

Trenco
818 Soundside Rd
Edenton, NC 27932

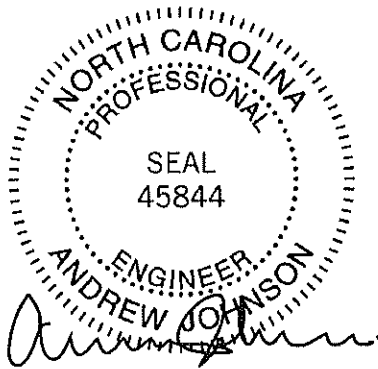
Re: J1022-5104

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: I54670565 thru I54670591

My license renewal date for the state of North Carolina is December 31, 2022.

North Carolina COA: C-0844



October 12, 2022

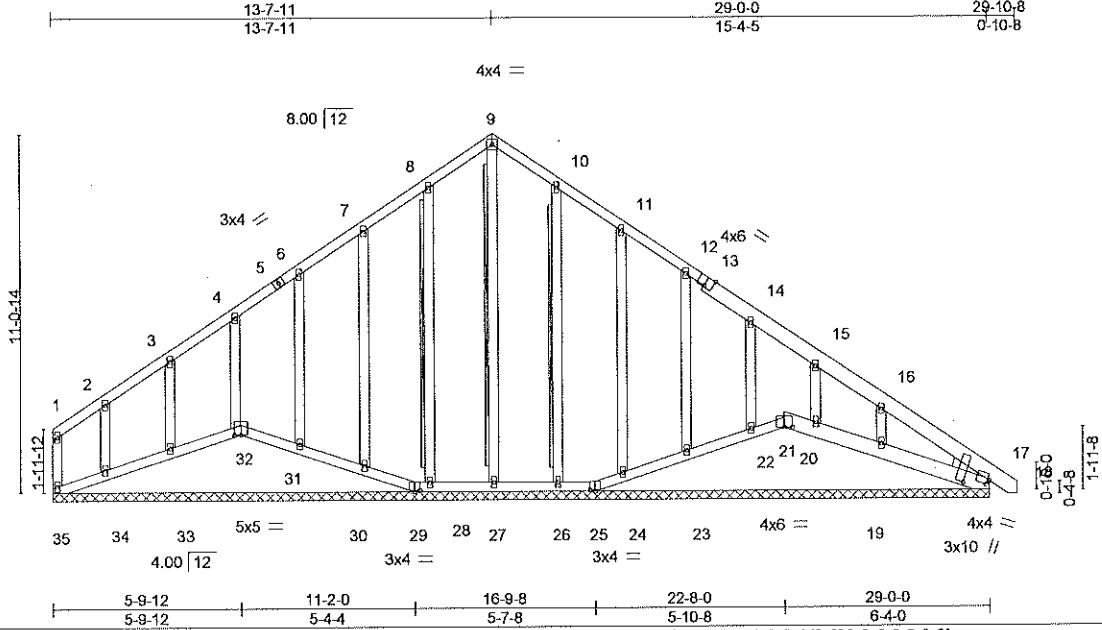
Johnson, Andrew

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 J1022-5104	Truss A1	Truss Type Roof Special	Qty 1	Ply 1	1	154670565
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Comtech, Inc. Fayetteville, NC - 28314.

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:11 2022 Page 1
 ID:3B2liU9aTYR6OIFvgEVAlyq8tk-9SWmdv6SU2W7YC_fc54Pm00qL9_LKilcgysb32yUDcU
 29-0-0 29-10-8
 15-4-5 0-10-8



Scale = 1:68.5

Plate Offsets (X,Y)-- [13:0-3-0,Edge], [17:0-3-11,0-9-1], [17:0-0-12,0-1-12], [21:0-3-0,0-0-0], [25:0-2-0,0-0-11], [29:0-2-0,0-0-11], [32:0-2-8,0-0-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.08	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(LL) 0.00 17 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.25	Vert(CT) 0.00 18 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.01 17 n/a n/a		
	Code IRC2015/TP12014			Weight: 223 lb	FT = 20%

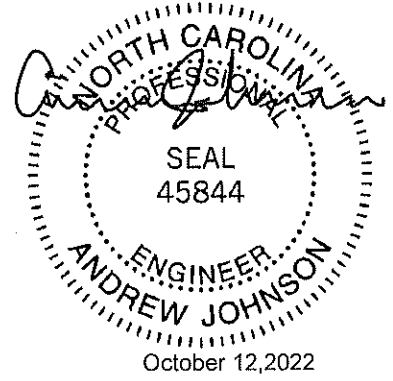
LUMBER-
 TOP CHORD 2x4 SP No.1 *Except* 13-18: 2x6 SP No.1
 BOT CHORD 2x4 SP No.1 *Except* 17-21: 2x6 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2
 WEDGE Right: 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 9-27, 8-28, 10-26
 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 29-0-0.
 (lb) - Max Horz 35--318(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 29, 25, 17, 27, 28, 31, 33, 26, 24, 23, 22, 20 except 35--137(LC 8), 32--195(LC 9), 21--134(LC 11), 30--102(LC 12), 34--158(LC 12), 19--184(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 35, 29, 25, 21, 17, 28, 30, 31, 33, 34, 26, 24, 23, 22, 20 except 32=305(LC 19), 27=414(LC 12), 19=321(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 6-7--233/273, 7-8--297/350, 8-9--347/413, 9-10--347/427, 10-11--297/398, 11-12--233/350, 12-14--230/315, 14-15--248/271, 15-16--269/271, 16-17--340/337
 BOT CHORD 34-35--293/319, 33-34--284/312, 32-33--289/313, 31-32--287/310, 30-31--287/311, 29-30--284/311, 28-29--267/291, 27-28--267/291, 26-27--267/291, 25-26--267/291, 24-25--282/310, 23-24--287/311, 22-23--288/310, 21-22--285/307, 20-21--276/300, 19-20--292/310, 17-19--286/312
 WEBS 9-27--389/248

NOTES-
 1) Unbalanced roof live loads have been considered for this design.
 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-1-12 to 4-6-9, Exterior(2) 4-6-9 to 13-7-11, Corner(3) 13-7-11 to 18-0-8, Exterior(2) 18-0-8 to 29-8-15 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/TP1.
 4) All plates are 2x4 MT20 unless otherwise indicated.
 5) Gable requires continuous bottom chord bearing.
 6) Gable studs spaced at 2-0-0 oc.
 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.



Continued on page 2.

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20661</p>	<p>ENGINEERING BY TRENCO A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27832</p>
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Job	Truss	Truss Type	Qty	Ply	154670565
J1022-5104	A1	Roof Special	1	1	Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314.

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:11 2022 Page 2
 ID:3B2IiU9aTYR6OIFvgEVAlyq8tk-9SWmdv8SU2W7YG_fc54Pm00qL9_LKIlcgy5b32yUDcU

NOTES-

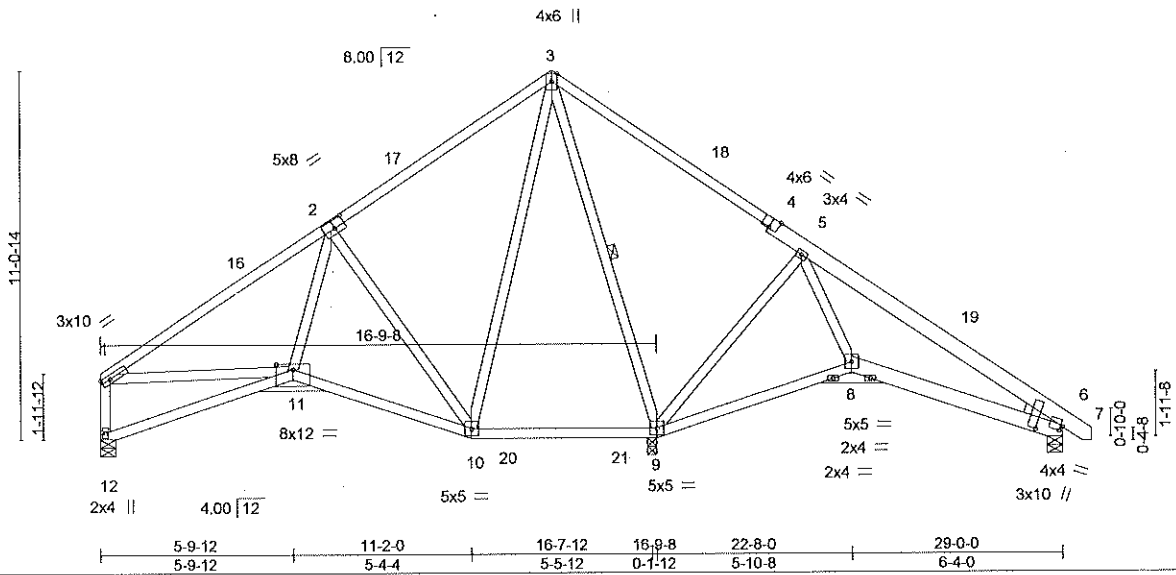
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 29, 25, 17, 27, 28, 31, 33, 26, 24, 23, 22, 20 except (j=l=b) 35=137, 32=195, 21=134, 30=102, 34=158, 19=184.
- 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 32, 21, 30, 31, 33, 34, 24, 23, 22, 20, 19.
- 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIPHP Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO <small>A MITEK AFFILIATE</small></p> <p>818 Soundside Road Edenton, NC 27832</p>
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Job J1022-5104	Truss A2	Truss Type Roof Special	Qty 5	Ply 1	L 154670566
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Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MITek Industries, Inc. Wed Oct 12 07:43:12 2022 Page 1

ID:3B2llU9aTYR6OTFvgEVAlyq8tk-de48rF94FMesAMZsApceJbZvBZDJ3eYlvcR8cVyUDcT
21-2-1 29-0-0 29-10-8
7-6-7 7-9-15 0-10-8



Scale = 1:66.6

Plate Offsets (X,Y)--	[2:0-4-0,0-3-0], [4:0-3-0,Edge], [6:0-3-11,0-9-1], [6:0-0-12,0-1-12], [11:0-6-0,0-2-0]							
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 0.45	Vert(LL) -0.12	9-10	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.16	9-10	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.70	Horz(CT) 0.03	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-S	Wind(LL) 0.02	11	>999	240	Weight: 198 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
4-7: 2x6 SP No.1
BOT CHORD 2x4 SP No.1 *Except*
6-8: 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 1 Row at midpt 3-9

REACTIONS.

