

Trenco
818 Soundside Rd
Edenton, NC 27932

Re: B0924-5192
Lot 6 River Road

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: I69041271 thru I69041334

My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



October 21, 2024

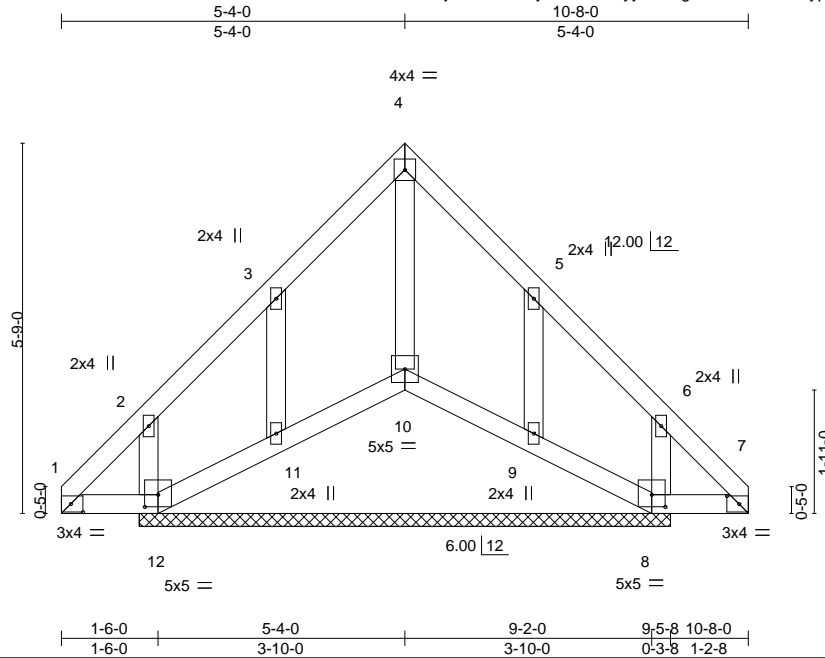
Gilbert, Eric

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 6 River Road	169041271
B0924-5192	A01	SPECIAL TRUSS	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Builders FirsSource (Albermarle)

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Scale = 1:35.8

Plate Offsets (X,Y)--	[1:0-2-4,0-1-8], [7:0-2-4,0-1-8], [8:0-2-8,0-2-4], [12:0-2-8,0-2-4]				
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 0.08	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.07	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.05	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 56 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 10-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 8-3-0.
(lb) - Max Horz 12=162(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 10 except 8=120(LC 10), 12=178(LC 11), 9=203(LC 11), 11=205(LC 10)
Max Grav All reactions 250 lb or less at joint(s) 8, 12 except 10=313(LC 11), 9=264(LC 18), 11=267(LC 17)

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; TCCL=6.0psf; BCCL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb) 8=120, 12=178, 9=203, 11=205.
 - Non Standard bearing condition. Review required.



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WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041272
B0924-5192	B01	GABLE	1	1		

Comtech, Inc., Fayetteville, NC 28309, Builders FirsSource (Albermarle) 8.630 s Jun 15 2023 MiTek Industries, Inc. Mon Oct 21 10:07:02 2024 Page 1
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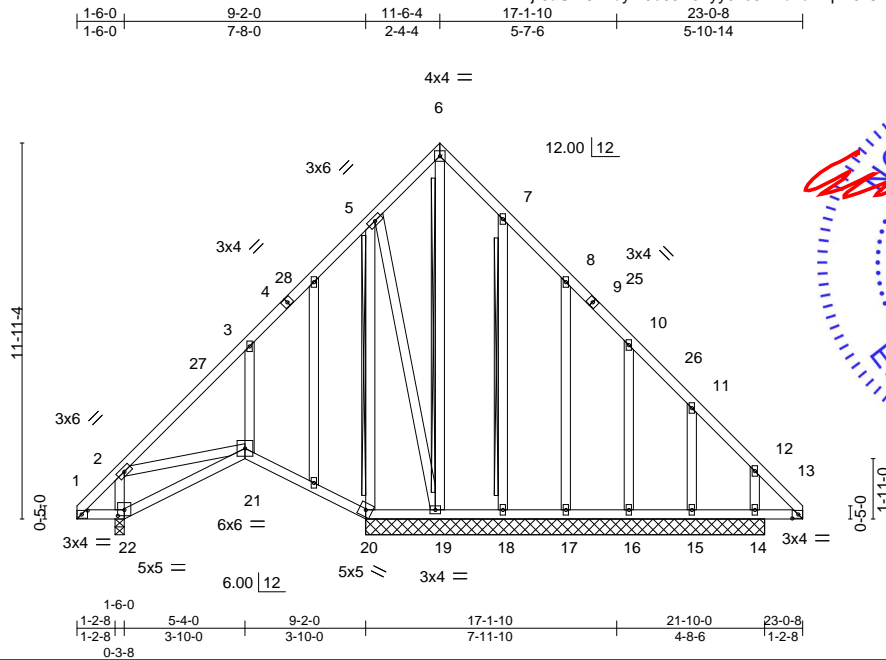


Plate Offsets (X,Y)--	[1:0-2-4,0-1-8], [13:0-2-4,0-1-8], [22:0-2-8,0-2-4]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.08 21 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.46	Vert(TL) -0.19 21 >474 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(TL) 0.21 22 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-S	Wind(LL) 0.22 21 >414 240		
				Weight: 193 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 6-0-0 oc bracing, Except:
WEBS 2x4 SP No.2	10-0-0 oc bracing: 21-22,1-22.
OTHERS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 5-20, 6-19, 7-18
	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 12-8-0 except (jt=length) 22=0-3-8.
 (lb) - Max Horz 20=681(LC 5)
 Max Uplift All uplift 100 lb or less at joint(s) except 20=1205(LC 6), 22=310(LC 4), 19=321(LC 5), 18=263(LC 7), 17=307(LC 7), 16=152(LC 7), 15=719(LC 7), 14=232(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 17, 16 except 20=1055(LC 10), 22=252(LC 5), 19=1181(LC 7), 18=279(LC 1), 15=334(LC 1), 14=417(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 6-7=-47/514, 7-8=-29/310, 8-10=-8/305, 10-11=-137/295, 11-12=-486/345, 12-13=-496/264, 2-3=-587/493, 3-5=-281/505, 5-6=-106/594
 BOT CHORD 19-20=-258/561, 18-19=-185/466, 17-18=-185/466, 16-17=-185/466, 15-16=-185/466, 14-15=-185/466, 13-14=-185/466, 20-21=-393/761
 WEBS 5-20=-734/936, 2-22=-196/267, 6-19=-690/100, 7-18=-152/268, 8-17=-116/313, 11-15=-192/470, 3-21=-142/500, 5-19=-421/332, 2-21=-398/693

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-05; 130mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 7-1-7, Exterior(2) 7-1-7 to 15-11-1, Interior(1) 15-11-1 to 18-7-11, Exterior(2) 18-7-11 to 23-0-8 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1205 lb uplift at joint 20, 310 lb uplift at joint 22, 321 lb uplift at joint 19, 263 lb uplift at joint 18, 307 lb uplift at joint 17, 152 lb uplift at joint 16, 719 lb uplift at joint 15 and 232 lb uplift at joint 14.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

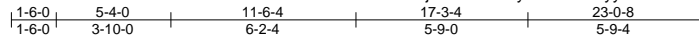
October 21,2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	 <p>818 Soundside Road Edenton, NC 27932</p>
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Job B0924-5192	Truss B02	Truss Type SPECIAL TRUSS	Qty 4	Ply 1	Lot 6 River Road 169041273
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:26 2024 Page 1
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5x10 M18AHS ||

Scale = 1:77.0

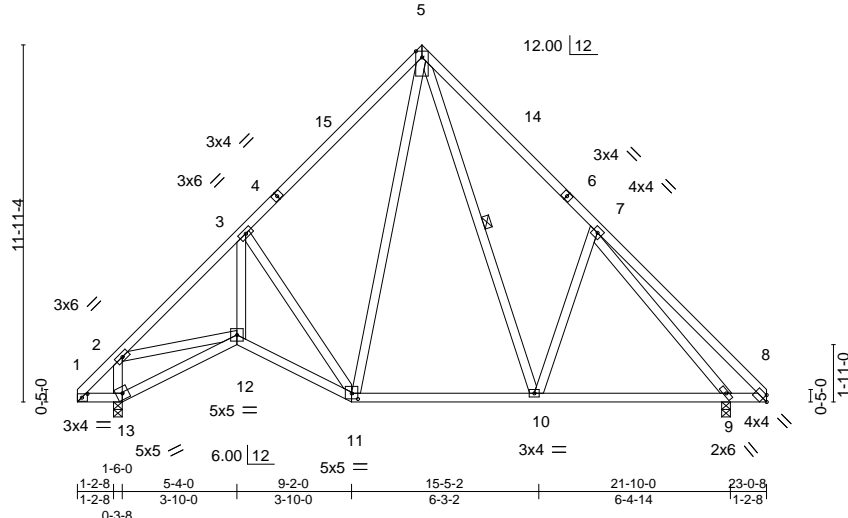


Plate Offsets (X,Y)-- [1:0-2-4,0-1-8], [8:0-1-15,Edge], [11:0-2-8,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.60	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.42	Vert(LL) -0.12 10-11 >999 360	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.96	Vert(TL) -0.19 10-11 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(TL) -0.05 13 n/a n/a		
	Code IRC2009/TPI2007		Wind(LL) 0.05 10-11 >999 240	Weight: 161 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-3-13 oc purlins.
BOT CHORD 2x4 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 5-10

REACTIONS. (size) 13=0-3-8, 9=0-3-8
 Max Horz 9=681(LC 5)
 Max Uplift 13=-576(LC 6), 9=-552(LC 7)
 Max Grav 13=1050(LC 1), 9=1041(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 5-7=-947/922, 2-3=-1270/624, 3-5=-848/772
 BOT CHORD 10-11=-215/464, 9-10=-508/622, 11-12=-242/954
 WEBS 7-10=-174/644, 5-10=-557/464, 5-11=-390/361, 3-11=-626/591, 3-12=-57/523,
 2-12=-367/958, 2-13=-922/626, 7-9=-1083/652

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-05; 130mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 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
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 576 lb uplift at joint 13 and 552 lb uplift at joint 9.



October 21, 2024

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818 Soundside Road
 Edenton, NC 27932

Job B0924-5192	Truss B03	Truss Type COMMON TRUSS	Qty 4	Ply 1	Lot 6 River Road 169041274
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Comtech, Inc. Fayetteville, NC - 28314,

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4x6 ||

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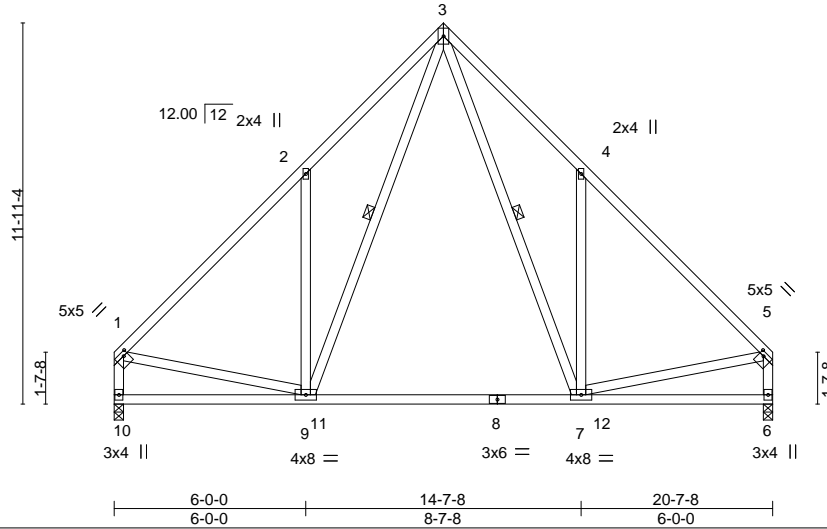


Plate Offsets (X,Y)--	[1:0-1-12,0-1-8], [5:0-1-12,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.32	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.58	Vert(LL) -0.26 7-9 >933 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.49	Vert(CT) -0.37 7-9 >665 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 7-9 >999 240	Weight: 152 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 5-9-3 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 3-7, 3-9

REACTIONS. (size) 10=0-3-8, 6=0-3-8
 Max Horz 10=305(LC 9)
 Max Uplift 10=-164(LC 11), 6=-164(LC 10)
 Max Grav 10=862(LC 18), 6=862(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-934/261, 2-3=-1060/614, 3-4=-1060/614, 4-5=-934/261, 1-10=-845/245, 5-6=-845/245
 BOT CHORD 9-10=-336/369, 7-9=-58/495
 WEBS 3-7=-455/684, 4-7=-543/482, 3-9=-456/684, 2-9=-543/483, 1-9=-27/605, 5-7=-29/608

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 164 lb uplift at joint 10 and 164 lb uplift at joint 6.



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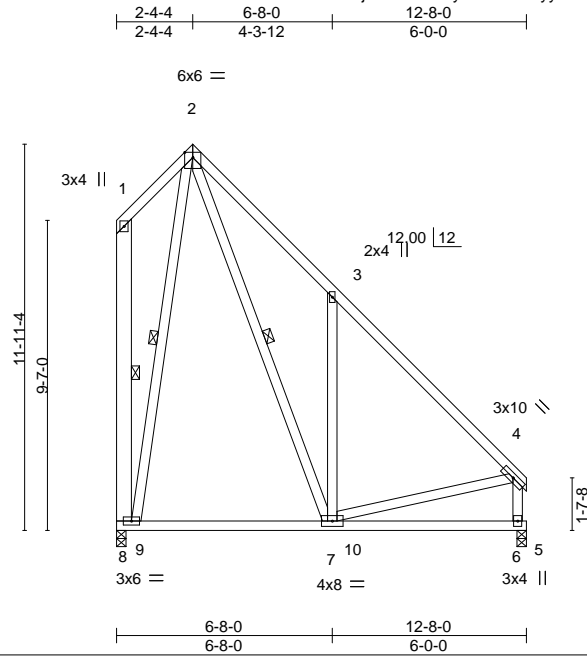
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small></p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job B0924-5192	Truss B04	Truss Type COMMON TRUSS	Qty 3	Ply 1	Lot 6 River Road Job Reference (optional)	I69041275
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:27 2024 Page 1

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Scale = 1:71.2

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0 Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.09	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.34	Vert(CT) -0.14	7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.50	Horz(CT) 0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	7	>999	240		
							Weight: 124 lb	FT = 20%

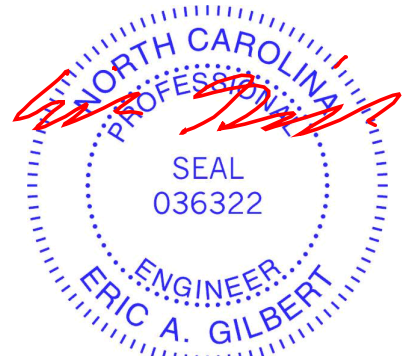
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2 *Except*
 1-8: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 9-1-6 oc bracing.
 WEBS 1 Row at midpt 2-8, 2-7, 1-8

REACTIONS. (size) 8=0-3-8, 6=0-3-8
 Max Horz 6=-414(LC 11)
 Max Uplift 8=-317(LC 11)
 Max Grav 8=668(LC 18), 6=498(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-559/354, 3-4=-488/9, 4-6=-458/3
 BOT CHORD 6-7=-474/404
 WEBS 2-8=-500/317, 2-7=-501/747, 3-7=-555/478, 4-7=-57/322

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 8.



October 21, 2024

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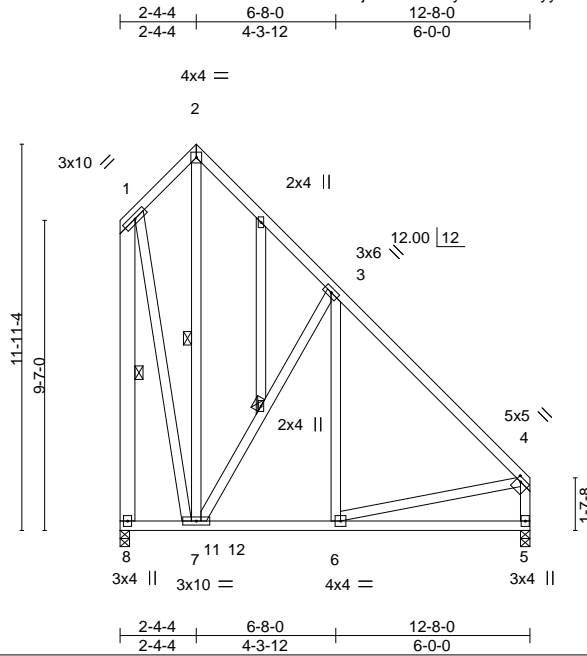
818 Soundside Road
 Edenton, NC 27932

Job B0924-5192	Truss B05	Truss Type GABLE	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041276
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Comtech, Inc. Fayetteville, NC - 28314,

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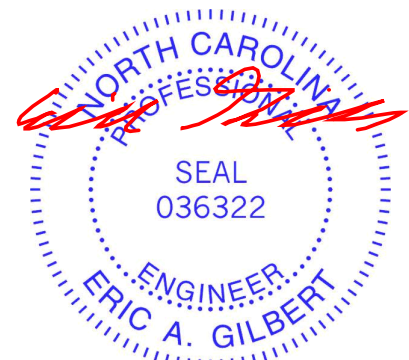
Plate Offsets (X, Y)--	[4:0-1-12, 0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.34	Vert(LL) -0.03 5-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.19	Vert(CT) -0.06 5-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.41	Horz(CT) 0.01 8 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01 6-7 >999 240	Weight: 141 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-0-6 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 1-8, 2-7, 3-7
1-8: 2x6 SP No.1	
OTHERS 2x4 SP No.2	

REACTIONS. (size) 5=0-3-8, 8=0-3-8
 Max Horz 5=-420(LC 11)
 Max Uplift 8=-317(LC 11)
 Max Grav 5=497(LC 17), 8=674(LC 18)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 3-4=-487/11, 4-5=-446/10, 1-8=-638/318
 BOT CHORD 6-7=-236/354, 5-6=-485/414
 WEBS 4-6=-62/307, 1-7=-238/511, 3-7=-511/359

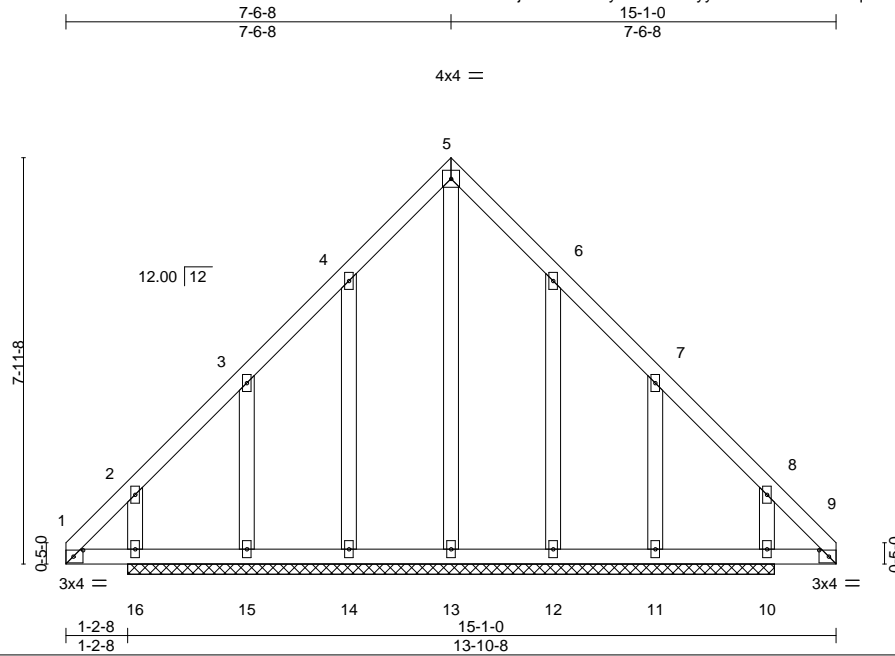
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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 studs spaced at 2-0-0 oc.
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 317 lb uplift at joint 8.



Job B0924-5192	Truss C01	Truss Type COMMON TRUSS	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041277
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:27 2024 Page 1
ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:45.1

Plate Offsets (X, Y)--	[1:0-2-4,0-1-8], [9:0-2-4,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.08	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.14	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.34	Horz(CT) 0.00 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 96 lb	FT = 20%

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

REACTIONS. All bearings 12-8-0.
 (lb) - Max Horz 16=228(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) except 14=108(LC 10), 15=259(LC 10), 16=146(LC 6), 12=109(LC 11), 11=255(LC 11), 10=138(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 14, 12 except 13=376(LC 20), 15=279(LC 17), 16=267(LC 18), 11=275(LC 18), 10=259(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 4-5=271/301, 5-6=271/301
 WEBS 5-13=341/246

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 108 lb uplift at joint 14, 259 lb uplift at joint 15, 146 lb uplift at joint 16, 109 lb uplift at joint 12, 255 lb uplift at joint 11 and 138 lb uplift at joint 10.
 - 9) Non Standard bearing condition. Review required.

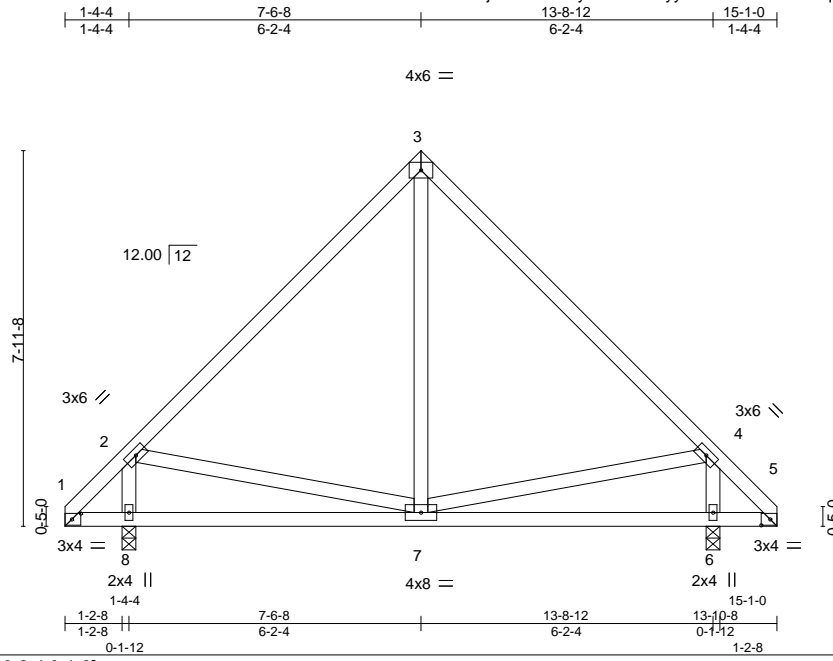


October 21, 2024

Job B0924-5192	Truss C02	Truss Type COMMON TRUSS	Qty 6	Ply 1	Lot 6 River Road Job Reference (optional)	169041278
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:28 2024 Page 1
ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:48.8

Plate Offsets (X,Y)--	[1:0-2-4,0-1-8], [5:0-2-4,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.36	Vert(LL) -0.02 6-7 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) -0.04 6-7 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) -0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.01 7-8 >999 240	Weight: 87 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.
WEBS 2x4 SP No.2	

REACTIONS. (size) 8=0-3-8, 6=0-3-8
 Max Horz 8=228(LC 9)
 Max Uplift 8=-112(LC 11), 6=-112(LC 10)
 Max Grav 8=603(LC 1), 6=603(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-445/173, 3-4=-445/173
 BOT CHORD 7-8=-288/358
 WEBS 2-8=-508/304, 4-6=-508/304, 2-7=-138/296, 4-7=-142/299

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 112 lb uplift at joint 8 and 112 lb uplift at joint 6.



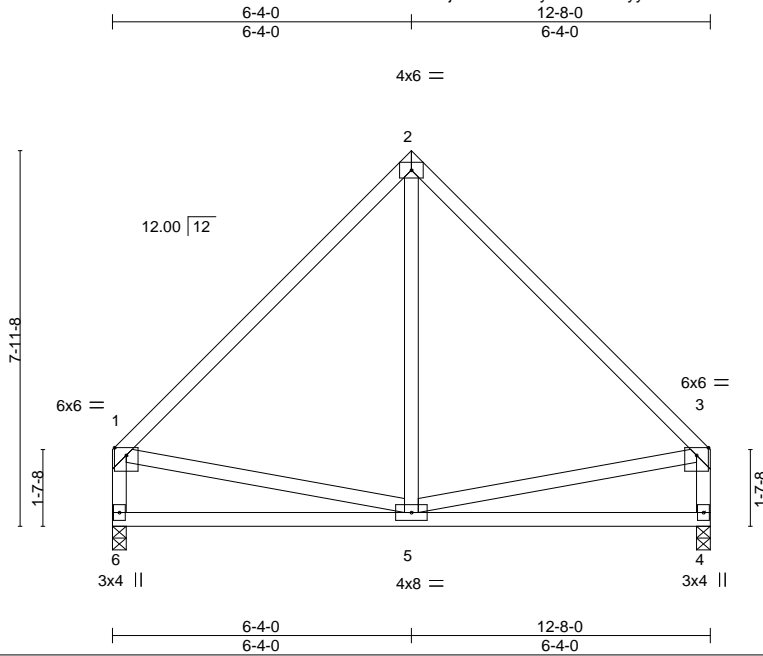
October 21, 2024

Job B0924-5192	Truss C03	Truss Type COMMON TRUSS	Qty 2	Ply 1	Lot 6 River Road Job Reference (optional)	169041279
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:28 2024 Page 1

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Scale = 1:48.8

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 0.43	Vert(LL)	-0.03	4-5	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.25	Vert(CT)	-0.05	4-5	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.06	Horz(CT)	-0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.00	5	>999	240		
									Weight: 79 lb	FT = 20%

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

REACTIONS. (size) 6=0-3-8, 4=0-3-8
 Max Horz 6=185(LC 7)
 Max Uplift 6=-105(LC 11), 4=-105(LC 10)
 Max Grav 6=495(LC 1), 4=495(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-452/171, 2-3=-452/171, 1-6=-440/174, 3-4=-440/174
 BOT CHORD 5-6=-239/284

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 105 lb uplift at joint 6 and 105 lb uplift at joint 4.

