=-284(LC 8)
	Max Grav 15=1468(LC 2), 11=1522(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1600/0, 2-3=-995/139, 7-8=-993/152, 8-9=-1614/0, 4-5=-49/419, 5-6=-49/419, 1-15=-1627/0, 9-11=-1675/22
BOT CHORD	14-15=-252/348, 12-14=0/1039
WEBS	2-14=0/678, 8-12=0/702, 3-16=-1306/120, 7-16=-1306/120, 1-14=0/1012, 9-12=0/978

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 8-5-8, Exterior(2E) 8-5-8 to 14-1-8, Exterior(2R) 14-1-8 to 20-4-3, Interior(1) 20-4-3 to 23-4-10 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-16, 7-16; Wall dead load (5.0psf) on member(s). 2-14, 8-12
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 12-14
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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 21, 2020

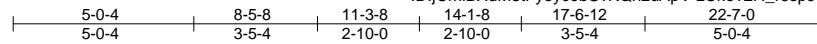
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</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 J0920-4348	Truss B2GRD	Truss Type PIGGYBACK ATTIC	Qty 1	Ply 3	Chris Foisy Residence	E14888672
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8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:46 2020 Page 1

ID:jCmIBXdM3Fyeyc0bSvKQhzuApV-zCko?2H_r6spJey0JunQ4x?cQ6uQEvd0Om?GMybPg?



Scale: 3/16"=1'

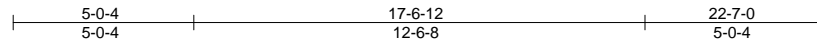
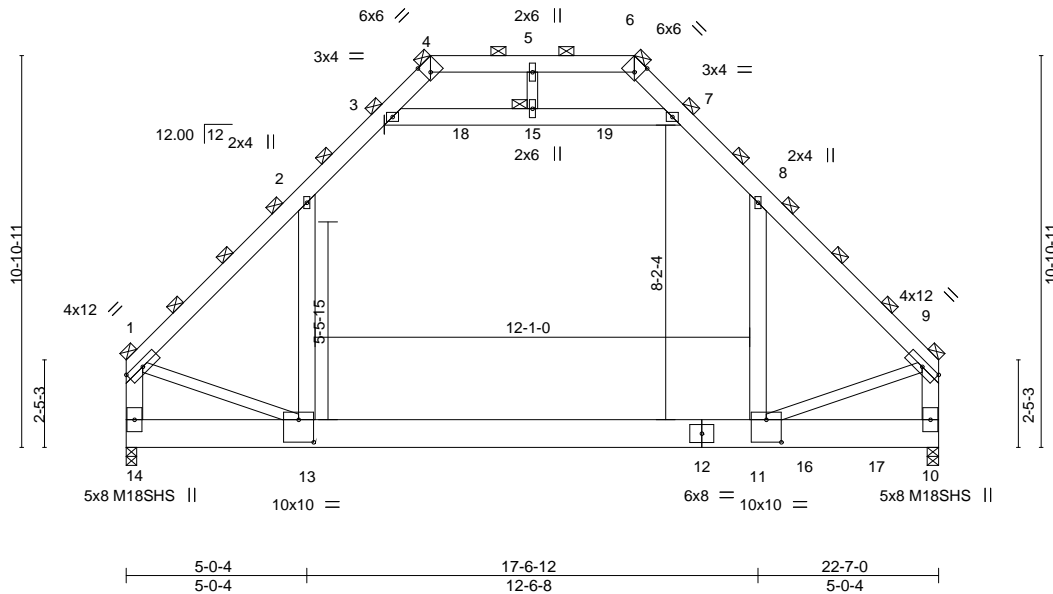


Plate Offsets (X,Y)--	[1:0-5-12,Edge], [4:0-2-2,Edge], [6:0-2-2,Edge], [9:0-5-12,Edge], [11:0-5-0,0-7-8], [13:0-5-0,0-7-8]
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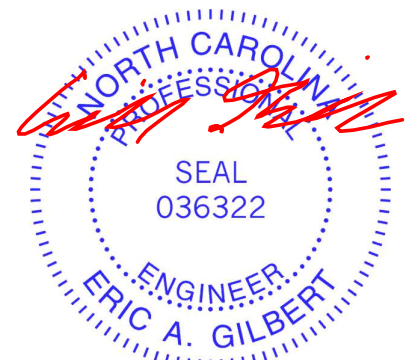
LOADING (psf)	SPACING-	6-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 1.00	Vert(LL)	-0.22	11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.87	Vert(CT)	-0.37	11-13	>721	240	M18SHS	244/190
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.44	Horz(CT)	0.01	10	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S	Wind(LL)	0.09	11-13	>999	240		
									Weight: 692 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (3-1-0 max.), except end verticals (Switched from sheeted: Spacing > 2-8-0).
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except* 1-13,9-11,5-15: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 1, 4, 9, 6, 15

REACTIONS.	(size) 14=0-3-8, 10=0-3-13
	Max Horz 14=-803(LC 28)
	Max Grav 14=7252(LC 36), 10=9705(LC 2)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-7907/0, 2-3=-5760/89, 3-4=-2142/648, 6-7=-2105/683, 7-8=-5764/86, 8-9=-8194/0, 4-5=-1099/742, 5-6=-1099/742, 1-14=-7979/0, 9-10=-8123/0
BOT CHORD	13-14=-831/1040, 11-13=0/5368, 10-11=-158/912
WEBS	2-13=-100/1872, 8-11=-50/2129, 3-15=-4693/0, 7-15=-4693/0, 1-13=0/5346, 9-11=0/4962, 5-15=0/2673

- 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.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-4-0 oc.
Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, Except member 3-7 2x6 - 2 rows staggered at 0-7-0 oc, 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 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). 2-3, 7-8, 3-15, 7-15; Wall dead load (5.0psf) on member(s).2-13, 8-11
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
 - 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) 792 lb down and 45 lb up at 5-0-4, and 792 lb down and 45 lb up at 17-6-12 on top chord, and 1731 lb down and 89 lb up at 18-10-4, and 1731 lb down and 89 lb up at 20-10-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.



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ENGINEERING BY
TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888672
J0920-4348	B2GRD	PIGGYBACK ATTIC	1	3	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:46 2020 Page 2
 ID:jCmlBXdm3tFyeyc0bSvKQhzuApV-zCko?2H_r6spJey0JunQ4x?cQ6uQEvJd0Om?GMybPg?