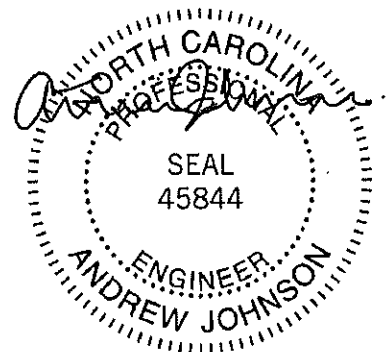
(size) 12=0-5-8, 9=0-3-8, 6=0-5-8
Max Horz 12=-257(LC 8)
Max Uplift 12=-36(LC 12), 9=-38(LC 12), 6=-62(LC 13)
Max Grav 12=569(LC 23), 9=1488(LC 19), 6=388(LC 24)

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

TOP CHORD 1-2=-771/137, 2-3=-349/251, 3-5=0/414, 5-6=-425/39, 1-12=-559/157
BOT CHORD 11-12=-247/319, 10-11=-195/675, 6-8=0/294
WEBS 2-11=-67/405, 2-10=-693/217, 3-10=-128/609, 3-9=-1008/90, 5-9=-647/268, 5-8=0/311, 1-11=0/476

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 13-7-11, Exterior(2) 13-7-11 to 18-0-8, Interior(1) 18-0-8 to 29-8-15 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 12, 6 considers parallel to grain value using ANSI/TP1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 9, 6.



October 12, 2022

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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 ANSIT/TP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

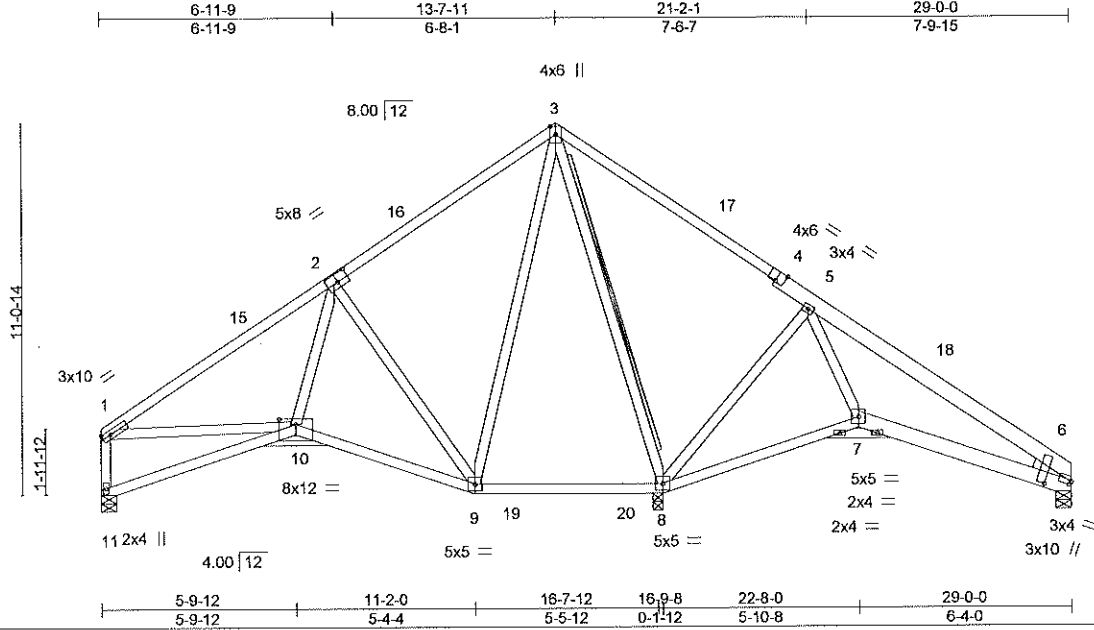
ENGINEERING BY
TRENCO
A MITEK Affiliate
818 Soundside Road
Edenton, NC 27832

Job	Truss	Truss Type	Qty	Ply	154670567
J1022-5104	A3	Roof Special	1	1	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:14 2022 Page 1

ID:3B2IIU9aTYR60tFvgEVAlyqBtk-Z1CvGxBKnzuaPjEHDe60DeFhMvnXXI2MwKfGnyUDcR



Scale = 1:66.1

Plate Offsets (X,Y)-- [2:0-4-0,0-3-0], [4:0-3-0,Edge], [6:0-3-11,0-9-1], [6:0-0-9,0-1-4], [10:0-6-0,0-2-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.12	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.16	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.71	Horz(CT) 0.03	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.02	10	>999	240	Weight: 196 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 *Except*
4-6: 2x6 SP No.1
BOT CHORD 2x4 SP No.1 *Except*
6-7: 2x6 SP No.1
WEBS 2x4 SP No.2
WEDGE
Right: 2x4 SP No.2

BRACING-

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

REACTIONS.

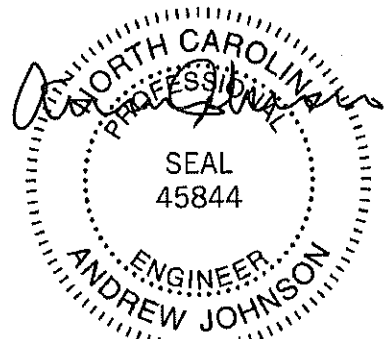
(size) 11=0-5-8, 8=0-3-8, 6=0-5-8
Max Horz 11=-255(LC 8)
Max Uplift 11=-36(LC 12), 8=-39(LC 12), 6=-46(LC 13)
Max Grav 11=569(LC 23), 8=1490(LC 19), 6=326(LC 24)

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

TOP CHORD 1-2=-770/136, 2-3=-346/249, 3-5=0/416, 5-6=-396/36, 1-11=-558/157
BOT CHORD 10-11=-247/317, 9-10=-197/672, 6-7=0/294
WEBS 2-10=-68/404, 2-9=-692/218, 3-9=-129/609, 3-8=-1008/96, 5-8=-646/271, 5-7=0/314, 1-10=0/474

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 13-7-11, Exterior(2) 13-7-11 to 18-0-8, Interior(1) 18-0-8 to 28-9-4 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Bearing at joint(s) 11, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 8, 6.
- Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



October 12, 2022

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818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	L	IS4670568
J1022-5104	A4	Roof Special	2	1		

Comtech, Inc. Fayetteville, NC - 28314, 8,430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:15 2022 Page 1
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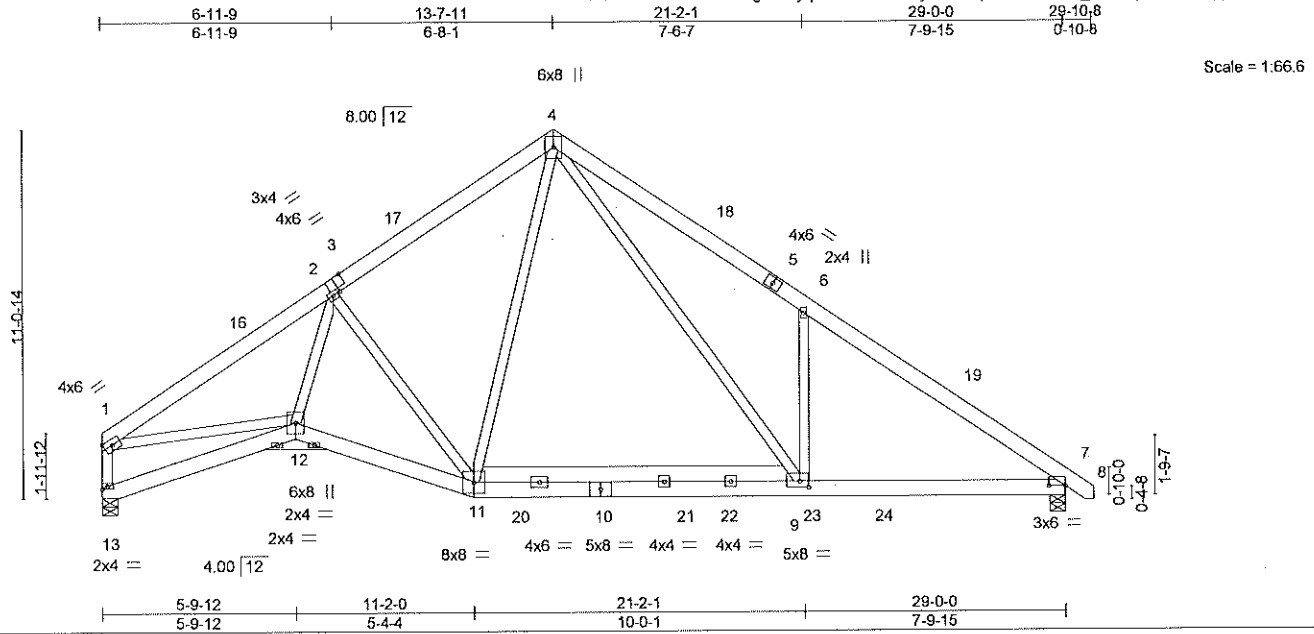


Plate Offsets (X,Y)-- [3:0-3:0,Edge], [7:0-6:0,0-0-1], [9:0-3:4,0-2-4]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (oc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.29	Vert(LL)	-0.10	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.50	Vert(CT)	-0.19	9-11	>999		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.89	Horz(CT)	0.06	7	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL)	0.04	7-9	>999		
							Weight: 248 lb	FT = 20%

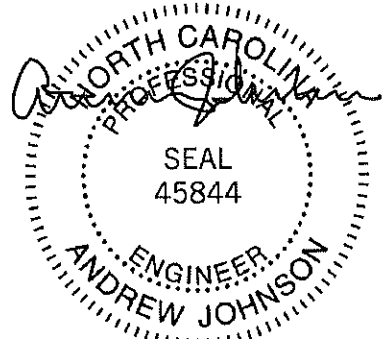
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 9-11: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 4-10-10 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 13=0-5-8, 7=0-5-8
 Max Horz 13=270(LC 8)
 Max Grav 13=1409(LC 19), 7=1586(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-2432/163, 2-4=-1595/267, 4-6=-2342/401, 6-7=-2333/151, 1-13=-1424/173
 BOT CHORD 12-13=-251/338, 11-12=0/1984, 9-11=0/1167, 7-9=0/1798
 WEBS 2-12=0/807, 2-11=-965/237, 4-11=0/758, 6-9=-557/382, 1-12=0/1829, 4-9=-217/1366

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 13-7-11, Exterior(2) 13-7-11 to 18-0-8, Interior(1) 18-0-8 to 29-8-15 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) 200.0lb AC unit load placed on the bottom chord, 15-0-0 from left end, supported at two points, 5-0-0 apart.
 - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 5) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 6) Bearing at joint(s) 13 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.