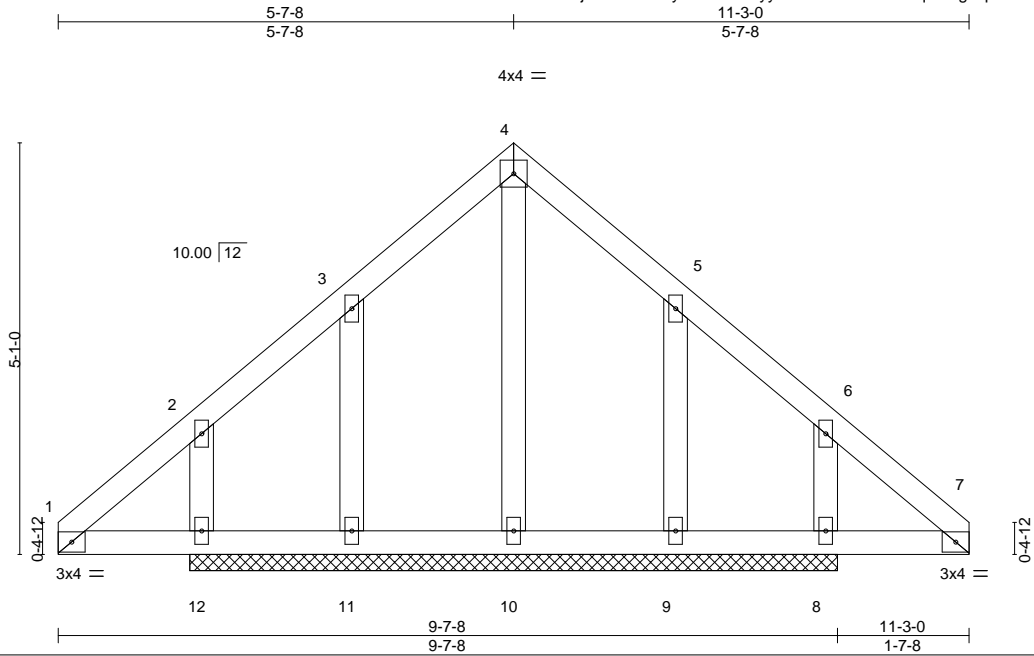


October 21, 2024

Job B0924-5192	Truss D01	Truss Type COMMON TRUSS	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041280
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:29 2024 Page 1
ID:1jr0aUZl52uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:28.5

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 0.07	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 58 lb	FT = 20%

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

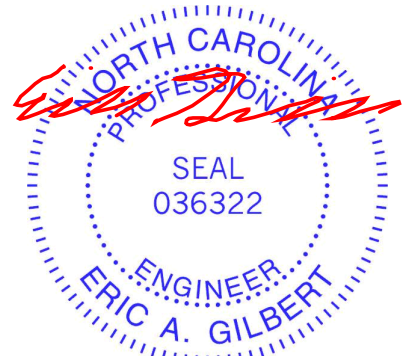
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 8-0-0.
 (lb) - Max Horz 12=142(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) except 11=159(LC 10), 12=105(LC 11), 9=157(LC 11), 8=102(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) 11, 12, 9, 8 except 10=255(LC 20)

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 159 lb uplift at joint 11, 105 lb uplift at joint 12, 157 lb uplift at joint 9 and 102 lb uplift at joint 8.
- Non Standard bearing condition. Review required.



October 21, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
 Edenton, NC 27932

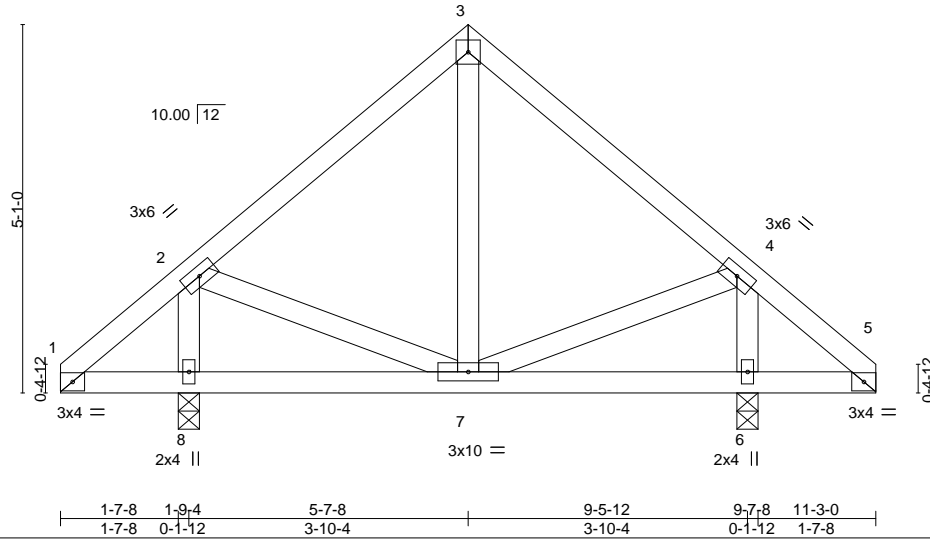
Job B0924-5192	Truss D02	Truss Type COMMON TRUSS	Qty 3	Ply 1	Lot 6 River Road Job Reference (optional)	I69041281
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:29 2024 Page 1
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Scale: 3/8"=1'



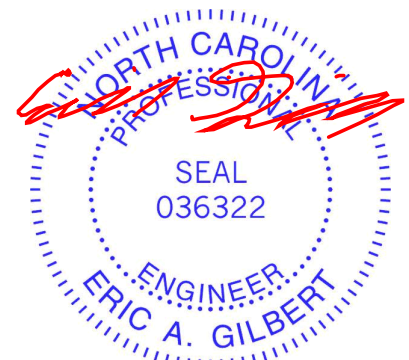
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.13	Vert(LL)	-0.00	6-7	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.07	Vert(CT)	-0.01	6-7	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.00	7	>999		
								Weight: 61 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 6-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 8=0-3-8, 6=0-3-8
 Max Horz 8=-142(LC 6)
 Max Uplift 8=-95(LC 10), 6=-95(LC 11)
 Max Grav 8=450(LC 1), 6=450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 WEBS 2-8=-380/221, 4-6=-380/221

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 95 lb uplift at joint 8 and 95 lb uplift at joint 6.



October 21, 2024

Job B0924-5192	Truss E01	Truss Type GABLE	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041282
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:30 2024 Page 1

ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



4x6 =

Scale = 1:49.7

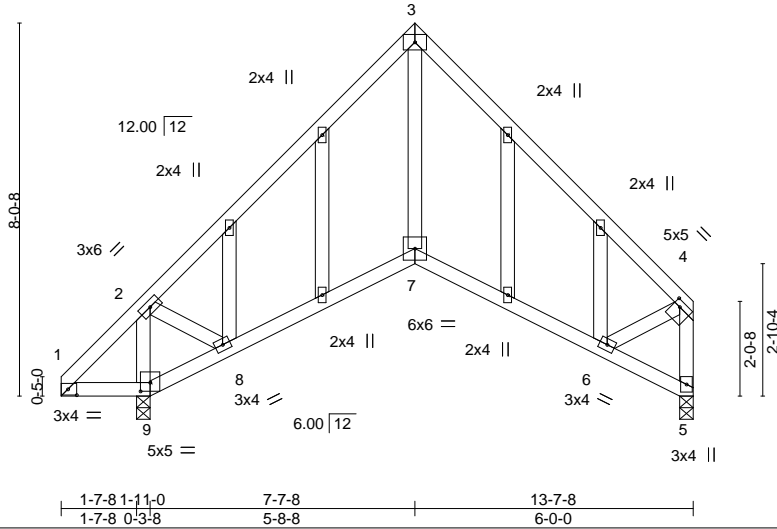


Plate Offsets (X,Y)-- [1:0-2-4,0-1-8], [4:0-1-12,0-1-8], [9:0-2-8,0-2-4]

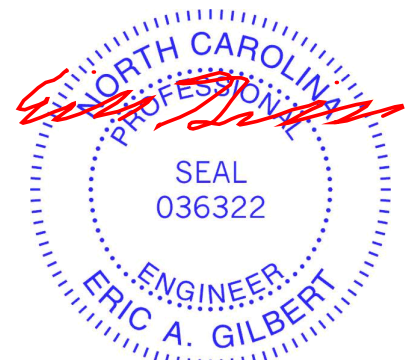
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) 0.10 6-7 >999 240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Vert(CT) -0.10 7 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.11 5 n/a n/a		
	Code IRC2015/TPI2014			Weight: 88 lb	FT = 20%

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

REACTIONS. (size) 9=0-3-8, 5=0-3-8
 Max Horz 9=224(LC 7)
 Max Uplift 9=-111(LC 11), 5=-107(LC 10)
 Max Grav 9=629(LC 1), 5=450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-510/150, 3-4=-535/197, 4-5=-590/165
 BOT CHORD 7-8=-106/367, 6-7=-73/349
 WEBS 2-9=-774/243, 3-7=-47/294, 2-8=0/350, 4-6=-96/335

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left 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) Gable studs spaced at 2-0-0 oc.
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 7) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 9 and 107 lb uplift at joint 5.



October 21, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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

Job B0924-5192	Truss E02	Truss Type SPECIAL TRUSS	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041283
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:30 2024 Page 1

ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



4x6 =

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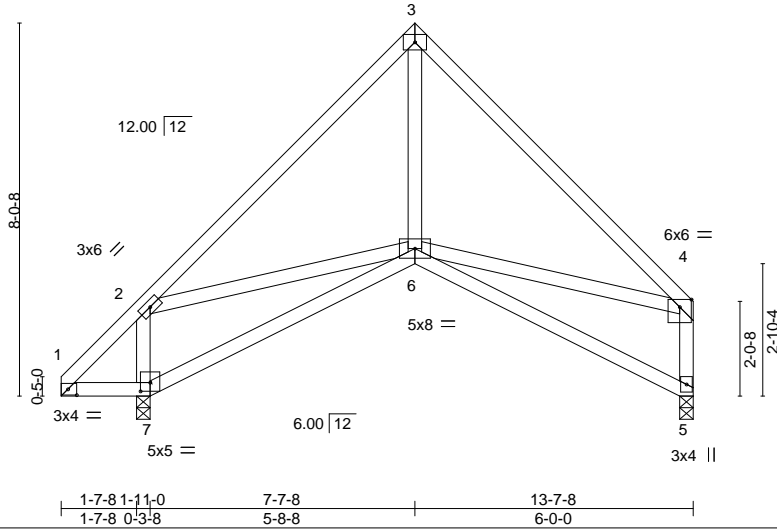


Plate Offsets (X, Y)--	[1:0-2-4,0-1-8], [7:0-2-8,0-2-4]
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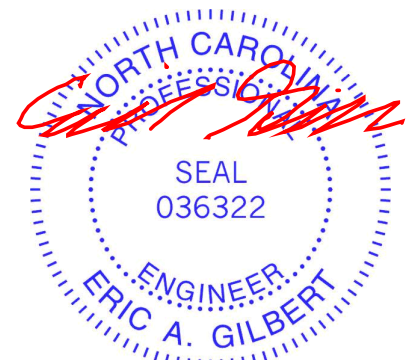
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) -0.04 5-6 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) -0.08 5-6 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.01 6 >999 240	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, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 7=0-3-8, 5=0-3-8
 Max Horz 7=224(LC 7)
 Max Uplift 7=-111(LC 11), 5=-107(LC 10)
 Max Grav 7=629(LC 1), 5=450(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-543/134, 3-4=-571/181, 4-5=-432/187
 BOT CHORD 6-7=-295/293
 WEBS 2-7=-561/334, 3-6=-37/325, 4-6=-97/329, 2-6=0/339

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 111 lb uplift at joint 7 and 107 lb uplift at joint 5.



October 21, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job B0924-5192	Truss E03	Truss Type SPECIAL TRUSS	Qty 4	Ply 1	Lot 6 River Road Job Reference (optional)	169041284
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Comtech, Inc. Fayetteville, NC - 28314,

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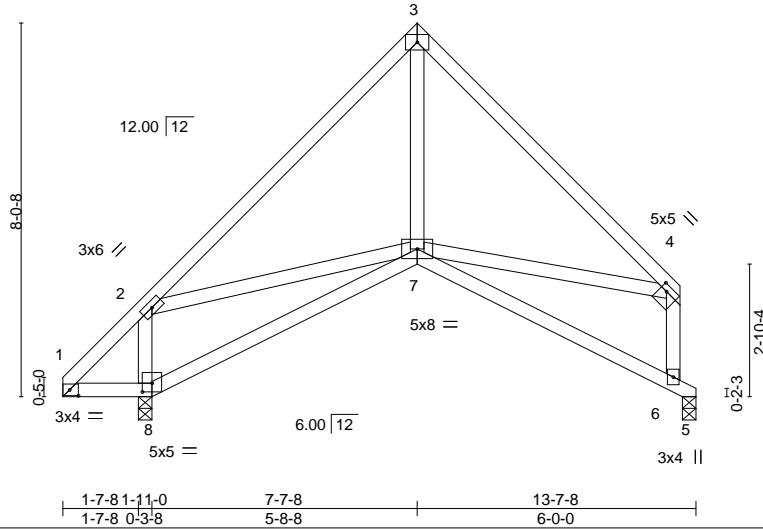


Plate Offsets (X,Y)--	[1:0-2-4,0-1-8], [4:0-1-12,0-1-8], [8:0-2-8,0-2-4]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.23	Vert(LL) -0.04 6-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.07	Vert(CT) -0.08 6-7 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 6-7 >999 240	Weight: 80 lb	FT = 20%

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

REACTIONS. (size) 8=0-3-8, 5=0-3-8
 Max Horz 8=223(LC 7)
 Max Uplift 8=-108(LC 11), 5=-103(LC 10)
 Max Grav 8=628(LC 1), 5=429(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-543/142, 3-4=-560/189, 4-6=-436/183
 BOT CHORD 7-8=-293/288
 WEBS 2-8=-568/341, 3-7=-51/328, 2-7=0/336, 4-7=-96/282

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Bearing at joint(s) 5 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 108 lb uplift at joint 8 and 103 lb uplift at joint 5.



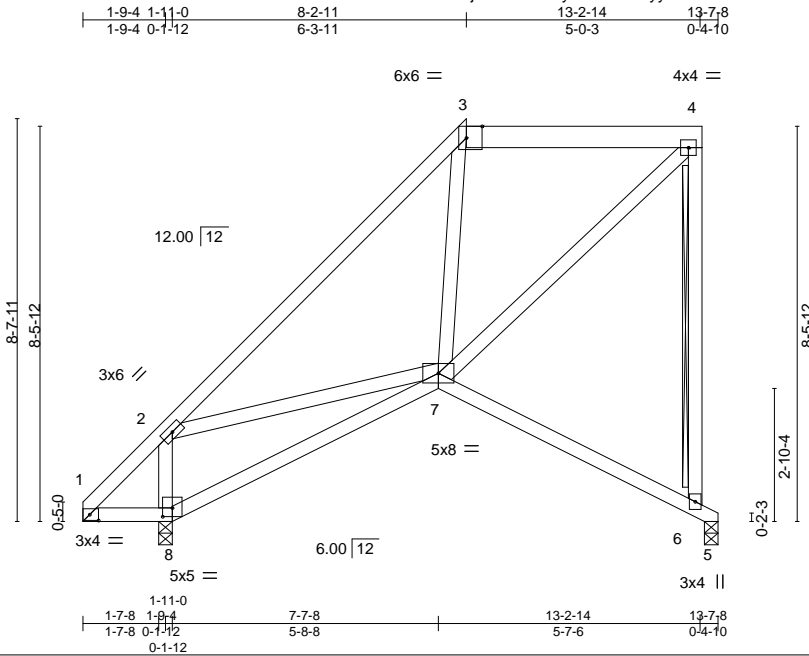
October 21, 2024

Job B0924-5192	Truss E04	Truss Type HALF HIP TRUSS	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041285
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Comtech, Inc. Fayetteville, NC - 28314,

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ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:49.4

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL) -0.05	6-7	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(CT) -0.11	6-7	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.34	Horz(CT) 0.02	5	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL) 0.04	6-7	>999	240	Weight: 93 lb	FT = 20%
	Code IRC2015/TPI2014							

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

REACTIONS. (size) 8=0-3-8, 5=0-3-8
 Max Horz 8=381(LC 10)
 Max Uplift 8=-37(LC 10), 5=-187(LC 10)
 Max Grav 8=628(LC 1), 5=429(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-540/180, 3-4=-378/256, 4-6=-411/318
 BOT CHORD 7-8=-499/426
 WEBS 2-7=-28/322, 4-7=-344/506, 2-8=-582/388

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 37 lb uplift at joint 8 and 187 lb uplift at joint 5.
 - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

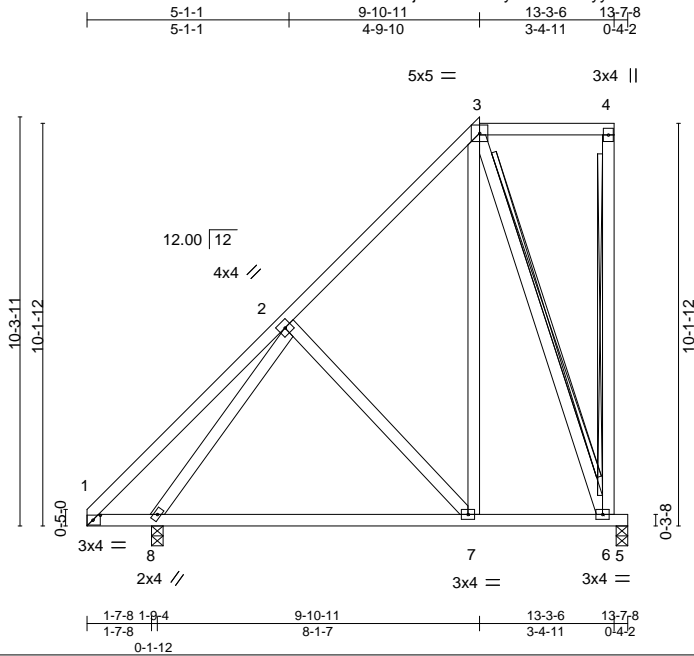


Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041286
B0924-5192	E05	HALF HIP TRUSS	1	1		

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Scale = 1:58.1

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.28	Vert(LL) -0.07	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(CT) -0.14	7-8	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.33	Horz(CT) -0.01	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03	6-7	>999	240		
							Weight: 108 lb	FT = 20%

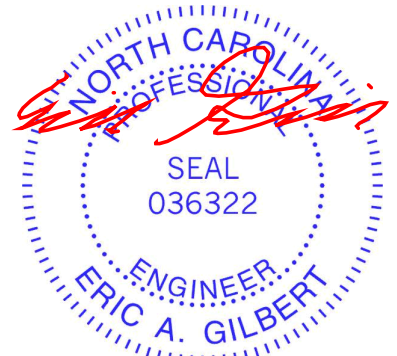
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2

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

REACTIONS. (size) 5=0-3-8, 8=0-3-8
 Max Horz 8=462(LC 10)
 Max Uplift 5=271(LC 10)
 Max Grav 5=495(LC 17), 8=615(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-305/42
 BOT CHORD 7-8=-324/407
 WEBS 2-7=-331/325, 3-7=-192/430, 3-6=-547/331, 2-8=-497/110

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 271 lb uplift at joint 5.
 - 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



October 21, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
 Edenton, NC 27932

Job B0924-5192	Truss E06	Truss Type HALF HIP TRUSS	Qty 1	Ply 1	Lot 6 River Road 169041287
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Comtech, Inc. Fayetteville, NC - 28314,

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ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



5x5 = 3x4 ||

Scale = 1:67.0

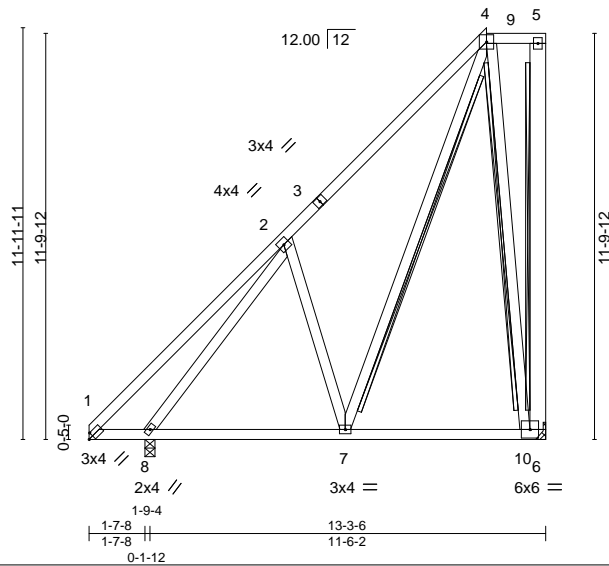


Plate Offsets (X,Y)--	[1:0-1-11,0-1-8]
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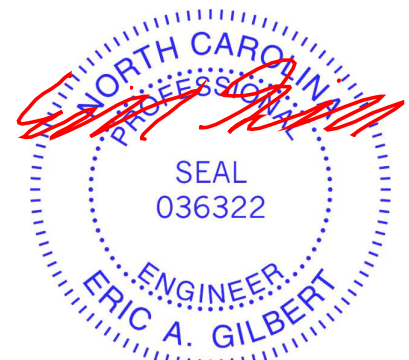
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.38	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.26	Vert(LL) -0.06 6-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.46	Vert(CT) -0.08 6-7 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 6 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 7 >999 240	Weight: 127 lb	FT = 20%

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

REACTIONS. (size) 6=Mechanical, 8=0-3-8
 Max Horz 8=539(LC 10)
 Max Uplift 6=-397(LC 10)
 Max Grav 6=595(LC 17), 8=598(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-425/130
 BOT CHORD 7-8=-322/413
 WEBS 4-7=-393/593, 2-8=-533/0, 4-6=-611/465, 2-7=-462/459

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 397 lb uplift at joint 6.
 - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



October 21, 2024

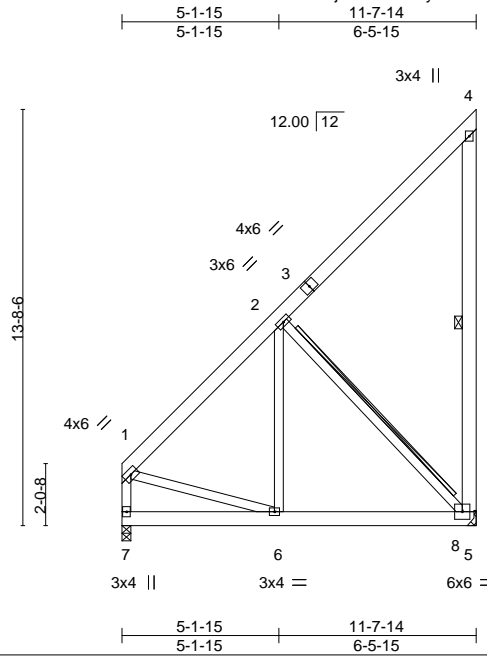
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job B0924-5192	Truss E07	Truss Type MONOPITCH TRUSS	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041288
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Comtech, Inc. Fayetteville, NC - 28314,

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Scale = 1:75.8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.19	Vert(LL)	-0.03 5-6	>999	360	MT20	244/190
BCLL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.04 5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.25	Horz(CT)	-0.00 5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.00 6	>999	240		
								Weight: 127 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-5
 T-Brace: 2x4 SPF No.2 - 2-5
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS.

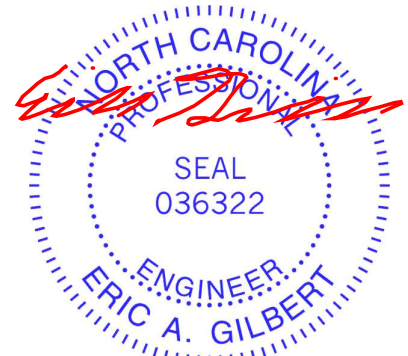
(size) 5=Mechanical, 7=0-3-8
 Max Horz 7=529(LC 10)
 Max Uplift 5=-481(LC 10)
 Max Grav 5=681(LC 17), 7=488(LC 19)

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

TOP CHORD 1-2=-498/0, 1-7=-464/0
 BOT CHORD 6-7=-539/453, 5-6=-283/397
 WEBS 2-5=-566/403, 1-6=-58/363

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 481 lb uplift at joint 5.
- 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



October 21, 2024

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



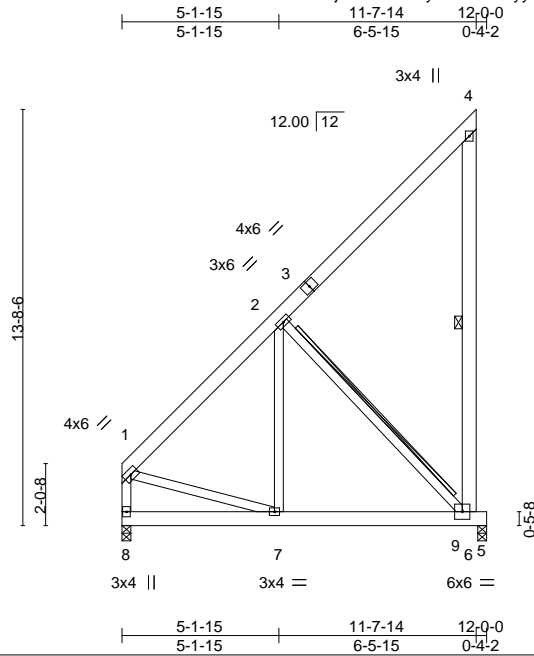
818 Soundside Road
 Edenton, NC 27932

Job B0924-5192	Truss E08	Truss Type MONOPITCH TRUSS	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041289
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Comtech, Inc. Fayetteville, NC - 28314,

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ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:75.8

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 0.19	Vert(LL)	-0.04 6-7	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.23	Vert(CT)	-0.06 6-7	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	-0.00 5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03 6-7	>999	240		
								Weight: 128 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 4-6: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-6
 T-Brace: 2x4 SPF No.2 - 2-6
 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
 Brace must cover 90% of web length.

REACTIONS. (size) 8=0-3-8, 5=0-3-8
 Max Horz 8=529(LC 10)
 Max Uplift 5=-459(LC 10)
 Max Grav 8=495(LC 19), 5=665(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-509/0, 1-8=-475/0
 BOT CHORD 7-8=-536/448, 6-7=-302/426
 WEBS 2-6=-600/426, 2-7=-44/258, 1-7=-23/373

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 459 lb uplift at joint 5.
- 5) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



October 21, 2024

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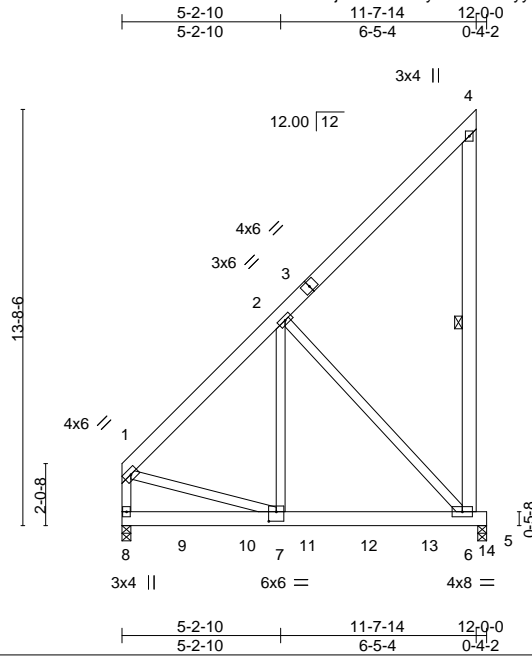
818 Soundside Road
 Edenton, NC 27932

Job B0924-5192	Truss E09	Truss Type MONOPITCH TRUSS	Qty 1	Ply 2	Lot 6 River Road Job Reference (optional)	169041290
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:33 2024 Page 1

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Scale = 1:75.8

Plate Offsets (X,Y)--	[7:0-3-0,0-3-12]						
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d
TCLL 20.0	Plate Grip DOL	1.15	TC 0.18	Vert(LL)	0.09	6-7	>999
TCDL 10.0	Lumber DOL	1.15	BC 0.52	Vert(CT)	-0.11	6-7	>999
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.40	Horz(CT)	-0.00	5	n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S				
							PLATES
							MT20
							GRIP
							244/190
							Weight: 257 lb
							FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 4-6: 2x6 SP No.1

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS 1 Row at midpt 4-6

REACTIONS.