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 13-14=-60, 11-13=-120, 10-11=-60, 1-2=-180, 2-3=-240, 3-4=-180, 6-7=-180, 7-8=-240, 8-9=-180, 4-6=-180, 3-7=-60

Drag: 2-13=-30, 8-11=-30

Concentrated Loads (lb)

Vert: 2=-420(F) 8=-420(F) 15=-634(F) 16=-1389(F) 17=-1389(F) 18=-634(F) 19=-634(F)

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888673
J0920-4348	C1	COMMON	5	1		

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8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:47 2020 Page 1
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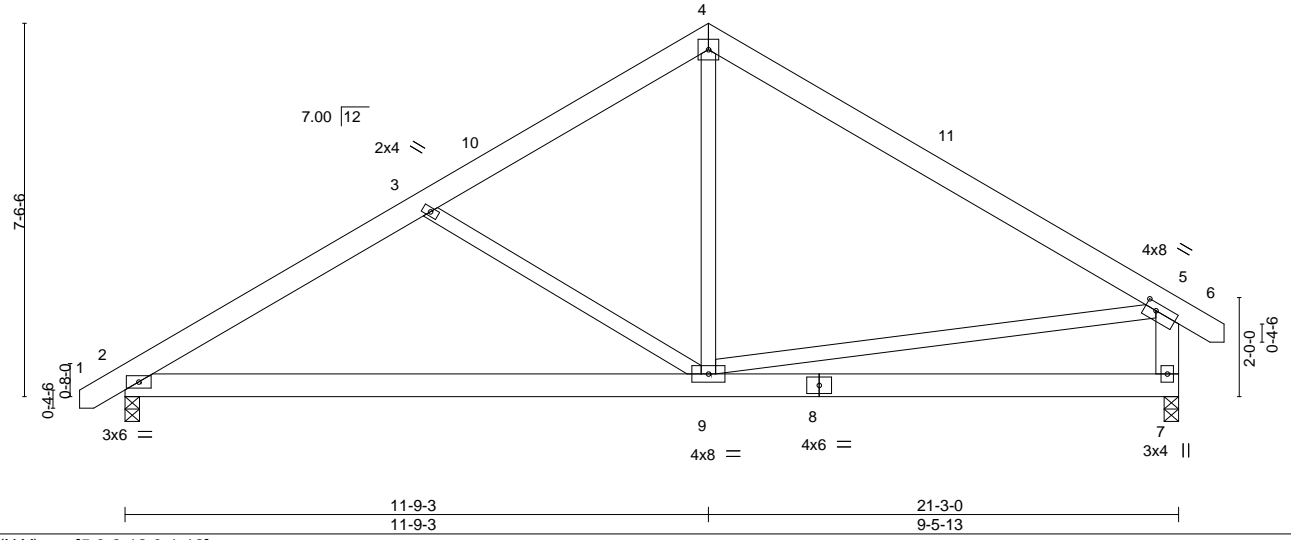


Plate Offsets (X,Y)--	[5:0-2-12,0-1-12]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 2-0-0	TC 0.33	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(LL) -0.11 2-9 >999 360		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.30	Vert(CT) -0.22 2-9 >999 240		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-S	Horz(CT) 0.01 7 n/a n/a		
			Wind(LL) 0.02 2-9 >999 240	Weight: 149 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.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 5-7: 2x6 SP No.1	

REACTIONS. (size) 7=0-3-8, 2=0-3-8
 Max Horz 2=199(LC 11)
 Max Uplift 7=-52(LC 13), 2=-64(LC 12)
 Max Grav 7=895(LC 1), 2=890(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1178/287, 3-4=-860/234, 4-5=-926/204, 5-7=-821/246
 BOT CHORD 2-9=-239/991, 7-9=-145/306
 WEBS 3-9=-386/223, 4-9=0/490, 5-9=-13/447

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) -0-9-5 to 3-7-8, Interior(1) 3-7-8 to 11-9-3, Exterior(2R) 11-9-3 to 16-2-0, Interior(1) 16-2-0 to 22-0-5 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 52 lb uplift at joint 7 and 64 lb uplift at joint 2.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888674
J0920-4348	C1GE	COMMON SUPPORTED GAB	1	1		

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8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:48 2020 Page 1
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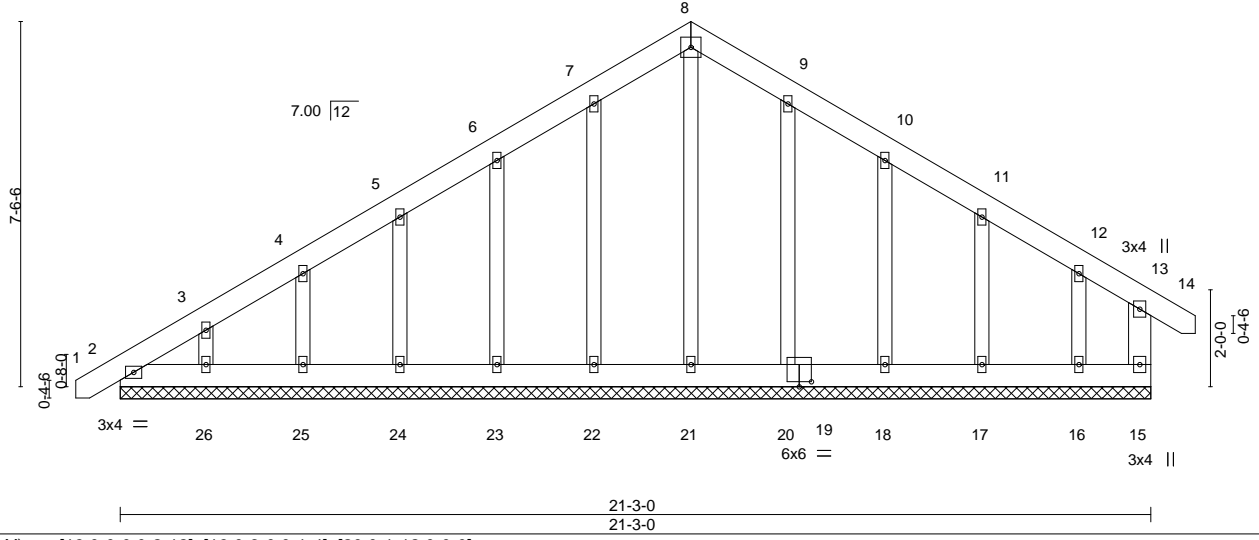


Plate Offsets (X,Y)--	[19:0-0-0,0-2-12], [19:0-3-0,0-1-4], [20:0-1-12,0-0-0]
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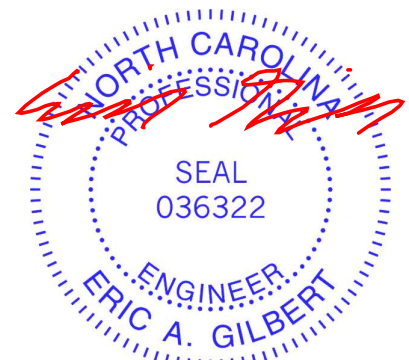
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/def	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	13	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	13	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.00	15	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 171 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.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x6 SP No.1	
OTHERS 2x4 SP No.2	

REACTIONS. All bearings 21-3-0.
 (lb) - Max Horz 2=248(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 15, 2, 21, 22, 23, 24, 25, 26, 20, 18, 17 except 16=130(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 15, 2, 21, 22, 23, 24, 25, 26, 20, 18, 17, 16

