

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: J0723-3546
Lot 155 Crossing @ Anderson Creek

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: I59586123 thru I59586139

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

North Carolina COA: C-0844



July 19, 2023

Gilbert, Eric

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

Job	Truss	Truss Type	Qty	Ply	Lot 155 Crossing @ Anderson Creek	I59586123
J0723-3546	A1	ROOF SPECIAL	6	1		
					Job Reference (optional)	

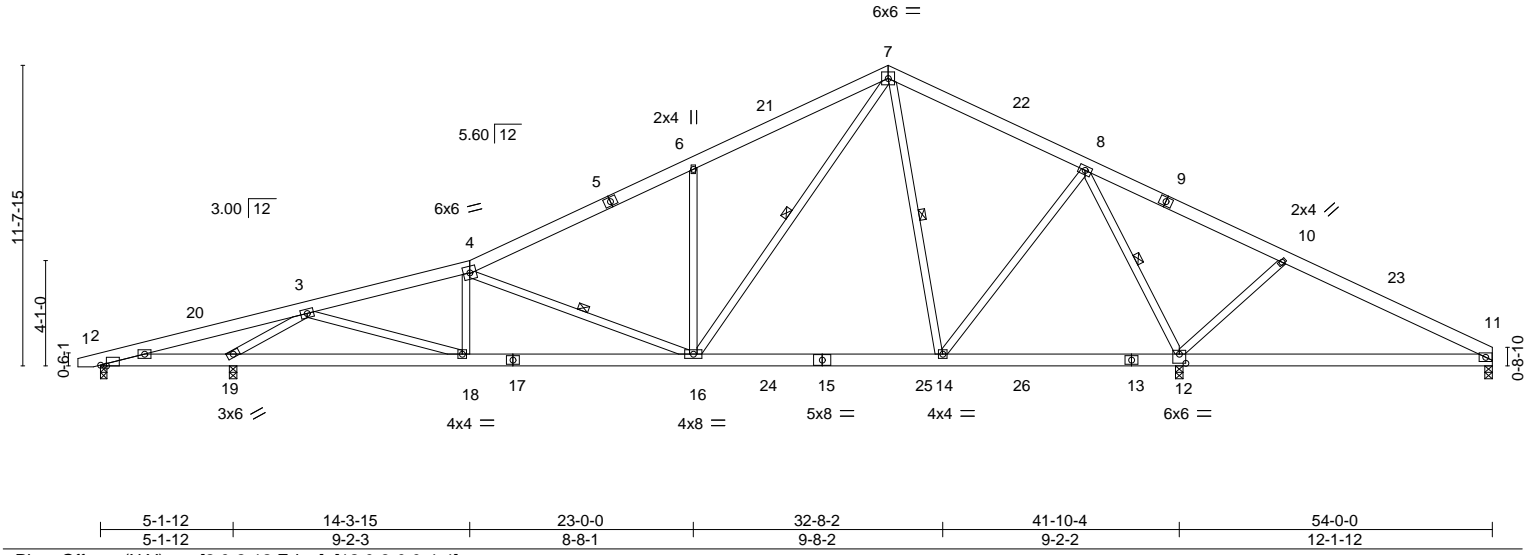
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:12 2023 Page 1

ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

0-10-8	8-0-3	14-3-15	23-0-0	30-6-11	38-2-6	45-10-1	54-0-0
0-10-8	8-0-3	6-3-11	8-8-1	7-6-11	7-7-11	7-7-11	8-1-15

Scale = 1:89.4



5-1-12	14-3-15	23-0-0	32-8-2	41-10-4	54-0-0
5-1-12	9-2-3	8-8-1	9-8-2	9-2-2	12-1-12
Plate Offsets (X,Y)-- [2:0-2-12,Edge], [12:0-3-0,0-4-4]					
LOADING (psf)	SPACING-	CSI.	DEFL.		PLATES
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d		MT20
TCDL 10.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.18 14-16 >999 360		GRIP 244/190
BCLL 0.0 *	Lumber DOL 1.15	WB 0.72	Vert(CT) -0.28 14-16 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.04 12 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.10 16-18 >999 240		Weight: 379 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-9-14 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 4-16, 7-16, 7-14, 8-12

REACTIONS. All bearings 0-3-8 except (jt=length) 2=0-3-0.
 (lb) - Max Horz 2=152(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=157(LC 17), 12=262(LC 11), 11=106(LC 23), 19=291(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 2, 11 except 12=2656(LC 2), 19=1858(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-315/1084, 3-4=-2478/710, 4-6=-1890/592, 6-7=-1902/789, 7-8=-1018/448, 8-10=-166/889, 10-11=-99/598
 BOT CHORD 2-19=989/367, 18-19=-439/1485, 16-18=-529/2369, 14-16=0/918, 12-14=0/260, 11-12=-492/160
 WEBS 3-19=-2942/958, 3-18=-89/1027, 4-16=-932/293, 6-16=-563/375, 7-16=-483/1349, 7-14=-525/196, 8-14=-127/1046, 8-12=-2178/659, 10-12=-533/341

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-15 to 3-9-14, Interior(1) 3-9-14 to 26-1-14, Exterior(2) 26-1-14 to 34-11-8, Interior(1) 34-11-8 to 49-5-7, Exterior(2) 49-5-7 to 53-10-4 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - All plates are 4x6 MT20 unless otherwise indicated.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf 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 157 lb uplift at joint 2, 262 lb uplift at joint 12, 106 lb uplift at joint 11 and 291 lb uplift at joint 19.

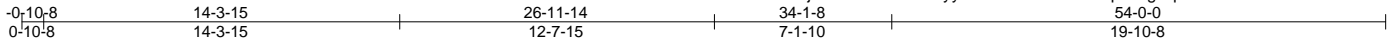


Job J0723-3546	Truss A1GE	Truss Type GABLE	Qty 1	Ply 1	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	I59586124
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:14 2023 Page 1

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Scale = 1:92.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.14	Horz(CT)	0.01	29	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 457 lb	FT = 20%

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

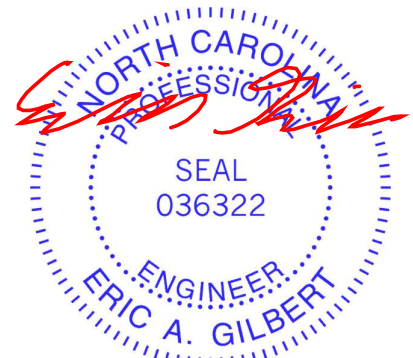
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 14-45, 15-44, 16-42, 17-41, 18-40, 19-39, 20-38
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS. All bearings 54-0-0.
 (lb) - Max Horz 2=257(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 55, 54, 53, 52, 51, 49, 48, 47, 46, 45, 44, 42, 40, 39, 38, 37, 35, 34, 33, 32, 31 except 56=155(LC 10), 30=160(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 2, 55, 54, 53, 52, 51, 49, 48, 47, 46, 45, 44, 42, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, 29 except 56=369(LC 21), 30=277(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-301/100, 12-13=-89/259, 13-14=-110/315, 14-15=-131/376, 15-16=-154/466, 16-17=-165/533, 17-18=-165/533, 18-19=-154/466, 19-20=-131/377, 20-21=-110/315, 21-22=-89/257
 WEBS 3-56=-261/296, 28-30=-197/331

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-6-15 to 3-9-14, Exterior(2) 3-9-14 to 26-1-14, Corner(3) 26-1-14 to 34-11-8, Exterior(2) 34-11-8 to 49-7-3, Corner(3) 49-7-3 to 54-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 40.0psf 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) 2, 55, 54, 53, 52, 51, 49, 48, 47, 46, 45, 44, 42, 40, 39, 38, 37, 35, 34, 33, 32, 31 except (jt=lb) 56=155, 30=160.
- 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



July 19, 2023

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 ANSITPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