(size) 8=0-3-8, 5=0-3-8
 Max Horz 8=529(LC 8)
 Max Uplift 8=-268(LC 4), 5=-979(LC 8)
 Max Grav 8=1599(LC 1), 5=1592(LC 1)

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

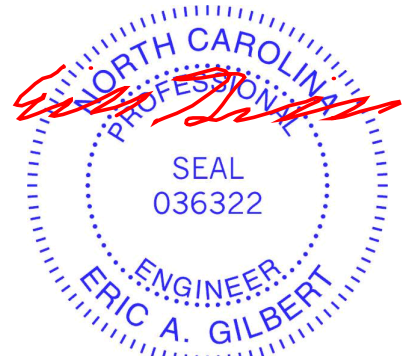
TOP CHORD 1-2=-1418/307, 1-8=-1344/235
 BOT CHORD 7-8=-543/217, 6-7=-559/945
 WEBS 2-7=-569/1507, 2-6=-1338/791, 1-7=-227/925

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, 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 268 lb uplift at joint 8 and 979 lb uplift at joint 5.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 450 lb down and 148 lb up at 2-0-0, 450 lb down and 148 lb up at 4-0-0, 450 lb down and 185 lb up at 6-0-0, and 450 lb down and 148 lb up at 8-0-0, and 478 lb down and 334 lb up at 10-0-0 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: 1-4=-60, 5-8=-20
 Concentrated Loads (lb)
 Vert: 9=-450(B) 10=-450(B) 11=-450(B) 12=-450(B) 13=-478(B)



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818 Soundside Road
 Edenton, NC 27932

Job B0924-5192	Truss F01	Truss Type FLOOR	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041291
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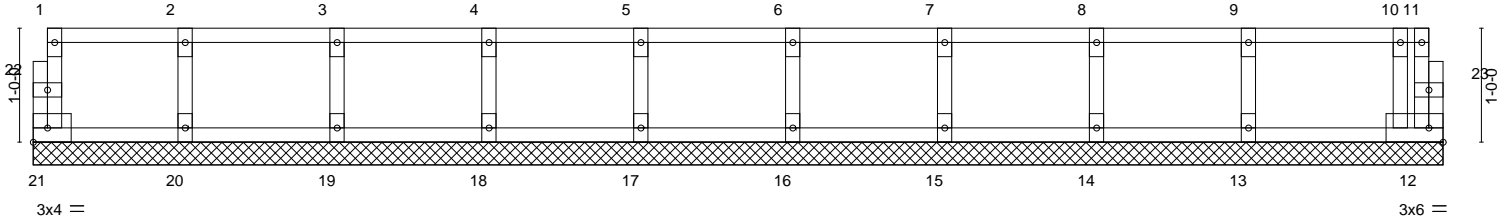
Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:34 2024 Page 1
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0₁1₈

0₁1₈

Scale = 1:20.2



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	in	(loc)	l/defl	L/d	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.02	Vert(LL)	n/a	-	n/a		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Vert(CT)	n/a	-	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-R		Horz(CT)	0.00	12	n/a		
										Weight: 50 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 12-4-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 21, 12, 20, 19, 18, 17, 16, 15, 14, 13

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

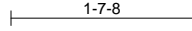
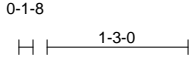
- NOTES-**
- 1) All plates are 1.5x3 MT20 unless otherwise indicated.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 5) Gable studs spaced at 1-4-0 oc.
 - 6) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road
B0924-5192	F02	FLOOR	11	1	I69041292
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:34 2024 Page 1
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Scale = 1:20.4

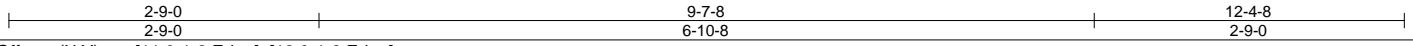
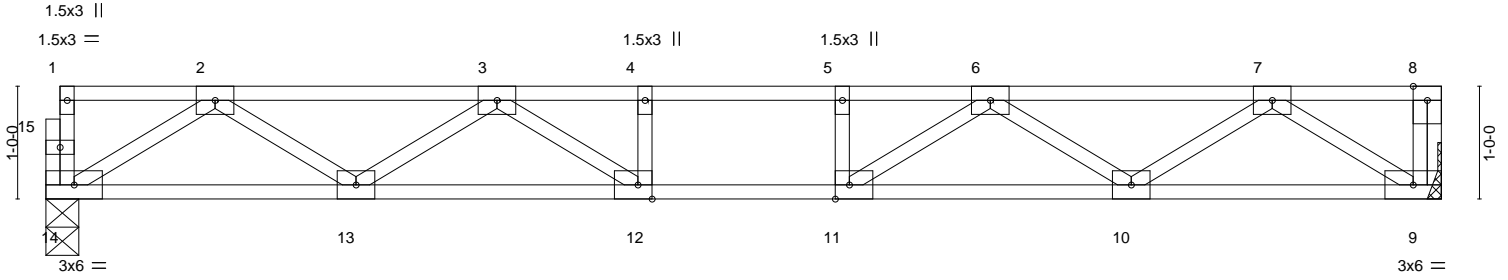


Plate Offsets (X,Y)--	[11:0-1-8,Edge], [12:0-1-8,Edge]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL 1.00	TC 0.28	Vert(LL) -0.10 11-12 >999 480	MT20	244/190	
TCDL 10.0	Lumber DOL 1.00	BC 0.45	Vert(CT) -0.13 11-12 >999 360			
BCLL 0.0	Rep Stress Incr YES	WB 0.32	Horz(CT) -0.03 14 n/a n/a			
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S				Weight: 60 lb FT = 20%F, 11%E

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

REACTIONS. (size) 14=0-3-8, 9=Mechanical
Max Grav 14=661(LC 1), 9=667(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1523/0, 3-4=-2268/0, 4-5=-2268/0, 5-6=-2268/0, 6-7=-1523/0
BOT CHORD 13-14=0/967, 12-13=0/2038, 11-12=0/2268, 10-11=0/2038, 9-10=0/967
WEBS 7-9=-1147/0, 2-14=-1143/0, 7-10=0/678, 2-13=0/679, 6-10=-628/0, 3-13=-629/0, 6-11=0/491, 3-12=0/491

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 6) CAUTION, Do not erect truss backwards.



Job B0924-5192	Truss F03	Truss Type FLOOR GIRDER	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041293
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:34 2024 Page 1
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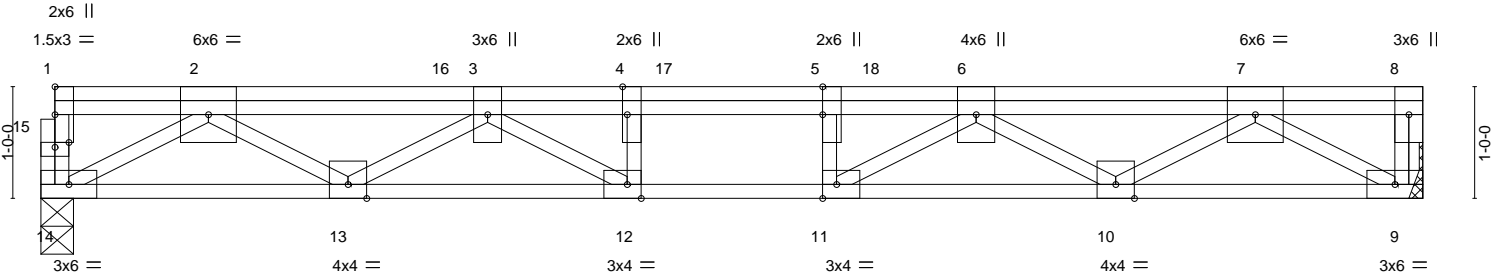


Plate Offsets (X, Y)--	[4:0-3-0,Edge], [5:0-3-0,0-0-0], [11:0-1-8,Edge], [12:0-1-8,Edge], [15:0-1-8,0-0-8]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.17	Vert(LL)	-0.10 11-12	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.63	Vert(CT)	-0.14 11-12	>999	360		
BCLL 0.0	Rep Stress Incr	NO	WB 0.42	Horz(CT)	-0.04 14	n/a	n/a		
BCDL 5.0	Code IRC2015/TPI2014		Matrix-S					Weight: 77 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 14=0-3-8, 9=Mechanical
Max Grav 14=958(LC 1), 9=770(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2068/0, 3-4=-3059/0, 4-5=-3059/0, 5-6=-3059/0, 6-7=-1943/0
BOT CHORD 13-14=0/1325, 12-13=0/2766, 11-12=0/3059, 10-11=0/2647, 9-10=0/1196
WEBS 7-9=-1389/0, 2-14=-1524/0, 7-10=0/891, 2-13=0/886, 6-10=-840/0, 3-13=-832/0, 6-11=0/709, 3-12=0/474, 5-11=-340/0

- NOTES-**
- Unbalanced floor live loads have been considered for this design.
 - Plates checked for a plus or minus 1 degree rotation about its center.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 160 lb down at 0-2-4, 150 lb down at 1-8-0, 150 lb down at 3-8-0, and 95 lb down at 5-8-0, and 128 lb down at 7-6-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-14=-10, 1-8=-100
Concentrated Loads (lb)
Vert: 1=-122(B) 2=-70(B) 16=-70(B) 17=-70(B) 18=-70(B)



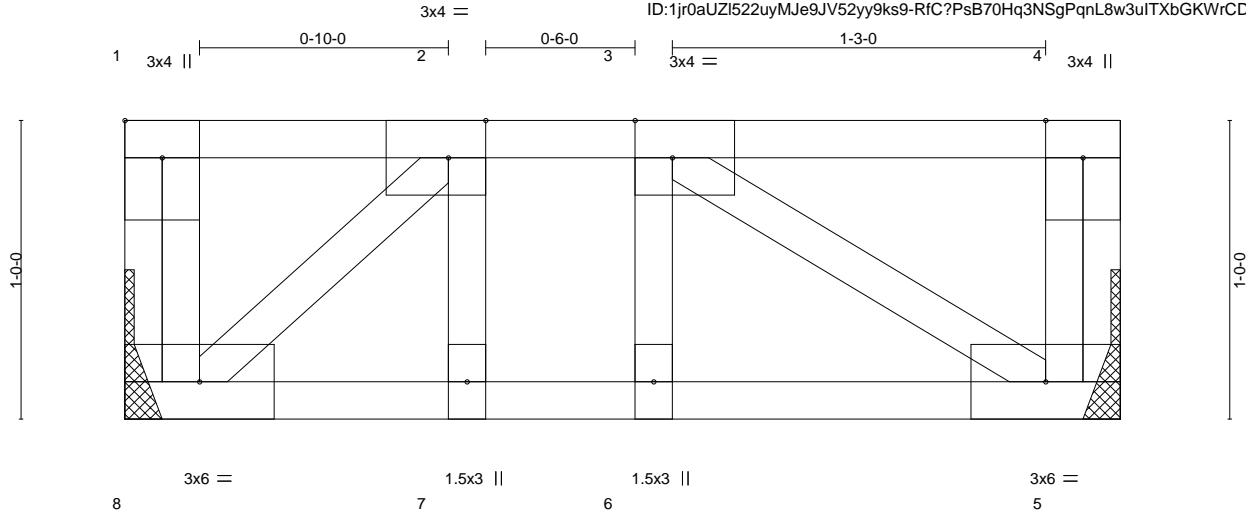
October 21, 2024

Job B0924-5192	Truss F04	Truss Type FLOOR	Qty 5	Ply 1	Lot 6 River Road Job Reference (optional)	169041294
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Comtech, Inc. Fayetteville, NC - 28314,

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Scale = 1:7.7

Plate Offsets (X, Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge]	
LOADING (psf)	SPACING- 2-0-0
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code IRC2015/TPI2014
CSL	DEFL. in (loc) l/defl L/d
TC 0.09	Vert(LL) -0.00 6 >999 480
BC 0.07	Vert(CT) -0.00 6 >999 360
WB 0.05	Horz(CT) 0.00 5 n/a n/a
Matrix-S	
PLATES	GRIP
MT20	244/190
	Weight: 20 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 3-4-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (size) 8=Mechanical, 5=Mechanical
Max Grav 8=170(LC 1), 5=170(LC 1)

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

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.

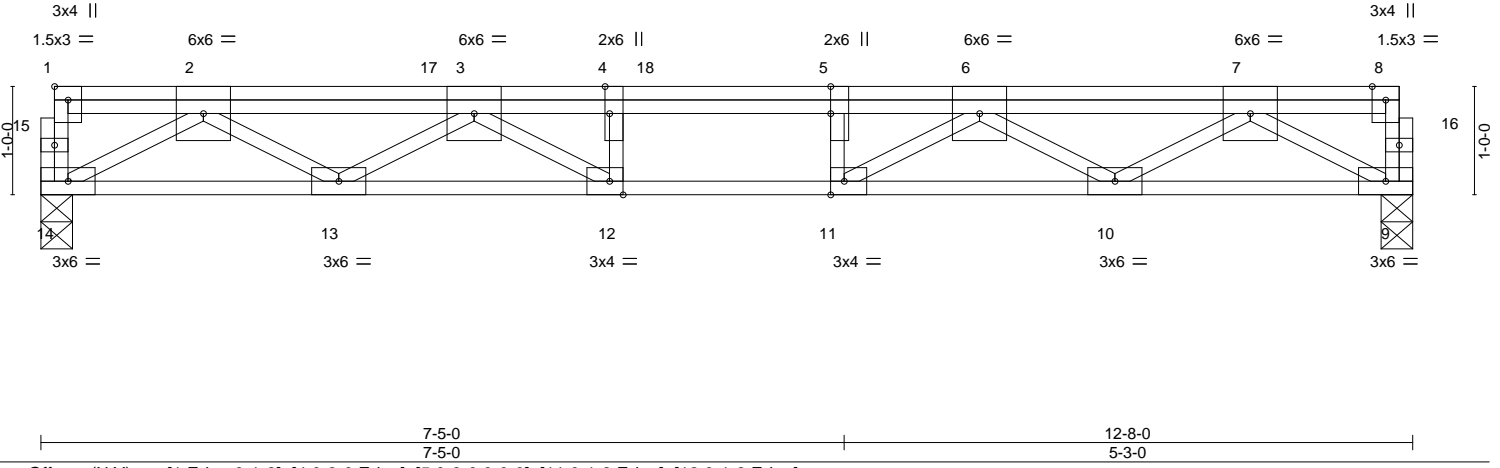
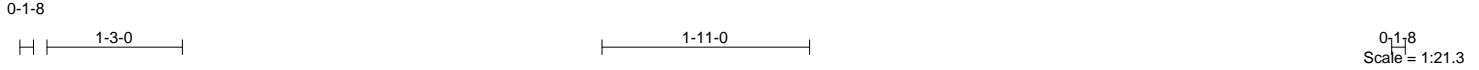


October 21, 2024

Job B0924-5192	Truss F05	Truss Type FLOOR GIRDER	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041295
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:35 2024 Page 1
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.20	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.66	Vert(LL) -0.11 11-12 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.44	Vert(CT) -0.16 11-12 >948 360		
BCDL 5.0	Rep Stress Incr NO	Matrix-S	Horz(CT) -0.04 14 n/a n/a		
	Code IRC2015/TPI2014			Weight: 78 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat)

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

REACTIONS. (size) 14=0-3-8, 9=0-3-8
Max Grav 14=977(LC 1), 9=776(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2130/0, 3-4=-3185/0, 4-5=-3185/0, 5-6=-3185/0, 6-7=-1980/0
BOT CHORD 13-14=0/1358, 12-13=0/2856, 11-12=0/3185, 10-11=0/2701, 9-10=0/1216
WEBS 7-9=-1409/0, 2-14=-1563/0, 7-10=0/910, 2-13=0/920, 6-10=-860/0, 3-13=-866/0, 6-11=0/830, 3-12=0/523, 5-11=-399/0

NOTES-
1) Unbalanced floor live loads have been considered for this design.
2) Plates checked for a plus or minus 1 degree rotation about its center.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 160 lb down at 0-2-4, 150 lb down at 1-8-0, 150 lb down at 3-8-0, and 95 lb down at 5-8-0, and 116 lb down at 7-6-4 on top chord. The design/selection of such connection device(s) is the responsibility of others.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

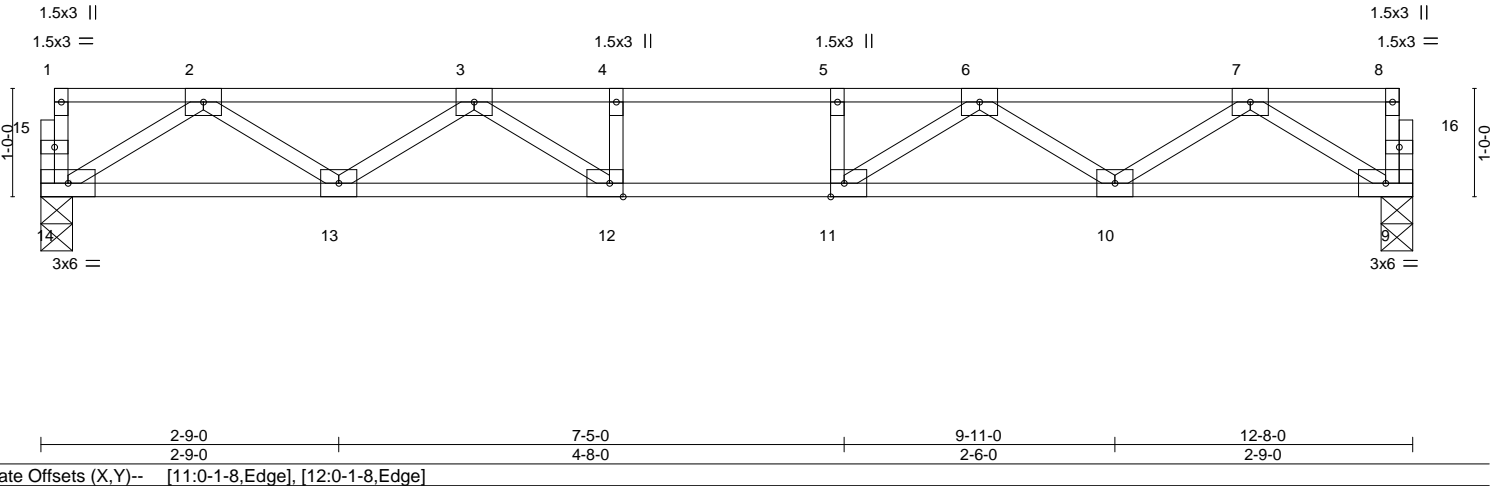
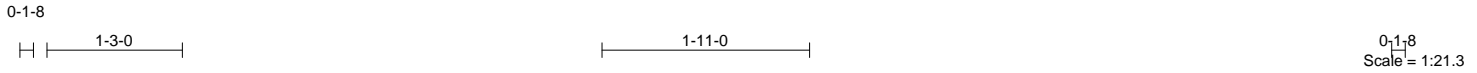
LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 9-14=-10, 1-8=-100
Concentrated Loads (lb)
Vert: 1=-122(F) 2=-70(F) 5=-70(F) 17=-70(F) 18=-70(F)



Job B0924-5192	Truss F06	Truss Type FLOOR	Qty 7	Ply 1	Lot 6 River Road Job Reference (optional)	169041296
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:35 2024 Page 1
ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.34	Vert(LL) -0.11 12-13 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.49	Vert(CT) -0.14 12-13 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.34	Horz(CT) 0.03 9 n/a n/a		
BCDL 5.0	Code IRC2015/TPI2014	Matrix-S		Weight: 61 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 14=0-3-8, 9=0-3-8
Max Grav 14=677(LC 1), 9=677(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1570/0, 3-4=-2372/0, 4-5=-2372/0, 5-6=-2372/0, 6-7=-1570/0
BOT CHORD 13-14=0/992, 12-13=0/2107, 11-12=0/2372, 10-11=0/2107, 9-10=0/992
WEBS 7-9=-1173/0, 2-14=-1173/0, 7-10=0/706, 2-13=0/706, 6-10=-656/0, 3-13=-656/0, 6-11=0/543, 3-12=0/543

- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) Plates checked for a plus or minus 1 degree rotation about its center.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

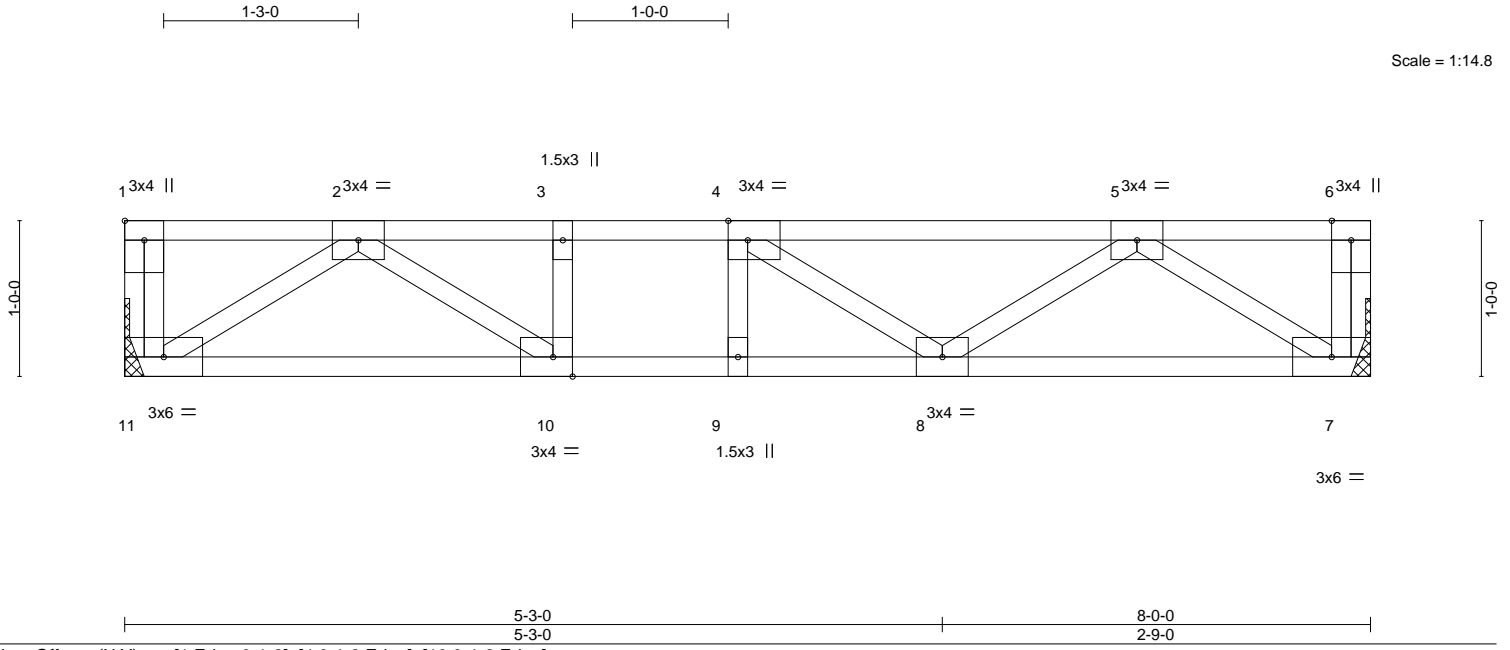
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job B0924-5192	Truss F08	Truss Type FLOOR	Qty 4	Ply 1	Lot 6 River Road 169041297
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:36 2024 Page 1
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Scale = 1:14.8



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.25	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.35	Vert(LL) -0.03 8-9 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.21	Vert(CT) -0.04 8-9 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 7 n/a n/a		
	Code IRC2015/TPI2014			Weight: 41 lb	FT = 20%F, 11%E

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

REACTIONS. (size) 11=Mechanical, 7=Mechanical
Max Grav 11=426(LC 1), 7=426(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-920/0, 3-4=-920/0, 4-5=-801/0
BOT CHORD 10-11=0/568, 9-10=0/920, 8-9=0/920, 7-8=0/605
WEBS 5-7=-718/0, 2-11=-673/0, 2-10=0/442

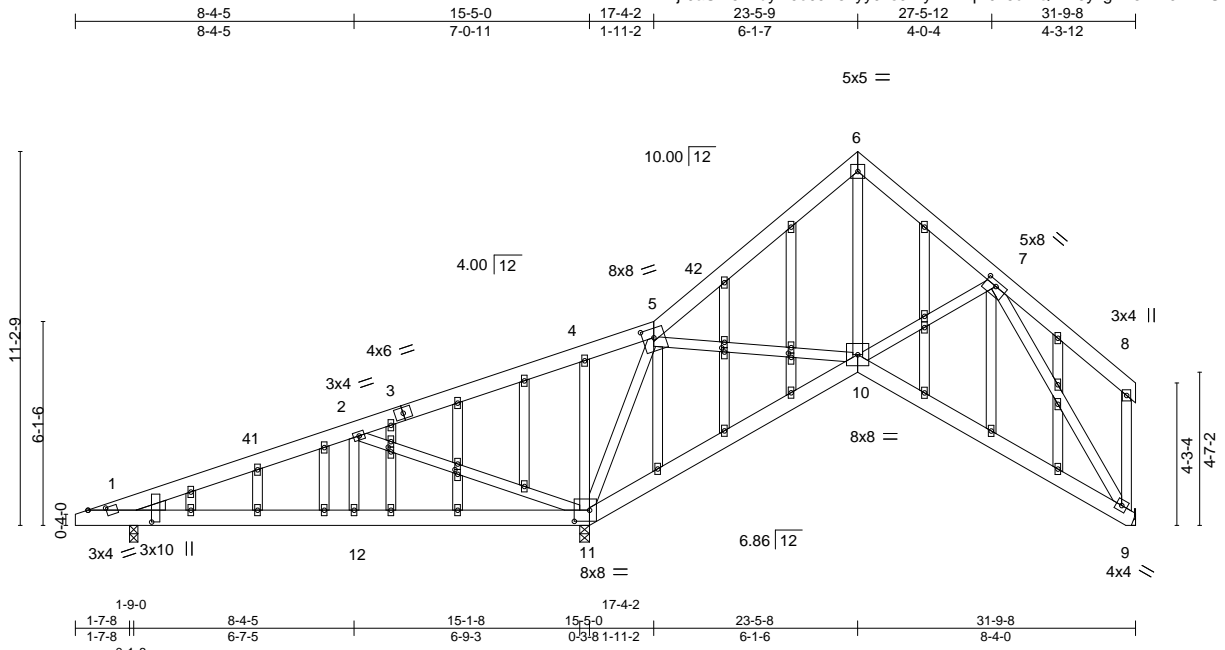
- NOTES-**
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) Plates checked for a plus or minus 1 degree rotation about its center.
 - 3) Refer to girder(s) for truss to truss connections.
 - 4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.



Job B0924-5192	Truss G01	Truss Type GABLE	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041298
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Comtech, Inc., Fayetteville, NC 28309, Builders FirsSource (Albermarle)

8.630 s Jun 15 2023 MiTek Industries, Inc. Mon Oct 21 10:03:04 2024 Page 1
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Scale = 1:69.1

Plate Offsets (X,Y)-- [1:0-4-4,1-10-14], [1:0-6-4,0-1-4], [5:0-4-0,0-3-4], [7:0-4-0,0-1-12], [11:0-5-8,0-4-0], [15:0-1-8,0-1-0], [18:0-1-8,0-1-0], [22:0-1-11,0-1-0], [25:0-1-11,0-1-0]

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 0.34	Vert(LL)	-0.04	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.43	Vert(CT)	-0.09	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.02	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.04	1-12	>999		
								Weight: 297 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11.