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 7-8=-167/275, 8-9=-167/275

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-9-5 to 3-9-3, Exterior(2N) 3-9-3 to 11-9-3, Corner(3R) 11-9-3 to 16-2-0, Exterior(2N) 16-2-0 to 22-0-5 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 4) All plates are 2x4 MT20 unless otherwise indicated.
 - 5) Gable requires continuous bottom chord bearing.
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 15, 2, 21, 22, 23, 24, 25, 26, 20, 18, 17 except (jt=lb) 16=130.
 - 10) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



September 21, 2020

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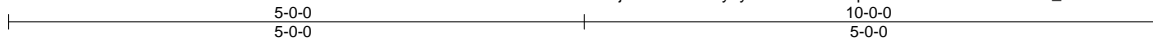
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888675
J0920-4348	PB1	GABLE	22	1	Job Reference (optional)	

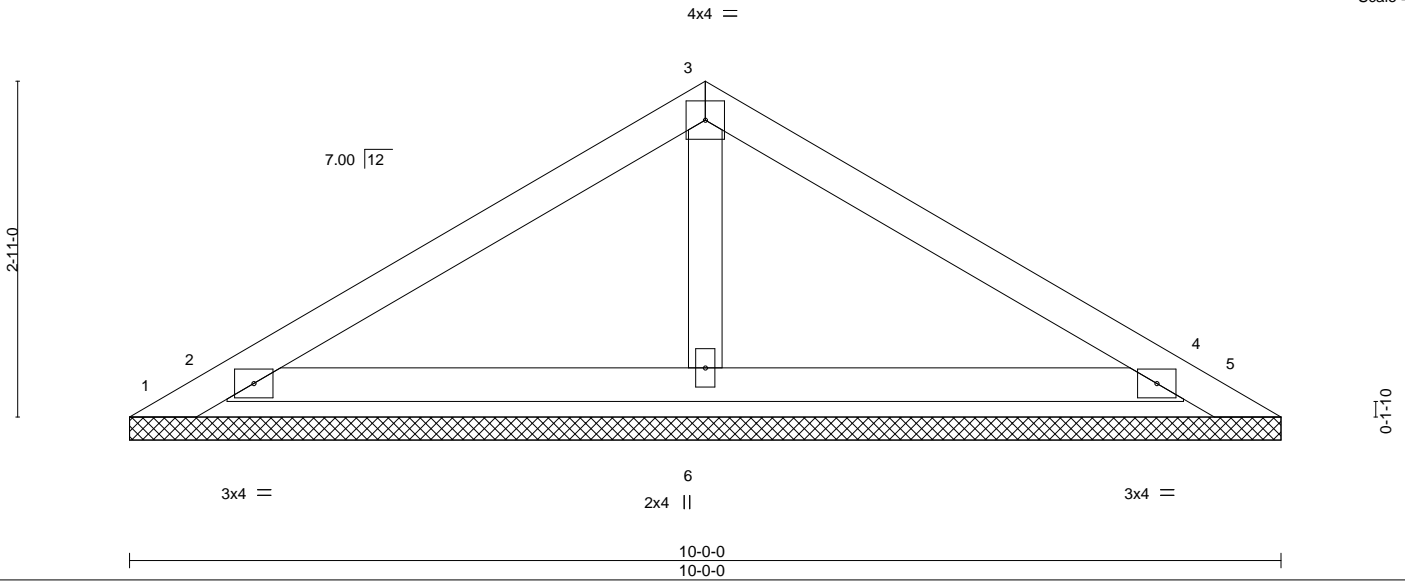
Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:49 2020 Page 1

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Scale = 1:20.0



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 0.19	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P							
									Weight: 33 lb	FT = 20%

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

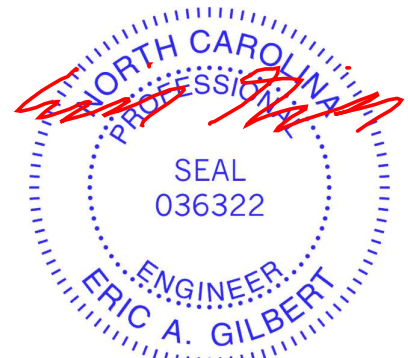
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-0-0.
 (lb) - Max Horz 1=66(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=224(LC 19), 5=199(LC 20), 2=167(LC 12), 4=157(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 2=457(LC 19), 4=442(LC 20), 6=275(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-3-8 to 4-8-4, Interior(1) 4-8-4 to 5-0-0, Exterior(2R) 5-0-0 to 9-1-13, Interior(1) 9-1-13 to 9-8-8 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.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 6-0-0 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 224 lb uplift at joint 1, 199 lb uplift at joint 5, 167 lb uplift at joint 2 and 157 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 21, 2020

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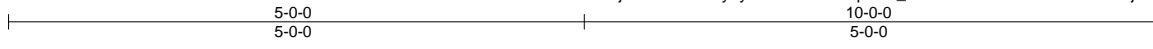


818 Soundside Road
 Edenton, NC 27932

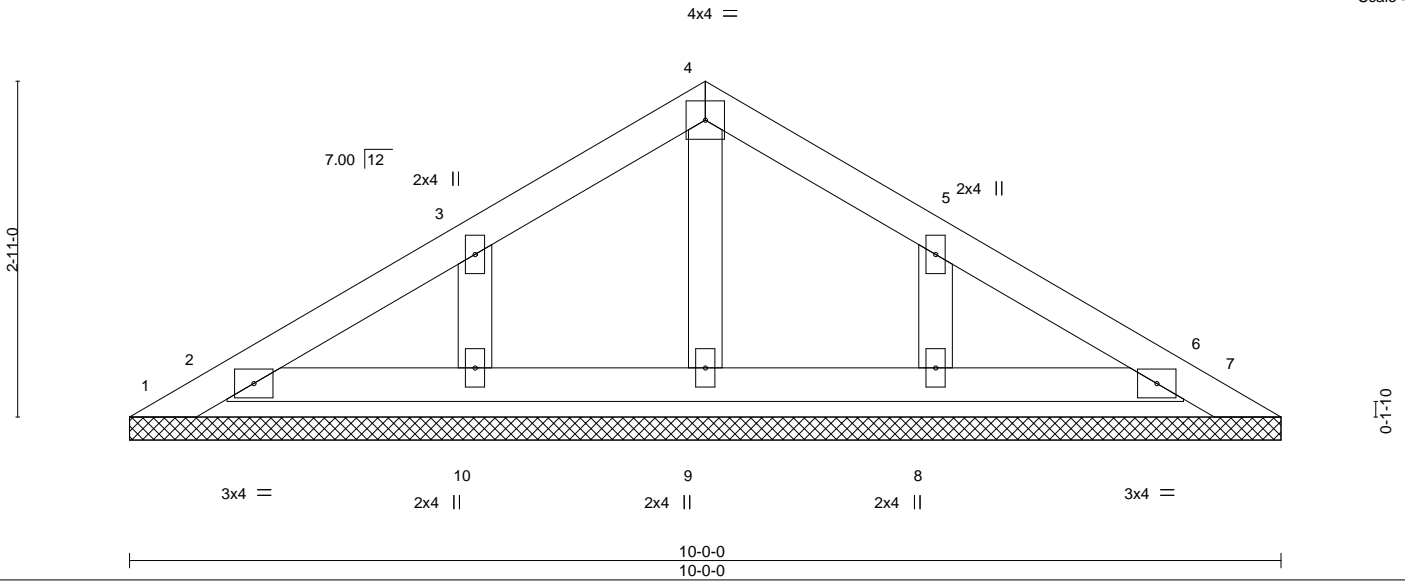
Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888676
J0920-4348	PB1GE	GABLE	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:50 2020 Page 1
 ID:jCmlBXdM3tFyeyc0bSvKQhzuApV-rz_JrPLVuLNEoFGnYksMEn9XOjTYAogDw0kBO8ybPfx