October 12, 2022

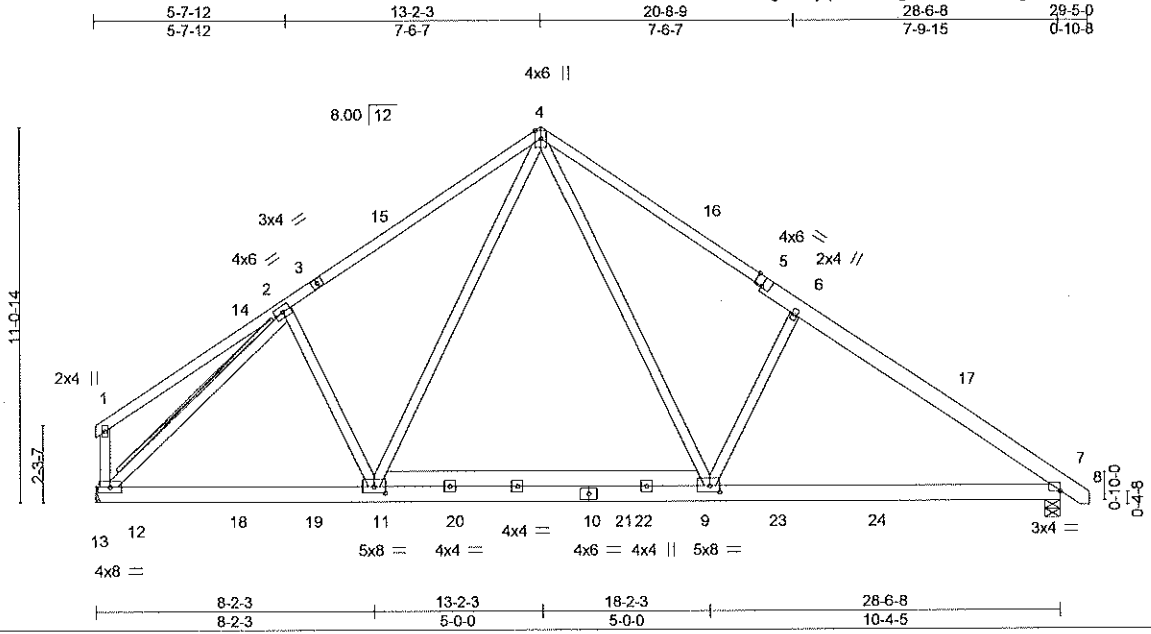
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A LINTEC Alliance</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	154670569
J1022-5104	A5	Common	1	1	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:16 2022 Page 1

ID:3B2liU9aTYR6OfFvgEVAlyq8tk-VQKfgcCbJb8HfzldPegaTRkVcAZX?UnLqEpMIGyUDcP



Scale = 1:65.4

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.81	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.64	Vert(LL) -0.09 7-9 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.56	Vert(CT) -0.17 7-9 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Horz(CT) 0.03 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.03 7-9 >999 240	Weight: 217 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.1 *Except*
5-8: 2x6 SP No.1
BOT CHORD 2x6 SP No.1
WEBS 2x4 SP No.2 *Except*
9-11: 2x6 SP No.1

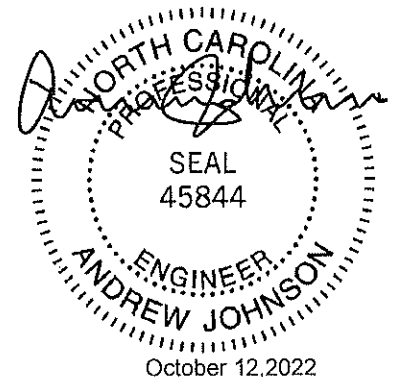
BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS T-Brace: 2x4 SPF No.2 - 2-12
Fasten (2X) T and I braces to narrow edge of web with 10d (0.131"x3") nails, 6in o.c., with 3in minimum end distance.
Brace must cover 90% of web length.

REACTIONS. (size) 12=Mechanical, 7=0-5-8
Max Horz 12=-256(LC 8)
Max Grav 12=1473(LC 19), 7=1504(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-4=-1671/243, 4-6=-1957/266, 6-7=-2091/173
BOT CHORD 11-12=0/1419, 9-11=0/1110, 7-9=-25/1620
WEBS 2-11=-161/266, 4-11=-10/675, 4-9=-67/1175, 6-9=-482/323, 2-12=-1709/61

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 13-2-3, Exterior(2) 13-2-3 to 17-7-0, Interior(1) 17-7-0 to 29-3-7 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 13-0-0 from left end, supported at two points, 5-0-0 apart.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss to truss connections.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.

LOAD CASE(S) Standard
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-4=-60, 4-8=-60, 7-13=-20
Concentrated Loads (lb)
Vert: 20=-100 21=100



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TP1 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
A MITEK COMPANY
818 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	Lt	154670570
J1022-5104	A6	COMMON	3	1		

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MITek Industries, Inc. Wed Oct 12 07:43:17 2022 Page 1
 ID:3B2llIU9aTYR6OIFvgEVAlyq8tk-ct1uyDD4uH8G7SpyMBpOfGmRaxukuWW2uYvHiyUDcO

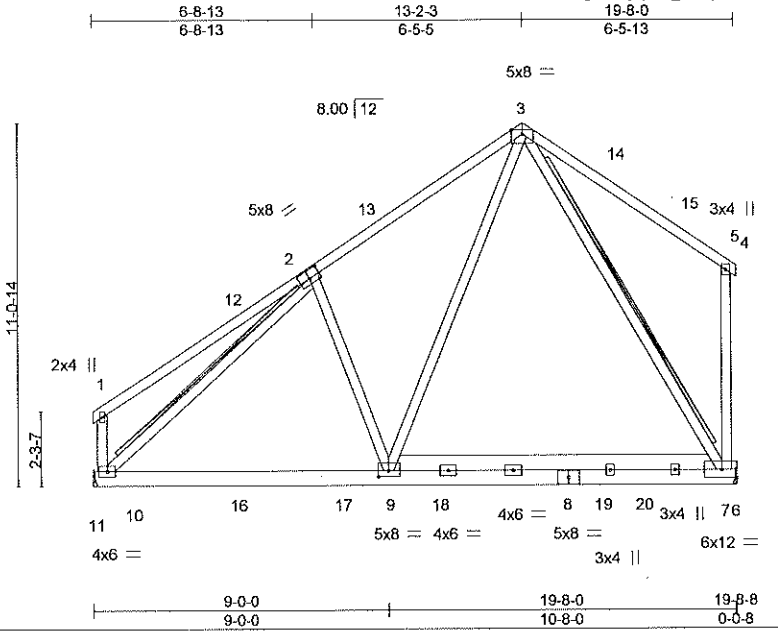


Plate Offsets (X,Y)-- [2:0-4-0,0-3-0], [9:0-3-12,0-2-4]

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 0.42	Vert(LL)	-0.08	7-9	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.50	Vert(CT)	-0.14	7-9	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.72	Horz(CT)	0.01	7	n/a		
BCDL 10.0	Code	IRC2015/TP12014	Matrix-S	Wind(LL)	0.01	9	>999	Weight: 173 lb	FT = 20%

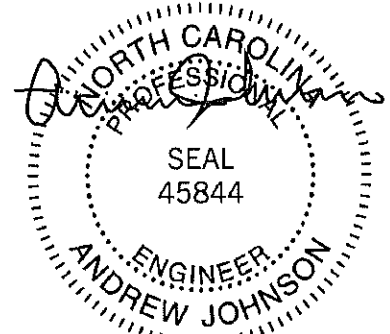
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2 *Except*
 7-9: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-9-8 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 2-10, 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) 10=Mechanical, 7=Mechanical
 Max Horz 10=198(LC 9)
 Max Grav 10=1032(LC 19), 7=1197(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1053/168, 4-7=-258/186
 BOT CHORD 9-10=-129/933, 7-9=-23/467
 WEBS 2-9=-319/285, 3-9=0/1032, 2-10=-1026/0, 3-7=-874/23

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, interior(1) 4-8-1 to 13-2-3, Exterior(2) 13-2-3 to 17-7-0, Interior(1) 17-7-0 to 19-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 200.0lb AC unit load placed on the bottom chord, 13-0-0 from left end, supported at two points, 5-0-0 apart.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Refer to girder(s) for truss connections.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



October 12, 2022

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Job	Truss	Truss Type	Qty	Ply	I	154670571
J1022-5104	A7	COMMON	5	1		

Comtech, Inc. Fayetteville, NC - 28314.

8.430 s Jan 6 2022 MITek Industries, Inc. Wed Oct 12 07:43:18 2022 Page 1
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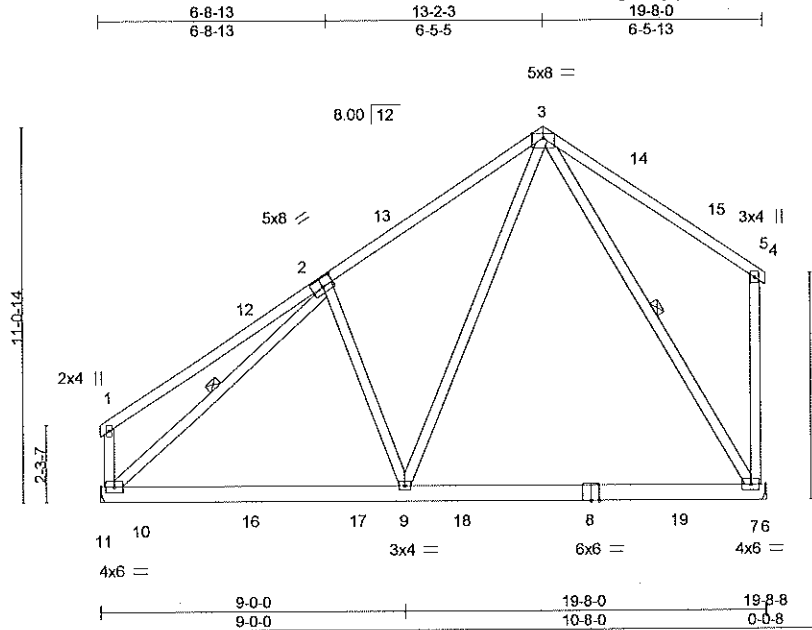


Plate Offsets (X,Y)-- [2:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	i/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.42	Ver(LL)	-0.28	7-9	>814	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.66	Ver(CT)	-0.36	7-9	>632		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.53	Horz(CT)	0.01	7	n/a		n/a
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Wind(LL)	0.01	9	>999	Weight: 150 lb	FT = 20%
	Code IRC2015/TPI2014							

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.
 WEBS 1 Row at midpt 2-10, 3-7

REACTIONS.