REACTIONS. (size) 11=0-3-8, 1=0-3-0, 9=Mechanical
Max Horz 1=337(LC 7)
Max Uplift 11=-474(LC 10), 1=-273(LC 6), 9=-102(LC 11)
Max Grav 11=1602(LC 1), 1=383(LC 21), 9=470(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-474/410, 2-4=-351/626, 4-5=-289/565, 5-6=-440/124, 6-7=-449/134
BOT CHORD 1-12=-436/400, 11-12=-436/400, 10-11=-386/322, 9-10=-50/337
WEBS 2-12=-308/315, 2-11=-931/832, 4-11=-314/237, 5-10=-75/533, 7-9=-514/70, 5-11=-680/241

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 1-1-10 to 5-6-7, Interior(1) 5-6-7 to 19-0-12, Exterior(2) 19-0-12 to 31-6-4 zone; cantilever left and 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.
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 474 lb uplift at joint 11, 273 lb uplift at joint 1 and 102 lb uplift at joint 9.



October 21, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

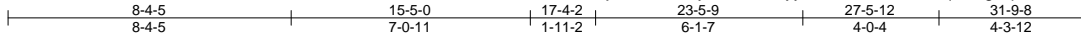
ENGINEERING BY
TRENCO
A MiTek Affiliate
818 Soundside Road
Edenton, NC 27932

Job B0924-5192	Truss G02	Truss Type ROOF SPECIAL	Qty 2	Ply 1	Lot 6 River Road Job Reference (optional)	169041299
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:37 2024 Page 1

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5x5 =

Scale = 1:68.0

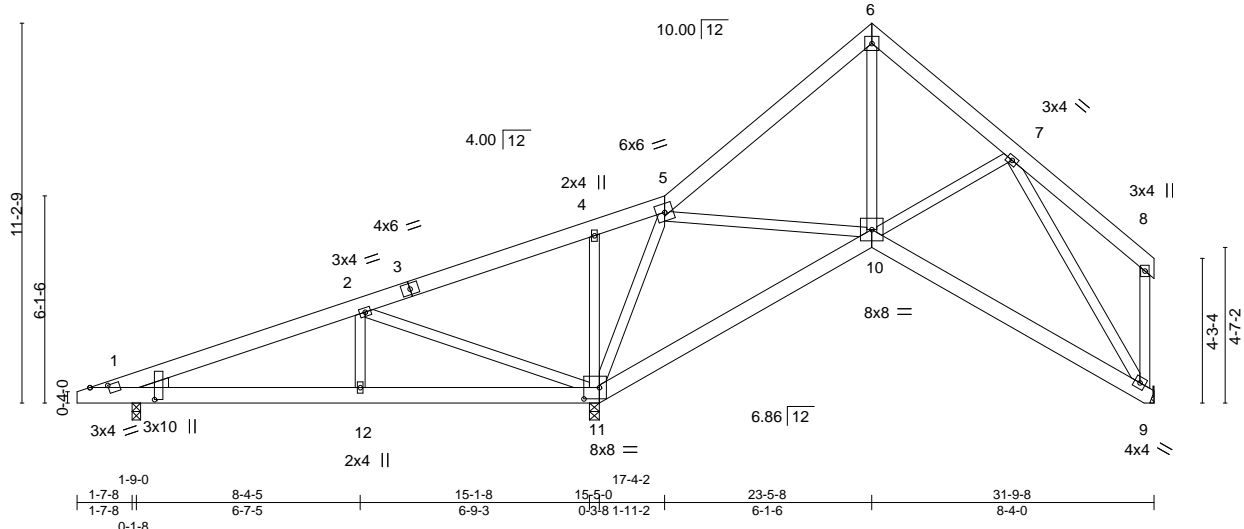


Plate Offsets (X,Y)-- [1:0-4-4,1-10-14], [1:0-6-4,0-1-4], [1:1:0-5-8,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Vert(LL) -0.04 9-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.87	Vert(CT) -0.09 9-10 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.02 9 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.05 1-12 >999 240	Weight: 239 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 10-11.

REACTIONS. (size) 11=0-3-8, 1=0-3-0, 9=Mechanical
 Max Horz 1=337(LC 7)
 Max Uplift 11=-474(LC 10), 1=-273(LC 6), 9=-102(LC 11)
 Max Grav 11=1602(LC 1), 1=383(LC 21), 9=470(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-474/422, 2-4=-427/626, 4-5=-334/565, 5-6=-440/124, 6-7=-449/134
 BOT CHORD 1-12=-540/400, 11-12=-540/400, 10-11=-386/357, 9-10=-50/337
 WEBS 2-12=-306/315, 2-11=-931/980, 4-11=-314/237, 5-10=-95/533, 7-9=-514/70,
 5-11=-680/245

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left and right exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 474 lb uplift at joint 11, 273 lb uplift at joint 1 and 102 lb uplift at joint 9.



October 21, 2024

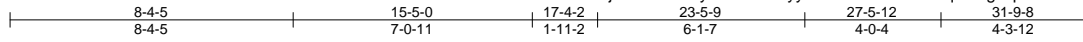
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job B0924-5192	Truss G04	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041300
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:38 2024 Page 1

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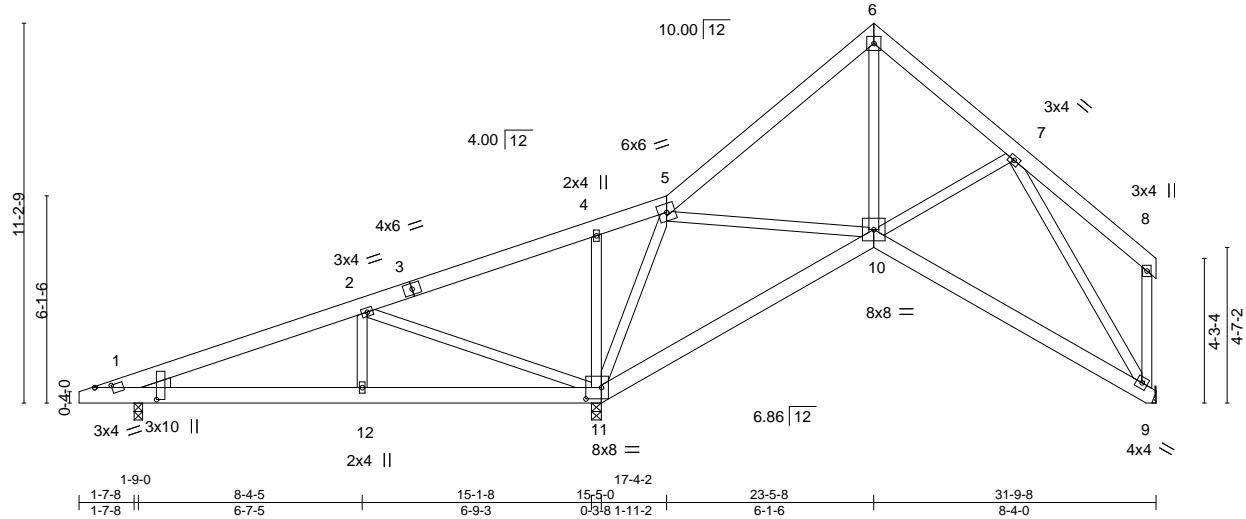


Plate Offsets (X, Y)-- [1:0-4-4,1-9-14], [1:0-5-12,0-1-1], [11:0-5-8,0-4-0]

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 0.25	Vert(LL)	-0.04	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.22	Vert(CT)	-0.09	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	0.02	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.02	1-12	>999		
								Weight: 239 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 10-11.

REACTIONS. (size) 11=0-3-8, 1=0-3-0, 9=Mechanical
 Max Horz 1=337(LC 7)
 Max Uplift 11=-474(LC 10), 1=-147(LC 6), 9=-102(LC 11)
 Max Grav 11=1602(LC 1), 1=383(LC 21), 9=470(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-474/235, 2-4=-282/626, 4-5=-203/565, 5-6=-409/124, 6-7=-413/144
 BOT CHORD 1-12=-228/400, 11-12=-228/400, 10-11=-386/219, 9-10=-62/319
 WEBS 2-12=0/315, 2-11=-931/428, 4-11=-314/231, 5-10=0/533, 7-9=-481/90, 5-11=-681/242

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 474 lb uplift at joint 11, 147 lb uplift at joint 1 and 102 lb uplift at joint 9.



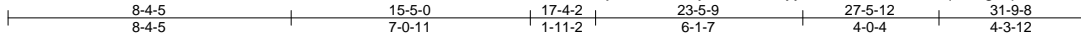
October 21, 2024

Job B0924-5192	Truss G05	Truss Type ROOF SPECIAL	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041301
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:38 2024 Page 1

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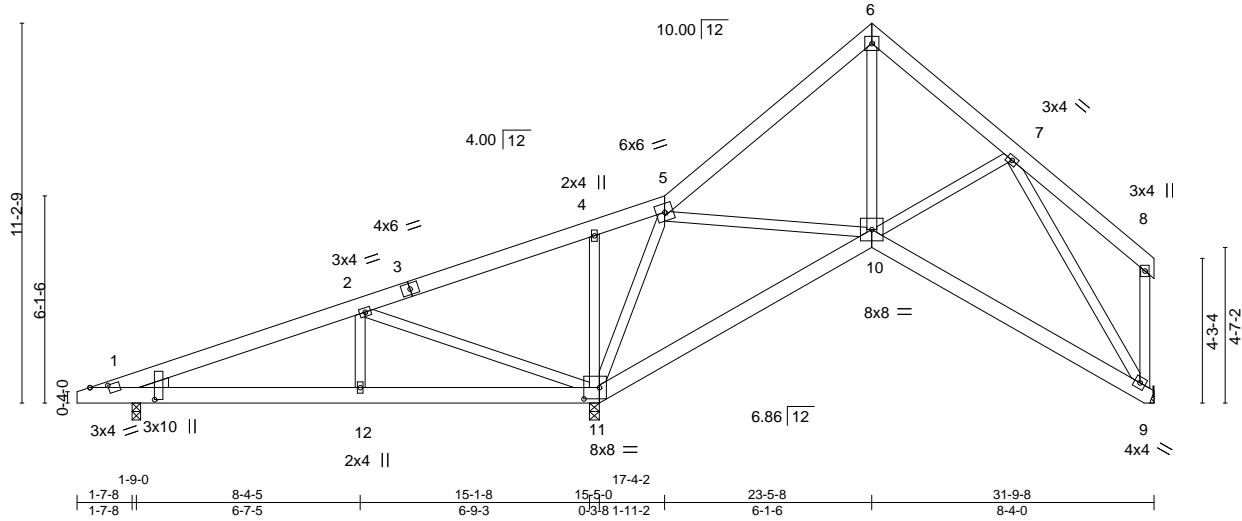


Plate Offsets (X,Y)-- [1:0-4-4,1-10-14], [1:0-6-4,0-1-4], [11:0-5-8,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.35	Vert(LL)	-0.04	9-10	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Vert(CT)	-0.09	9-10	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.87	Horz(CT)	0.02	9	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.05	1-12	>999	Weight: 239 lb	FT = 20%
	Code IRC2015/TPI2014							

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

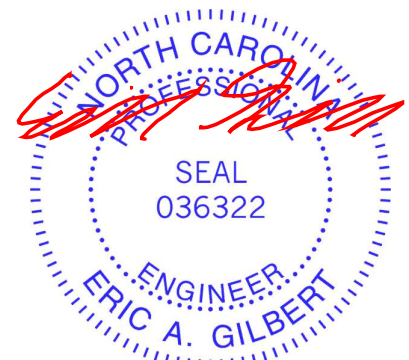
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing. Except: 6-0-0 oc bracing: 10-11.

REACTIONS. (size) 11=0-3-8, 1=0-3-0, 9=Mechanical
 Max Horz 1=337(LC 7)
 Max Uplift 11=-474(LC 10), 1=-273(LC 6), 9=-102(LC 11)
 Max Grav 11=1602(LC 1), 1=383(LC 21), 9=470(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-474/422, 2-4=-427/626, 4-5=-334/565, 5-6=-440/124, 6-7=-449/134
 BOT CHORD 1-12=-540/400, 11-12=-540/400, 10-11=-386/357, 9-10=-50/337
 WEBS 2-12=-306/315, 2-11=-931/980, 4-11=-314/237, 5-10=-95/533, 7-9=-514/70,
 5-11=-680/245

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 5) Refer to girder(s) for truss to truss connections.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 474 lb uplift at joint 11, 273 lb uplift at joint 1 and 102 lb uplift at joint 9.



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Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041302
B0924-5192	G06	HALF HIP	1	1		

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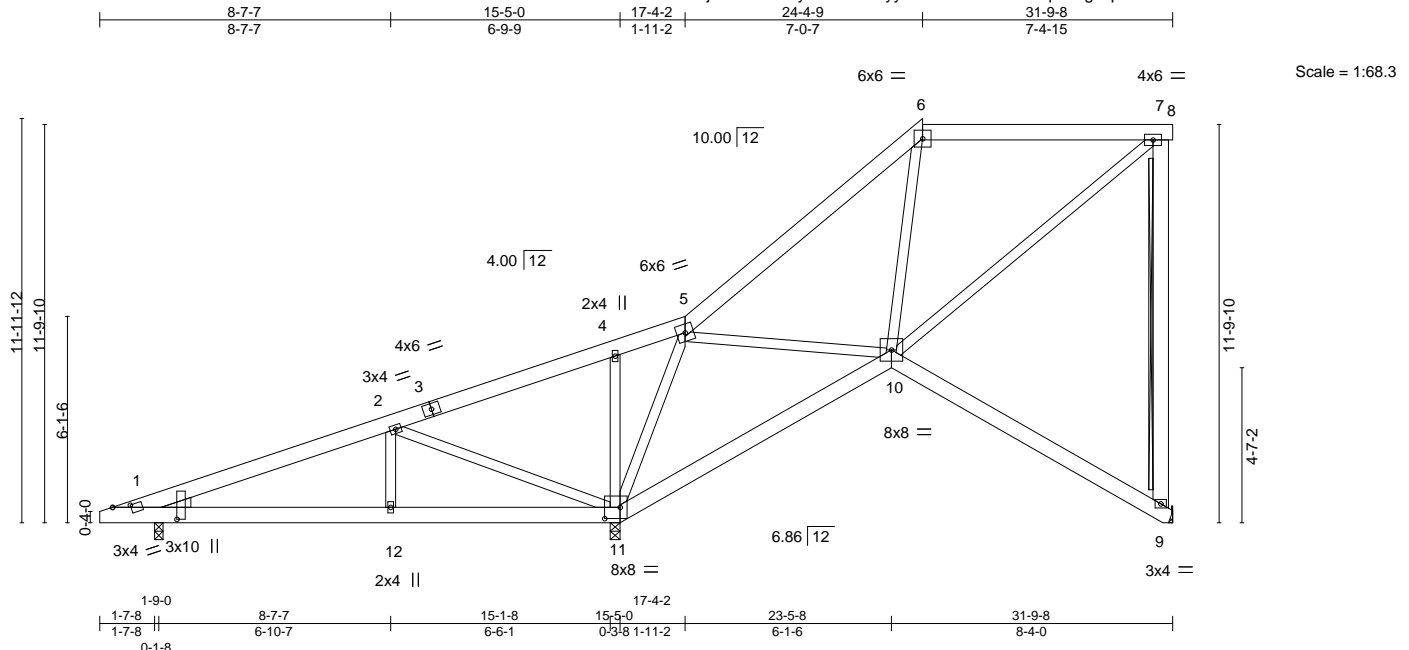


Plate Offsets (X,Y)-- [1:0-4-4,1-10-14], [1:0-6-4,0-1-4], [1:1:0-5-8,0-4-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	Vert(LL)	-0.04	9-10	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	-0.08	9-10	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.80	Horz(CT)	0.02	9	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.02	1-12	>999		
	Code IRC2015/TPI2014						Weight: 251 lb	FT = 20%

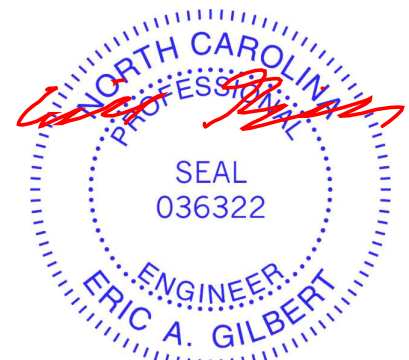
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
7-9: 2x6 SP No.1
WEDGE
Left: 2x4 SP No.1

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

REACTIONS. (size) 11=0-3-8, 1=0-3-0, 9=Mechanical
Max Horz 1=532(LC 10)
Max Uplift 11=475(LC 10), 1=102(LC 6), 9=193(LC 7)
Max Grav 11=1578(LC 1), 1=371(LC 21), 9=498(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-412/94, 2-4=-465/620, 4-5=-386/590, 5-6=-414/52, 6-7=-308/180, 7-9=-428/273
BOT CHORD 1-12=-309/339, 11-12=-309/339, 10-11=-343/150
WEBS 2-12=0/316, 2-11=-916/432, 4-11=-272/230, 5-10=-121/490, 6-10=-263/241, 7-10=-230/391, 5-11=-707/338

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 475 lb uplift at joint 11, 102 lb uplift at joint 1 and 193 lb uplift at joint 9.
 - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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Job B0924-5192	Truss G07	Truss Type HALF HIP	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041303
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Comtech, Inc. Fayetteville, NC - 28314,

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ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

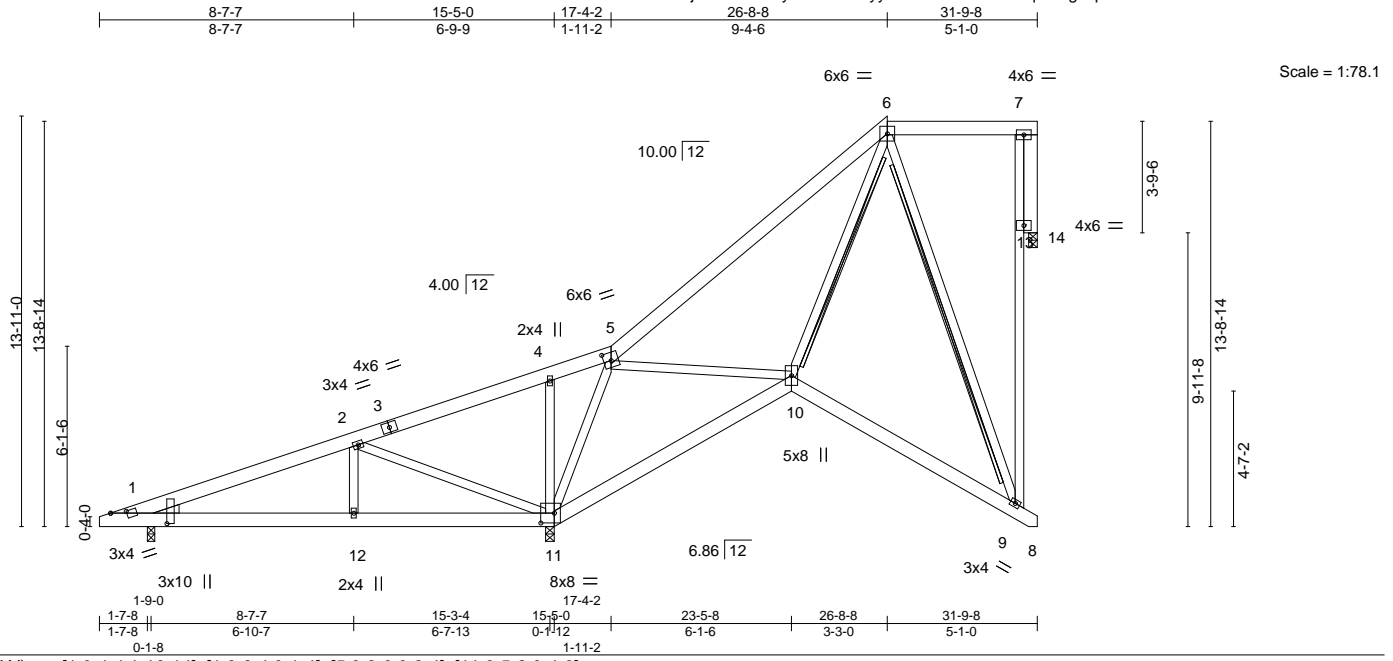


Plate Offsets (X,Y)--	[1:0-4-4,1-10-14], [1:0-6-4,0-1-4], [5:0-3-0,0-3-4], [11:0-5-8,0-4-0]
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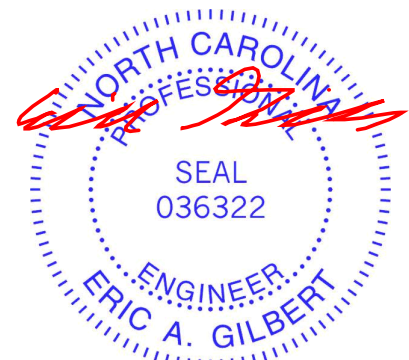
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.38	Vert(LL)	-0.04	9-10	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.09	9-10	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.81	Horz(CT)	0.12	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.02	1-12	>999	Weight: 262 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, Except: 6-0-0 oc bracing: 10-11.
WEBS 2x4 SP No.2 *Except* 7-13: 2x6 SP No.1	WEBS T-Brace: 2x4 SP No.3 - 6-10, 6-9 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.
WEDGE Left: 2x4 SP No.1	

REACTIONS. (size) 11=0-3-8, 1=0-3-0, 14=0-3-8
 Max Horz 1=623(LC 10)
 Max Uplift 11=522(LC 10), 1=-124(LC 6), 14=-174(LC 10)
 Max Grav 11=1681(LC 1), 1=318(LC 1), 14=414(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-376/244, 2-4=-619/876, 4-5=-560/871, 5-6=-319/39, 9-13=-214/451, 7-13=-214/451
 BOT CHORD 1-12=-311/199, 11-12=-311/199, 10-11=-474/115
 WEBS 2-12=0/317, 2-11=-929/443, 5-11=-840/428, 5-10=-102/491, 6-9=-491/331, 7-14=-432/225

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Bearing at joint(s) 14 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 522 lb uplift at joint 11, 124 lb uplift at joint 1 and 174 lb uplift at joint 14.
 - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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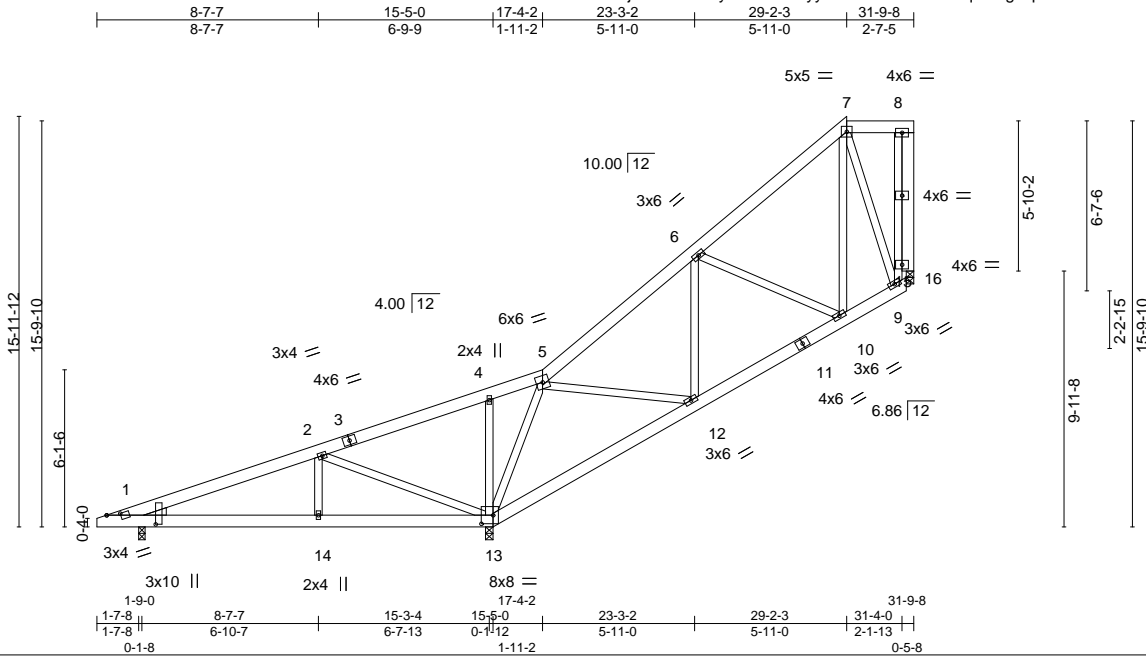
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041304
B0924-5192	G08	HALF HIP	1	1		

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Scale = 1:89.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) -0.03 12-13 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.81	Vert(CT) -0.06 12-13 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.01 16 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 1-14 >999 240	Weight: 261 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
8-15: 2x6 SP No.1
WEDGE
Left: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 12-13.

REACTIONS. (size) 13=0-3-8, 1=0-3-0, 16=0-3-8
Max Horz 1=720(LC 10)
Max Uplift 13=-436(LC 10), 1=-122(LC 6), 16=-308(LC 10)
Max Grav 13=1592(LC 1), 1=366(LC 1), 16=491(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-471/160, 2-4=-570/753, 4-5=-485/705, 5-6=-440/0, 6-7=-308/40, 9-15=-321/560, 8-15=-321/560
BOT CHORD 1-14=-388/344, 13-14=-388/344, 12-13=-366/129, 10-12=-349/519
WEBS 2-14=0/320, 2-13=-918/434, 4-13=-307/210, 5-12=-197/555, 6-12=-252/225, 6-10=-277/199, 7-10=-132/308, 7-9=-437/262, 5-13=-691/247, 8-16=-569/317

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 436 lb uplift at joint 13, 122 lb uplift at joint 1 and 308 lb uplift at joint 16.