Scale = 1:20.0



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 36 lb	FT = 20%

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

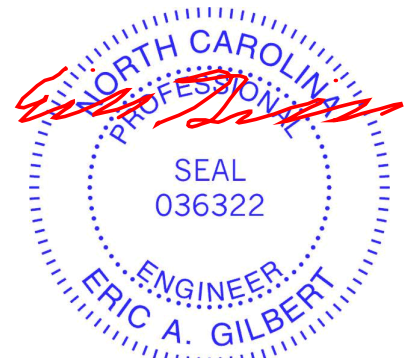
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 10-0-0.
 (lb) - Max Horz 1=-82(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 7, 2, 6, 10, 8
 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-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-3-8 to 4-8-4, Interior(1) 4-8-4 to 5-0-0, Exterior(2R) 5-0-0 to 9-1-13, Interior(1) 9-1-13 to 9-8-8 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) Gable requires continuous bottom chord bearing.
- 5) Gable studs spaced at 2-0-0 oc.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7, 2, 6, 10, 8.
- 9) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 21, 2020

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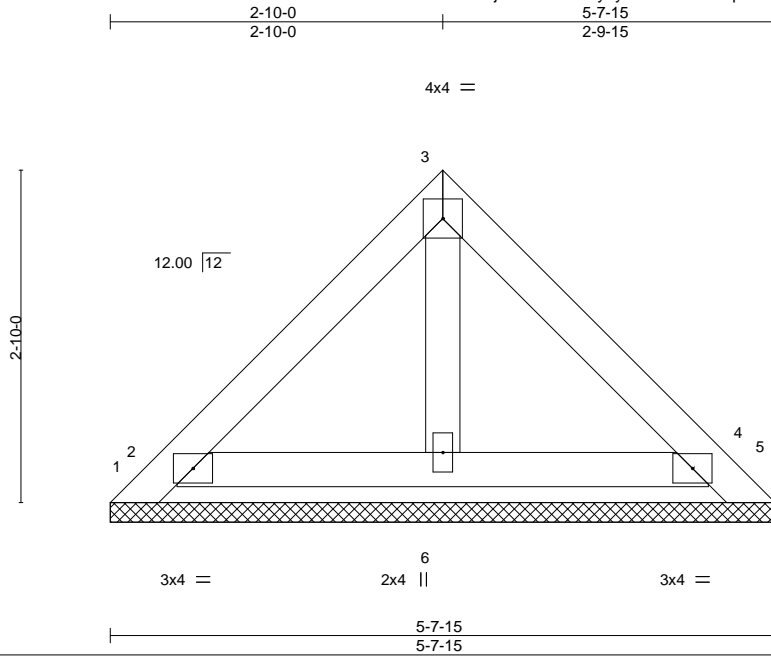


818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888677
J0920-4348	PB3	GABLE	7	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:51 2020 Page 1
 ID:jCmlBXdM3tFyeyc0bSvKQhzuApV-J9Yh2IL7ffV5PPrz6RNbn_ihN7odvFBM9gTlwaybPfw



Scale = 1:19.6

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 0.09	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	4	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 22 lb	FT = 20%

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

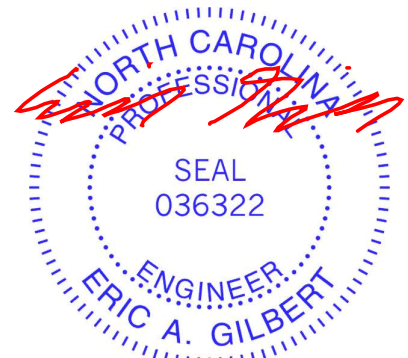
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 5-7-15.
 (lb) - Max Horz 1=-79(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 1=-146(LC 19), 5=-101(LC 20), 2=-213(LC 12), 4=-181(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 4, 6 except 2=281(LC 19)

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 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.
- Bearing at joint(s) 1, 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 146 lb uplift at joint 1, 101 lb uplift at joint 5, 213 lb uplift at joint 2 and 181 lb uplift at joint 4.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 21, 2020

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888678
J0920-4348	PB3A	PIGGYBACK	1	1		
					Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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ID:jCmIBXdM3tFyeyc0bSvKQhzuApV-olL63G5MIQydy1ZQAf9uqJCFrBX8seiQWOKDIT0ybPfv

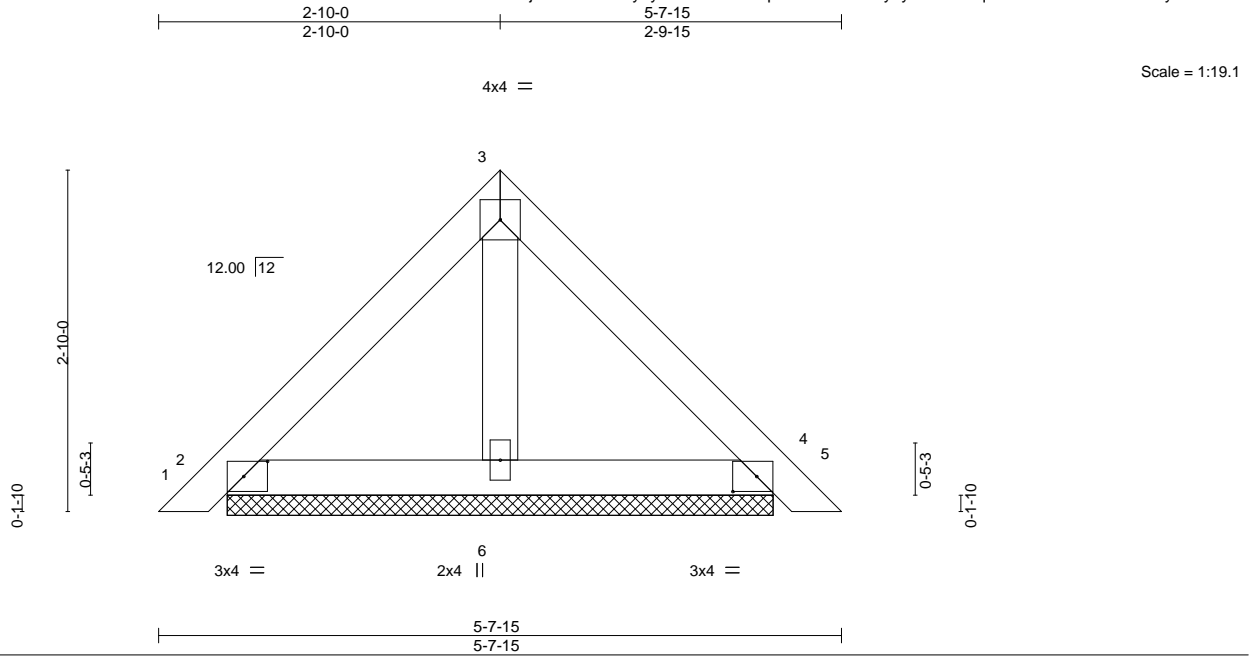


Plate Offsets (X,Y)--	[2-0-2-6,0-1-8], [4-0-2-6,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/def L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.15	Vert(LL) 0.00 5 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.04	Vert(CT) 0.00 5 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 22 lb	FT = 20%