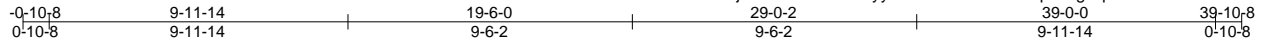
818 Soundside Road
 Edenton, NC 27932

Job J0723-3546	Truss B1	Truss Type COMMON TRUSS	Qty 8	Ply 1	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	I59586125
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Comtech, Inc. Fayetteville, NC - 28314,

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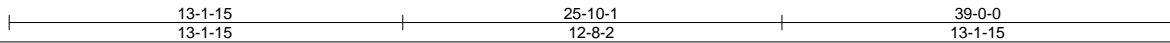
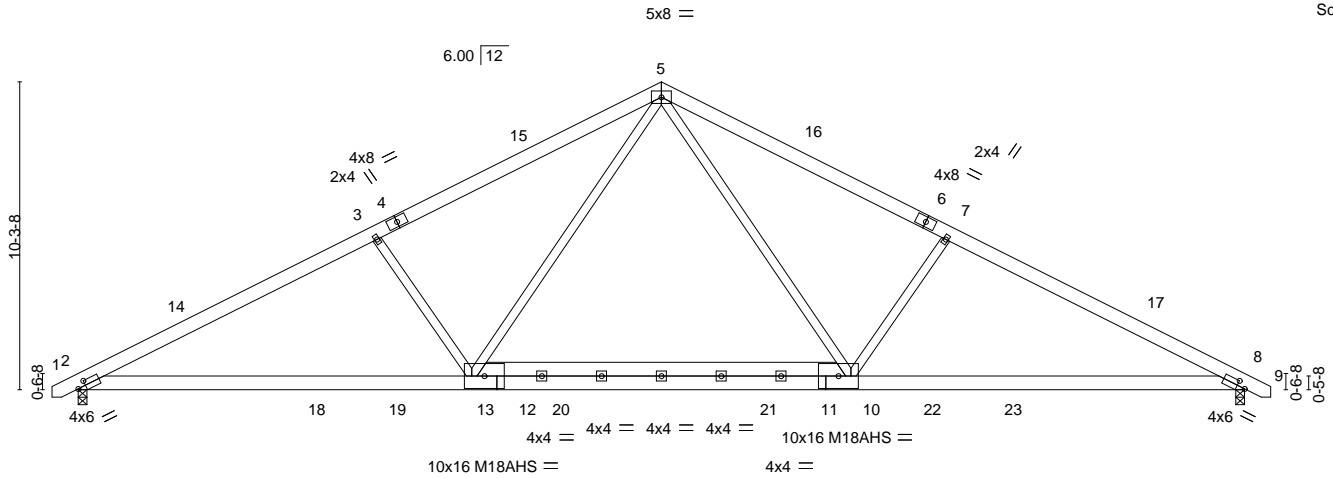


Plate Offsets (X,Y)--	[2:0-3-4,0-2-0], [8:0-3-4,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.20 10-13 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.94	Vert(CT) -0.44 8-10 >999 240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr NO	WB 0.59	Horz(CT) 0.09 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09 2-13 >999 240	Weight: 277 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-9-5 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 9-8-3 oc bracing.

REACTIONS. (size) 2=0-3-8, 8=0-3-8
 Max Horz 2=-147(LC 8)
 Max Uplift 2=-210(LC 10), 8=-210(LC 11)
 Max Grav 2=1768(LC 2), 8=1768(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3240/915, 3-5=-2953/893, 5-7=-2953/893, 7-8=-3240/915
 BOT CHORD 2-13=-647/2887, 10-13=-267/1887, 8-10=-647/2830
 WEBS 5-10=-247/1280, 7-10=-599/409, 5-13=-247/1282, 3-13=-599/409

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 15-1-3, Exterior(2) 15-1-3 to 23-10-13, Interior(1) 23-10-13 to 35-3-13, Exterior(2) 35-3-13 to 39-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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 40.0psf 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) 2=210, 8=210.



July 19, 2023

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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
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

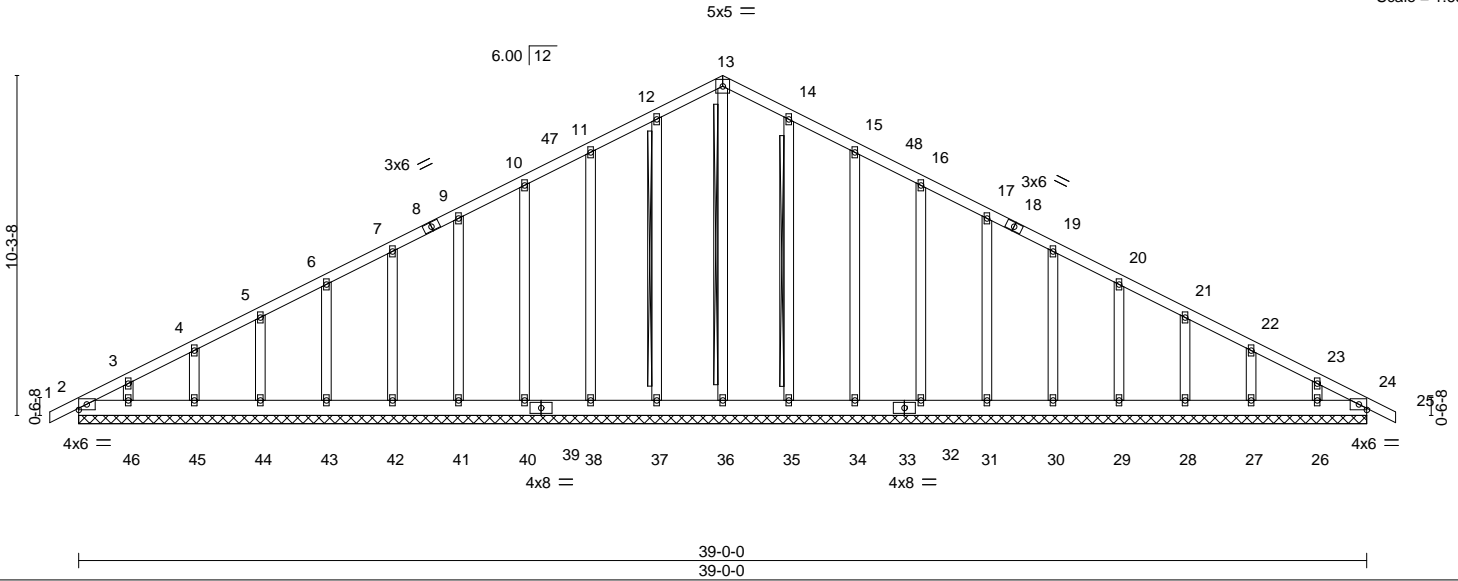
Job J0723-3546	Truss B1GE	Truss Type GABLE	Qty 1	Ply 1	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	I59586126
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:18 2023 Page 1
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-0-10-8 0-10-8	16-1-15 16-1-15	22-10-1 6-8-2	39-0-0 16-1-15	39-10-8 0-10-8
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Scale = 1:69.8



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 0.09	Vert(LL)	-0.00	24	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	-0.00	25	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	24	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 296 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 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.
 WEBS T-Brace: 2x4 SPF No.2 - 13-36, 12-37, 14-35
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS. All bearings 39-0-0.
 (lb) - Max Horz 2--229(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 37, 38, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27, 24, 26 except 46--100(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 2, 36, 37, 38, 40, 41, 42, 43, 44, 45, 46, 35, 34, 32, 31, 30, 29, 28, 27, 24, 26

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3--330/87, 3-4--263/85, 10-11--92/255, 11-12--115/349, 12-13--136/446, 13-14--136/446, 14-15--115/349, 15-16--92/255, 23-24--266/86
 BOT CHORD 2-46--71/295, 45-46--71/295, 44-45--71/295, 43-44--71/295, 42-43--71/295, 41-42--71/295, 40-41--71/295, 38-40--71/295, 37-38--71/295, 36-37--71/295, 35-36--71/295, 34-35--71/295, 32-34--71/295, 31-32--71/295, 30-31--71/295, 29-30--71/295, 28-29--71/295, 27-28--71/295, 26-27--71/295, 24-26--71/295