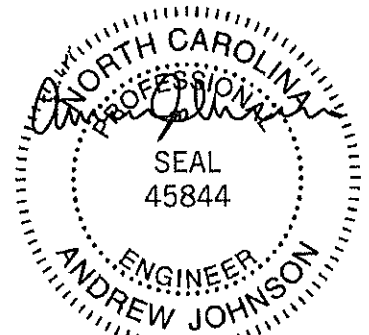
(size) 10=Mechanical, 7=Mechanical
 Max Horz 10=198(LC 9)
 Max Uplift 10=-13(LC 12), 7=-71(LC 12)
 Max Grav 10=965(LC 19), 7=1075(LC 19)

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

TOP CHORD 2-3=-960/265, 4-7=-258/185
 BOT CHORD 9-10=-195/850, 7-9=-59/430
 WEBS 2-9=-345/267, 3-9=-112/918, 2-10=-947/37, 3-7=-795/96

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 13-2-3, Exterior(2) 13-2-3 to 17-7-0, Interior(1) 17-7-0 to 19-8-8 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 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) 10, 7.



October 12, 2022

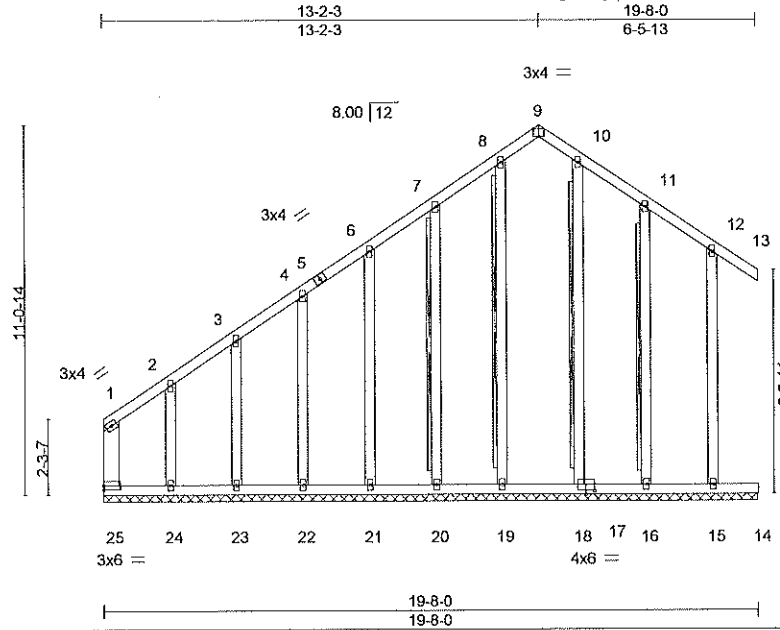
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use,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

ENGINEERING BY
TRENCO
 A MITEK COMPANY
 818 Soundside Road
 Edenton, NC 27832

Job	Truss	Truss Type	Qty	Ply	L	154670572
J1022-5104	A8	GABLE	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:19 2022 Page 1
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Scale = 1:66.4

Plate Offsets (X,Y)-- [9:0-2-0,Edge], [17:0-3-0,0-1-4]

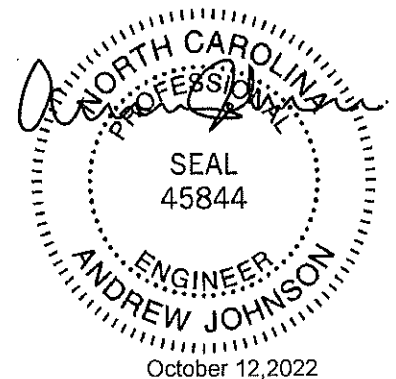
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.34	Vert(LL)	-0.01 13	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.41	Vert(CT)	-0.01 12-13	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.16	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 164 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 2x6 SP No.1	WEBS T-Brace: 2x4 SPF No.2 - 8-19, 7-20, 10-18, 11-16
OTHERS 2x4 SP No.2	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 19-8-0.
 (lb) - Max Horz 25=295(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 19, 21, 23, 15 except 25=401(LC 10), 20=-111(LC 12), 22=-116(LC 12), 24=-618(LC 12), 16=-115(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 23, 16, 15 except 25=599(LC 12), 19=308(LC 19), 24=508(LC 10), 18=261(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-25=-352/247, 1-2=-441/333
 WEBS 2-24=-325/350

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vuil=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-2-12 to 4-7-9, Exterior(2) 4-7-9 to 13-2-3, Corner(3) 13-2-3 to 17-7-0, Exterior(2) 17-7-0 to 19-8-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 19, 21, 23, 15 except (it=lb) 25=401, 20=111, 22=116, 24=618, 16=115.
 - Non Standard bearing condition. Review required.
 - Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



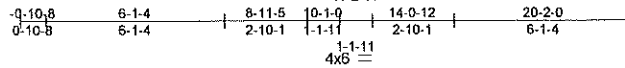
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small> 818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	154670573
J1022-5104	B1	ATTIC	1	1	

Comtech, Inc. Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:20 2022 Page 1

ID:3B2llU9aTYR6OIFvgEVALyq8tk-OBZAW_F5Npfj7aAOeUIWdHu9Dny5xPmXlnZu1yUDcL



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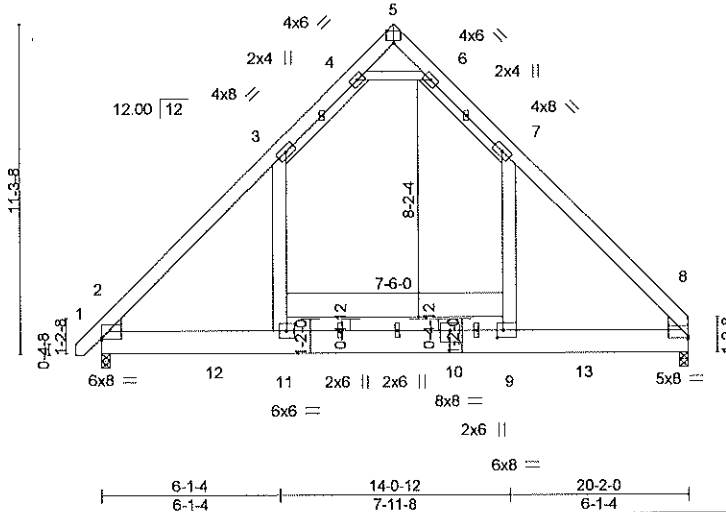


Plate Offsets (X,Y)-- [2:0-0-0,0-0-12], [5:0-3-0,Edge], [8:0-0-0,0-1-0], [9:0-2-8,0-3-0], [10:0-4-0,0-5-0]

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 0.90	Vert(LL)	-0.15	9-11	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.27	9-11	>874		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.01	8	n/a		n/a
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.12	9-11	>999		240
								Weight: 215 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 4-6: 2x4 SP No.1, 3-4,6-7: 2x4 SP No.2

WEDGE

Left: 2x6 SP No.2, Right: 2x6 SP No.2

REACTIONS.

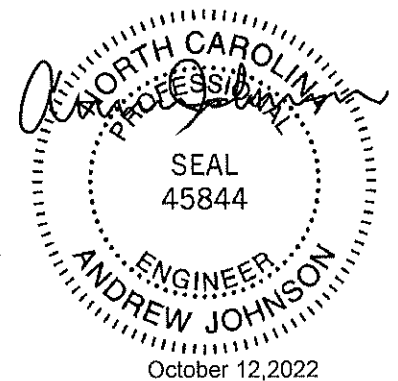
(size) 2=0-3-8, 8=0-3-8
 Max Horz 2=322(LC 9)
 Max Grav 2=1362(LC 20), 8=1323(LC 20)

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

TOP CHORD 2-3=-1649/28, 3-4=-838/167, 4-5=-135/658, 5-6=-128/652, 6-7=-847/173, 7-8=-1623/20
 BOT CHORD 2-11=0/977, 9-11=0/977, 8-9=0/977
 WEBS 4-6=-1763/444, 3-11=-277/60, 7-9=-33/716

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-14 to 3-7-15, Exterior(2) 3-7-15 to 10-1-0, Corner(3) 10-1-0 to 14-5-13, Exterior(2) 14-5-13 to 20-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s). 3-11, 7-9
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
- 7) Attic room checked for L/360 deflection.



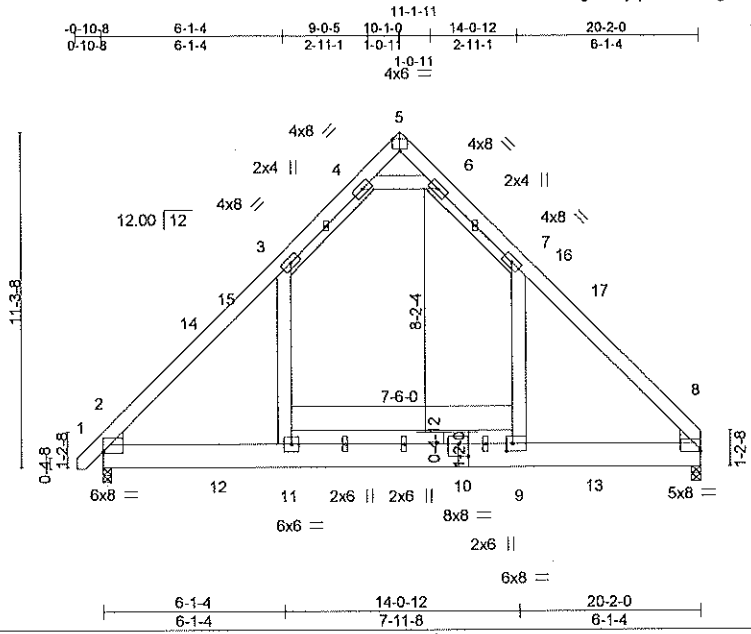
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MITEK AFFILIATE
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	1	154670574
J1022-5104	B2	ATTIC	2	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:22 2022 Page 1
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Scale = 1:74.6

Plate Offsets (X,Y)--	[2:0-0,0,0-0-12], [5:0-3-0,Edge], [8:0-0-0,0-1-0], [9:0-2-8,0-3-0], [10:0-4-0,0-5-0]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.93	Vert(LL)	-0.16	9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.48	Vert(CT)	-0.28	9-11	>853	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.10	Horz(CT)	0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.09	9-11	>999	240	Weight: 217 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x10 SP No.1
 WEBS 2x6 SP No.1 *Except*
 3-4,6-7: 2x4 SP No.2

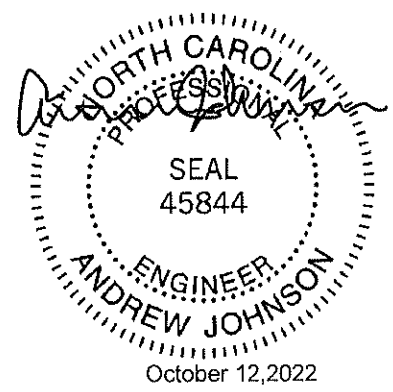
WEDGE
 Left: 2x6 SP No.2 , Right: 2x6 SP No.2

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

REACTIONS. (size) ,2=0-3-8, 8=0-3-8
 Max Horz 2=258(LC 9)
 Max Grav 2=1367(LC 20), 8=1328(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1626/0, 3-4=-835/140, 4-5=-127/715, 5-6=-113/709, 6-7=-844/149, 7-8=-1600/0
 BOT CHORD 2-11=0/950, 9-11=0/950, 8-9=0/950
 WEBS 4-6=-1854/365, 3-11=0/753, 7-9=-0/714

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-14 to 3-7-15, Interior(1) 3-7-15 to 10-1-0, Exterior(2) 10-1-0 to 14-5-13, Interior(1) 14-5-13 to 20-0-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-11, 7-9
 - 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
 - 7) Attic room checked for L/360 deflection.