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

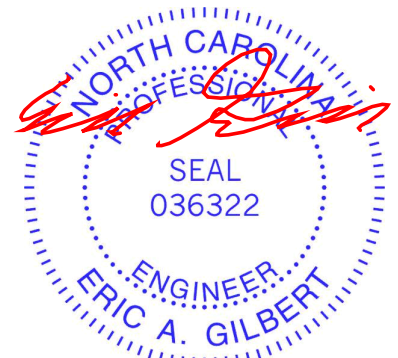
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=4-6-5, 4=4-6-5, 6=4-6-5
 Max Horz 2=-63(LC 10)
 Max Uplift 2=-22(LC 13), 4=-26(LC 13)
 Max Grav 2=134(LC 1), 4=134(LC 1), 6=140(LC 3)

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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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 22 lb uplift at joint 2 and 26 lb uplift at joint 4.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



September 21, 2020

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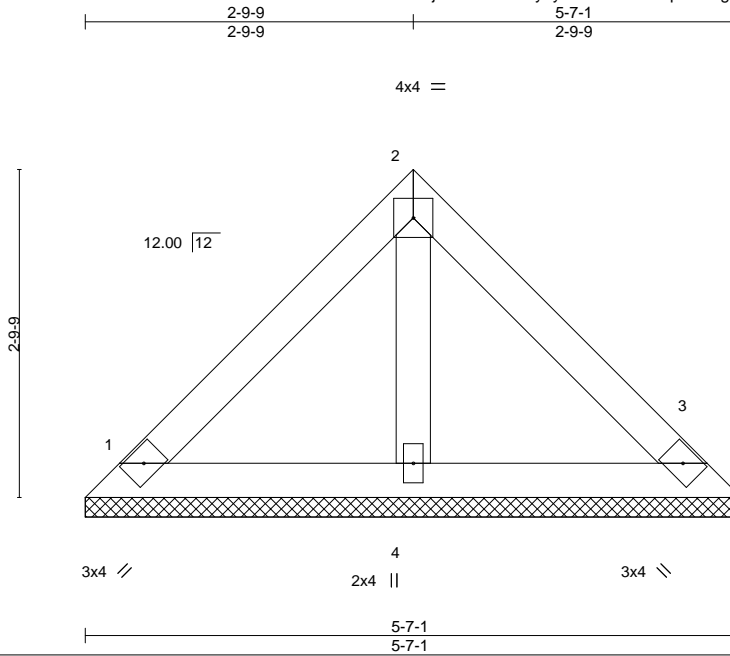
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888679
J0920-4348	PB4	Piggyback	3	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:53 2020 Page 1

ID:jCmIBXdM3tFyeyc0bSvKQhzuApV-GYgRTRNNBGlpfi?MDsP3sPn0gxU?N9dfd_ys?SybPfu



Scale = 1:19.6

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 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 22 lb	FT = 20%

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

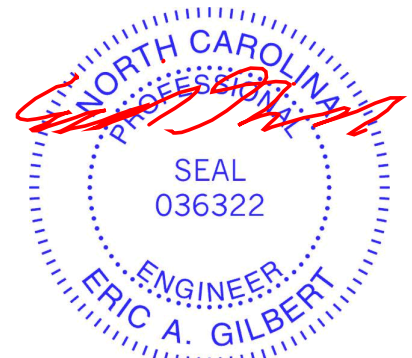
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-7-1 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-7-1, 3=5-7-1, 4=5-7-1
 Max Horz 1=59(LC 9)
 Max Uplift 1=-21(LC 13), 3=-21(LC 13)
 Max Grav 1=119(LC 1), 3=119(LC 1), 4=153(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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 21 lb uplift at joint 1 and 21 lb uplift at joint 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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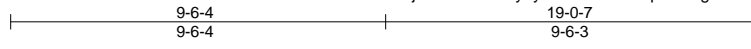
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888680
J0920-4348	VA1	GABLE	1	1	Job Reference (optional)	

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ID:jCmlBXdm3tFyeyc0bSvKQhzuApV-GYgRTRNNBGlpfi?MDsP3sPn1FxUwN9vfd_ys?SybPfu



3x4 =

Scale = 1:58.5

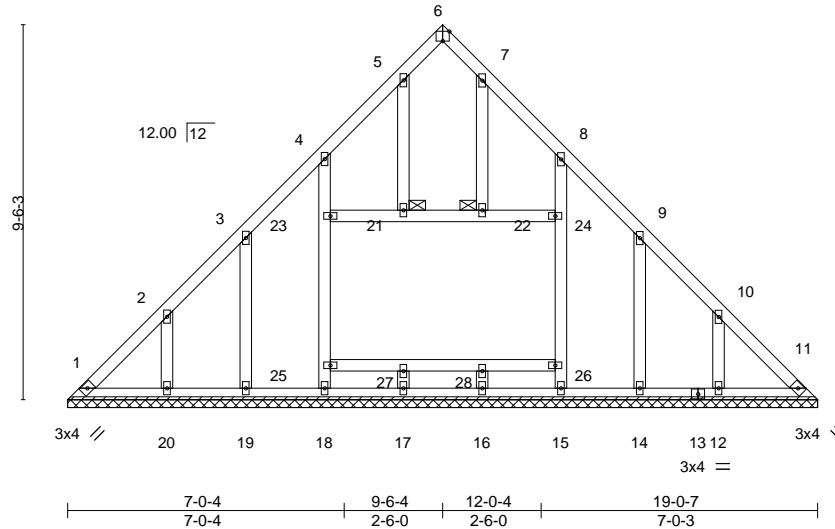


Plate Offsets (X,Y)--	[6:0-2-0,Edge]								
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.07	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.01	11	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						
								Weight: 131 lb	FT = 20%

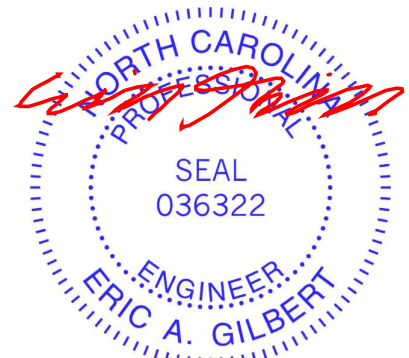
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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.
JOINTS 1 Brace at Jt(s): 21, 22