Job B0924-5192	Truss G09	Truss Type ROOF SPECIAL	Qty 2	Ply 1	Lot 6 River Road Job Reference (optional)	169041305
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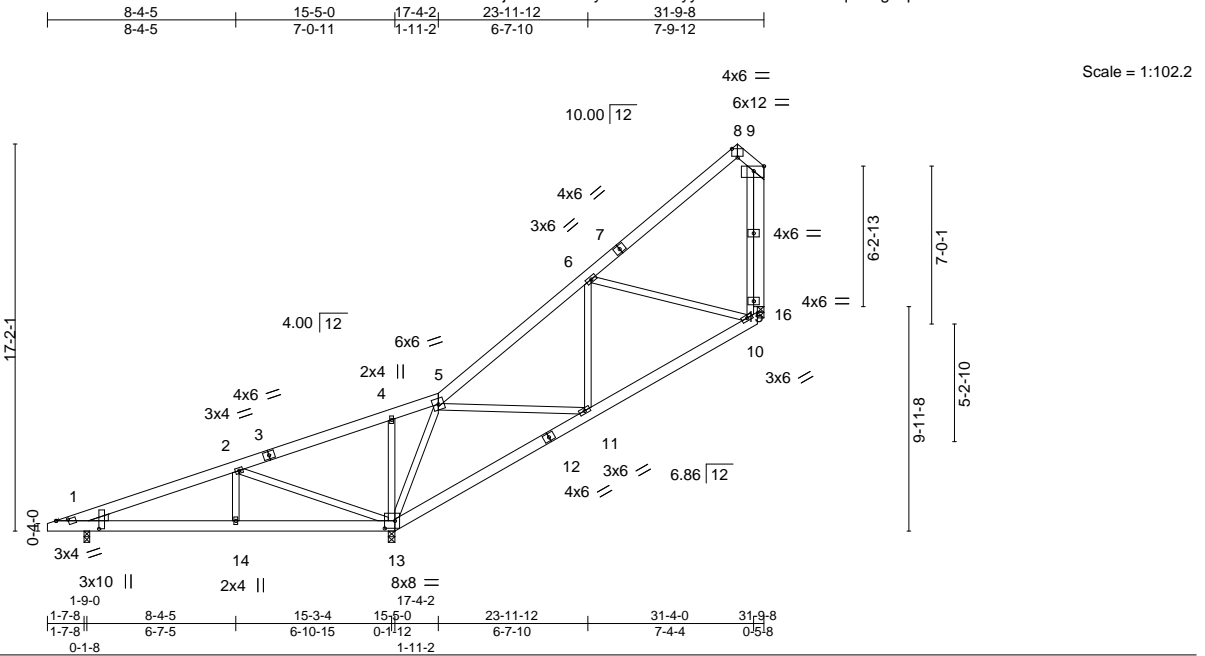


Plate Offsets (X,Y)-- [1:0-4-4,1-10-14], [1:0-6-4,0-1-4], [8:0-3-0,Edge], [9:0-5-8,Edge], [13:0-5-8,0-4-0]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.24	Vert(LL)	-0.04 11-13	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.07 11-13	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.87	Horz(CT)	-0.02 16	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.02 1-14	>999	240	Weight: 250 lb	FT = 20%

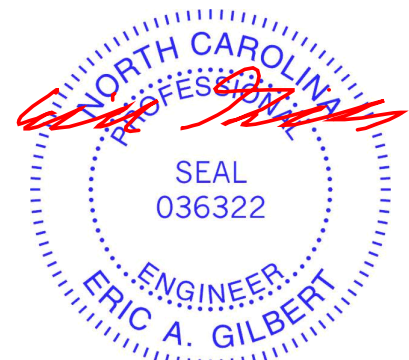
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
9-15: 2x6 SP No.1
WEDGE
Left: 2x4 SP No.1

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 11-13.

REACTIONS. (size) 13=0-3-8, 1=0-3-0, 16=0-3-8
Max Horz 1=767(LC 10)
Max Uplift 13=400(LC 10), 1=-121(LC 6), 16=-377(LC 10)
Max Grav 13=1569(LC 1), 1=378(LC 21), 16=574(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-518/159, 2-4=-578/727, 4-5=-493/678, 5-6=-494/0, 10-15=-234/458, 9-15=-234/458
BOT CHORD 1-14=-434/414, 13-14=-434/414, 11-13=-337/151, 10-11=-384/588
WEBS 2-14=0/316, 2-13=-927/440, 4-13=-324/228, 5-11=-183/552, 6-10=-437/282, 5-13=-687/230, 9-16=-646/379

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Bearing at joint(s) 16 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 400 lb uplift at joint 13, 121 lb uplift at joint 1 and 377 lb uplift at joint 16.



Job B0924-5192	Truss H01	Truss Type ATTIC TRUSS	Qty 1	Ply 3	Lot 6 River Road Job Reference (optional)	169041306
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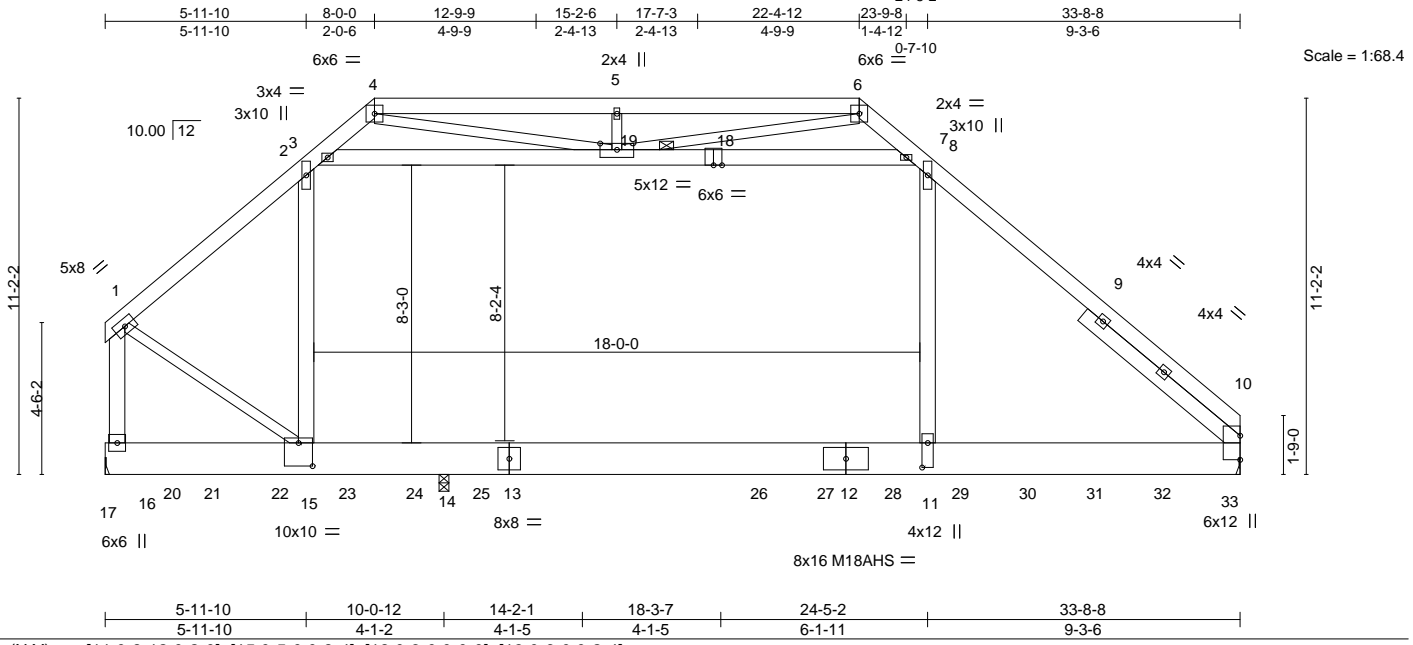


Plate Offsets (X,Y)--	[11:0-8-12,0-2-0], [15:0-5-0,0-8-4], [18:0-3-0,0-0-0], [19:0-6-0,0-2-4]
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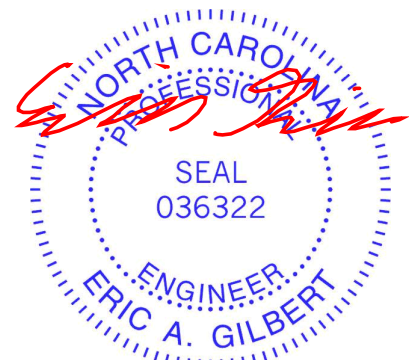
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.68	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.71	Vert(LL) -0.29 11-14 >971 360	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.54	Vert(CT) -0.70 11-14 >408 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.02 10 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.17 11-14 >999 240	Weight: 1167 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 2x12 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
WEBS 2x6 SP No.1 *Except*	6-0-0 oc bracing: 15-16.
1-15,5-19,6-19,4-19: 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 19
SLIDER Right 2x6 SP No.1 6-0-6	

REACTIONS. (size) 10=Mechanical, 16=Mechanical, 14=0-3-8
 Max Horz 16=-319(LC 29)
 Max Uplift 10=-992(LC 9), 16=-1954(LC 9)
 Max Grav 10=6591(LC 2), 16=5290(LC 2), 14=3697(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-6713/711, 2-3=-4533/458, 3-4=-401/623, 4-5=-1995/677, 5-6=-1995/677,
 6-7=-1278/228, 7-8=-4294/543, 8-10=-7442/468, 1-16=-8082/783
 BOT CHORD 15-16=-350/254, 14-15=-123/5207, 11-14=-123/5207, 10-11=-123/5207
 WEBS 1-15=-451/6592, 2-15=-494/3177, 8-11=-6/4318, 3-19=-5745/446, 7-19=-3886/717,
 5-19=-401/284, 6-19=-726/693, 4-19=-147/2231

- 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: 2x12 - 4 rows staggered at 0-4-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 2-3, 7-8, 3-19, 7-19; Wall dead load (5.0psf) on member(s).2-15, 8-11
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-15, 11-14
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 992 lb uplift at joint 10 and 1954 lb uplift at joint 16.



October 21, 2024

Continued on page 2

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job B0924-5192	Truss H01	Truss Type ATTIC TRUSS	Qty 1	Ply 3	Lot 6 River Road I69041306 Job Reference (optional)
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Comtech, Inc, Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:41 2024 Page 2
ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

NOTES-

- 13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 319 lb down and 486 lb up at 1-1-4, 319 lb down and 486 lb up at 3-1-4, 319 lb down and 486 lb up at 5-1-4, 320 lb down and 499 lb up at 7-1-4, 341 lb down and 561 lb up at 9-1-4, 3398 lb down at 11-1-0, 3398 lb down at 19-4-0, 341 lb down and 561 lb up at 21-3-12, 387 lb down and 453 lb up at 23-3-12, 389 lb down and 393 lb up at 25-3-12, 370 lb down and 213 lb up at 27-3-12, 370 lb down and 213 lb up at 29-3-12, and 370 lb down and 213 lb up at 31-3-12, and 392 lb down and 207 lb up at 33-3-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 14) Attic room checked for L/360 deflection.

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-80, 3-4=-60, 4-6=-60, 6-7=-60, 7-8=-80, 8-10=-60, 15-17=-20, 11-15=-40, 10-11=-20, 3-7=-20

Drag: 2-15=-10, 8-11=-10

Concentrated Loads (lb)

Vert: 20=-319(B) 21=-319(B) 22=-319(B) 23=-320(B) 24=-341(B) 25=-3032(B) 26=-3032(B) 27=-341(B) 28=-295(B) 29=-325(B) 30=-320(B) 31=-320(B) 32=-320(B) 33=-326(B)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



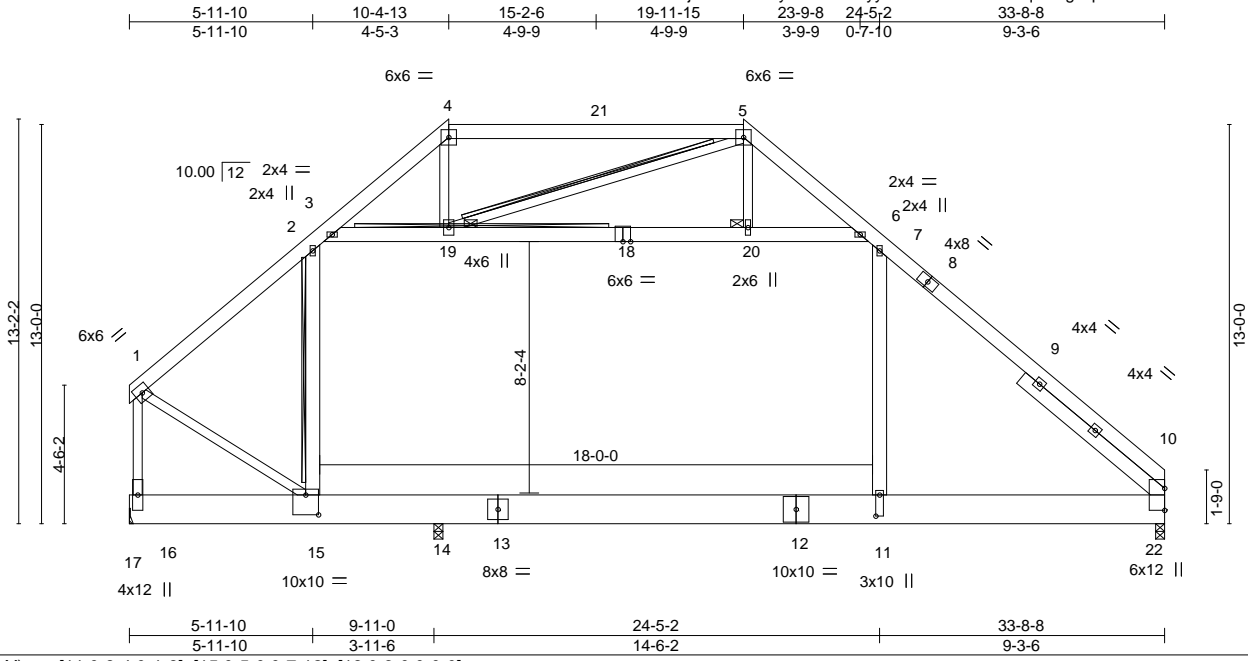
818 Soundside Road
Edenton, NC 27932

Job B0924-5192	Truss H02	Truss Type ATTIC TRUSS	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041307
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:42 2024 Page 1

ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKwRCDoi7J4zJC?f



Scale = 1:75.0

Plate Offsets (X,Y)--	[11:0-8-4,0-1-8], [15:0-5-0,0-7-12], [18:0-3-0,0-0-0]				
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 0.69	Vert(LL) -0.30 11-14 >948 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.54	Vert(CT) -0.51 11-14 >557 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.02 10 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.15 11-14 >999 240	Weight: 390 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-7-11 oc purlins, except end verticals.
BOT CHORD 2x12 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x6 SP No.1 *Except*	WEBS T-Brace: 2x4 SPF No.2 - 2-15, 19-20, 5-19
SLIDER Right 2x6 SP No.1 6-0-6	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.
	JOINTS 1 Brace at Jt(s): 19, 20

REACTIONS. (size) 10=0-3-8, 16=Mechanical, 14=0-3-8
 Max Horz 16=-357(LC 6)
 Max Uplift 10=-172(LC 11), 16=-256(LC 11), 14=-178(LC 7)
 Max Grav 10=2222(LC 19), 16=2097(LC 19), 14=669(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2461/377, 2-3=-1764/367, 3-4=-992/208, 4-5=-688/226, 5-6=-1013/200, 6-7=-1718/378, 7-10=-2533/219, 1-16=-2929/409
 BOT CHORD 15-16=-326/361, 14-15=0/1728, 11-14=0/1728, 10-11=0/1728
 WEBS 2-15=-235/763, 7-11=0/935, 3-19=-1451/365, 19-20=-1280/310, 6-20=-1273/314, 1-15=-257/2303

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 2-3, 6-7, 3-19, 19-20, 6-20; Wall dead load (5.0psf) on member(s).2-15, 7-11
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 14-15, 11-14
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 172 lb uplift at joint 10, 256 lb uplift at joint 16 and 178 lb uplift at joint 14.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - Attic room checked for L/360 deflection.



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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

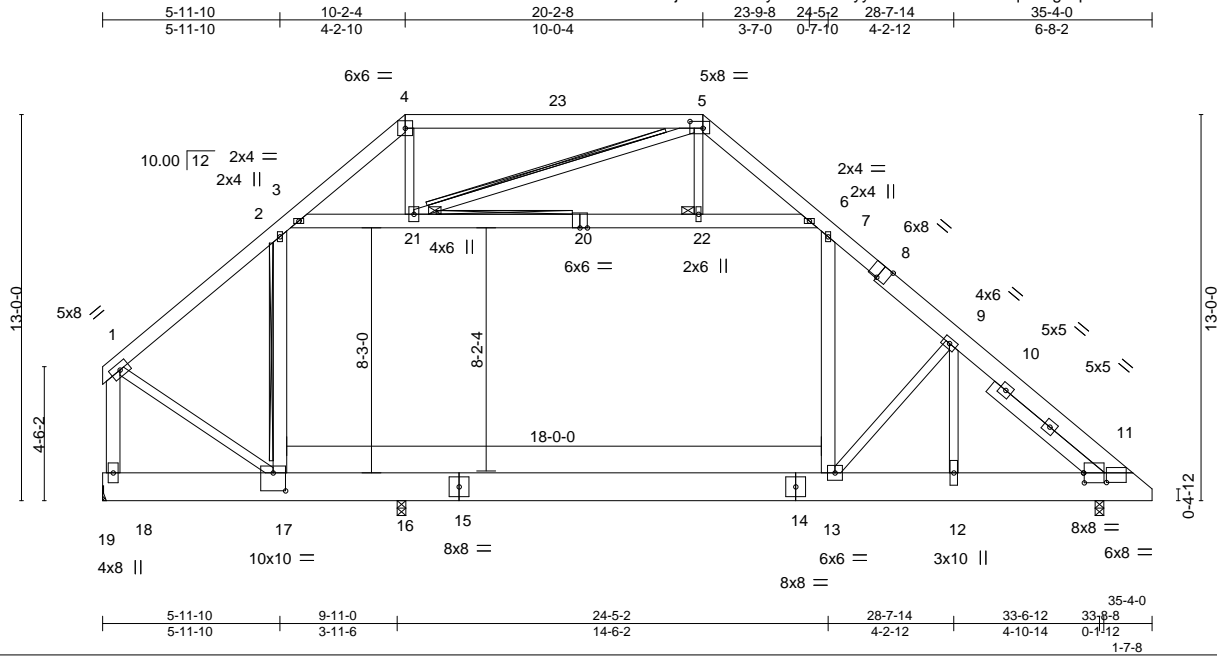
ENGINEERING BY
TRENCO
 A MiTek Affiliate

818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041308
B0924-5192	H03	ATTIC TRUSS	2	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:42 2024 Page 1
 ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:77.6

Plate Offsets (X,Y)--	[5:0-5-4,0-2-12], [8:0-4-0,Edge], [11:0-9-4,0-3-14], [11:0-0-5,0-4-0], [17:0-5-0,0-7-4], [20:0-3-0,0-0-0]
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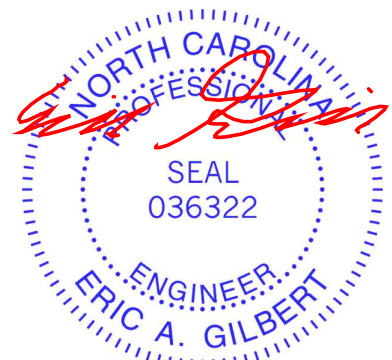
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL)	-0.29	13-16	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.51	Vert(CT)	-0.52	13-16	>561		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.02	11	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.17	13-16	>999		
								Weight: 423 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 8-11: 2x8 SP No.1	TOP CHORD Structural wood sheathing directly applied or 4-7-10 oc purlins, except end verticals.
BOT CHORD 2x12 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except* 2-17,7-13,6-20,1-18,3-20: 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 2-17, 21-22, 5-21 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.
SLIDER Right 2x6 SP No.1 4-9-14	JOINTS 1 Brace at Jt(s): 21, 22


REACTIONS.	(size)
18=Mechanical, 11=0-3-8, 16=0-3-8	
Max Horz 18=-356(LC 11)	
Max Uplift 18=-162(LC 11), 11=-145(LC 11), 16=-112(LC 7)	
Max Grav 18=1953(LC 2), 11=1940(LC 19), 16=766(LC 16)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-2253/259, 2-3=-1685/324, 3-4=-1000/244, 4-5=-699/247, 5-6=-1052/252, 6-7=-1632/319, 7-9=-2301/239, 9-11=-2622/219, 1-18=-2734/272
BOT CHORD	17-18=-335/363, 16-17=0/1622, 13-16=0/1622, 12-13=-34/1911, 11-12=-34/1908
WEBS	2-17=-162/625, 7-13=0/845, 3-21=-1287/240, 21-22=-1058/141, 6-22=-1065/136, 1-17=-143/2151, 9-12=-82/339, 9-13=-603/351

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 2-3, 6-7, 3-21, 21-22, 6-22: Wall dead load (5.0psf) on member(s).2-17, 7-13
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 16-17, 13-16
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 162 lb uplift at joint 18, 145 lb uplift at joint 11 and 112 lb uplift at joint 16.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - Attic room checked for L/360 deflection.



October 21, 2024

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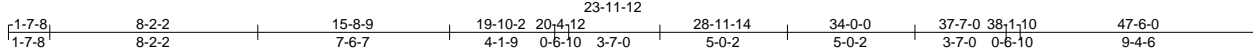
Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041309
B0924-5192	H04	ATTIC	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:43 2024 Page 1

ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

Job Reference (optional)



Scale = 1:90.5

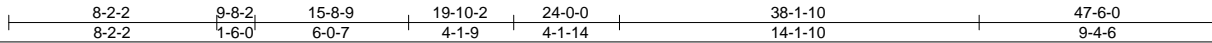
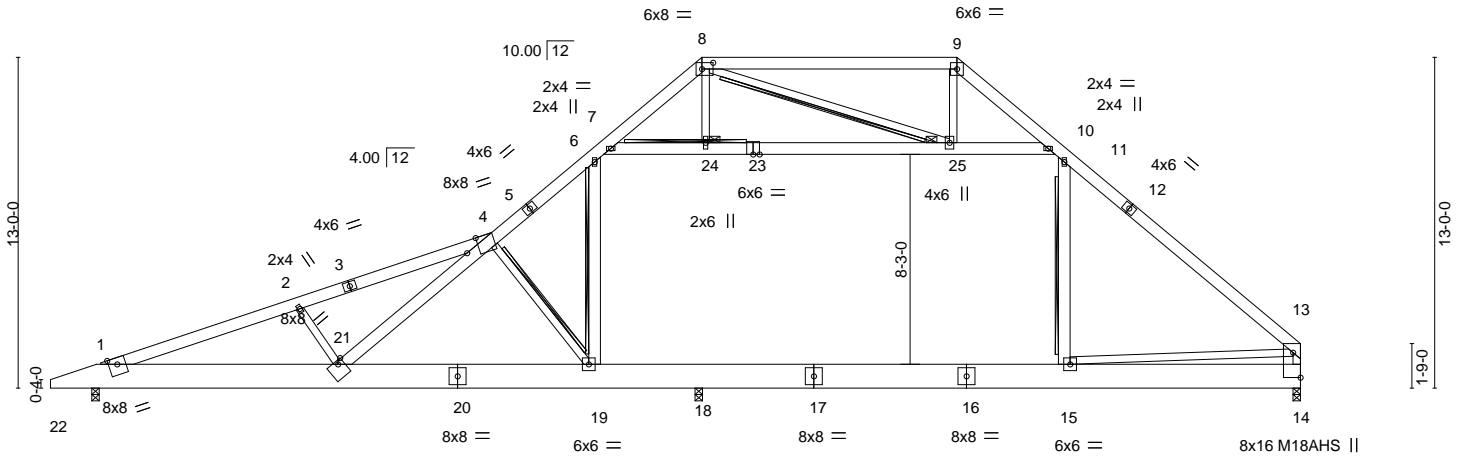


Plate Offsets (X, Y)--	[4:0-6-0,Edge], [8:0-5-4,0-3-0], [14:Edge,0-3-8], [21:0-2-10,0-1-11], [23:0-3-0,0-0-0]
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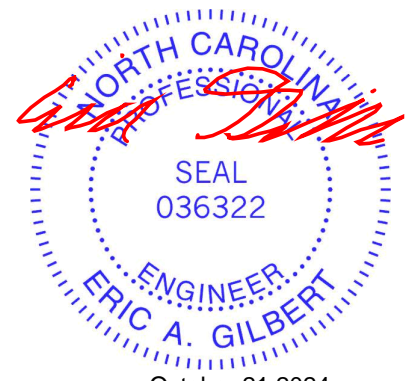
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15		TC 0.60	Vert(LL) -0.22	15-18	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 1.00	Vert(CT) -0.34	19-21	>882	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr NO		WB 0.44	Horz(CT) 0.04	14	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL) 0.25	19-21	>999	240		
								Weight: 511 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-6-6 oc purlins, except end verticals.
BOT CHORD 2x12 SP No.1 *Except* 20-22: 2x12 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 5-1-7 oc bracing.
WEBS 2x4 SP No.2 *Except* 6-19,11-15,7-23,10-23: 2x6 SP No.1	WEBS T-Brace: 2x4 SP No.3 - 4-19, 6-19, 11-15, 24-25, 8-25 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.
	JOINTS 1 Brace at Jt(s): 24, 25

REACTIONS. (size) 22=0-3-8, 14=0-3-8, 18=0-3-8
 Max Horz 22=391(LC 5)
 Max Uplift 22=-424(LC 4), 14=-99(LC 9), 18=-279(LC 5)
 Max Grav 22=1348(LC 2), 14=1928(LC 17), 18=2329(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-3899/991, 2-4=-3748/965, 4-21=-816/1580, 4-6=-2383/313, 6-7=-1667/219,
 7-8=-1002/203, 8-9=-677/148, 9-10=-973/178, 10-11=-1654/223, 11-13=-2280/36,
 13-14=-1796/102
 BOT CHORD 1-22=-391/211, 1-21=-770/3610, 19-21=-38/2691, 18-19=0/1627, 15-18=0/1627,
 14-15=-195/434
 WEBS 4-19=-1770/468, 6-19=-241/753, 11-15=-98/646, 7-24=-1360/319, 24-25=-1353/324,
 10-25=-1334/342, 13-15=0/1266, 2-21=-265/312

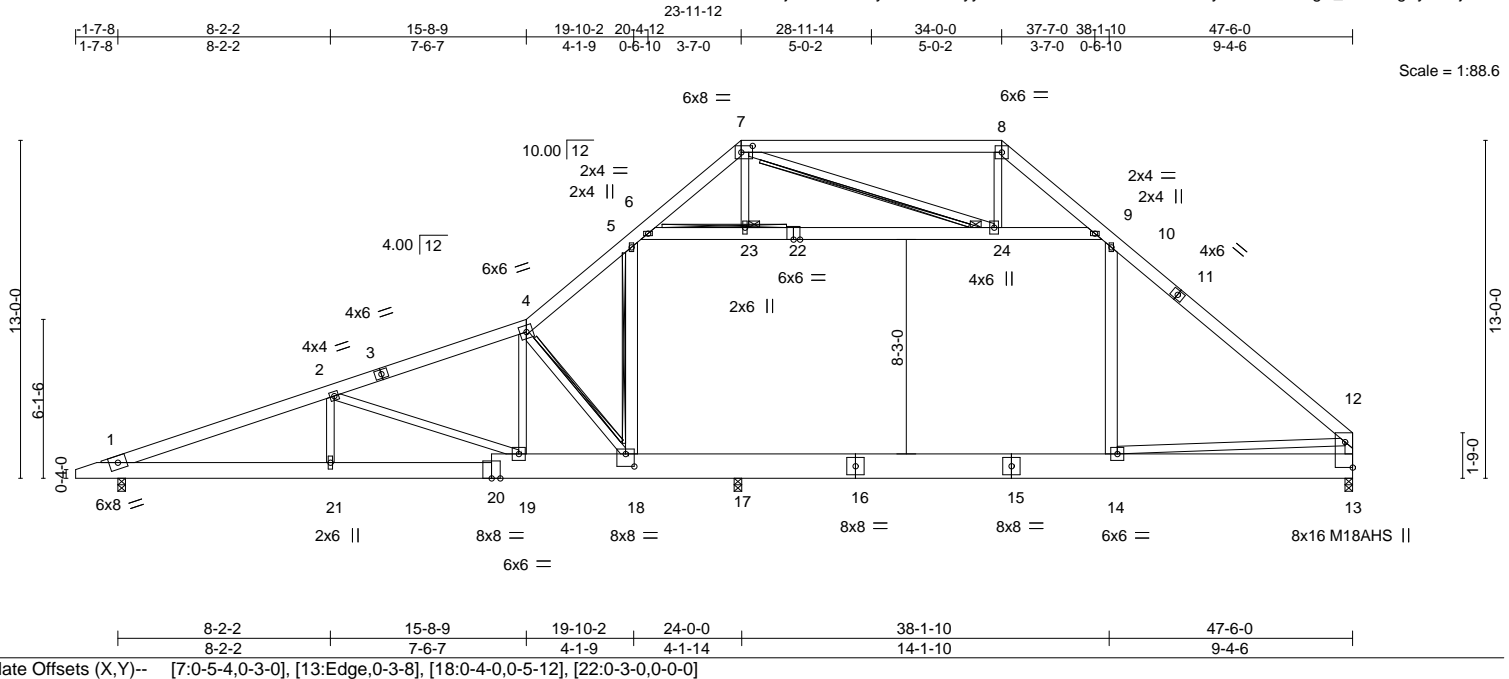
- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed ; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) All plates are MT20 plates unless otherwise indicated.
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 7) Ceiling dead load (10.0 psf) on member(s). 4-6, 6-7, 10-11, 7-24, 24-25, 10-25; Wall dead load (5.0psf) on member(s).6-19, 11-15
 - 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-19, 15-18
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 424 lb uplift at joint 22, 99 lb uplift at joint 14 and 279 lb uplift at joint 18.
 - 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - 12) Attic room checked for L/360 deflection.



Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041310
B0924-5192	H05	ATTIC	2	1		

Comtech, Inc., Fayetteville, NC 28309, Builders FirsSource (Albermarle)

ID:1j0aUZI522uyMJe9JV52yy9ks9-QzVNUZ4mXsCr7mN18nyK8bH5YdaSgC_CPZnZgAyRDhj
8.630 s Jun 15 2023 MiTek Industries, Inc. Mon Oct 21 10:04:48 2024 Page 1



Scale = 1:88.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.55	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.83	Vert(LL) -0.20 14-17 >999 360	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.88	Vert(CT) -0.29 14-17 >959 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.05 13 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.15 18-19 >999 240		
				Weight: 487 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-8-15 oc purlins, except end verticals.
BOT CHORD 2x12 SP No.1 *Except* 1-20: 2x8 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-3-5 oc bracing.
WEBS 2x4 SP No.2 *Except* 5-18,10-14,6-22,9-22: 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 4-18, 5-18, 23-24, 7-24 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.	JOINTS
(size) 13=0-3-8, 1=0-3-8, 17=0-3-8	1 Brace at Jt(s) 23, 24
Max Horz 1=402(LC 7)	
Max Uplift 13=-99(LC 11), 1=-468(LC 6), 17=-263(LC 7)	
Max Grav 13=1953(LC 19), 1=1468(LC 1), 17=2187(LC 24)	

FORCES.	SEAL
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.	036322
TOP CHORD 1-2=-3547/1528, 2-4=-2834/794, 4-5=-2455/320, 5-6=-1699/232, 6-7=-1001/237, 7-8=-676/179, 8-9=-972/204, 9-10=-1690/261, 10-12=-2337/39, 12-13=-1838/104	
BOT CHORD 1-21=-1454/3275, 19-21=-1455/3275, 18-19=-580/2613, 17-18=0/1671, 14-17=0/1671, 13-14=-193/429	
WEBS 2-21=-234/304, 2-19=-833/902, 4-19=-1030/1027, 4-18=-1886/1282, 5-18=-250/809, 10-14=-41/676, 6-23=-1396/319, 23-24=-1388/323, 9-24=-1382/345, 12-14=0/1314	

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone; cantilever left exposed ; porch left 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.
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Ceiling dead load (10.0 psf) on member(s). 4-5, 5-6, 9-10, 6-23, 23-24, 9-24; Wall dead load (5.0psf) on member(s).5-18, 10-14
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 17-18, 14-17
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 99 lb uplift at joint 13, 468 lb uplift at joint 1 and 263 lb uplift at joint 17.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.
 - Attic room checked for L/360 deflection.



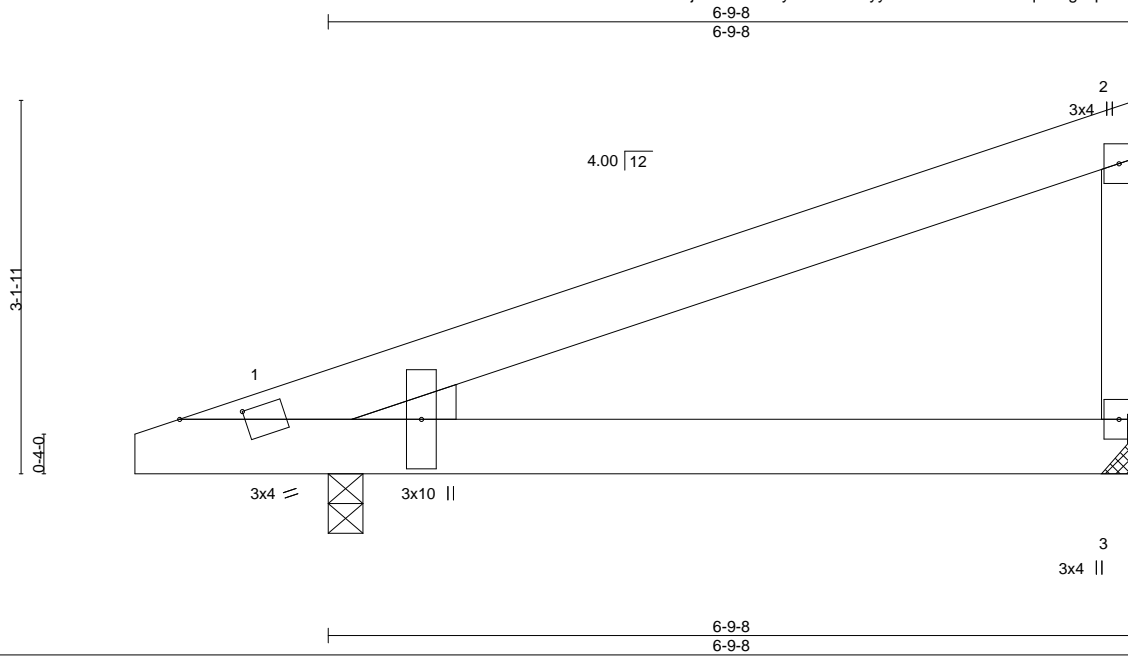
October 21, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job B0924-5192	Truss J01	Truss Type MONOPITCH	Qty 7	Ply 1	Lot 6 River Road Job Reference (optional)	I69041311
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:44 2024 Page 1
ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:19.4

Plate Offsets (X,Y)--	[1:0-6-4,0-1-4]								
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 0.32	Vert(LL)	-0.04	1-3	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.07	1-3	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL)	0.00	1	****	Weight: 44 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-9-8 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	
WEDGE	
Left: 2x4 SP No.1	

REACTIONS. (size) 1=0-3-8, 3=Mechanical
 Max Horz 1=123(LC 6)
 Max Uplift 1=66(LC 6), 3=111(LC 6)
 Max Grav 1=285(LC 1), 3=285(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 66 lb uplift at joint 1 and 111 lb uplift at joint 3.



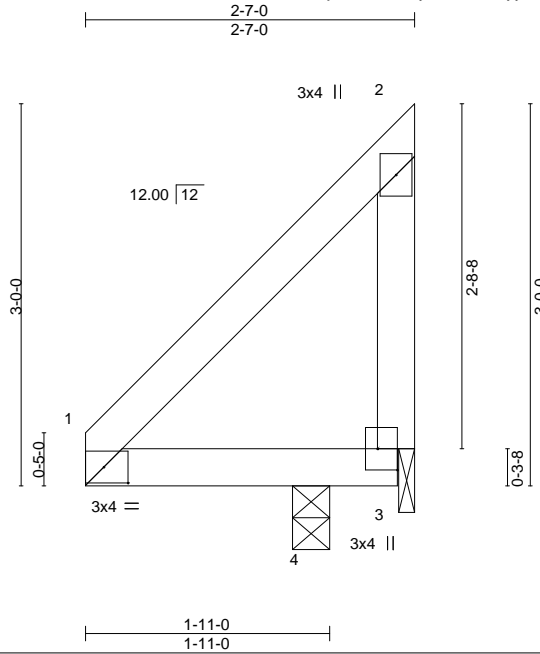
October 21, 2024

Job B0924-5192	Truss J02	Truss Type MONOPITCH TRUSS	Qty 3	Ply 1	Lot 6 River Road Job Reference (optional)	I69041312
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:44 2024 Page 1

ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



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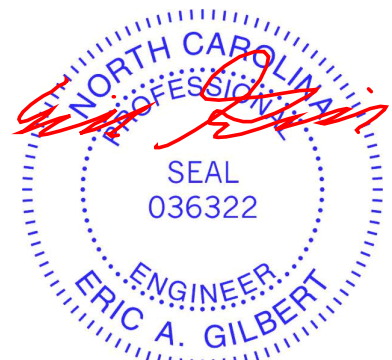
Plate Offsets (X,Y)--	[1:0-2-4,0-1-8], [3:Edge,0-1-14]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.09	Vert(LL) 0.00 4 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.21	Vert(CT) 0.00 4 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) -0.00 3 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.00 4 >999 240	Weight: 13 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-7-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 4=0-3-8, 3=0-1-8
 Max Horz 4=117(LC 10)
 Max Uplift 3=208(LC 19)
 Max Grav 4=356(LC 1), 3=17(LC 6)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 4) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 208 lb uplift at joint 3.



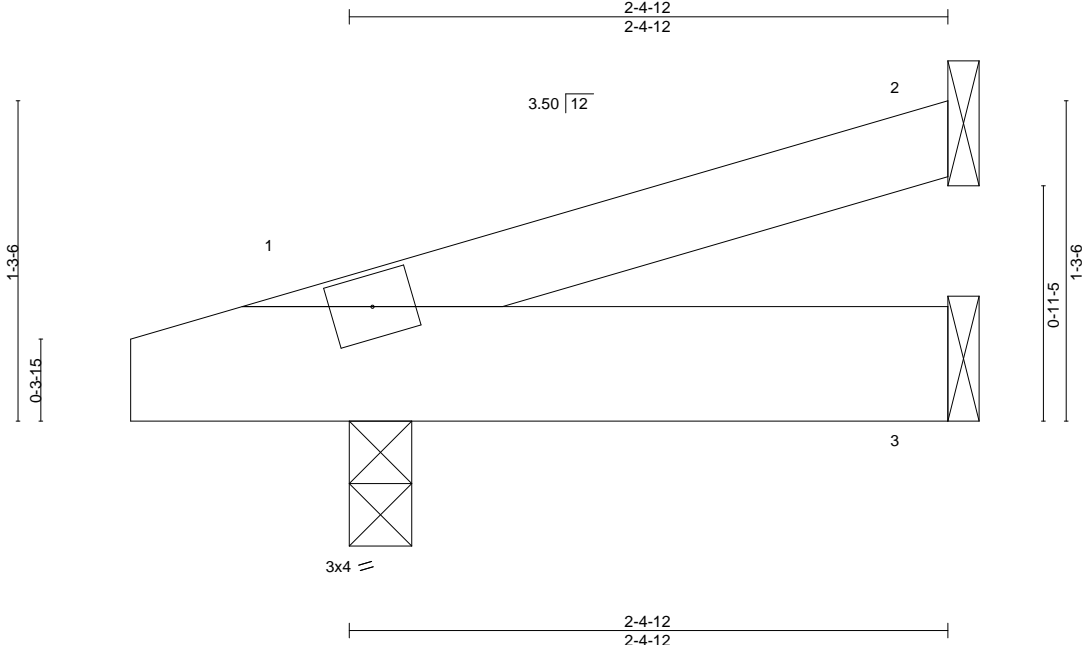
October 21, 2024

Job B0924-5192	Truss J03	Truss Type JACK-OPEN TRUSS	Qty 2	Ply 1	Lot 6 River Road Job Reference (optional)	I69041313
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:45 2024 Page 1

ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.10	Vert(LL)	-0.00	1	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.02	Vert(CT)	-0.00	1-3	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	2	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	1	****	Weight: 12 lb	FT = 20%
	Code IRC2015/TPI2014							

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 2-4-12 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 2=Mechanical, 3=Mechanical, 1=0-3-0
 Max Horz 1=54(LC 6)
 Max Uplift 2=70(LC 6), 1=39(LC 6)
 Max Grav 2=75(LC 1), 3=50(LC 3), 1=100(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 70 lb uplift at joint 2 and 39 lb uplift at joint 1.

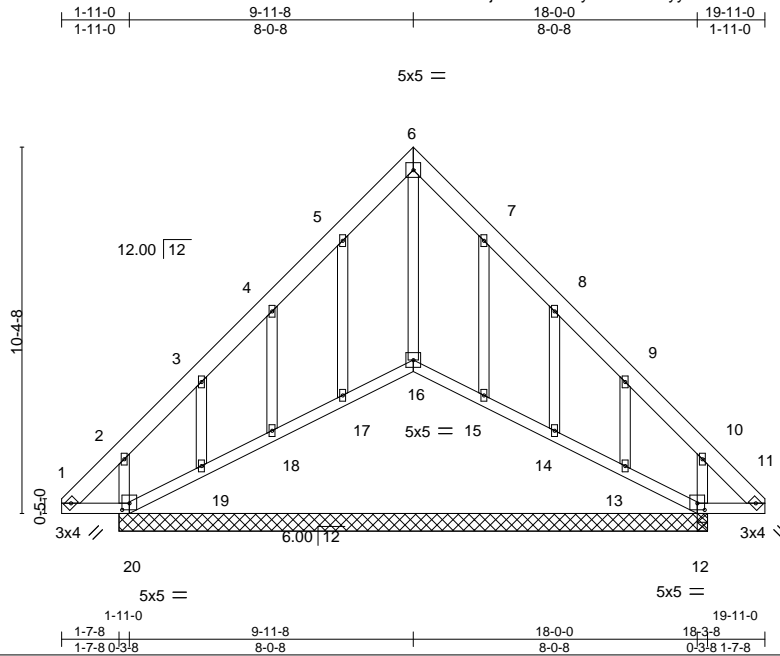


October 21, 2024

Job B0924-5192	Truss K01	Truss Type GABLE	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041314
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:45 2024 Page 1
ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:65.3

Plate Offsets (X,Y)--	[12:0-2-8,0-2-4], [20:0-2-8,0-2-4]				
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 0.13	Vert(LL) -0.00 19-20 >999 240	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.08	Vert(CT) -0.00 19-20 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.24	Horz(CT) 0.01 12 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S		Weight: 143 lb	FT = 20%

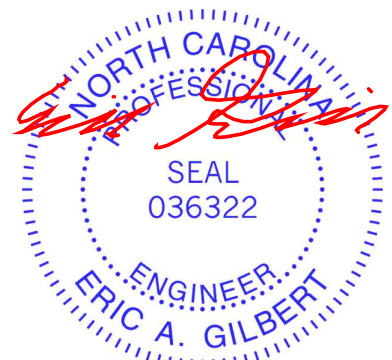
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 16-8-0.
(lb) - Max Horz 20=297(LC 7)
Max Uplift All uplift 100 lb or less at joint(s) 16 except 20=322(LC 6), 12=169(LC 10), 17=103(LC 10), 18=137(LC 10), 19=283(LC 10), 15=101(LC 11), 14=140(LC 11), 13=271(LC 11)
Max Grav All reactions 250 lb or less at joint(s) 12, 17, 18, 15, 14 except 20=412(LC 18), 16=601(LC 11), 12=285(LC 17), 19=330(LC 8), 13=312(LC 9)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-236/279, 4-5=-242/337, 5-6=-317/378, 6-7=-317/373, 7-8=-242/325, 9-10=-210/253
WEBS 6-16=-425/294, 2-20=-255/195, 3-19=-251/274, 9-13=-241/265

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16 except (jt=lb) 20=322, 12=169, 17=103, 18=137, 19=283, 15=101, 14=140, 13=271.



October 21, 2024

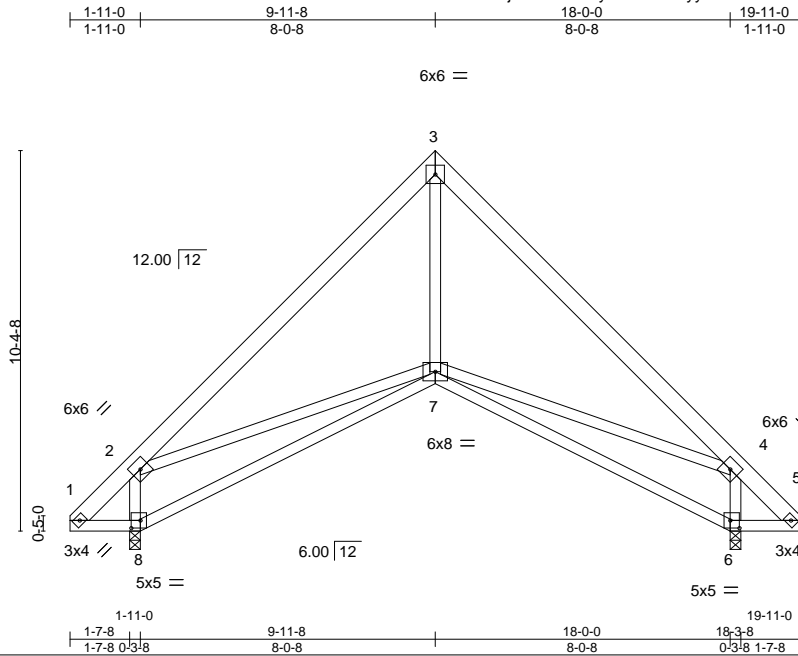
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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

Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041315
B0924-5192	K02	SPECIAL TRUSS	2	1		
					Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:46 2024 Page 1
 ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:62.8

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

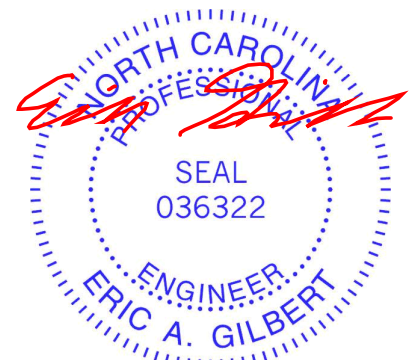
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.39	Vert(LL) -0.13 7-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.25	Vert(CT) -0.26 7-8 >748 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 6 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.01 7-8 >999 240	Weight: 136 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 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-2-9 oc bracing.
WEBS 2x4 SP No.2	


REACTIONS. (size) 8=0-3-8, 6=0-3-8
 Max Horz 8=297(LC 9)
 Max Uplift 8=-146(LC 10), 6=-146(LC 11)
 Max Grav 8=792(LC 1), 6=792(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-839/112, 3-4=-899/206
 BOT CHORD 7-8=-448/519
 WEBS 3-7=-37/587, 4-7=-188/609, 4-6=-726/404, 2-7=-20/493, 2-8=-760/412

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=146, 6=146.



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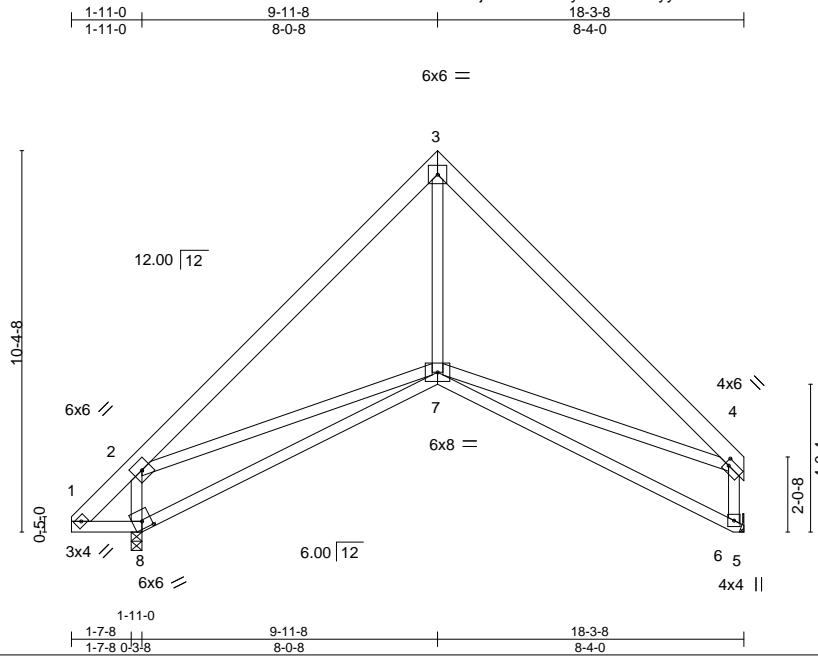
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p>  <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job B0924-5192	Truss K03	Truss Type SPECIAL TRUSS	Qty 4	Ply 1	Lot 6 River Road Job Reference (optional)	169041316
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Comtech, Inc. Fayetteville, NC - 28314,

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Scale = 1:62.7

Plate Offsets (X,Y)--	[4:0-1-4,0-2-0], [8:0-3-0,0-2-7]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.40	Vert(LL)	-0.13	7-8	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.39	Vert(CT)	-0.26	7-8	>731		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.19	Horz(CT)	0.03	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.01	7-8	>999	Weight: 129 lb	FT = 20%
	Code IRC2015/TPI2014							

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 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 9-0-11 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 8=0-3-8, 6=Mechanical
 Max Horz 8=291(LC 7)
 Max Uplift 8=144(LC 10), 6=138(LC 10)
 Max Grav 8=802(LC 1), 6=639(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-859/171, 3-4=-887/243, 4-6=-615/246
 BOT CHORD 7-8=-464/495
 WEBS 2-8=-757/444, 2-7=-2/496, 3-7=-38/575, 4-7=-148/502

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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 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) 8=144, 6=138.



October 21, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p>TRENCO</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job B0924-5192	Truss K04	Truss Type COMMON TRUSS	Qty 1	Ply 2	Lot 6 River Road Job Reference (optional)	169041317
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Comtech, Inc. Fayetteville, NC - 28314,

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5x8 ||

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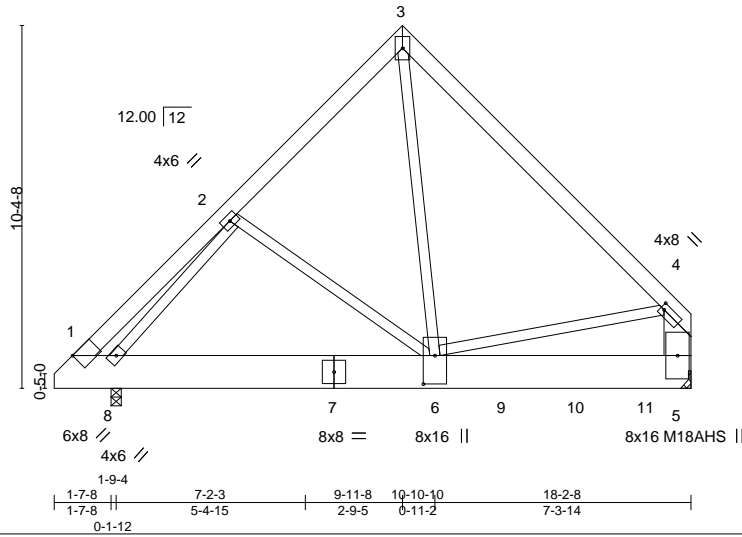


Plate Offsets (X,Y)--	[4:0-1-4,0-2-0], [6:0-9-12,0-4-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.49	Vert(LL) -0.05 5-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.68	Vert(CT) -0.11 5-6 >999 240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr NO	WB 0.84	Horz(CT) 0.01 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06 5-6 >999 240		
				Weight: 385 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x12 SP No.1
WEBS 2x4 SP No.2 *Except*
4-5: 2x10 SP No.1

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

REACTIONS. (size) 5=Mechanical, 8=0-3-8
Max Horz 8=281(LC 24)
Max Uplift 5=-1756(LC 8), 8=-1090(LC 9)
Max Grav 5=8401(LC 2), 8=3981(LC 2)

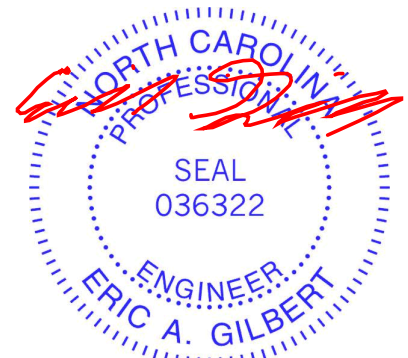
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-1698/529, 2-3=-4613/1393, 3-4=-5691/1624, 4-5=-4685/1354
BOT CHORD 1-8=-300/1097, 6-8=-948/2918, 5-6=-397/1673
WEBS 2-6=-325/545, 2-8=-3071/823, 4-6=-861/2334, 3-6=-1908/6846

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, 2x10 - 2 rows staggered at 0-9-0 oc.
Bottom chords connected as follows: 2x12 - 2 rows staggered at 0-2-0 oc.
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left exposed; 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 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) except (jt=lb) 5=1756, 8=1090.
- Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5270 lb down and 1974 lb up at 10-11-6, 2035 lb down and 276 lb up at 12-9-14, and 1933 lb down and 182 lb up at 14-9-14, and 1933 lb down and 182 lb up at 16-9-14 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



October 21, 2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

Job B0924-5192	Truss K04	Truss Type COMMON TRUSS	Qty 1	Ply 2	Lot 6 River Road I69041317 Job Reference (optional)
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:47 2024 Page 2
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-60, 3-4=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 6=-4872(B) 9=-1818(B) 10=-1822(B) 11=-1822(B)

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

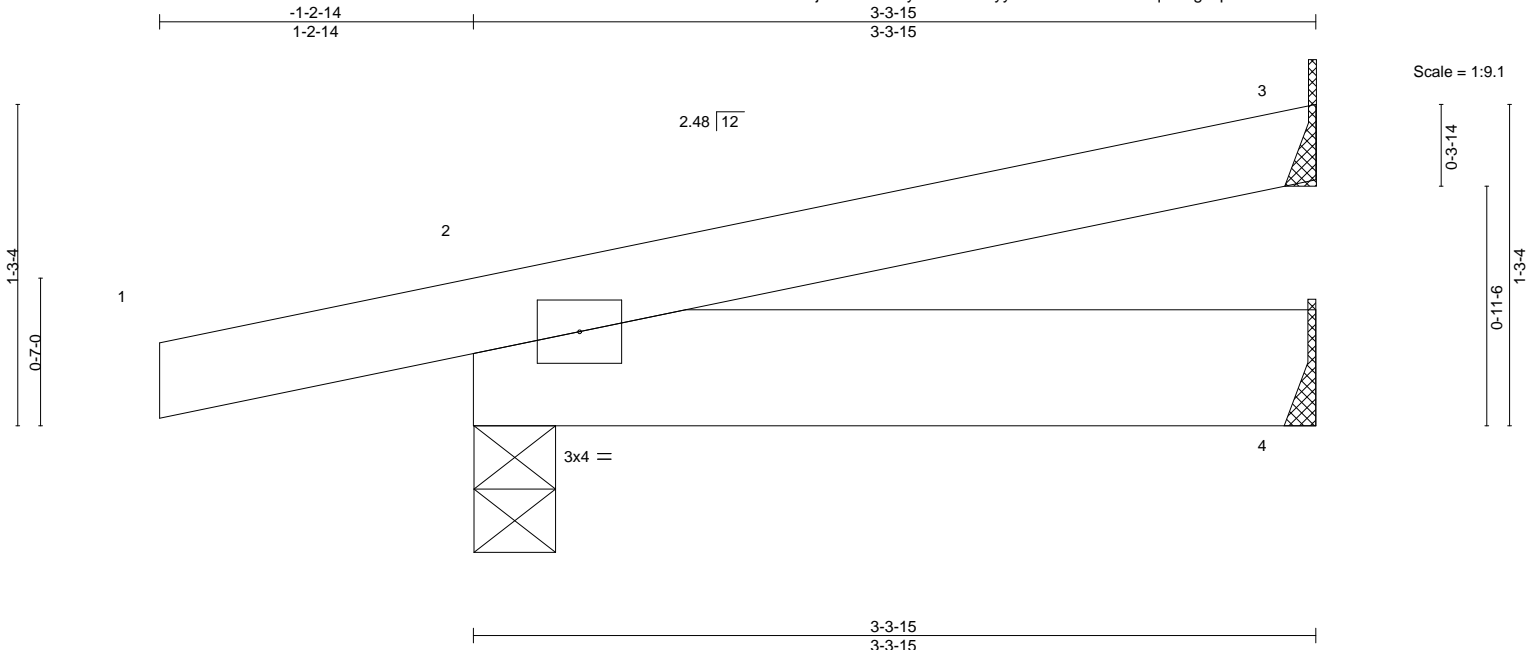


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041318
B0924-5192	KJ01	JACK-OPEN TRUSS	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:47 2024 Page 1
 ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.22	Vert(LL)	-0.00	2-4	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.03	Vert(CT)	-0.00	2-4	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.00	Horz(CT)	-0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Wind(LL)	0.00	2	****		
	Code IRC2015/TPI2014						Weight: 15 lb	FT = 20%

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

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-3-15 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 3=Mechanical, 2=0-3-14, 4=Mechanical
 Max Horz 2=44(LC 6)
 Max Uplift 3=-51(LC 10), 2=-119(LC 6)
 Max Grav 3=74(LC 1), 2=227(LC 1), 4=62(LC 3)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3 except (jt=lb) 2=119.