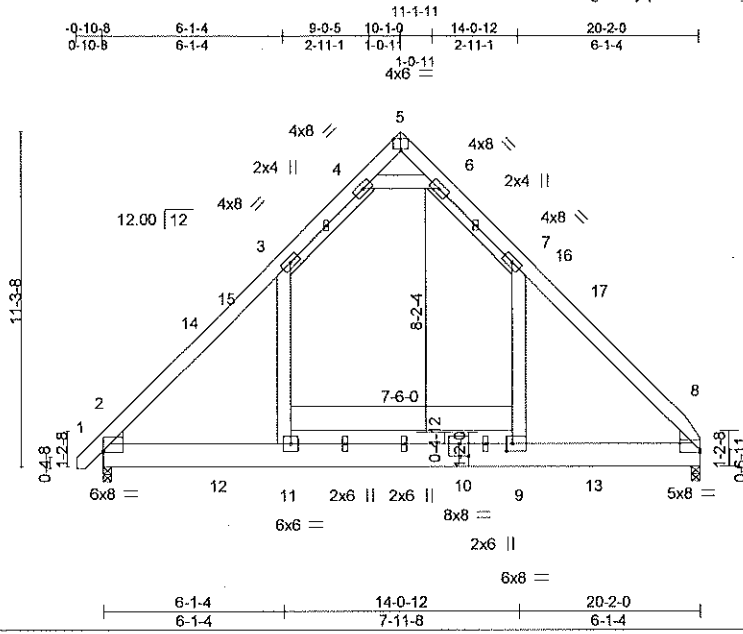
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO A LEB-K ATHLETE</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	154670575
J1022-5104	B3	ATTIC	2	1	

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:23 2022 Page 1

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Scale = 1:74.6

Plate Offsets (X,Y)--	[2:0-0-0,0-0-12], [5:0-3-0,Edge], [8:0-0-0,0-1-0], [9:0-2-8,0-3-0], [10:0-4-0,0-5-0]							
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 0.93	Vert(LL) -0.16	9-11	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.28	9-11	>853	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.10	Horz(CT) 0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.09	9-11	>999	240	Weight: 217 lb	FT = 20%

LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x10 SP No.1
WEBS 2x6 SP No.1 *Except*
3-4,6-7: 2x4 SP No.2

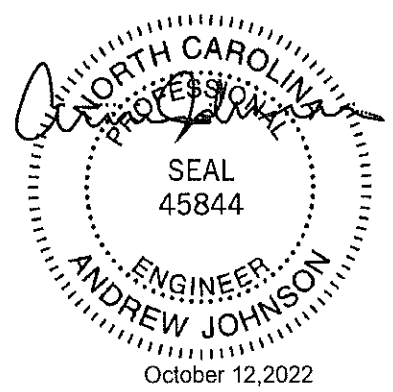
BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

WEDGE
Left: 2x6 SP No.2 , Right: 2x6 SP No.2

REACTIONS. (size) 2=0-3-8, 8=0-3-8
Max Horz 2=258(LC 11)
Max Grav 2=1367(LC 20), 8=1328(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1626/0, 3-4=-835/140, 4-5=-127/715, 5-6=-113/709, 6-7=-844/149, 7-8=-1600/0
BOT CHORD 2-11=0/950, 9-11=0/950, 8-9=0/950
WEBS 4-6=-1854/365, 3-11=0/753, 7-9=0/714

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-14 to 3-7-15, Interior(1) 3-7-15 to 10-1-0, Exterior(2) 10-1-0 to 14-5-13, Interior(1) 14-5-13 to 20-0-4 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-11, 7-9
 - Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-11
 - Attic room checked for L/360 deflection.



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

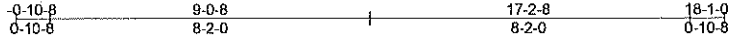
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TRENCO
A MiTek Affiliate

818 Soundside Road
Edenton, NC 27932

Job J1022-5104	Truss C1	Truss Type GABLE	Qty 1	Ply 1	154670576
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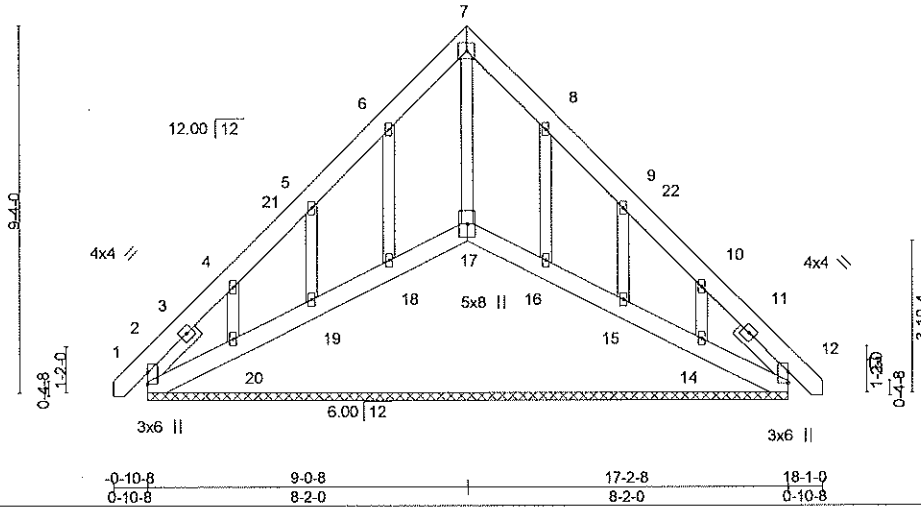
Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:24 2022 Page 1
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5x5 =

Scale = 1:56.4



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 0.05	Vert(LL) -0.00 12 n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL 1.15		BC 0.04	Vert(CT) -0.00 12 n/r	120		
BCLL 0.0 *	Rep Stress Incr YES		WB 0.10	Horz(CT) 0.00 12 n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S			Weight: 139 lb	FT = 20%

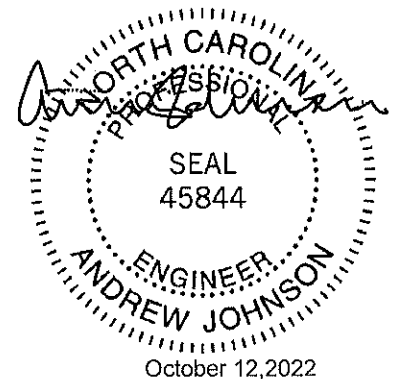
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 OTHERS 2x4 SP No.2
 SLIDER Left 2x4 SP No.2 1-10-3, Right 2x4 SP No.2 1-10-3

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

REACTIONS. All bearings 16-4-0.
 (lb) - Max Horz 2=267(LC 11)
 Max Uplift All uplift 100 lb or less at joint(s) 12 except 2=223(LC 8), 17=101(LC 11), 18=124(LC 12), 19=125(LC 12), 20=279(LC 12), 16=115(LC 13), 15=131(LC 13), 14=258(LC 13)
 Max Grav All reactions 250 lb or less at joint(s) 12, 18, 19, 16, 15, 14 except 2=307(LC 20), 17=488(LC 13), 20=253(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-288/233, 6-7=-247/254
 WEBS 7-17=-263/200, 4-20=-244/266

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-8-14 to 3-7-15, Interior(1) 3-7-15 to 8-2-0, Exterior(2) 8-2-0 to 12-6-13, Interior(1) 12-6-13 to 17-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12 except (jt=lb) 2=223, 17=101, 18=124, 19=125, 20=279, 16=115, 15=131, 14=258.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



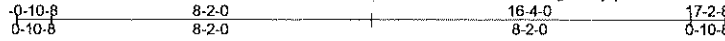
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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Job	Truss	Truss Type	Qty	Ply	154670577
J1022-5104	C2	SCISSORS	1	1	

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:25 2022 Page 1
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5x5 =

Scale = 1:56.3

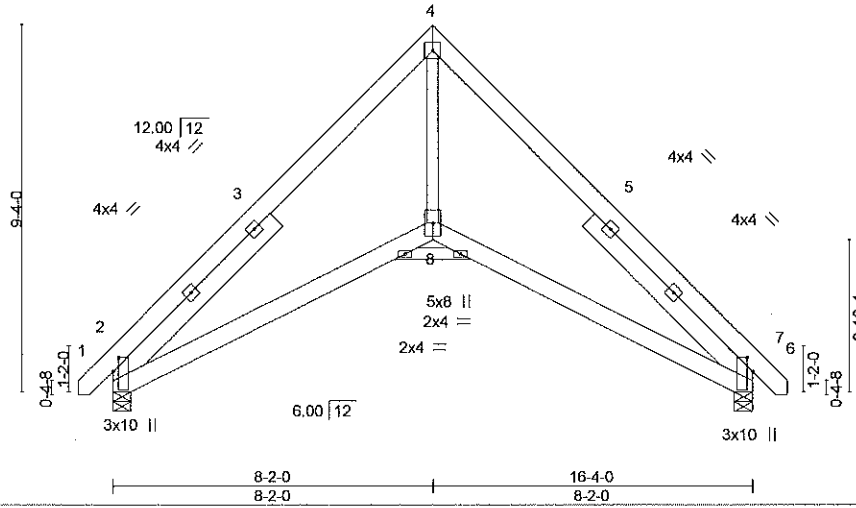


Plate Offsets (X,Y)-- [2:0-4-4,0-1-11], [6:0-4-4,0-1-11]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	-0.04	6-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.08	6-8	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.04	6	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	-0.03	8	>999	240		
									Weight: 141 lb	FT = 20%

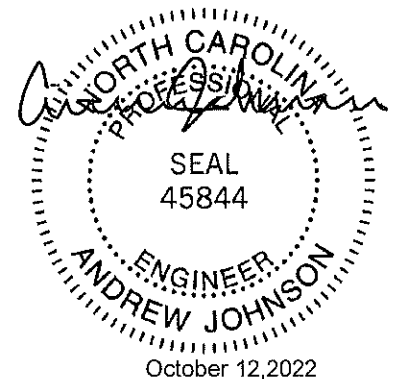
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 5-10-1, Right 2x6 SP No.1 5-10-1