REACTIONS. All bearings 19-0-7.
(lb) - Max Horz 1=275(LC 9)
Max Uplift All uplift 100 lb or less at joint(s) 1, 11 except 18=182(LC 12), 19=122(LC 12), 20=168(LC 12), 15=177(LC 13), 14=123(LC 13), 12=167(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 19, 20, 15, 14, 12, 17, 16 except 1=265(LC 12), 11=261(LC 13), 18=254(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-405/170, 2-3=-268/109, 9-10=-264/101, 10-11=-399/161
BOT CHORD 1-20=-120/321, 19-20=-120/321, 18-19=-120/321, 17-18=-121/321, 16-17=-121/321, 15-16=-121/321, 14-15=-120/321, 12-14=-120/321, 11-12=-120/321

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; Gable Roof; Common Truss; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-4 to 4-6-4, Interior(1) 4-6-4 to 9-6-4, Exterior(2R) 9-6-4 to 13-11-0, Interior(1) 13-11-0 to 18-8-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 2x4 MT20 unless otherwise indicated.
 - 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, 11 except (jt=lb) 18=182, 19=122, 20=168, 15=177, 14=123, 12=167.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



September 21, 2020

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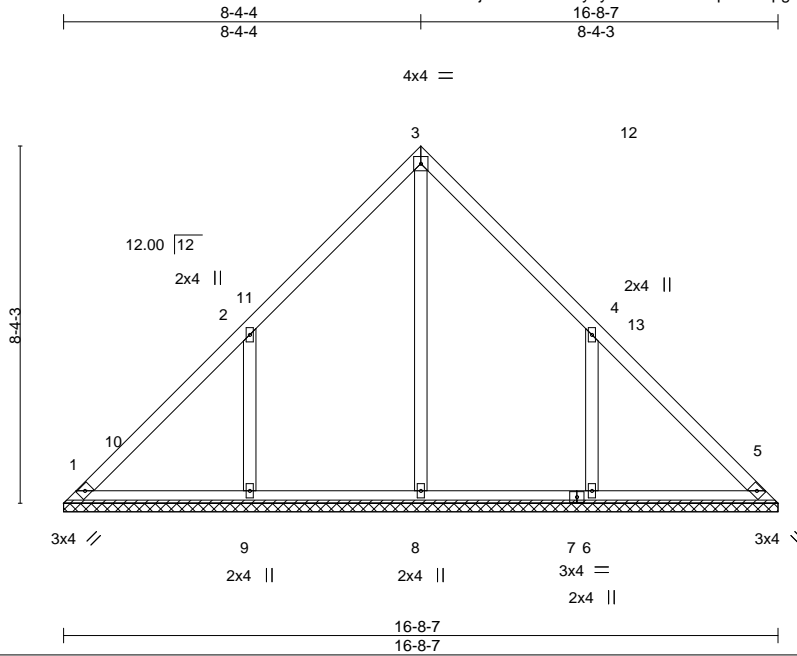


818 Soundside Road
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Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888681
J0920-4348	VA2	GABLE	1	1	Job Reference (optional)	

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8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:54 2020 Page 1
 ID:jCmlBXdm3tFyeyc0bSvKQhzuApV-kkDpgnO?yatgGsZYnZwIPdKAJKol6ajoreiPXvybPft



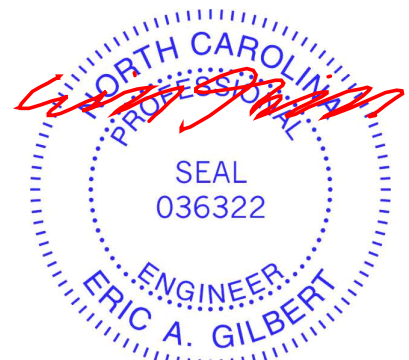
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 81 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 16-8-7.
 (lb) - Max Horz 1=192(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=201(LC 12), 6=200(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=404(LC 22), 9=562(LC 19), 6=562(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-9=-338/345, 4-6=-338/345

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 8-4-4, Exterior(2R) 8-4-4 to 12-9-0, Interior(1) 12-9-0 to 16-4-3 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, with BC DL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=201, 6=200.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.

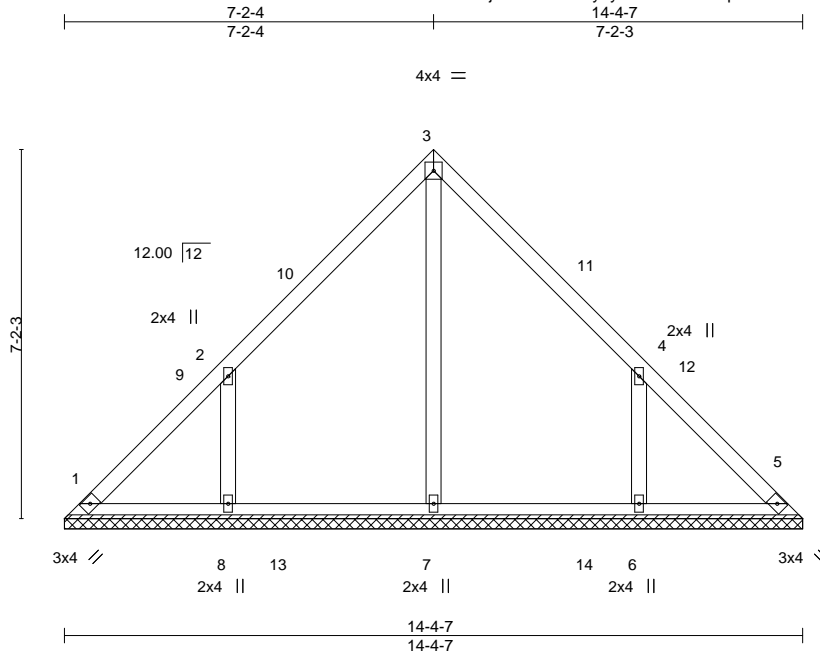


September 21, 2020

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888682
J0920-4348	VA3	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:55 2020 Page 1
 ID:jCmlBXdm3tFyeyc0bSvKQhzuApV-CwnCu7Odtj?Xu08LHRXxqtLTk8Tr2dy4IRy3LybPfs



Scale = 1:44.8

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 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S						Weight: 68 lb	FT = 20%

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

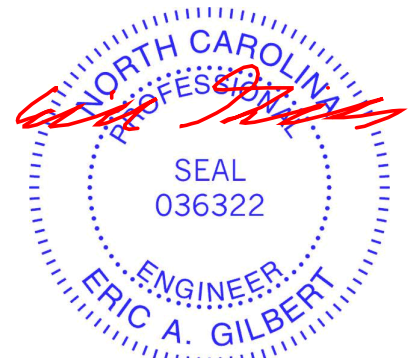
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 14-4-7.
 (lb) - Max Horz 1=-164(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=-173(LC 12), 6=-173(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=403(LC 22), 8=460(LC 19), 6=460(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-302/349, 4-6=-302/349