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-10-8 to 3-6-0, Exterior(2) 3-6-0 to 15-1-3, Corner(3) 15-1-3 to 23-10-13, Exterior(2) 23-10-13 to 35-5-11, Corner(3) 35-5-11 to 39-10-8 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.
 - 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 37, 38, 40, 41, 42, 43, 44, 45, 35, 34, 32, 31, 30, 29, 28, 27, 24, 26 except (jt=lb) 46=100.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



July 19, 2023

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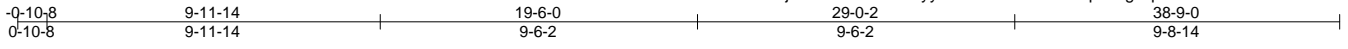
818 Soundside Road
 Edenton, NC 27932

Job J0723-3546	Truss B2	Truss Type COMMON TRUSS	Qty 6	Ply 1	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	I59586127
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Comtech, Inc. Fayetteville, NC - 28314,

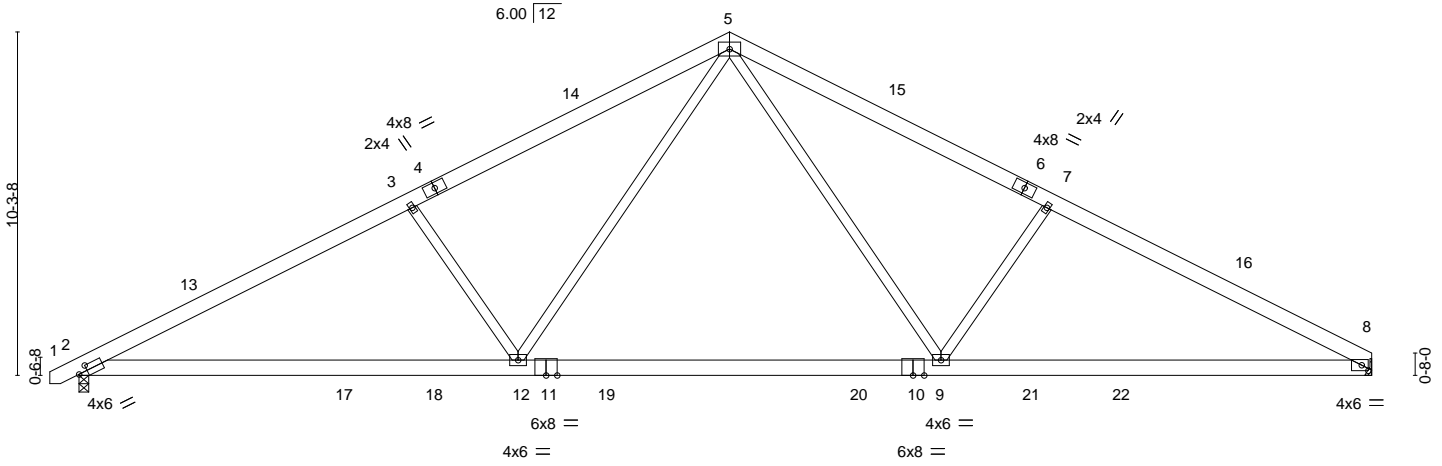
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5x8 =

Scale = 1:69.1



13-1-15	25-10-1	38-9-0
13-1-15	12-8-2	12-10-15

Plate Offsets (X, Y)-- [2:0-3-4,0-2-0], [8:0-2-6,0-2-0]						
LOADING (psf)	SPACING-	CSI.	DEFL.		PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.56	in (loc) l/defl L/d		MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.98	Vert(LL) -0.50 9-12 >923 360			
BCLL 0.0 *	Lumber DOL 1.15	WB 0.61	Vert(CT) -0.63 9-12 >736 240			
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.09 8 n/a n/a			
	Code IRC2015/TPI2014		Wind(LL) 0.09 2-12 >999 240		Weight: 245 lb	FT = 20%

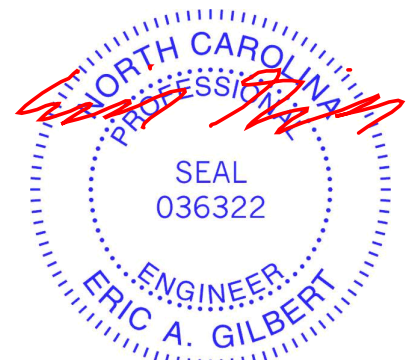
LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-9-15 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-8-3 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 2=0-3-8, 8=Mechanical
 Max Horz 2=148(LC 9)
 Max Uplift 2=-210(LC 10), 8=-193(LC 11)
 Max Grav 2=1778(LC 2), 8=1738(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-3182/891, 3-5=-2928/896, 5-7=-2907/900, 7-8=-3154/894
 BOT CHORD 2-12=-644/2823, 9-12=-284/1843, 8-9=-650/2735
 WEBS 5-9=-256/1255, 7-9=-571/412, 5-12=-251/1290, 3-12=-594/405

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 15-1-3, Exterior(2) 15-1-3 to 23-10-13, Interior(1) 23-10-13 to 34-2-15, Exterior(2) 34-2-15 to 38-7-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=210, 8=193.



July 19, 2023

Job	Truss	Truss Type	Qty	Ply	Lot 155 Crossing @ Anderson Creek	I59586128
J0723-3546	B2GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

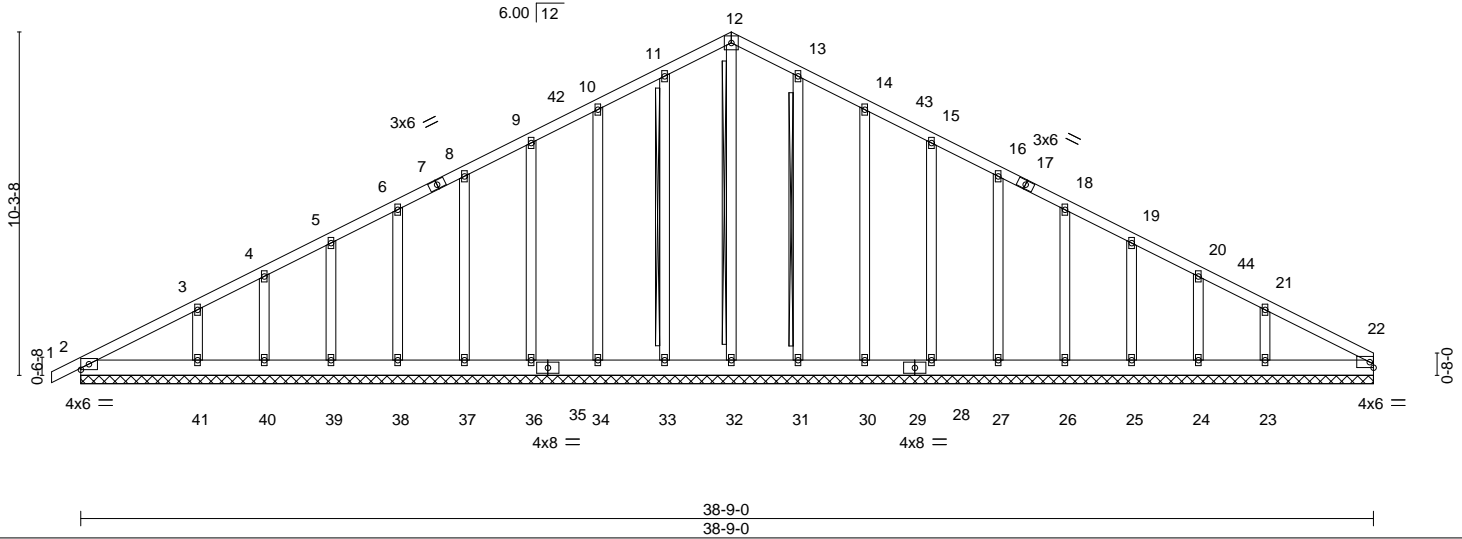
8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:21 2023 Page 1

ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f



5x5 =

Scale = 1:69.1



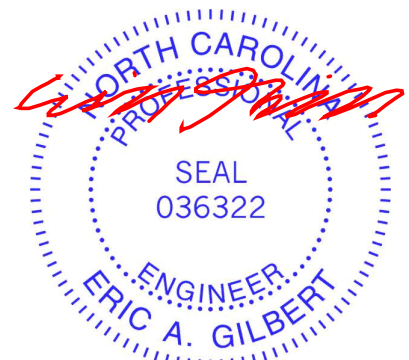
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.11	Vert(LL)	-0.00	1	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	0.00	1	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.13	Horz(CT)	0.01	22	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 292 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 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 12-32, 11-33, 13-31
	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
	Brace must cover 90% of web length.