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

REACTIONS. (size) 2=0-5-8, 6=0-5-8
 Max Horz 2=213(LC 11)
 Max Uplift 2=-28(LC 12), 6=-28(LC 13)
 Max Grav 2=694(LC 1), 6=694(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-4=-971/78, 4-6=-996/76
 BOT CHORD 2-8=-50/744, 6-8=-38/734
 WEBS 4-8=0/799

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-8-14 to 3-7-15, Interior(1) 3-7-15 to 8-2-0, Exterior(2) 8-2-0 to 12-6-13, Interior(1) 12-6-13 to 17-0-14 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



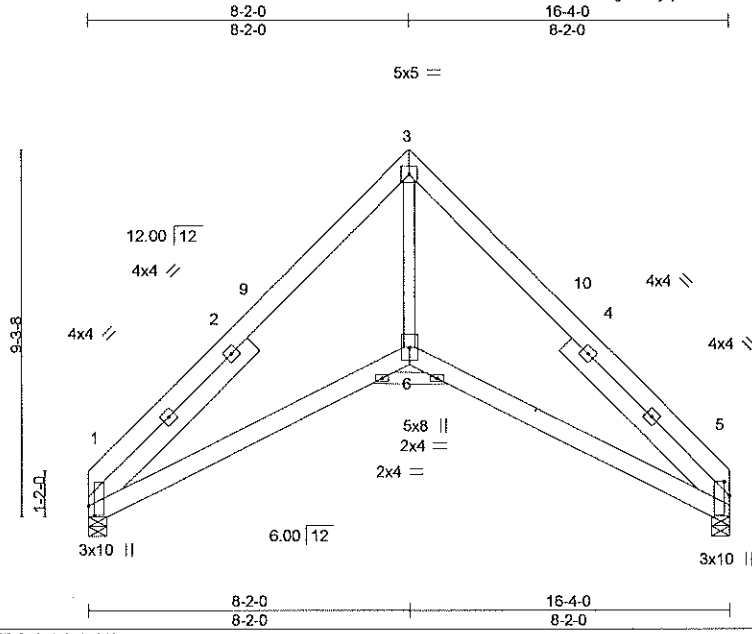
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Job	Truss	Truss Type	Qty	Ply	154670578
J1022-5104	C3	Scissor	4	1	

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:26 2022 Page 1
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Scale = 1:56.3

Plate Offsets (X,Y) -- [1:0-2-15,0-1-11], [5:0-4-4,0-1-11]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.30	Vert(LL)	-0.04	5-6	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.21	Vert(CT)	-0.08	5-6	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.05	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	-0.03	6	>999	240		
									Weight: 136 lb	FT = 20%

LUMBER-

TOP CHORD 2x6 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 SLIDER Left 2x6 SP No.1 5-10-1, Right 2x6 SP No.1 5-10-1

BRACING-

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

REACTIONS.

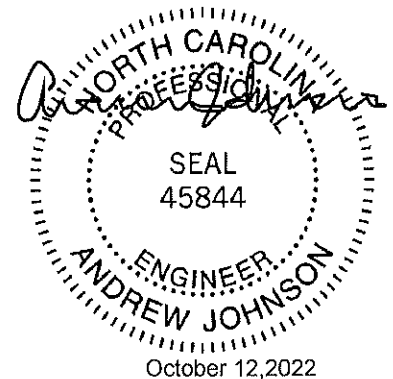
(size) 1=0-5-8, 5=0-5-8
 Max Horz 1=-213(LC 10)
 Max Uplift 1=-26(LC 13), 5=-26(LC 12)
 Max Grav 1=637(LC 1), 5=637(LC 1)

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

TOP CHORD 1-3=-978/85, 3-5=-1002/78
 BOT CHORD 1-6=-51/749, 5-6=-39/740
 WEBS 3-6=0/805

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-2-7 to 4-7-4, Interior(1) 4-7-4 to 8-2-0, Exterior(2) 8-2-0 to 12-6-13, Interior(1) 12-6-13 to 16-1-9 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Bearing at joint(s) 1, 5 considers parallel to grain value using ANSITPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



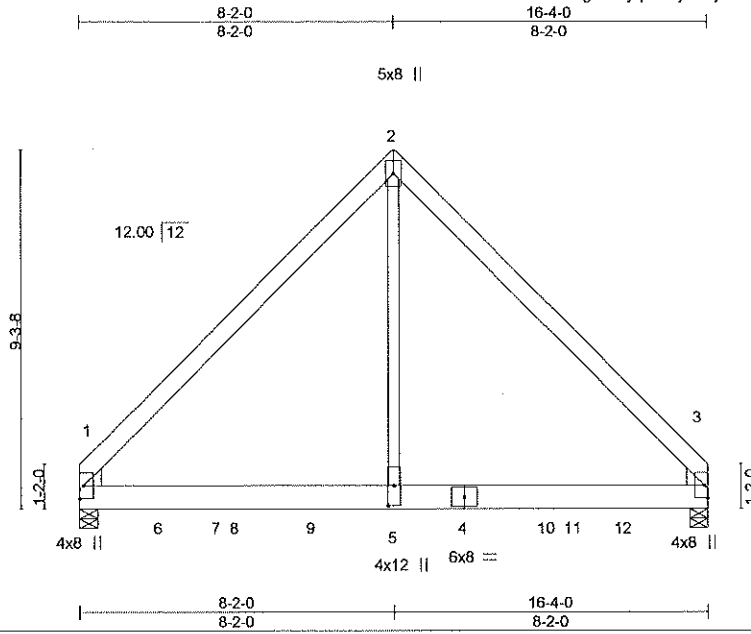
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ENGINEERING BY
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 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	154670579
J1022-5104	C4	Common Girder	1	2	

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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:28 2022 Page 1
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Scale = 1:57.4

Plate Offsets (X,Y)-- {5:0-6-4,0-2-0}

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	Vert(LL)	-0.10	3-5	>999	360	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.75	Vert(CT)	-0.18	3-5	>999	240		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.66	Horz(CT)	0.01	3	n/a	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-S	Wind(LL)	0.06	1-5	>999	240		
	Code IRC2015/TPI2014							Weight: 241 lb	FT = 20%

LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x8 SP 2400F 2.0E *Except*
 3-4: 2x8 SP No.1
 WEBS 2x4 SP No.2
 WEDGE
 Left: 2x6 SP No.1, Right: 2x6 SP No.1

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

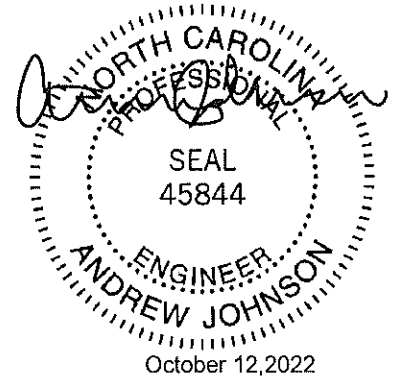
REACTIONS. (size) 1=0-5-8, 3=0-5-8
 Max Horz 1=209(LC 5)
 Max Uplift 1=-149(LC 9)
 Max Grav 1=4296(LC 2), 3=5493(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-4066/48, 2-3=-4058/61
 BOT CHORD 1-5=0/2685, 3-5=0/2685
 WEBS 2-5=0/5383

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
 Bottom chords connected as follows: 2x8 - 2 rows staggered at 0-9-0 oc.
 Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
 - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
 - Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); Lumber DOL=1.60 plate grip DOL=1.60
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (It=lb) 1=-149.
 - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1002 lb down and 91 lb up at 2-0-12, 958 lb down and 91 lb up at 4-0-12, 942 lb down and 91 lb up at 6-0-12, 951 lb down and 91 lb up at 8-0-12, 942 lb down and 91 lb up at 10-0-12, 1074 lb down at 12-0-12, and 1124 lb down at 14-0-12, and 1134 lb down at 16-1-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

LOAD CASE(S) Standard

Continued on page 2



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITP11 Quality Criteria, DSB-89 and BCS1 Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERED BY
TRENCO
 A MITEK COMPANY
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	1	5	154670579
J1022-5104	C4	Common Girder	1	2			

Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:28 2022 Page 2
 ID:3B2lllU9aTYR6OIFvgEVAlyq8tk-9j2CCjM6UGtb5pnw6AuOyzDc97dft66a5j_AZyUdCd

LOAD CASE(S) Standard

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

Uniform Loads (plf)

Vert: 1-2=-60, 2-3=-60, 1-3=-20

Concentrated Loads (lb)

Vert: 4=-770(B) 5=-770(B) 3=-913(B) 6=-770(B) 8=-770(B) 9=-770(B) 10=-903(B) 12=-903(B)

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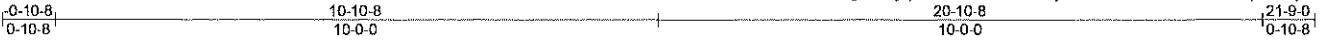


818 Soundside Road
 Edenton, NC 27932

Job J1022-5104	Truss G1	Truss Type COMMON SUPPORTED GAB	Qty 1	Ply 1	I54670580
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MITek Industries, Inc. Wed Oct 12 07:43:29 2022 Page 1
ID:3B2#U9aTYR6OIFvgEVAlyq8Ik-dwcaP3MkFanRjzM7ftPdVAmwYP8CYU9GpITYdyUDcC



Scale = 1:36.5

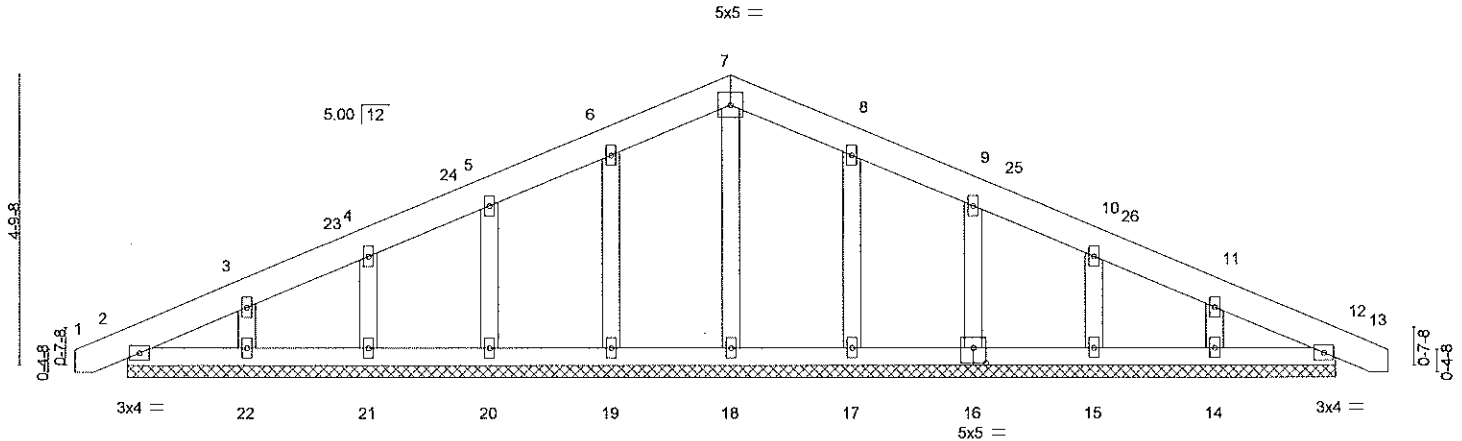


Plate Offsets (X,Y)--	[16:0-2-8,0-3-0]	20-10-8	21-9-0
		20-0-0	0-10-8

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.03	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.02	Vert(CT)	0.00	12	n/r	120		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	12	n/a	n/a		
BCDL 10.0	Code	IRC2015/TPI2014	Matrix-S						Weight: 115 lb	FT = 20%