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-2-4, Exterior(2R) 7-2-4 to 11-7-0, Interior(1) 11-7-0 to 14-0-3 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, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5 except (jt=lb) 8=173, 6=173.
- This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



September 21, 2020

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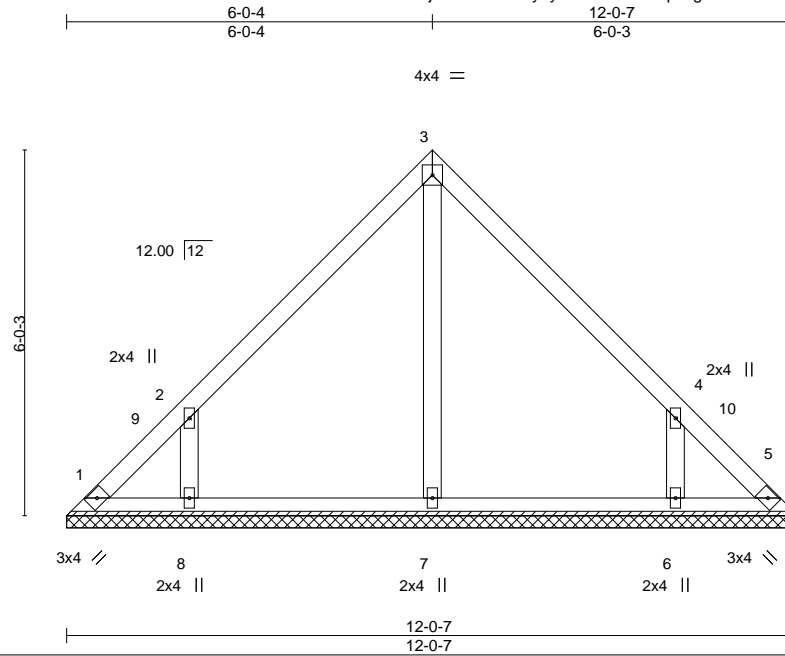
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888683
J0920-4348	VA4	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

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ID:jCmlBXdM3tFyeyc0bSvKQhzuApV-g7La5SPFUB7OWAjxu_zmU1PwV8V_aVP5JyBWcnybPfr



Scale = 1:37.9

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.17	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 54 lb	FT = 20%

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

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

REACTIONS. All bearings 12-0-7.
 (lb) - Max Horz 1=136(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=160(LC 12), 6=160(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=338(LC 19), 6=338(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-299/393, 4-6=-299/393

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-0-4, Exterior(2R) 6-0-4 to 10-5-0, Interior(1) 10-5-0 to 11-8-3 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, 5 except (jt=lb) 8=160, 6=160.
 - This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



September 21, 2020

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888684
J0920-4348	VA5	GABLE	1	1	Job Reference (optional)	

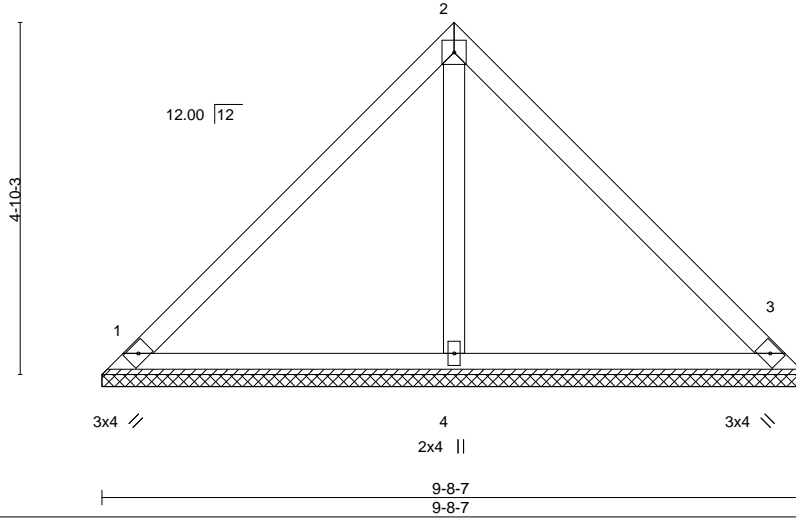
Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:57 2020 Page 1
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4x4 =

Scale: 3/8"=1'



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.15	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-S					Weight: 40 lb	FT = 20%

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

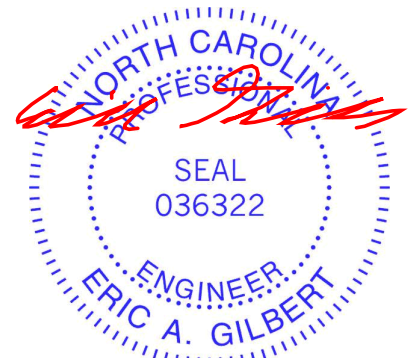
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=9-8-7, 3=9-8-7, 4=9-8-7
 Max Horz 1=-108(LC 8)
 Max Uplift 1=-27(LC 13), 3=-27(LC 13)
 Max Grav 1=204(LC 1), 3=204(LC 1), 4=312(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



September 21, 2020

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818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888685
J0920-4348	VA6	VALLEY	1	1	Job Reference (optional)	

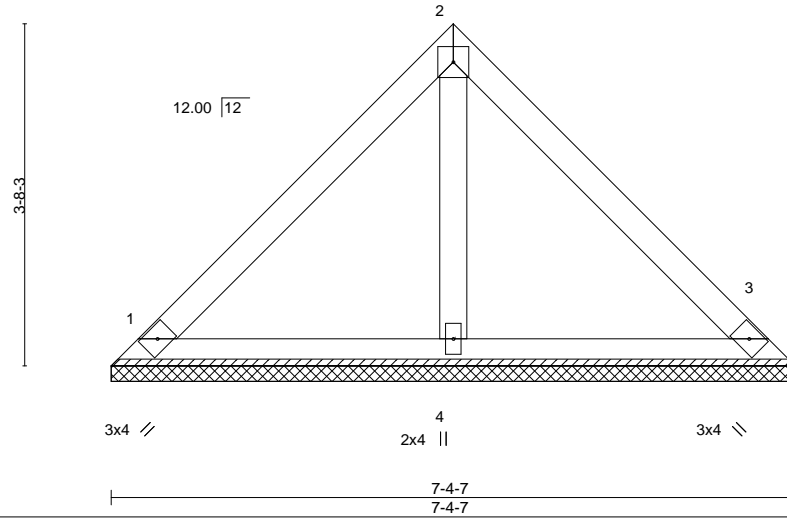
Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:57 2020 Page 1
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4x4 =

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 0.29	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 30 lb	FT = 20%