REACTIONS. All bearings 38-9-0.
 (lb) - Max Horz 2=236(LC 10)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 33, 34, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24 except 41=160(LC 10), 23=167(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 2, 32, 33, 34, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24, 22 except 41=272(LC 21), 23=265(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-299/92, 9-10=-93/253, 10-11=-116/346, 11-12=-137/443, 12-13=-137/443, 13-14=-116/346, 14-15=-93/253
 BOT CHORD 2-41=-73/286, 40-41=-73/286, 39-40=-73/286, 38-39=-73/286, 37-38=-73/286, 36-37=-73/286, 34-36=-73/286, 33-34=-73/286, 32-33=-73/286, 31-32=-73/286, 30-31=-73/286, 28-30=-73/286, 27-28=-73/286, 26-27=-73/286, 25-26=-73/286, 24-25=-73/286, 23-24=-73/286, 22-23=-73/286
 WEBS 3-41=-182/279, 21-23=-183/334

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-10-8 to 3-6-0, Exterior(2) 3-6-0 to 15-1-3, Corner(3) 15-1-3 to 23-10-13, Exterior(2) 23-10-13 to 34-4-3, Corner(3) 34-4-3 to 38-9-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 33, 34, 36, 37, 38, 39, 40, 31, 30, 28, 27, 26, 25, 24 except (jt=lb) 41=160, 23=167.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



July 19, 2023

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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/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

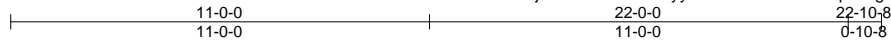
ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0723-3546	Truss C1	Truss Type COMMON TRUSS	Qty 1	Ply 1	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	159586129
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:22 2023 Page 1

ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



4x6 =

Scale = 1:60.5

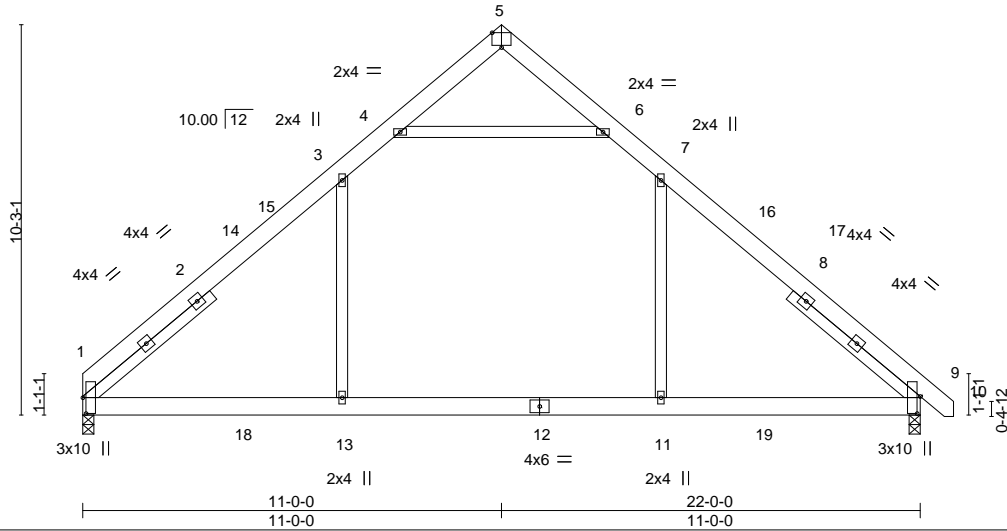


Plate Offsets (X,Y)-- [1:0-5-0,0-1-0], [5:0-3-0,Edge], [9:0-5-6,0-1-0]

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 0.40	Vert(LL)	-0.15 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.19 11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.02 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.14 1-13	>999	240	Weight: 161 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 4-4-5, Right 2x4 SP No.2 4-4-5

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

REACTIONS. (size) 1=0-3-8, 9=0-3-8
 Max Horz 1=-261(LC 6)
 Max Uplift 1=-92(LC 10), 9=-105(LC 11)
 Max Grav 1=1216(LC 17), 9=1260(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-1623/336, 3-4=-968/396, 6-7=-968/396, 7-9=-1626/349
 BOT CHORD 1-13=-69/1118, 11-13=-69/1118, 9-11=-69/1118
 WEBS 3-13=-12/728, 7-11=-12/729, 4-6=-1196/554

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 4-9-5, Exterior(2) 4-9-5 to 17-2-11, Interior(1) 17-2-11 to 18-4-4, Exterior(2) 18-4-4 to 22-9-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=1b) 9=105.



July 19, 2023

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Job	Truss	Truss Type	Qty	Ply	Lot 155 Crossing @ Anderson Creek	159586130
J0723-3546	C1GE	GABLE	1	1	Job Reference (optional)	

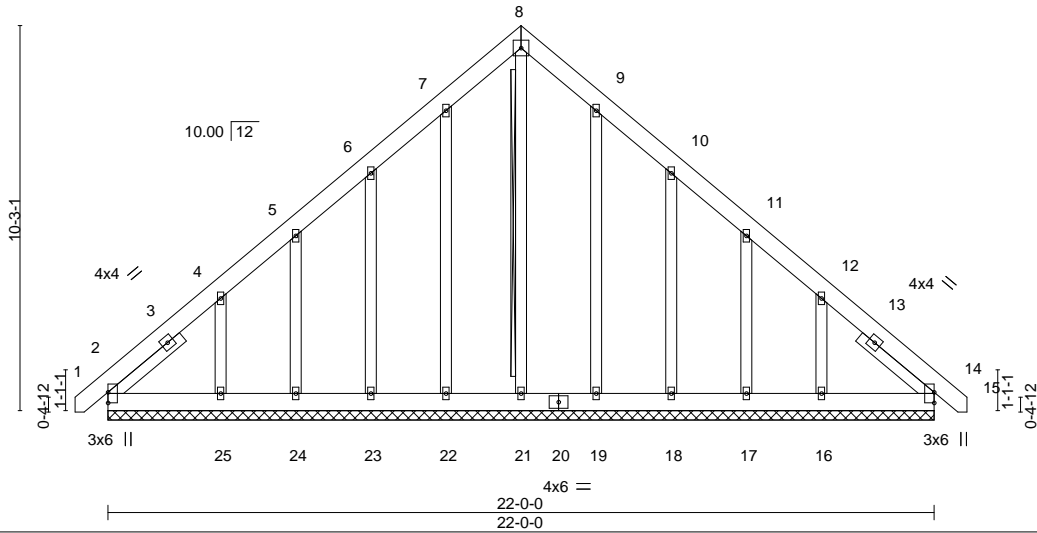
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:23 2023 Page 1
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5x5 =

Scale = 1:61.4



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.06	Vert(LL)	0.00	14	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.04	Vert(CT)	0.00	14	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.01	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 207 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 2-6-0, Right 2x4 SP No.2 2-6-0

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.
 WEBS T-Brace: 2x4 SPF No.2 - 8-21
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS.