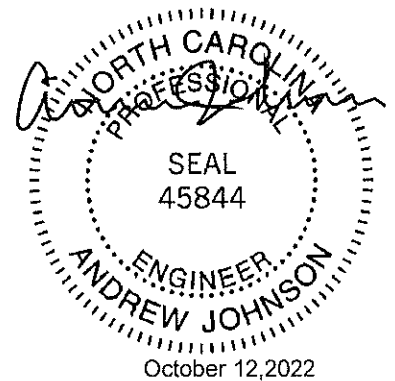
LUMBER-
TOP CHORD 2x6 SP No.1
BOT CHORD 2x4 SP No.1
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 20-0-0.
(b) - Max Horz 2=90(LC 17)
Max Uplift All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12
Max Grav All reactions 250 lb or less at joint(s) 2, 18, 19, 20, 21, 22, 17, 16, 15, 14, 12

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; Vu11=130mph Vasd=103mph; TCdL=6.0psf; BCdL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-12 to 3-8-1, Exterior(2) 3-8-1 to 10-0-0, Corner(3) 10-0-0 to 14-4-13, Exterior(2) 14-4-13 to 20-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



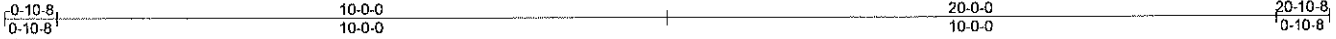
<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20681</p>	<p>ENGINEERING BY TRENCO A TRUCK AFFILIATE</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	154670581
J1022-5104	G2	COMMON	5	1	

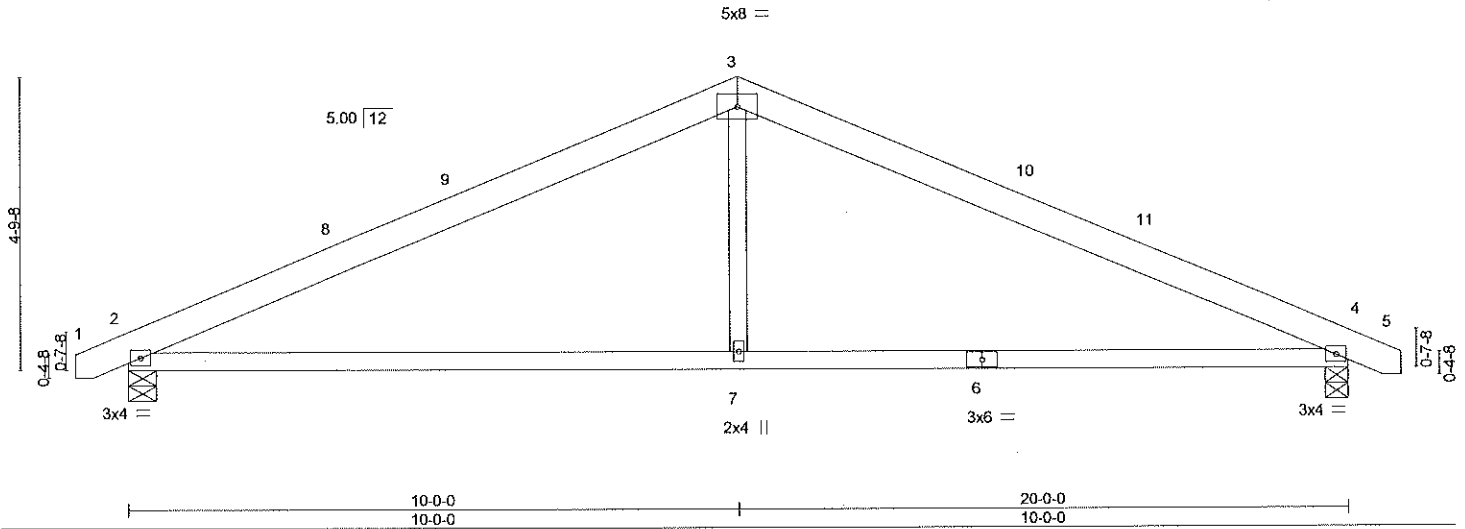
Comtech, Inc. Fayetteville, NC - 28314.

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:30 2022 Page 1

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Scale = 1:36.2



LOADING (psf)	SPACING	CSI	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.58	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.74	Vert(LL) -0.17 4-7 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.10	Vert(CT) -0.36 4-7 >653 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 4 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.05 4-7 >999 240	Weight: 91 lb	FT = 20%

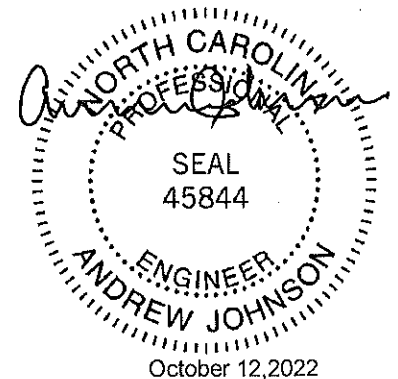
LUMBER-
 TOP CHORD 2x6 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2

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

REACTIONS. (size) 2=0-5-8, 4=0-4-8
 Max Horz 2=-54(LC 17)
 Max Uplift 2=-62(LC 12), 4=-62(LC 13)
 Max Grav 2=841(LC 1), 4=838(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1186/283, 3-4=-1185/283
 BOT CHORD 2-7=-135/1007, 4-7=-135/1007
 WEBS 3-7=0/454

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-12 to 3-8-1, Interior(1) 3-8-1 to 10-0-0, Exterior(2) 10-0-0 to 14-4-13, Interior(1) 14-4-13 to 20-8-12 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
 - See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



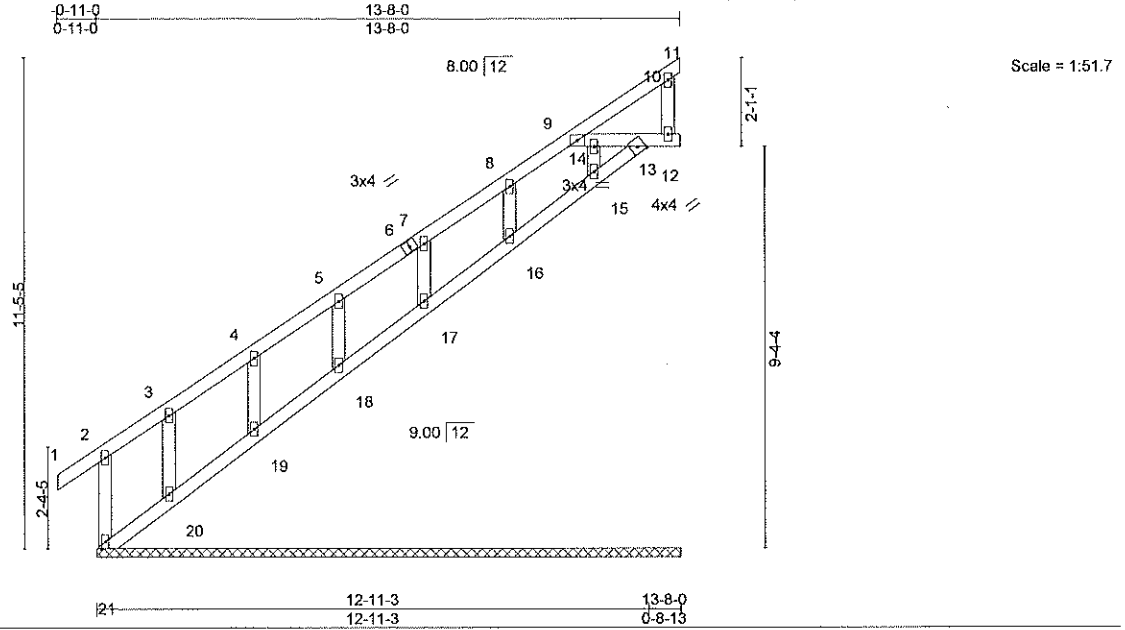
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
 A MITEK COMPANY
 818 Soundside Road
 Edenton, NC 27932

Job J1022-5104	Truss J1	Truss Type GABLE	Qty 1	Ply 1	154670582
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:31 2022 Page 1
ID:3B2iIU9aTYR6OtFvgEVALyq8tk-ZlkKqIO?nB19yHWWnIR5abrErDpT?OpYG3yfnuyUDca



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.11	in (loc) l/def L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.10	Vert(LL) 0.00 1 n/r 120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Vert(CT) 0.00 1 n/r 120		
BCDL 10.0	Rep Stress Incr YES	Matrix-R	Horz(CT) -0.02 11 n/a n/a		
	Code IRC2015/TP12014			Weight: 73 lb	FT = 20%

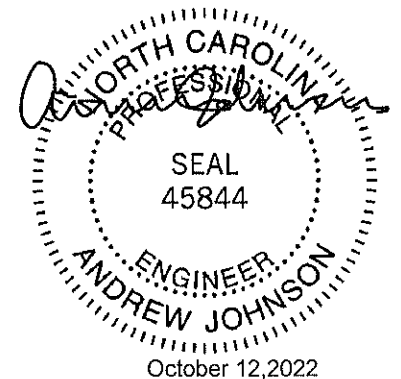
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2
OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 13-8-0.
(lb) - Max Horz 21=450(LC 12)
Max Uplift All uplift 100 lb or less at joint(s) 21, 11, 12, 16, 18, 19 except 13=-340(LC 12), 17=-104(LC 12), 20=-112(LC 12)
Max Grav All reactions 250 lb or less at joint(s) 12, 13, 15, 16, 17, 18, 19, 20 except 21=286(LC 12)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 5-7=-206/268, 7-8=-273/349, 8-9=-299/374
BOT CHORD 20-21=-557/444, 19-20=-544/434, 18-19=-548/436, 17-18=-548/435, 16-17=-548/435, 15-16=-548/435, 13-15=-543/424, 9-14=-325/416, 13-14=-325/416

- NOTES-**
- 1) Wind: ASCE 7-10; Vuft=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-11-0 to 3-8-0, Exterior(2) 3-8-0 to 13-8-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Gable studs spaced at 2-0-0 oc.
 - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 7) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 8) Bearing at joint(s) 21, 11, 13, 15, 16, 17, 18, 19, 20 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 11, 12, 16, 18, 19 except (jt=lb) 13=340, 17=104, 20=112.
 - 10) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 11, 12, 13, 15, 16, 17, 18, 19, 20.