October 21, 2024

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

Job B0924-5192	Truss L01	Truss Type COMMON TRUSS	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041319
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:48 2024 Page 1
ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



4x4 =

Scale = 1:42.8

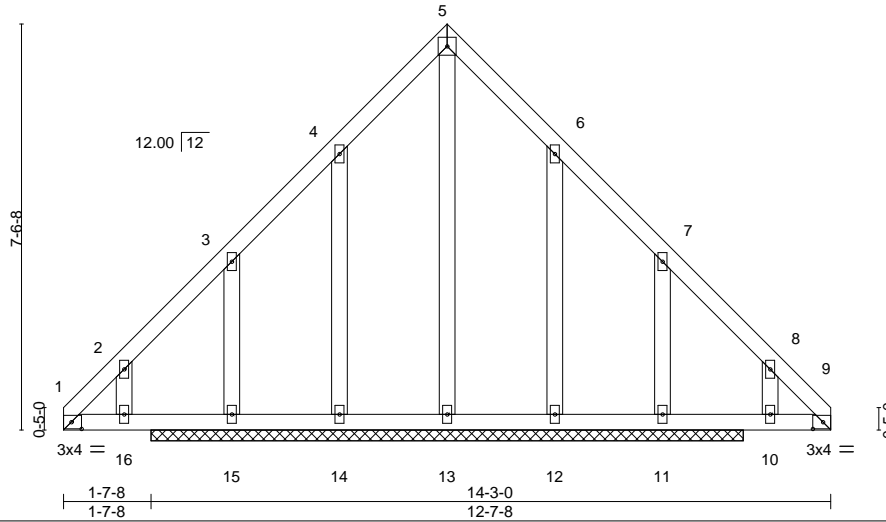


Plate Offsets (X, Y)--	[1:0-2-4,0-1-8], [9:0-2-4,0-1-8]
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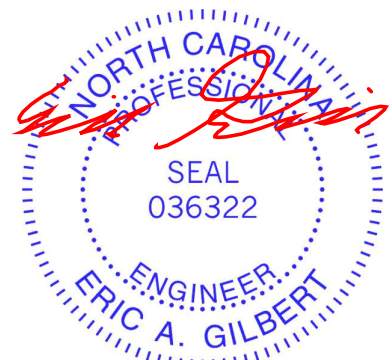
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.21	Vert(LL) n/a - n/a 999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.31	Vert(CT) n/a - n/a 999		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 11 n/a n/a		
	Code IRC2015/TPI2014			Weight: 89 lb	FT = 20%

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

REACTIONS. All bearings 11-0-0.
 (lb) - Max Horz 15--215(LC 6)
 Max Uplift All uplift 100 lb or less at joint(s) except 14--241(LC 7), 15--240(LC 11), 12--239(LC 6), 11--239(LC 10)
 Max Grav All reactions 250 lb or less at joint(s) except 13=462(LC 20), 14=325(LC 17), 15=345(LC 18), 12=324(LC 18), 11=343(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 5-13--345/71

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 241 lb uplift at joint 14, 240 lb uplift at joint 15, 239 lb uplift at joint 12 and 239 lb uplift at joint 11.
 - Non Standard bearing condition. Review required.



October 21, 2024

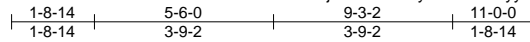
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job B0924-5192	Truss L02	Truss Type COMMON TRUSS	Qty 1	Ply 2	Lot 6 River Road Job Reference (optional)	169041320
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:49 2024 Page 1

ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



4x8 ||

Scale: 1/4"=1'

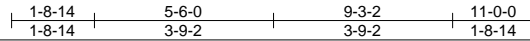
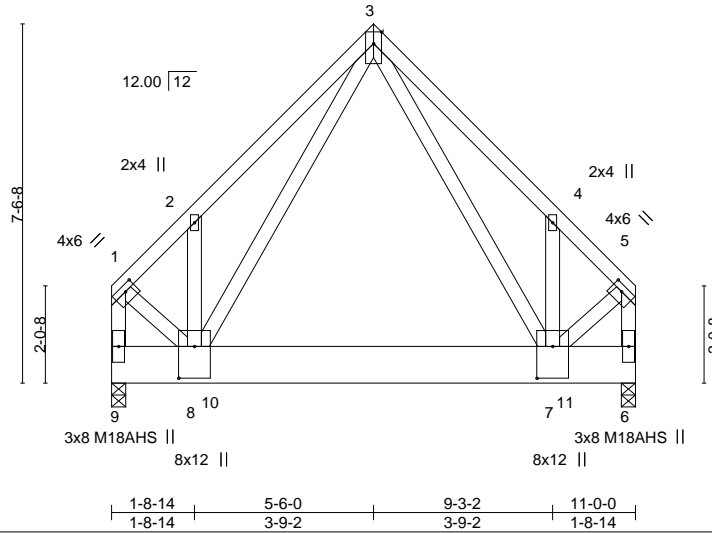


Plate Offsets (X,Y)--	[1:0-2-12,0-1-8], [5:0-2-12,0-1-8], [7:0-8-0,0-4-0], [8:0-8-0,0-4-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) -0.03 7-8 >999 360	MT20 244/190	
TCDL 10.0	Lumber DOL 1.15	BC 0.37	Vert(CT) -0.06 7-8 >999 240	M18AHS 186/179	
BCLL 0.0 *	Rep Stress Incr NO	WB 0.42	Horz(CT) 0.00 6 n/a n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.03 7-8 >999 240		
				Weight: 211 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x10 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	

REACTIONS. (size) 9=0-3-9, 6=0-3-9
 Max Horz 9=-160(LC 6)
 Max Uplift 9=-244(LC 9), 6=-948(LC 8)
 Max Grav 9=1455(LC 2), 6=6063(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1359/218, 2-3=-1390/395, 3-4=-3525/724, 4-5=-3575/556, 1-9=-1900/286, 5-6=-4958/753
 BOT CHORD 7-8=-144/849
 WEBS 4-7=-260/341, 2-8=-257/301, 1-8=-190/1302, 5-7=-504/3358, 3-7=-682/3433, 3-8=-191/285

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
 Bottom chords connected as follows: 2x10 - 3 rows staggered at 0-2-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 244 lb uplift at joint 9 and 948 lb uplift at joint 6.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 6562 lb down and 1012 lb up at 9-3-14 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 Uniform Loads (plf)
 Vert: 1-3=-60, 3-5=-60, 6-9=-20



October 21, 2024

Continued on page 2

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

Job B0924-5192	Truss L02	Truss Type COMMON TRUSS	Qty 1	Ply 2	Lot 6 River Road Job Reference (optional)	I69041320
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:49 2024 Page 2
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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 7=-5593(F)

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

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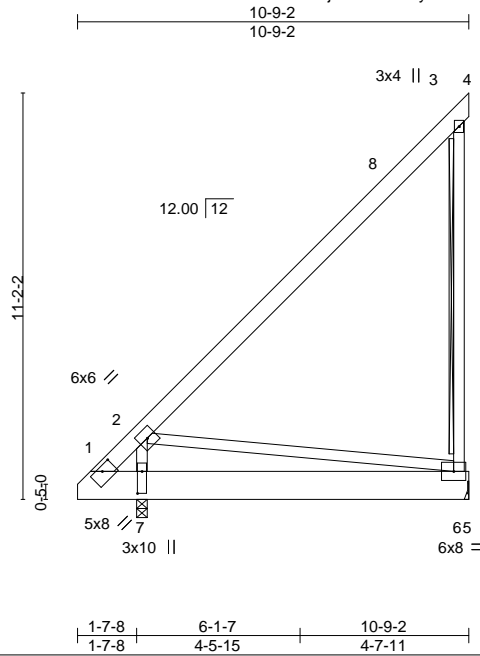
818 Soundside Road
Edenton, NC 27932

Job B0924-5192	Truss M01	Truss Type JACK-CLOSED TRUSS	Qty 2	Ply 2	Lot 6 River Road Job Reference (optional)	169041321
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:49 2024 Page 1

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Scale: 3/16"=1'

Plate Offsets (X,Y)--	[1:0-4-0,0-1-8], [7:0-7-4,0-1-8]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.22	Vert(LL) -0.04 6-7 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.14 6-7 >731 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.81	Horz(CT) 0.01 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.03 6-7 >999 240	Weight: 210 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP 2400F 2.0E
WEBS 2x4 SP No.2

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

REACTIONS. (size) 6=Mechanical, 7=0-3-8
Max Horz 7=460(LC 10)
Max Grav 6=3405(LC 2), 7=3323(LC 2)

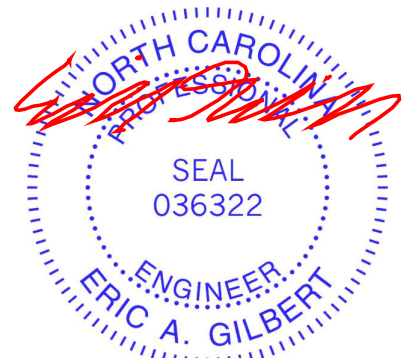
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-3855/0, 2-3=-297/215, 3-6=-347/279
BOT CHORD 1-7=0/2747, 6-7=0/2779
WEBS 2-6=-2799/0, 2-7=0/2845

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, 2x4 - 1 row at 0-9-0 oc.
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-8-0 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.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
- C-C wind load user defined.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- Refer to girder(s) for truss to truss connections.
- Load case(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard Except:

- Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-20, 1-7=-20, 5-7=-503(B=-483)



October 21, 2024

Continued on page 2

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)



818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road
B0924-5192	M01	JACK-CLOSED TRUSS	2	2	169041321
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:49 2024 Page 2
ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard Except:

- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-50, 3-4=-20, 1-7=-20, 5-7=-688(B=-668)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 1-7=-40, 5-7=-567(B=-527)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=35, 3-4=-12, 1-7=51, 5-7=-274(B=-264)
Horz: 1-3=-47
- 5) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-58, 3-4=-20, 1-7=-11, 5-7=-475(B=-455)
Horz: 1-3=38
- 6) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-15, 3-4=-22, 1-7=12, 5-7=-388(B=-378)
Horz: 1-3=3, 3-4=10
- 7) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=15, 3-4=8, 1-7=-10, 5-7=-332(B=-322)
Horz: 1-3=-27, 3-4=-20
- 8) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-37, 3-4=-30, 1-7=2, 5-7=-415(B=-395)
Horz: 1-3=17, 3-4=10
- 9) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-7, 3-4=-0, 1-7=-20, 5-7=-386(B=-366)
Horz: 1-3=-13, 3-4=-20
- 10) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-8=35, 3-8=21, 3-4=14, 1-7=-10, 5-7=-275(B=-265)
Horz: 1-8=47, 3-8=-33, 3-4=-26
- 11) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=9, 3-4=2, 1-7=-10, 5-7=-349(B=-339)
Horz: 1-3=-21, 3-4=-14
- 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=21, 3-4=14, 1-7=-10, 5-7=-315(B=-305)
Horz: 1-3=-33, 3-4=-26
- 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=9, 3-4=2, 1-7=-10, 5-7=-349(B=-339)
Horz: 1-3=-21, 3-4=-14
- 14) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-8=13, 3-8=-1, 3-4=6, 1-7=-20, 5-7=-386(B=-366)
Horz: 1-8=-33, 3-8=-19, 3-4=-26
- 15) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-13, 3-4=-6, 1-7=-20, 5-7=-386(B=-366)
Horz: 1-3=-7, 3-4=-14
- 16) Dead: Lumber Increase=0.90, Plate Increase=0.90 Plt. metal=0.90
Uniform Loads (plf)
Vert: 1-3=-20, 3-4=-20, 1-7=-20, 5-7=-390(B=-371)
- 17) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-63, 3-4=-28, 1-7=-3, 5-7=-605(B=-585)
Horz: 1-3=13, 3-4=8
- 18) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-3=-40, 3-4=-5, 1-7=-20, 5-7=-584(B=-564)
Horz: 1-3=-10, 3-4=-15
- 19) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60
Uniform Loads (plf)
Vert: 1-8=-25, 3-8=-36, 3-4=-1, 1-7=-20, 5-7=-584(B=-564)
Horz: 1-8=-25, 3-8=-14, 3-4=-19
- 20) Dead + 0.75 Roof Live (bal.) + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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

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818 Soundside Road
Edenton, NC 27932

Job B0924-5192	Truss M01	Truss Type JACK-CLOSED TRUSS	Qty 2	Ply 2	Lot 6 River Road I69041321 Job Reference (optional)
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:49 2024 Page 3
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LOAD CASE(S) Standard

Uniform Loads (plf)

Vert: 1-3=-45, 3-4=-10, 1-7=-20, 5-7=-584(B=-564)

Horz: 1-3=-5, 3-4=-10

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

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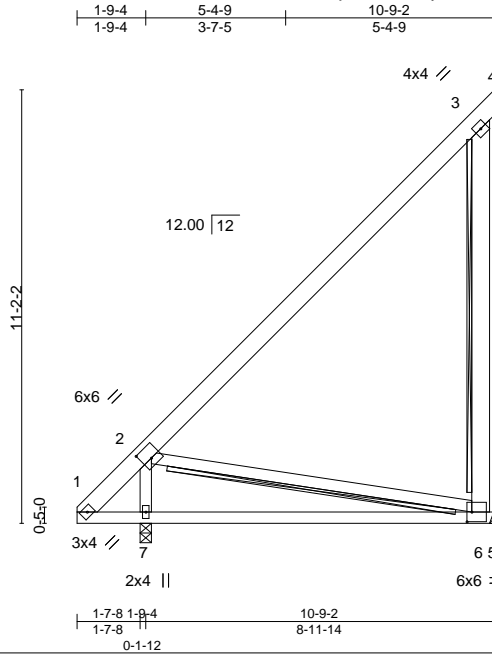
818 Soundside Road
Edenton, NC 27932

Job B0924-5192	Truss M02	Truss Type MONOPITCH TRUSS	Qty 2	Ply 1	Lot 6 River Road Job Reference (optional)	I69041322
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:49 2024 Page 1

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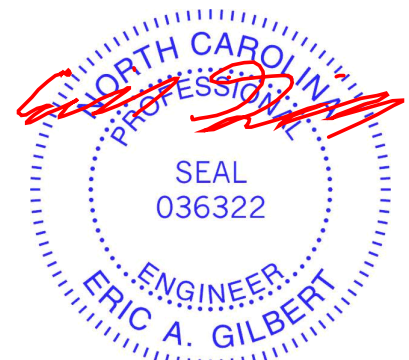
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Plate Offsets (X,Y)--	[2:0-3-0,0-3-12], [6:0-1-8,0-3-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.34	Vert(LL) -0.10 6-7 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.20 6-7 >530 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.29	Horz(CT) -0.01 6 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) -0.01 6-7 >999 240	Weight: 90 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 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 7-6-1 oc bracing.
WEBS 2x4 SP No.2 *Except* 3-6: 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 3-6, 2-6 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS.	(size) 6=Mechanical, 7=0-3-8 Max Horz 7=499(LC 10) Max Uplift 6=-417(LC 10) Max Grav 6=455(LC 17), 7=496(LC 1)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-309/199, 3-6=-325/348 BOT CHORD 1-7=-189/317, 6-7=-688/701 WEBS 2-7=-331/47, 2-6=-677/682

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 417 lb uplift at joint 6.
 - 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



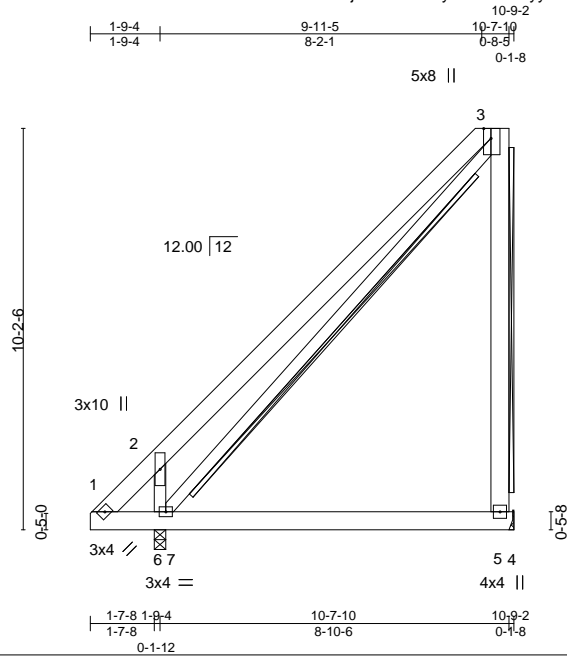
October 21, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041323
B0924-5192	M03	HALF HIP TRUSS	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:50 2024 Page 1
 ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:58.5

Plate Offsets (X, Y)-- [3:Edge,0-2-4]		CSI.		DEFL.		PLATES		GRIP	
LOADING (psf)	SPACING-	2-0-0	TC	in	(loc)	l/defl	L/d	MT20	244/190
TCLL 20.0	Plate Grip DOL	1.15	BC	0.08	5-6	>999	360		
TCDL 10.0	Lumber DOL	1.15	WB	0.31	5-6	>802	240		
BCLL 0.0 *	Rep Stress Incr	YES	Matrix-S	0.78	5	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014		Wind(LL)	0.04	5-6	>999	240	
								Weight: 101 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 *Except* 3-5: 2x6 SP No.1	WEBS	T-Brace: 2x4 SPF No.2 - 3-6, 3-5 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 6=0-3-8, 5=Mechanical
 Max Horz 6=461(LC 10)
 Max Uplift 5=348(LC 10)
 Max Grav 6=546(LC 2), 5=528(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-363/0, 2-3=-801/598
 BOT CHORD 1-6=-113/371
 WEBS 2-6=-936/824, 3-6=-859/964, 3-5=-432/370

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 348 lb uplift at joint 5.
 - 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



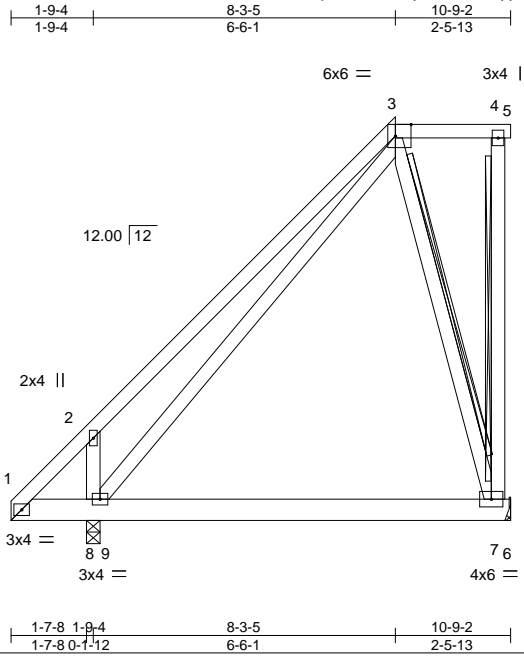
October 21, 2024

Job B0924-5192	Truss M04	Truss Type HALF HIP TRUSS	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041324
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:50 2024 Page 1

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Scale = 1:49.6

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.30	Vert(LL) -0.08 7-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.91	Vert(CT) -0.12 7-8 >847 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) -0.00 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 7-8 >999 240	Weight: 87 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS T-Brace: 2x4 SPF No.2 - 4-7, 3-7
	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.	FORCES.
(size) 7=Mechanical, 8=0-3-8	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
Max Horz 8=382(LC 10)	TOP CHORD 1-2=-309/0, 2-3=-565/385
Max Uplift 7=-243(LC 10)	WEBS 3-8=-495/541, 3-7=-395/350, 2-8=-637/551
Max Grav 7=461(LC 17), 8=562(LC 2)	

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 3) Provide adequate drainage to prevent water ponding.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Refer to girder(s) for truss to truss connections.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 243 lb uplift at joint 7.
 - 8) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



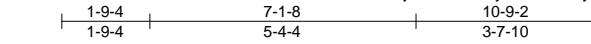
October 21, 2024

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPH Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041325
B0924-5192	M05	COMMON TRUSS	4	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Builders FirsSource (Albermarle)

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8.630 s Jun 15 2023 MiTek Industries, Inc. Mon Oct 21 10:05:28 2024 Page 1



4x6 ||

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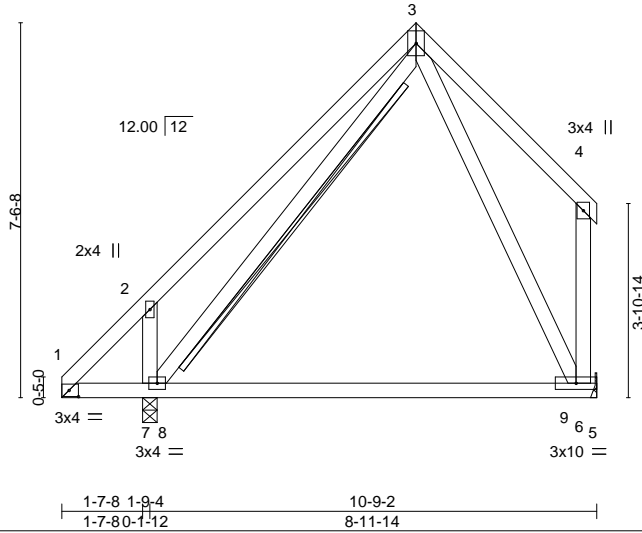


Plate Offsets (X,Y)-- [1:0-2-4,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.54	Vert(LL) -0.23	6-7	>453	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.62	Vert(CT) -0.35	6-7	>303	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.00	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01	6-7	>999	240		
							Weight: 71 lb	FT = 20%

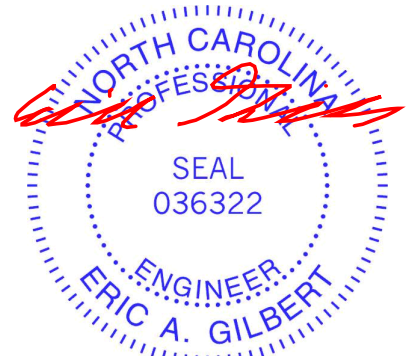
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

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

REACTIONS. (size) 7=0-3-8, 6=Mechanical
Max Horz 7=247(LC 10)
Max Uplift 7=-63(LC 11), 6=-128(LC 10)
Max Grav 7=571(LC 18), 6=473(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-292/0, 2-3=-460/328
WEBS 3-7=-314/297, 2-7=-487/440

- 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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 63 lb uplift at joint 7 and 128 lb uplift at joint 6.
 - 7) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



October 21, 2024

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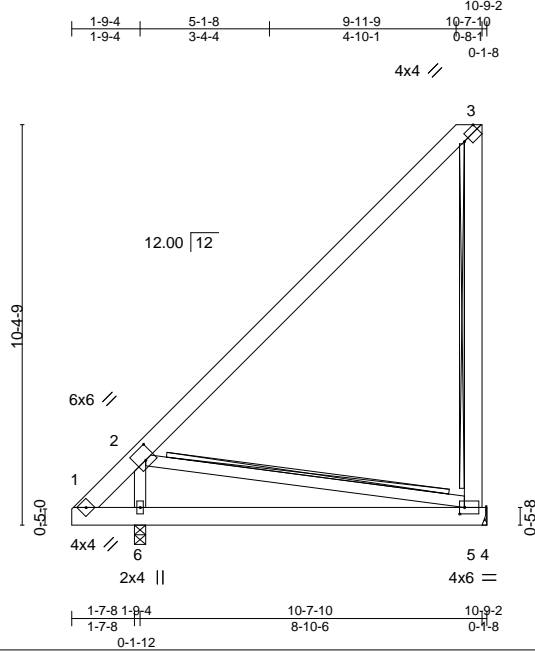


818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041326
B0924-5192	M06	HALF HIP TRUSS	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:51 2024 Page 1
 ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:59.7

Plate Offsets (X,Y)--	[2:0-3-0,0-4-0], [3:0-5-9,Edge], [5:0-1-8,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.04 5-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.23	Vert(CT) -0.08 5-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.34	Horz(CT) -0.01 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02 5-6 >999 240	Weight: 96 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 9-2-3 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS T-Brace: 2x4 SPF No.2 - 3-5, 2-5
3-5: 2x6 SP No.1	Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS. (size) 6=0-3-8, 5=Mechanical
 Max Horz 6=481(LC 10)
 Max Uplift 5=-386(LC 10)
 Max Grav 6=488(LC 1), 5=431(LC 17)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-277/76, 2-3=-306/223
 BOT CHORD 1-6=-236/414, 5-6=-716/805
 WEBS 2-6=-325/147, 3-5=-333/285, 2-5=-819/728

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 386 lb uplift at joint 5.
 - 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



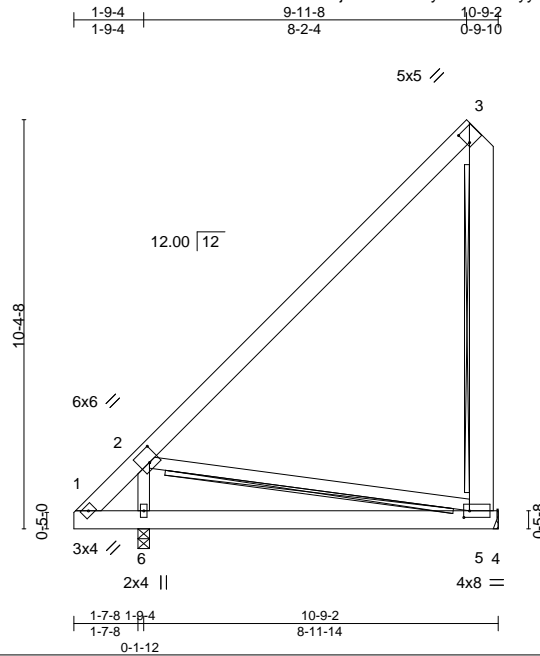
October 21, 2024

Job B0924-5192	Truss M07	Truss Type COMMON TRUSS	Qty 3	Ply 1	Lot 6 River Road 169041327
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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:51 2024 Page 1

ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:58.4

Plate Offsets (X,Y)--	[2:0-3-0,0-4-0], [3:0-0-14,0-3-14], [5:0-1-12,0-2-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.33	Vert(LL) -0.03 5-6 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.18	Vert(CT) -0.06 5-6 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.27	Horz(CT) -0.01 5 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01 5-6 >999 240		
				Weight: 102 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 9-8-5 oc bracing.
WEBS 2x4 SP No.2 *Except* 3-5: 2x8 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 3-5, 2-5 Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance. Brace must cover 90% of web length.