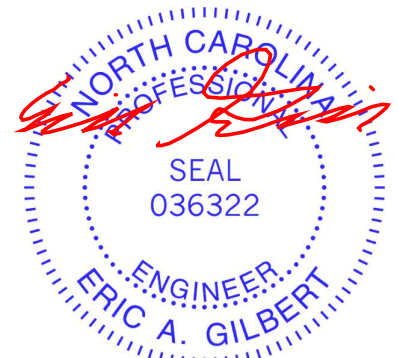
All bearings 22-0-0.
 (lb) - Max Horz 2=327(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 22, 19, 14 except 23=151(LC 10), 24=101(LC 10), 25=270(LC 10), 18=153(LC 11), 17=104(LC 11), 16=259(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 21, 22, 23, 24, 19, 18, 17, 14 except 2=267(LC 18), 25=300(LC 17), 16=287(LC 18)

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

TOP CHORD 2-4=-353/247, 7-8=-248/261, 8-9=-248/261, 12-14=-292/168
 BOT CHORD 2-25=-165/281, 24-25=-165/281, 23-24=-165/281, 22-23=-165/281, 21-22=-165/281, 19-21=-165/281, 18-19=-165/281, 17-18=-165/281, 16-17=-165/281, 14-16=-165/281
 WEBS 4-25=-284/274, 12-16=-284/264

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-9-1 to 3-7-12, Exterior(2) 3-7-12 to 6-7-3, Corner(3) 6-7-3 to 15-4-13, Exterior(2) 15-4-13 to 18-4-4, Corner(3) 18-4-4 to 22-9-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 22, 19, 14 except (jt=lb) 23=151, 24=101, 25=270, 18=153, 17=104, 16=259.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



July 19, 2023

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

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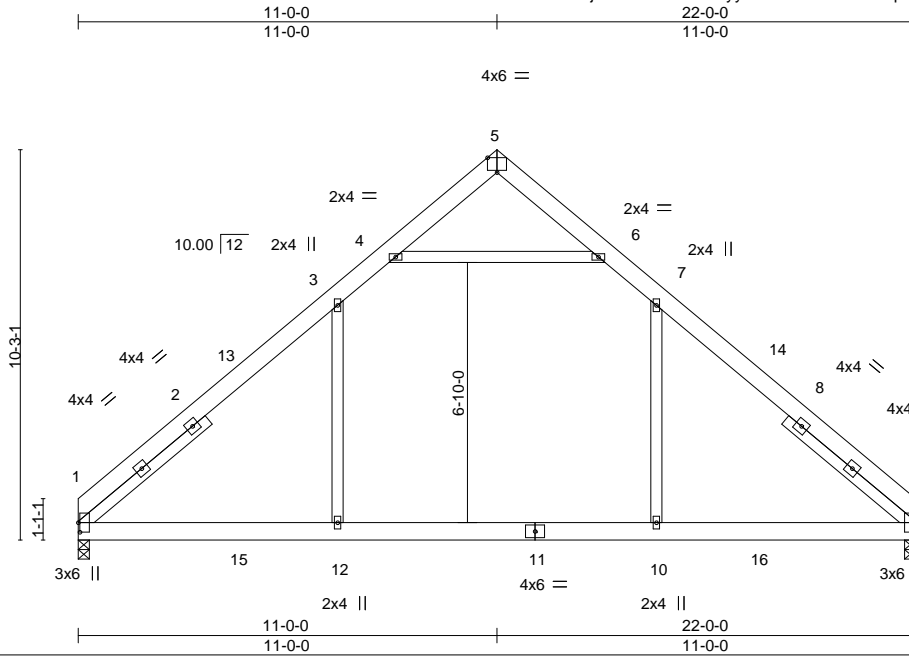


818 Soundside Road
 Edenton, NC 27932

Job J0723-3546	Truss C2	Truss Type COMMON TRUSS	Qty 5	Ply 1	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	159586131
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:25 2023 Page 1
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Scale = 1:60.5

Plate Offsets (X,Y)-- [1:0-3-0,0-0-8], [5:0-3-0,Edge], [9:0-3-6,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) -0.15 10-12 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.66	Vert(CT) -0.19 10-12 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 9 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.14 1-12 >999 240	Weight: 159 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2
SLIDER Left 2x4 SP No.2 4-4-5, Right 2x4 SP No.2 4-4-5

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

REACTIONS. (size) 1=0-3-8, 9=0-3-8
Max Horz 1=-260(LC 6)
Max Uplift 1=-92(LC 10), 9=-92(LC 11)
Max Grav 1=1216(LC 17), 9=1216(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1625/327, 3-4=-969/379, 6-7=-969/379, 7-9=-1625/327
BOT CHORD 1-12=-61/1118, 10-12=-61/1118, 9-10=-61/1118
WEBS 3-12=-12/728, 7-10=-12/728, 4-6=-1199/524

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 6-7-3, Exterior(2) 6-7-3 to 15-2-4, Interior(1) 15-2-4 to 17-7-3, Exterior(2) 17-7-3 to 22-0-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 9.



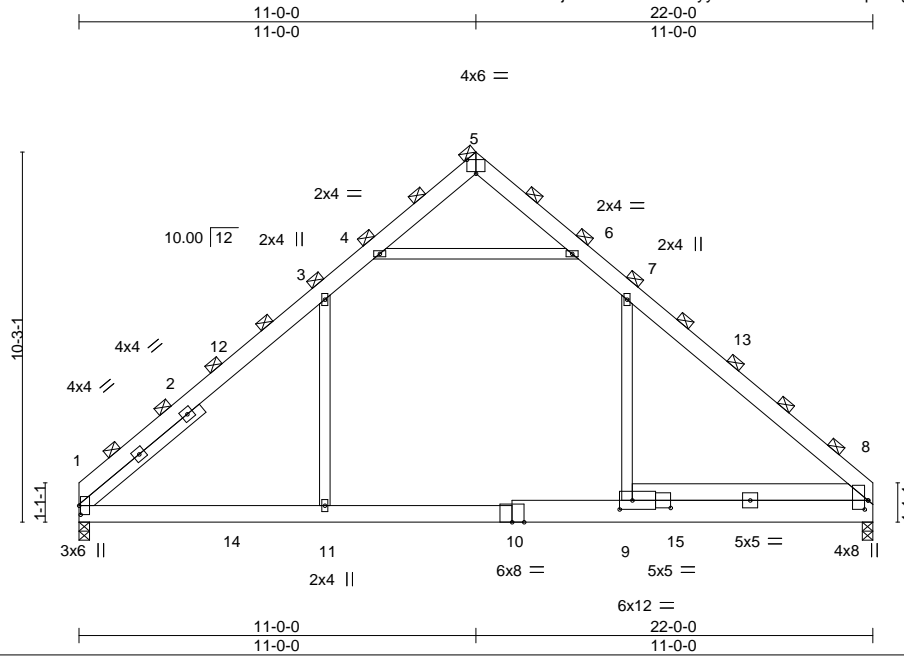
July 19, 2023

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-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>818 Soundside Road Edenton, NC 27932</p>
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Job J0723-3546	Truss C3	Truss Type COMMON TRUSS	Qty 1	Ply 2	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	I59586132
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:26 2023 Page 1
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Scale: 3/16"=1'

Plate Offsets (X, Y)--	[1:0-3-0,0-0-8], [5:0-3-0,Edge], [8:0-3-0,0-1-2], [8:5-5-10,0-2-8], [9:0-4-4,0-3-0]
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LOADING (psf)	SPACING-	3-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.61	Vert(LL)	-0.14	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.74	Vert(CT)	-0.28	9-11	>931		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.28	Horz(CT)	0.02	8	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-S	Wind(LL)	0.23	9	>999	Weight: 350 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD 2-0-0 oc purlins (6-0-0 max.)
BOT CHORD 2x6 SP No.1 *Except* 8-10: 2x8 SP No.1	(Switched from sheeted: Spacing > 2-8-0).
WEBS 2x4 SP No.2	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
SLIDER Left 2x4 SP No.2 4-4-5, Right 2x6 SP No.1 6-6-6	