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

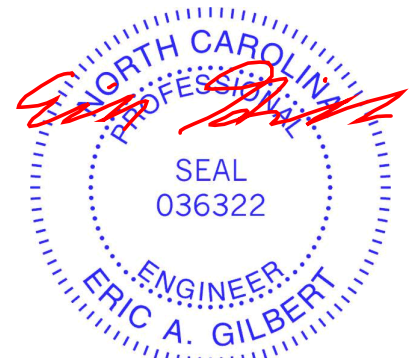
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=7-4-7, 3=7-4-7, 4=7-4-7
 Max Horz 1=80(LC 9)
 Max Uplift 1=-29(LC 13), 3=-29(LC 13)
 Max Grav 1=162(LC 1), 3=162(LC 1), 4=209(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



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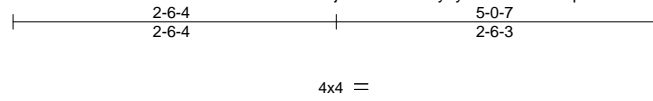
818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Chris Foisy Residence	E14888686
J0920-4348	VA7	VALLEY	1	1	Job Reference (optional)	

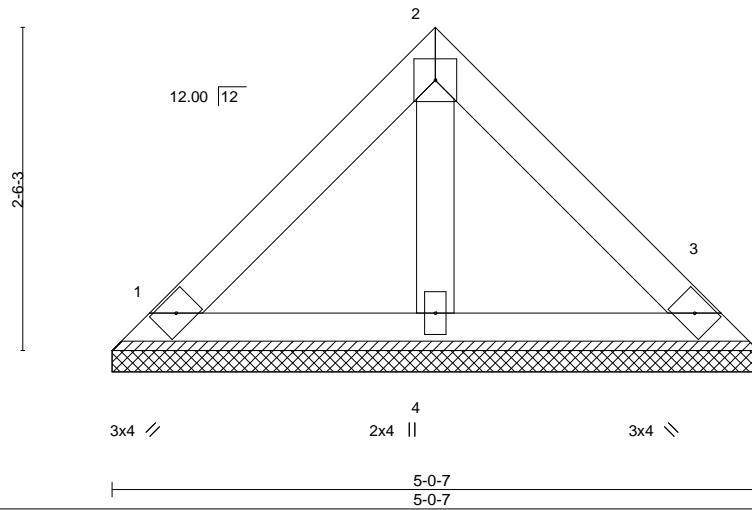
Comtech, Inc. Fayetteville, NC - 28314,

8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:58 2020 Page 1

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Scale = 1:18.0



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 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.01	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2018/TPI2014		Matrix-P					Weight: 20 lb	FT = 20%

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

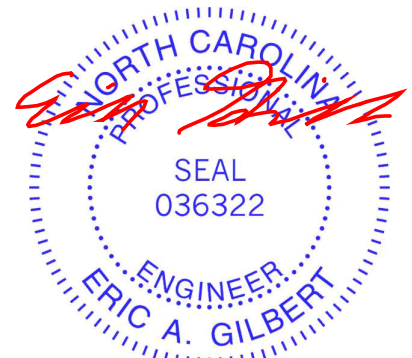
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-0-7 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-0-7, 3=5-0-7, 4=5-0-7
 Max Horz 1=52(LC 9)
 Max Uplift 1=-19(LC 13), 3=-19(LC 13)
 Max Grav 1=106(LC 1), 3=106(LC 1), 4=136(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



September 21, 2020

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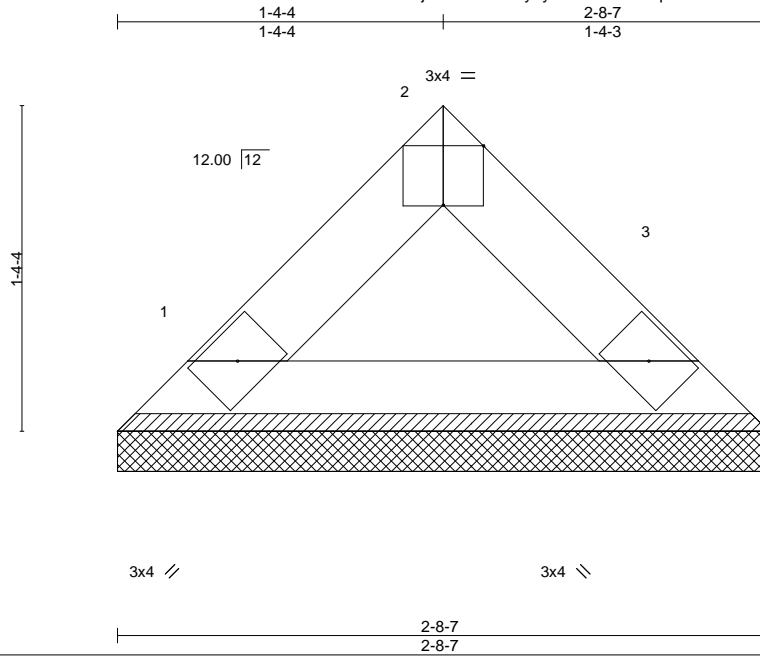
818 Soundside Road
 Edenton, NC 27932

Job J0920-4348	Truss VA8	Truss Type VALLEY	Qty 1	Ply 1	Chris Foisy Residence E14888687
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8.330 s Jul 22 2020 MiTek Industries, Inc. Mon Sep 21 12:16:58 2020 Page 1

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Scale = 1:9.6

Plate Offsets (X,Y)--	[2:0-2-0,Edge]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.03	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 0.00	Horz(CT) 0.00 3 n/a n/a		
BCDL 10.0	Code IRC2018/TPI2014	Matrix-P		Weight: 8 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-8-7 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=2-8-7, 3=2-8-7
Max Horz 1=24(LC 8)
Max Uplift 1=3(LC 12), 3=3(LC 12)
Max Grav 1=80(LC 1), 3=80(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 7-16; Vult=130mph (3-second gust) Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2E) 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) 1, 3.
- 7) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



September 21, 2020

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

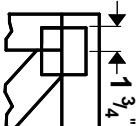
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



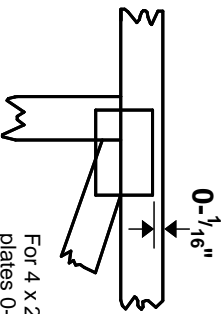
818 Soundside Road
Edenton, NC 27932

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

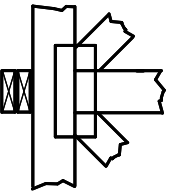
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



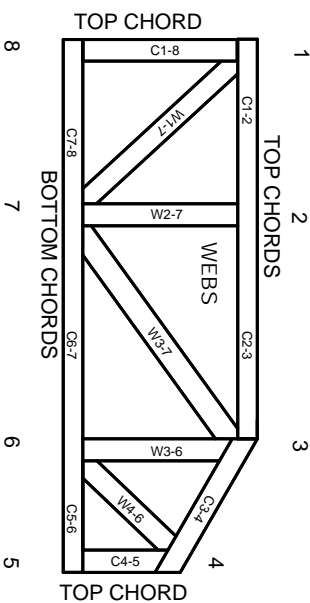
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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



General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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