REACTIONS.	(size) 6=0-3-8, 5=Mechanical Max Horz 6=472(LC 10) Max Uplift 5=-375(LC 10) Max Grav 6=486(LC 1), 5=427(LC 17)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-308/206, 3-5=-331/290 BOT CHORD 1-6=-171/312, 5-6=-642/696 WEBS 2-6=-352/144, 2-5=-670/630

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 375 lb uplift at joint 5.
 - 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

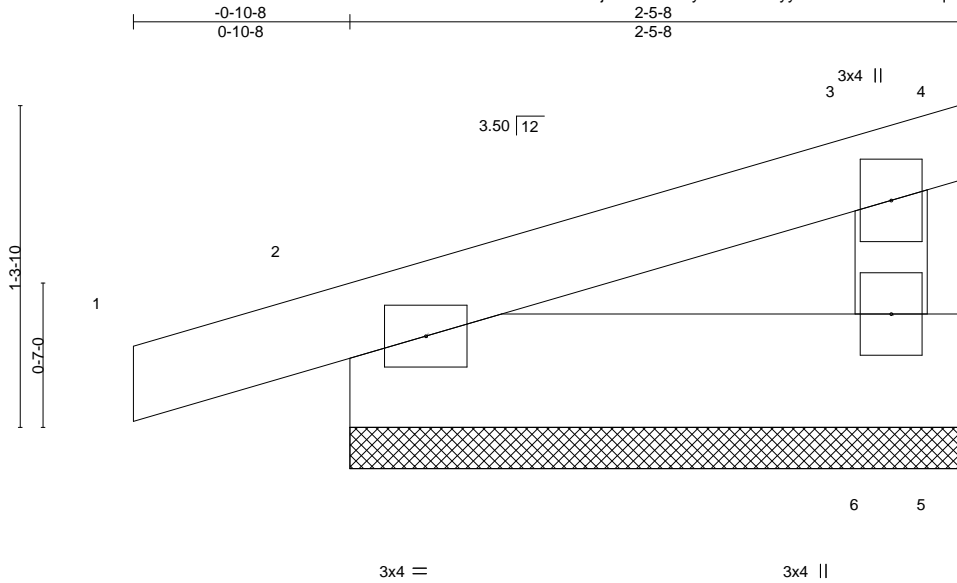


October 21, 2024

Job B0924-5192	Truss N01	Truss Type MONOPITCH TRUSS	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041328
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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:52 2024 Page 1
ID:1jr0aUZl522uyMJe9JV52yy9ks9-RfC?PsB70Hq3NSgPqnL8w3ulTXbGKWrCDoi7J4zJC?f



Scale = 1:9.3

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	-0.00	3	n/r	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	3	n/r		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00		n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P					Weight: 12 lb	FT = 20%

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 6=2-5-8, 2=2-5-8
Max Horz 2=46(LC 6)
Max Uplift 6=36(LC 10), 2=-71(LC 6)
Max Grav 6=89(LC 1), 2=150(LC 1)

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

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Gable requires continuous bottom chord bearing.
- 4) Gable studs spaced at 2-0-0 oc.
- 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 36 lb uplift at joint 6 and 71 lb uplift at joint 2.



October 21, 2024

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818 Soundside Road
Edenton, NC 27932

Job B0924-5192	Truss N02	Truss Type MONOPITCH TRUSS	Qty 4	Ply 1	Lot 6 River Road Job Reference (optional)	169041329
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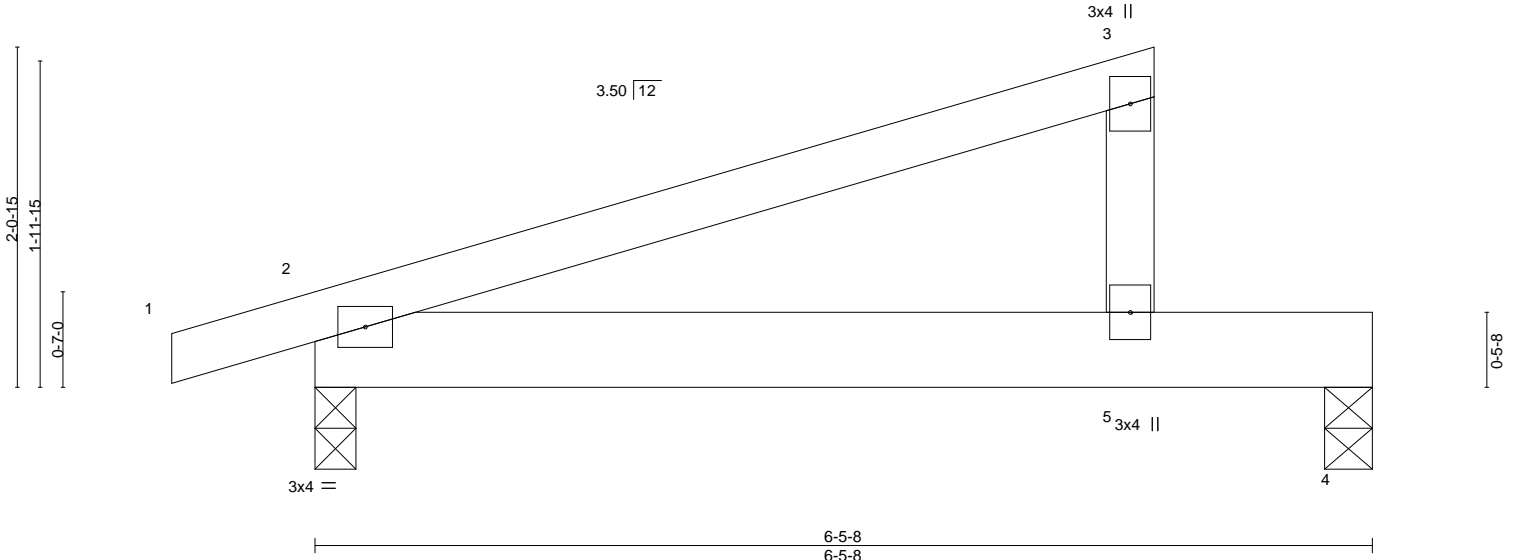
Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:52 2024 Page 1

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6-5-8
6-5-8



Scale = 1:14.1



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 0.31	Vert(LL)	-0.02	2-5	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	-0.05	2-5	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-P	Wind(LL)	0.03	2-5	>999	Weight: 26 lb	FT = 20%

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

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

REACTIONS. (size) 2=0-3-0, 4=0-3-8
 Max Horz 2=104(LC 6)
 Max Uplift 2=-154(LC 6), 4=-73(LC 10)
 Max Grav 2=304(LC 1), 4=171(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 154 lb uplift at joint 2 and 73 lb uplift at joint 4.



October 21, 2024

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Job B0924-5192	Truss N03	Truss Type MONOPITCH TRUSS	Qty 6	Ply 1	Lot 6 River Road Job Reference (optional)	I69041330
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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:52 2024 Page 1

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6-1-8
6-1-8

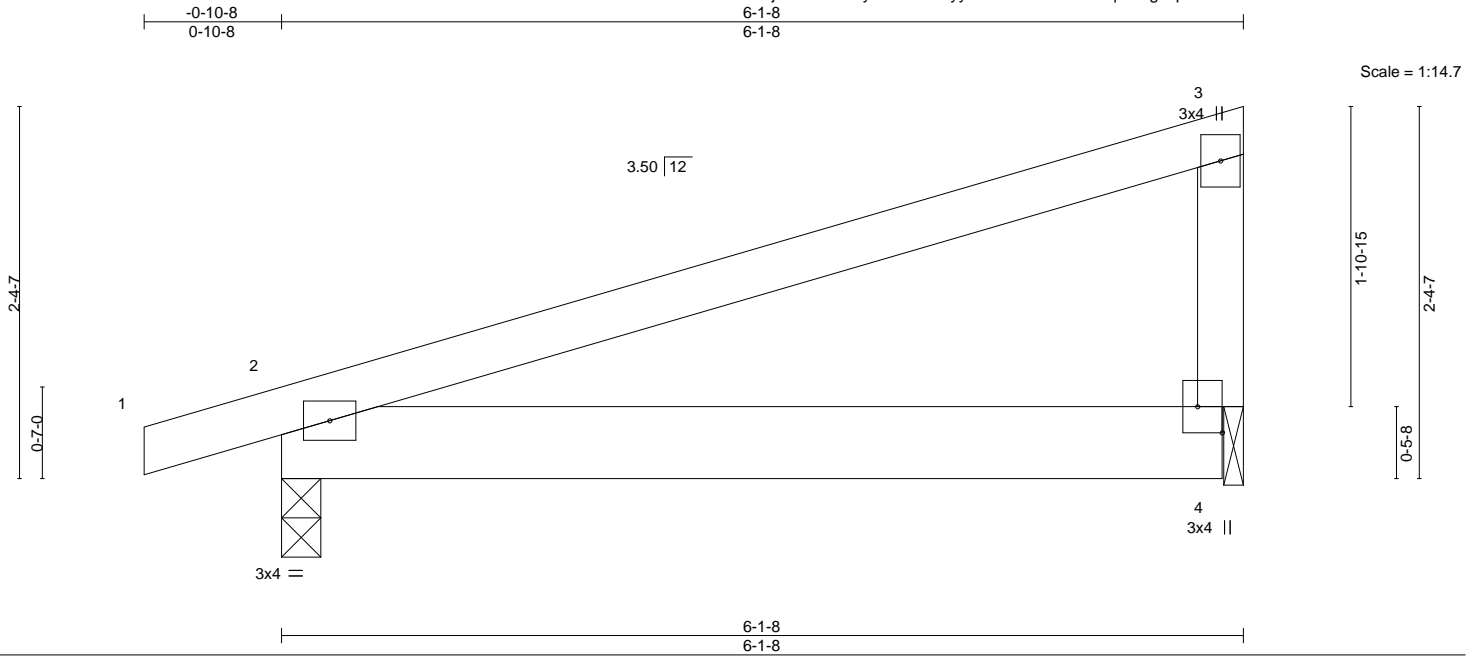


Plate Offsets (X, Y)--		[4:Edge,0-1-14]							
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.48	Vert(LL) -0.02	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.13	Vert(CT) -0.03	2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.00	Horz(CT) 0.00		n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00	2	****	240	Weight: 27 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
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, 4=0-1-8
 Max Horz 2=121(LC 6)
 Max Uplift 2=148(LC 6), 4=130(LC 10)
 Max Grav 2=299(LC 1), 4=229(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 148 lb uplift at joint 2 and 130 lb uplift at joint 4.



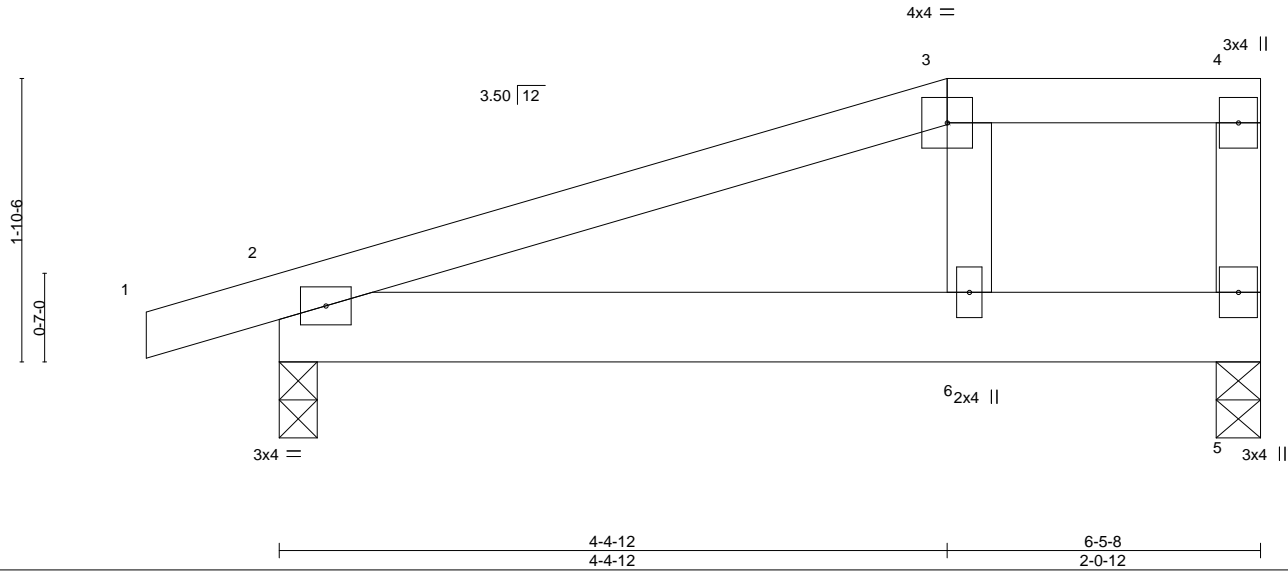
Job B0924-5192	Truss N04	Truss Type HALF HIP TRUSS	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	169041331
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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:53 2024 Page 1
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Scale = 1:15.2



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.22	Vert(LL)	-0.02	2-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.14	Vert(CT)	-0.03	2-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.03	2-6	>999	240	Weight: 30 lb	FT = 20%

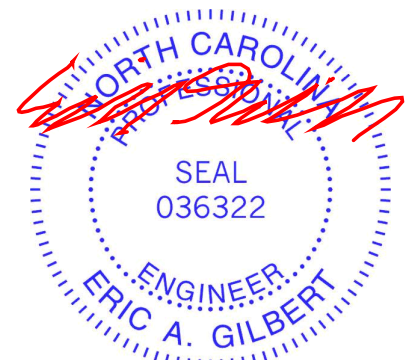
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

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

REACTIONS. (size) 5=0-3-8, 2=0-3-0
 Max Horz 2=94(LC 6)
 Max Uplift 5=126(LC 6), 2=163(LC 6)
 Max Grav 5=243(LC 1), 2=312(LC 1)

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

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 2) Provide adequate drainage to prevent water ponding.
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 5 and 163 lb uplift at joint 2.



October 21, 2024

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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/TP1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

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

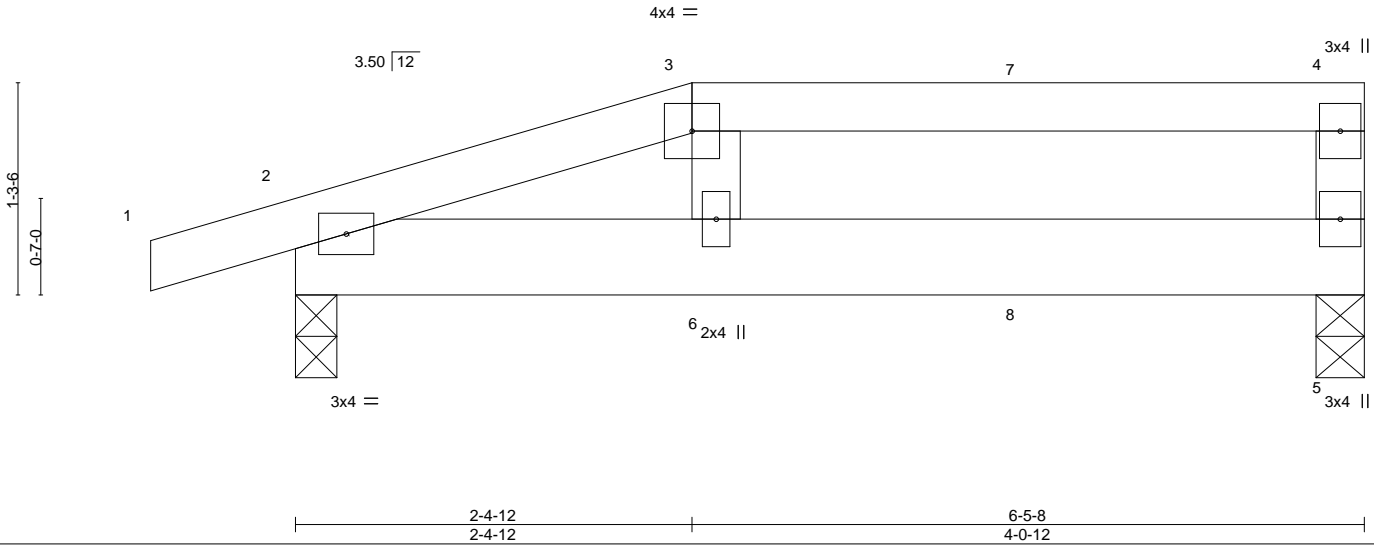
Job B0924-5192	Truss N05	Truss Type HALF HIP TRUSS	Qty 1	Ply 1	Lot 6 River Road Job Reference (optional)	I69041332
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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:53 2024 Page 1
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Scale = 1:13.9



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 0.28	Vert(LL)	0.02	6	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	-0.03	6	>999		
BCLL 0.0 *	Rep Stress Incr	NO	WB 0.02	Horz(CT)	0.00	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 28 lb	FT = 20%

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

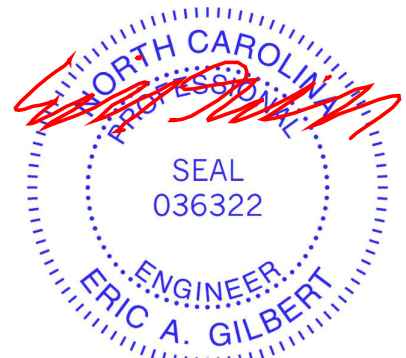
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 5=0-3-8, 2=0-3-0
Max Horz 2=58(LC 19)
Max Uplift 5=141(LC 5), 2=187(LC 4)
Max Grav 5=265(LC 1), 2=333(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-282/134

- NOTES-**
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Pr. Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 141 lb uplift at joint 5 and 187 lb uplift at joint 2.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 111 lb down and 153 lb up at 2-4-12, and 63 lb down and 77 lb up at 4-5-8 on top chord, and 32 lb down at 2-4-12, and 15 lb down at 4-5-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
 - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 2-5=-20
Concentrated Loads (lb)
Vert: 3=-15(F) 6=-8(F) 7=-15(F) 8=-5(F)



October 21, 2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPH Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)

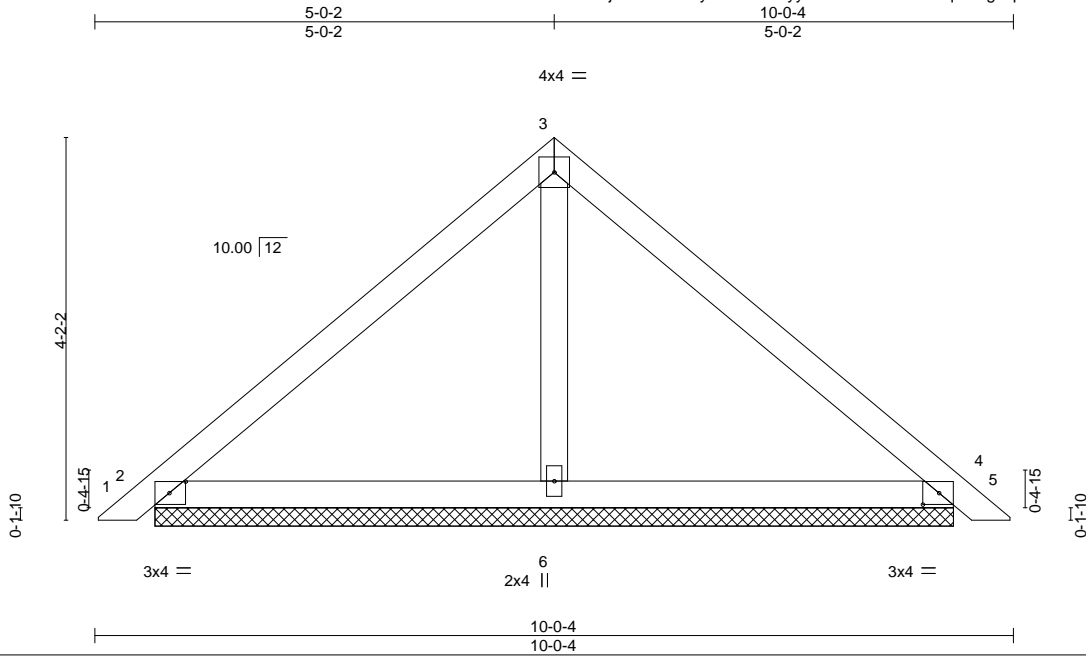


818 Soundside Road
Edenton, NC 27932

Job B0924-5192	Truss PB1	Truss Type PIGGYBACK	Qty 4	Ply 1	Lot 6 River Road Job Reference (optional)	I69041333
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 21 09:19:54 2024 Page 1
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Scale = 1:25.1

Plate Offsets (X,Y)--	[2:0-2-2,0-1-8], [4:0-2-2,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.14	Vert(LL) 0.01 5 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.04	Vert(CT) 0.02 5 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-P	Horz(CT) 0.00 4 n/a n/a		
	Code IRC2015/TPI2014			Weight: 37 lb	FT = 20%

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

REACTIONS. (size) 2=8-8-9, 4=8-8-9, 6=8-8-9
 Max Horz 2=-119(LC 8)
 Max Uplift 2=-78(LC 10), 4=-93(LC 11), 6=-7(LC 10)
 Max Grav 2=228(LC 1), 4=228(LC 1), 6=290(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=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 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
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 78 lb uplift at joint 2, 93 lb uplift at joint 4 and 7 lb uplift at joint 6.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 21, 2024

Job	Truss	Truss Type	Qty	Ply	Lot 6 River Road	169041334
B0924-5192	PB2	Piggyback	1	1	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309, Builders FirsSource (Albermarle)

8.630 s Jun 15 2023 MiTek Industries, Inc. Mon Oct 21 10:06:02 2024 Page 1
 ID:1jr0aUZI522uyMJe9JV52yy9ks9-GCzL0szB5bXM?71FTJHh8CLoXS0P0iO6Q4ItHuyRDgZ

10-0-4
10-0-4

Scale = 1:16.9

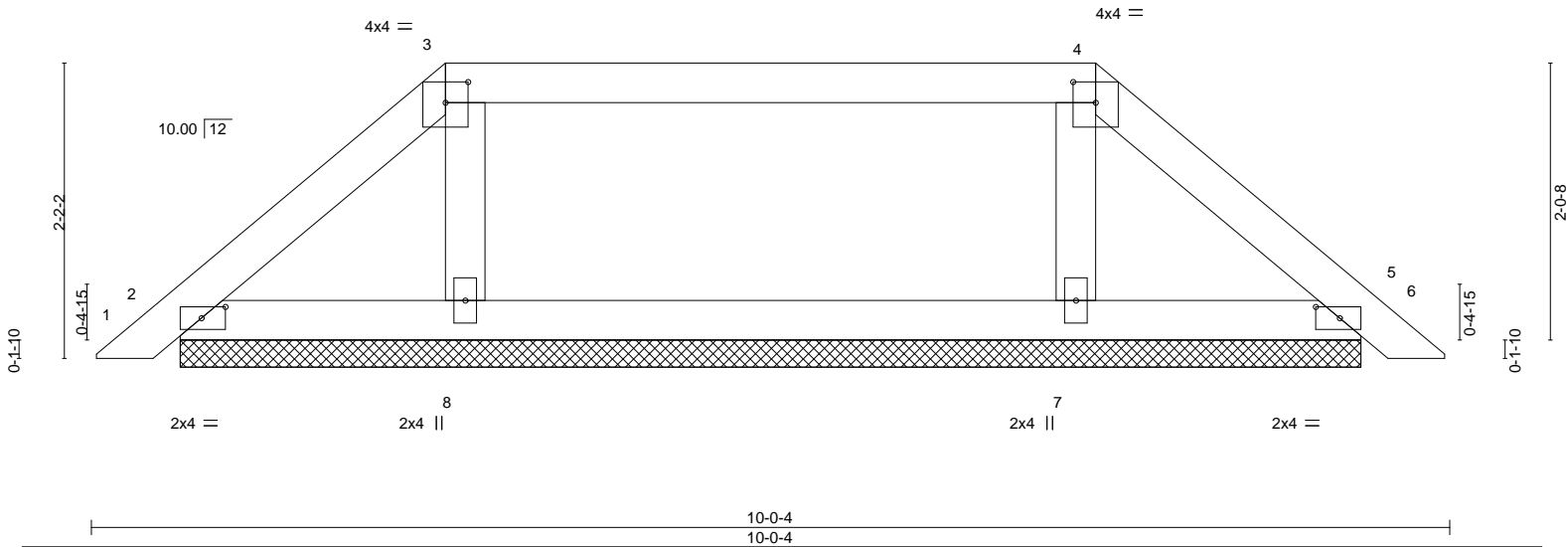


Plate Offsets (X,Y)--	[2:0-2-2,0-1-0], [3:0-2-0,0-1-13], [4:0-2-0,0-1-13], [5:0-2-2,0-1-0]				
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.38	Vert(LL) 0.00 6 n/r 120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(TL) 0.00 6 n/r 120		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.04	Horz(TL) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2009/TPI2007	Matrix-P		Weight: 34 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.
WEBS 2x4 SP No.2	

REACTIONS. All bearings 8-8-9.
 (lb) - Max Horz 2=-104(LC 4)
 Max Uplift All uplift 100 lb or less at joint(s) except 2=-149(LC 7), 5=-154(LC 7), 8=-190(LC 5), 7=-160(LC 4)
 Max Grav All reactions 250 lb or less at joint(s) 2, 5 except 8=253(LC 10), 7=253(LC 11)

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 7-05; 130mph; TCCL=6.0psf; BCDL=5.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (low-rise) gable end zone and C-C Exterior(2) 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.
 - 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 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 149 lb uplift at joint 2, 154 lb uplift at joint 5, 190 lb uplift at joint 8 and 160 lb uplift at joint 7.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



October 21, 2024

Symbols

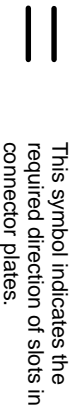
PLATE LOCATION AND ORIENTATION



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 software or upon request.

PLATE SIZE

4 X 4

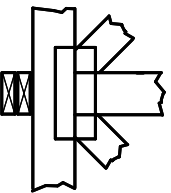
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING

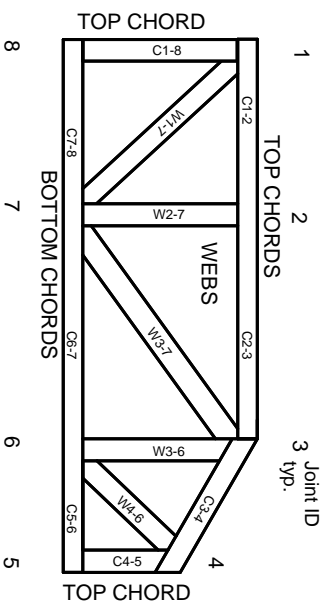


Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number/letter where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System



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

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

Product Code Approvals

ICC-ES Reports:

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

Design General Notes

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

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

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MITek

ENGINEERING BY
TRENGO
A MITek Affiliate

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

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