REACTIONS. (size) 1=0-3-8, 8=0-3-8
 Max Horz 1=389(LC 7)
 Max Uplift 1=294(LC 10), 8=613(LC 11)
 Max Grav 1=1896(LC 2), 8=2946(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-3=-2677/1031, 3-4=-1689/922, 5-6=-167/351, 6-7=-1542/834, 7-8=-2814/1091
 BOT CHORD 1-11=-501/1837, 9-11=-501/1837, 8-9=-501/1837
 WEBS 3-11=-191/995, 7-9=-447/1472, 4-6=-2266/1303

- NOTES-**
- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x8 - 2 rows staggered at 0-6-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - 2) 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.
 - 3) Unbalanced roof live loads have been considered for this design.
 - 4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 6-7-3, Exterior(2) 6-7-3 to 15-2-4, Interior(1) 15-2-4 to 17-5-7, Exterior(2) 17-5-7 to 21-10-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 6) * This truss has been designed for a live load of 40.0psf 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.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=294, 8=613.
 - 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 9) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1552 lb down and 514 lb up at 16-5-8, and 987 lb down and 591 lb up at 16-5-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



July 19, 2023

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenton, NC 27932

Job J0723-3546	Truss C3	Truss Type COMMON TRUSS	Qty 1	Ply 2	Lot 155 Crossing @ Anderson Creek I59586132 Job Reference (optional)
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:26 2023 Page 2
ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-5=-90, 5-8=-90, 1-8=-30
Concentrated Loads (lb)
Vert: 15=-1510(B)

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

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818 Soundside Road
Edenton, NC 27932

Job J0723-3546	Truss D1	Truss Type MONOPITCH TRUSS	Qty 3	Ply 1	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	159586133
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:27 2023 Page 1

ID:urHpUXSUqY2HTqw1dFbYnWzwO2N-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrcDoi7J4zJC?f

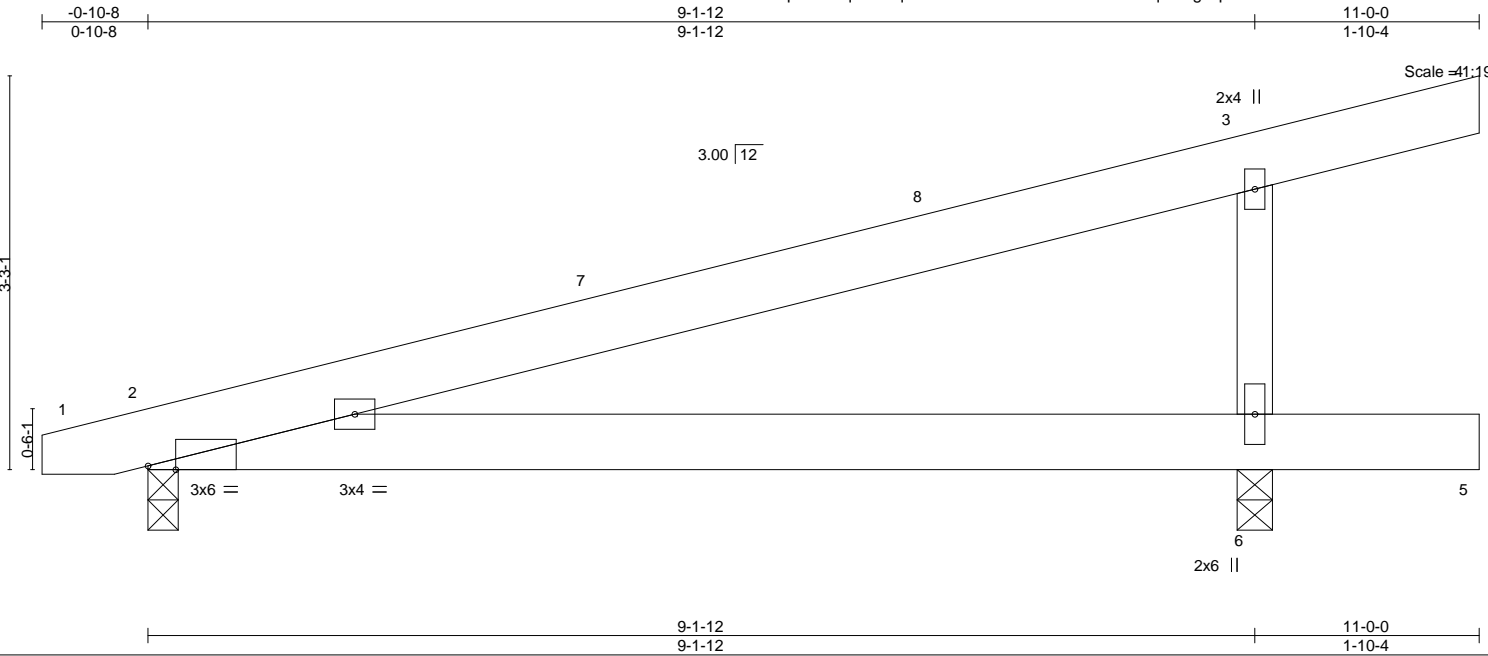


Plate Offsets (X,Y)-- [2:0-2-12,Edge]	9-1-12 9-1-12	11-0-0 1-10-4			
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.43	Vert(LL) 0.20 2-6 >534 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.14 2-6 >755 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.07	Horz(CT) 0.00 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 57 lb	FT = 20%

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

REACTIONS. (size) 2=0-3-0, 6=0-3-8
Max Horz 2=103(LC 6)
Max Uplift 2=-191(LC 6), 6=-204(LC 6)
Max Grav 2=389(LC 1), 6=523(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-377/404

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-6-15 to 3-9-14, Interior(1) 3-9-14 to 6-7-3, Exterior(2) 6-7-3 to 11-0-0 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=191, 6=204.



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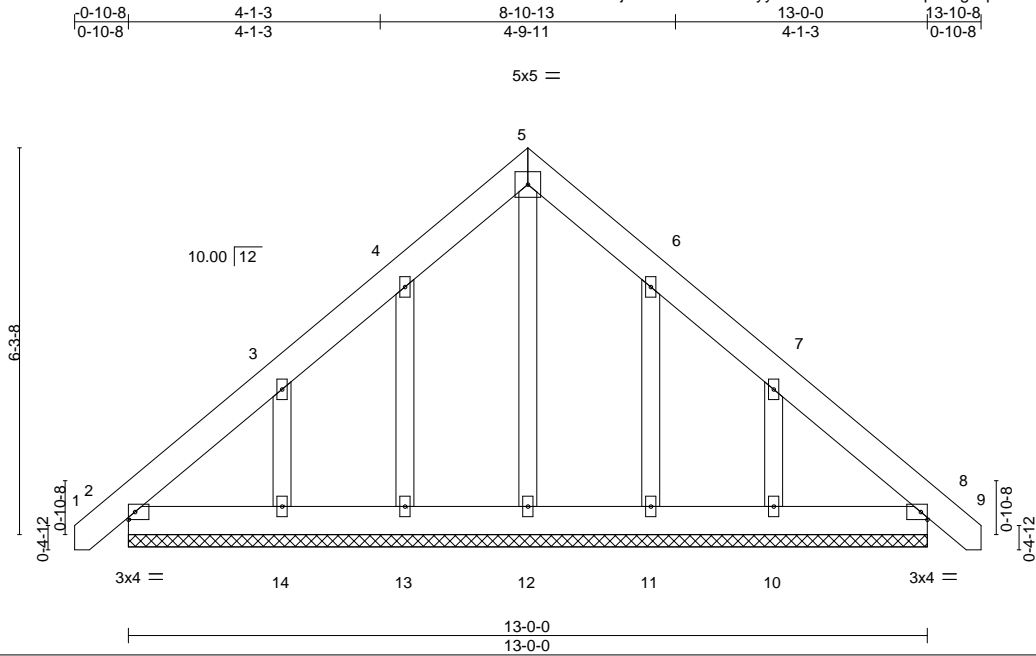
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. 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 TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Lot 155 Crossing @ Anderson Creek	I59586134
J0723-3546	E1GE	GABLE	1	1	Job Reference (optional)	

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ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrcDoi7J4zJC?f



Scale = 1:37.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	0.00	8	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.03	Vert(CT)	0.00	8	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	8	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 101 lb	FT = 20%

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

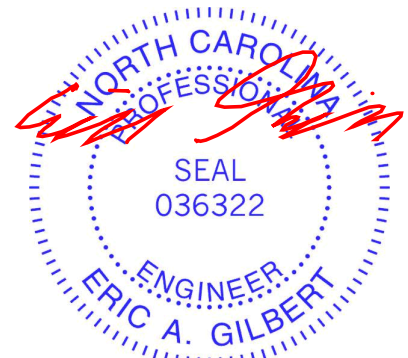
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6'-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10'-0-0 oc bracing.

REACTIONS. All bearings 13-0-0.
 (lb) - Max Horz 2=-202(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 2, 8 except 13=-111(LC 10), 14=-201(LC 10), 11=-107(LC 11), 10=-200(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 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 40.0psf on the bottom chord in all areas where a rectangle 3'-6-0 tall by 2'-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 13=111, 14=201, 11=107, 10=200.



July 19, 2023

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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component

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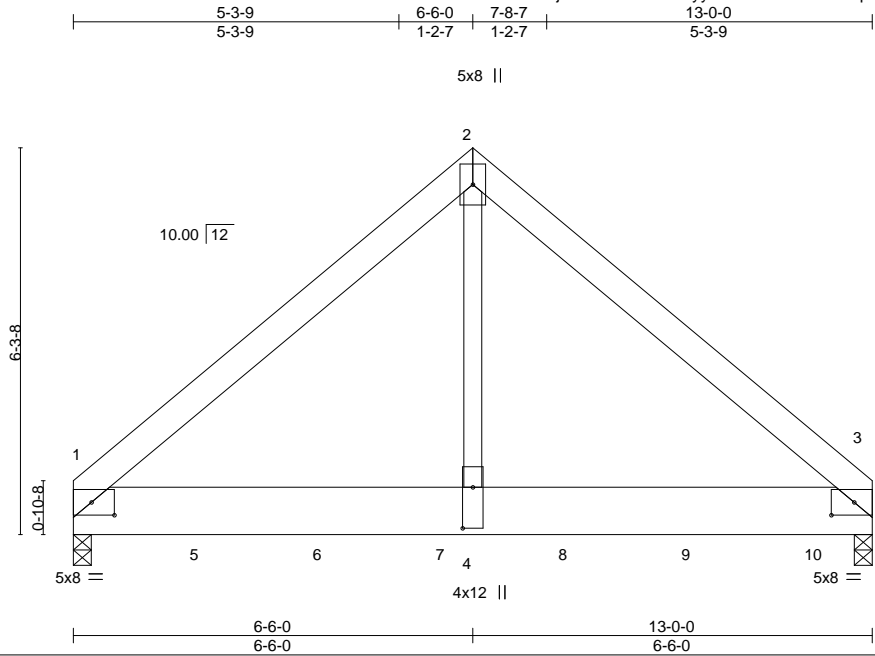
818 Soundside Road
 Edenton, NC 27932

Job J0723-3546	Truss E2	Truss Type HIP TRUSS	Qty 1	Ply 2	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	159586135
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:29 2023 Page 1

ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:37.5

Plate Offsets (X, Y)--	[1:0-4-8,0-2-8], [3:0-4-8,0-2-8], [4:0-8-0,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.21	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.04 3-4 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.80	Vert(CT) -0.08 3-4 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.01 3 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 3-4 >999 240	Weight: 199 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x10 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 1=0-3-8, 3=0-3-8
 Max Horz 1=150(LC 24)
 Max Uplift 1=609(LC 8), 3=716(LC 9)
 Max Grav 1=5143(LC 2), 3=6057(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-5305/675, 2-3=-5302/675
 BOT CHORD 1-4=-436/3935, 3-4=-436/3935
 WEBS 2-4=-712/6540

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf 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) except (jt=lb) 1=609, 3=716.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1718 lb down and 213 lb up at 2-0-12, 1718 lb down and 213 lb up at 4-0-12, 1718 lb down and 213 lb up at 6-0-12, 1718 lb down and 213 lb up at 8-0-12, and 1718 lb down and 213 lb up at 10-0-12, and 1720 lb down and 211 lb up at 12-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

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



July 19, 2023

Continued on page 2

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818 Soundside Road
 Edenton, NC 27932

Job J0723-3546	Truss E2	Truss Type HIP TRUSS	Qty 1	Ply 2	Lot 155 Crossing @ Anderson Creek I59586135 Job Reference (optional)
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:29 2023 Page 2
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LOAD CASE(S) Standard

Concentrated Loads (lb)

Vert: 5=-1519(F) 6=-1519(F) 7=-1519(F) 8=-1519(F) 9=-1519(F) 10=-1522(F)

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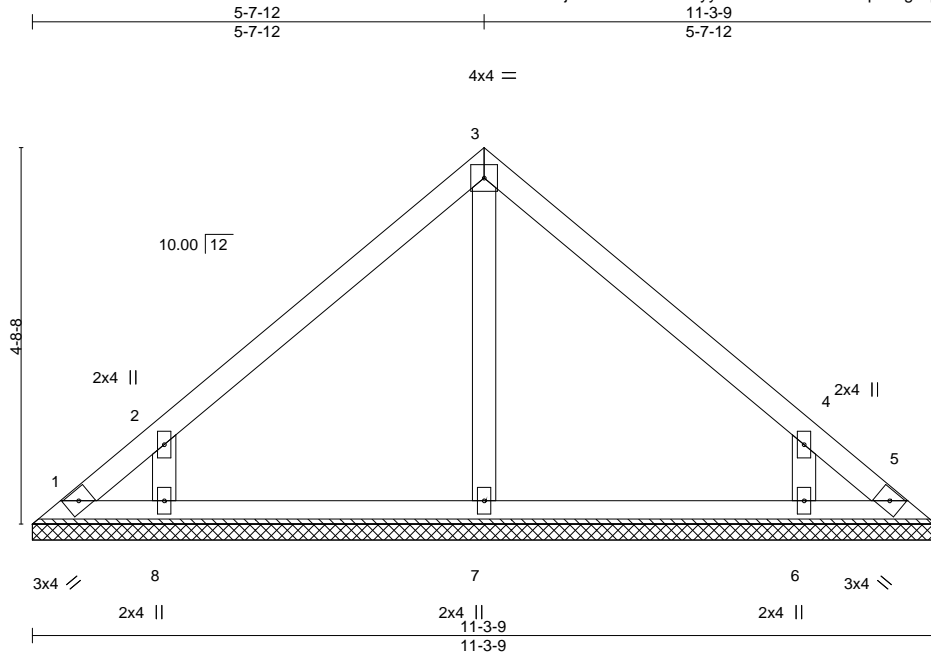
818 Soundside Road
Edenton, NC 27932

Job J0723-3546	Truss VE1	Truss Type Valley	Qty 1	Ply 1	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	159586136
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8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:30 2023 Page 1

ID:ZBV44jdxGe9Lzs09kQJltyyS8Pv-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:28.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.09	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 46 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 11-3-9.
 (lb) - Max Horz 1=117(LC 9)
 Max Uplift All uplift 100 lb or less at joint(s) 1, 5 except 8=158(LC 10), 6=158(LC 11)
 Max Grav All reactions 250 lb or less at joint(s) 1, 5, 7 except 8=340(LC 17), 6=340(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-354/296, 4-6=-354/296

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 40.0psf 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, 5 except (jt=lb) 8=158, 6=158.



July 19, 2023

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 Edenton, NC 27932

Job J0723-3546	Truss VE2	Truss Type Valley	Qty 1	Ply 1	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	I59586137
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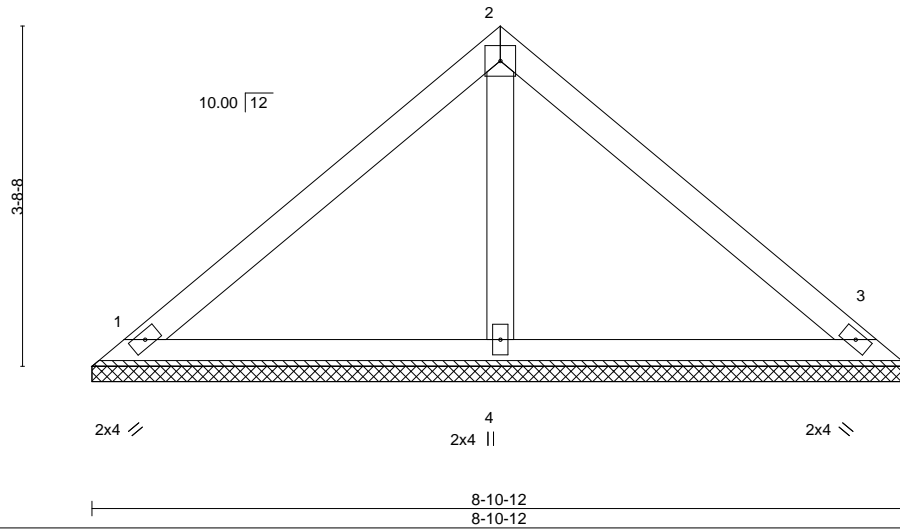
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:31 2023 Page 1
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4x4 =

Scale = 1:25.1



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 34 lb	FT = 20%
	Code IRC2015/TPI2014							

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

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

REACTIONS. (size) 1=8-10-12, 3=8-10-12, 4=8-10-12
 Max Horz 1=-90(LC 6)
 Max Uplift 1=-40(LC 11), 3=-48(LC 11)
 Max Grav 1=187(LC 1), 3=187(LC 1), 4=273(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 40.0psf 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.



July 19, 2023

Job J0723-3546	Truss VE3	Truss Type Valley	Qty 1	Ply 1	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	159586138
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:32 2023 Page 1
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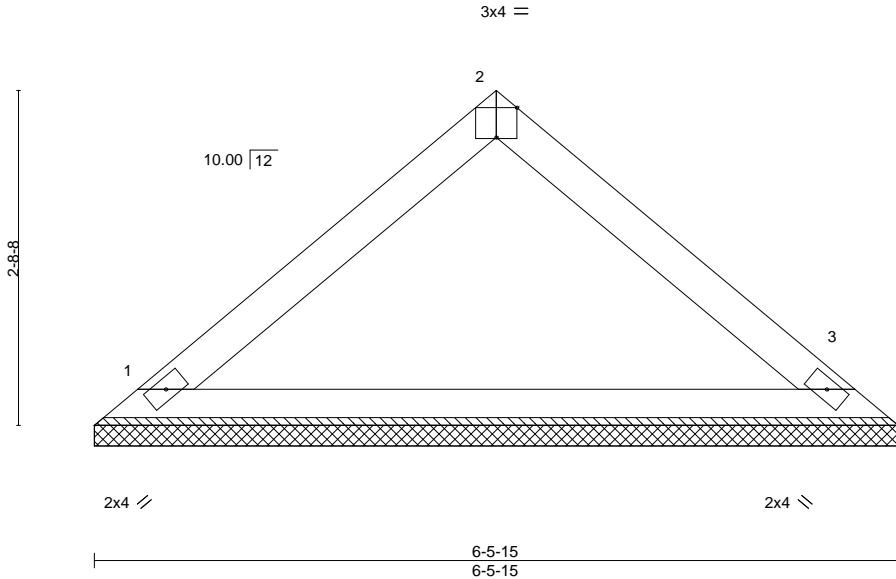


Plate Offsets (X,Y)--	[2:0-2-0,Edge]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	n/a	-	n/a	999
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	n/a	-	n/a	999
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	3	n/a	n/a
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P					
								PLATES
								MT20
								GRIP
								244/190
								Weight: 21 lb
								FT = 20%

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

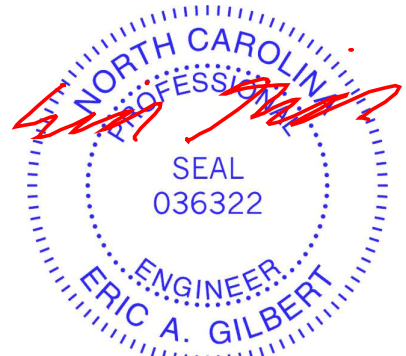
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=6-5-15, 3=6-5-15
Max Horz 1=63(LC 9)
Max Uplift 1=-25(LC 10), 3=-25(LC 11)
Max Grav 1=228(LC 1), 3=228(LC 1)

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

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 40.0psf 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.



July 19, 2023

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

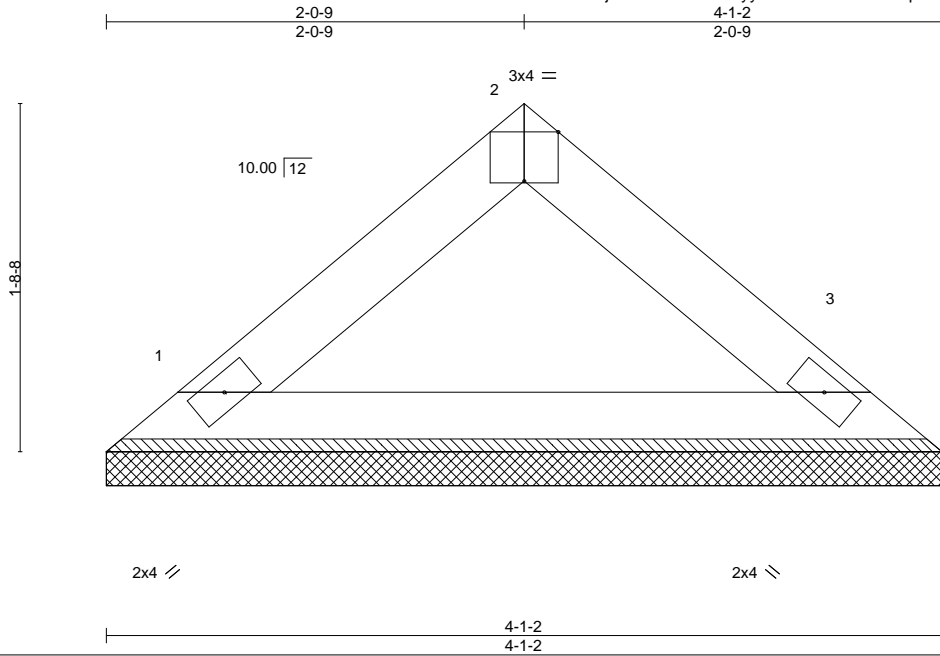


818 Soundside Road
Edenton, NC 27932

Job J0723-3546	Truss VE4	Truss Type Valley	Qty 1	Ply 1	Lot 155 Crossing @ Anderson Creek Job Reference (optional)	159586139
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Jul 18 07:34:33 2023 Page 1
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Scale = 1:11.3

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 0.04	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 0.00	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P						
								Weight: 13 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 4-1-2 oc purlins.
BOT CHORD	2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=4-1-2, 3=4-1-2
 Max Horz 1=37(LC 7)
 Max Uplift 1=-14(LC 10), 3=-14(LC 11)
 Max Grav 1=132(LC 1), 3=132(LC 1)

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

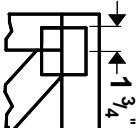
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=25ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Gable requires continuous bottom chord bearing.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 40.0psf 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.



July 19, 2023

Symbols

PLATE LOCATION AND ORIENTATION



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



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



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

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

PLATE SIZE

4 X 4

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

LATERAL BRACING LOCATION



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

BEARING



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

Industry Standards:

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

Numbering System

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



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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