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

Job J1022-5104	Truss J2	Truss Type MONOPITCH	Qty 9	Ply 1	154670583
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8.430 s Jan 6 2022 MITek Industries, Inc. Wed Oct 12 07:43:32 2022 Page 1

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Scale = 1:65.6

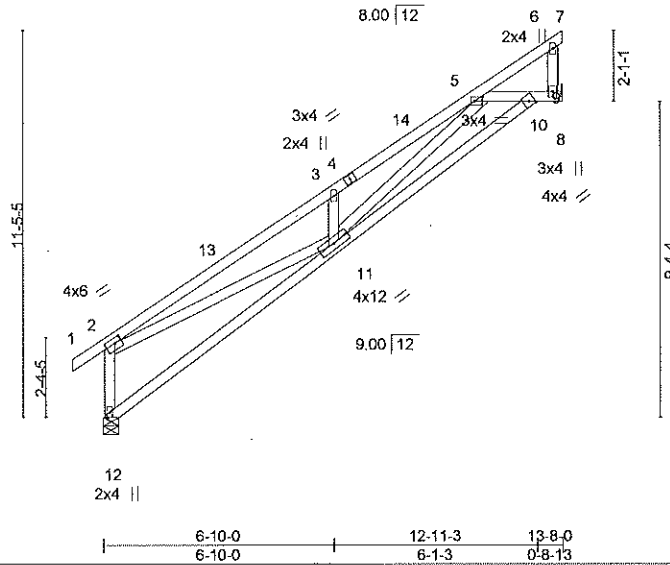


Plate Offsets (X,Y)-- [2:0-2-8,0-1-12], [5:0-2-14,0-1-8]

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 0.41	Vert(LL)	-0.07 11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.31	Vert(CT)	-0.16 11-12	>986	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.03 9	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.07 11	>999	240	Weight: 81 lb	FT = 20%

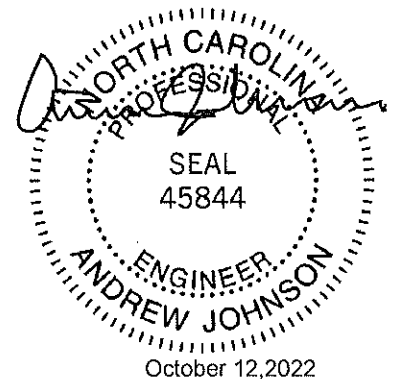
LUMBER-
TOP CHORD 2x4 SP No.1
BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-3-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 7-11-9 oc bracing.

REACTIONS. (size) 12=0-5-8, 9=Mechanical
Max Horz 12=311(LC 12)
Max Uplift 9=209(LC 12)
Max Grav 12=597(LC 1), 9=595(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-671/361, 2-3=-1619/567, 3-5=-1729/710
BOT CHORD 11-12=-569/616, 10-11=-615/1231, 5-10=-863/427
WEBS 2-11=-316/1221, 3-11=-408/251, 5-11=-369/827

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-11-0 to 3-5-13, Interior(1) 3-5-13 to 13-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Bearing at joint(s) 12 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=209.



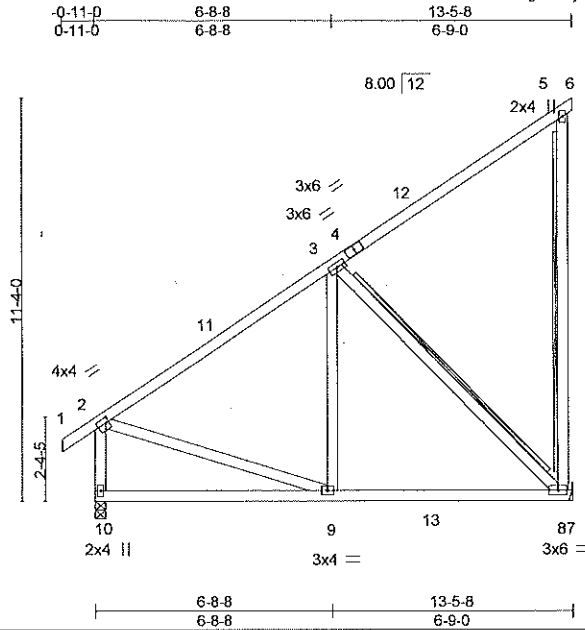
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ENGINEERING BY
TRENCO
A MITEK AFFILIATE
816 Soundside Road
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	154670584
J1022-5104	J3	MONOPITCH	1	1	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:33 2022 Page 1
 ID:3B2IIIJ9aTYR6OIFvgEVALyq8tk-Whr5FQQFJpI8BaguuJUZf0xVT0QOTEKrkNrImyUDc8



Scale = 1:62.3

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.42	Vert(LL)	-0.08	8-9	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.12	8-9	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.28	Horz(CT)	0.01	8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.00	9	>999	240		
									Weight: 97 lb	FT = 20%

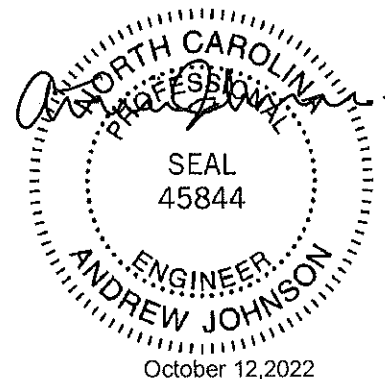
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 Rigid ceiling directly applied or 9-7-1 oc bracing.
 BOT CHORD T-Brace: 2x4 SPF No.2 - 5-8, 3-8
 WEBS 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=Mechanical, 10=0-3-8
 Max Horz 10=306(LC 12)
 Max Uplift 8=203(LC 12)
 Max Grav 8=685(LC 19), 10=604(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-504/0, 2-10=-558/34
 BOT CHORD 9-10=-426/430, 8-9=-194/427
 WEBS 3-9=0/272, 3-8=-593/270, 2-9=-3/369

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-10-8 to 3-6-5, Interior(1) 3-6-5 to 13-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 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 100 lb uplift at joint(s) except (jt=lb) 8=203.
 - 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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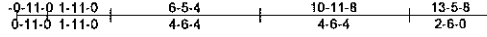
ENGINEERING BY
TRENCO
 A MITEK AFFILIATE
 818 Soundside Road
 Eden, NC 27932

Job	Truss	Truss Type	Qty	Ply	154670585
J1022-5104	J4	MONOPITCH	1	1	

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:34 2022 Page 1

ID:3B2IIU9aTYR6OIFvgEVAlyq8ik-IPtSmQt46QkpKf4SQ?oCEtGsqmXChf2z1AJNDyUDc7



Scale = 1:66.6

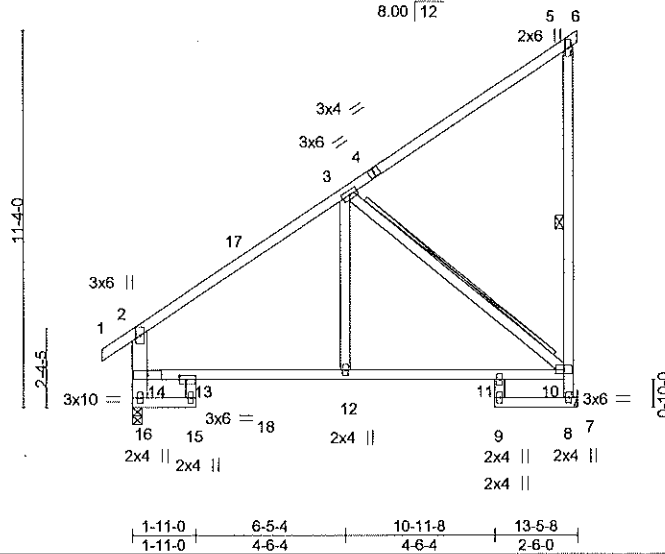


Plate Offsets (X,Y)-- [13:0-2-8,0-1-8]

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 0.40	Vert(LL)	-0.05 11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.33	Vert(CT)	-0.12 11-12	>999	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.27	Horz(CT)	0.03 8	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S	Wind(LL)	0.07 12-13	>999	240	Weight: 94 lb	FT = 20%

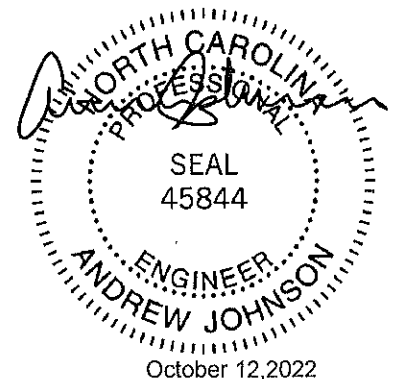
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1 *Except*
 13-15,9-11: 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 2-16: 2x6 SP No.1

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
 WEBS 1 Row at midpt 5-8
 T-Brace: 2x4 SPF No.2 - 3-10
 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=Mechanical, 16=0-3-8
 Max Horz 16=306(LC 12)
 Max Uplift 8=204(LC 12)
 Max Grav 8=641(LC 19), 16=635(LC 19)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-569/0, 8-10=-653/292, 14-16=-565/119, 2-14=-515/121
 BOT CHORD 15-16=-350/148, 13-14=0/641, 12-13=-259/515, 11-12=-259/515, 10-11=-274/514
 WEBS 3-10=-648/333, 3-12=-13/271

- NOTES-**
- 1) Wind: ASCE 7-10; Vull=130mph Vasd=103mph; TCCL=6.0psf; BCCL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 13-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCCL = 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 100 lb uplift at joint(s) except (it=lb) 8=204.
 - 6) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



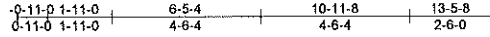
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSIP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

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TRENCO
 A MiTek Alliance
 818 Soundside Road
 Edenport, NC 27832

Job	Truss	Truss Type	Qty	Ply	
J1022-5104	J5	ROOF SPECIAL	6	1	154670586

Comtech, Inc, Fayetteville, NC - 28314,

8,430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:35 2022 Page 1
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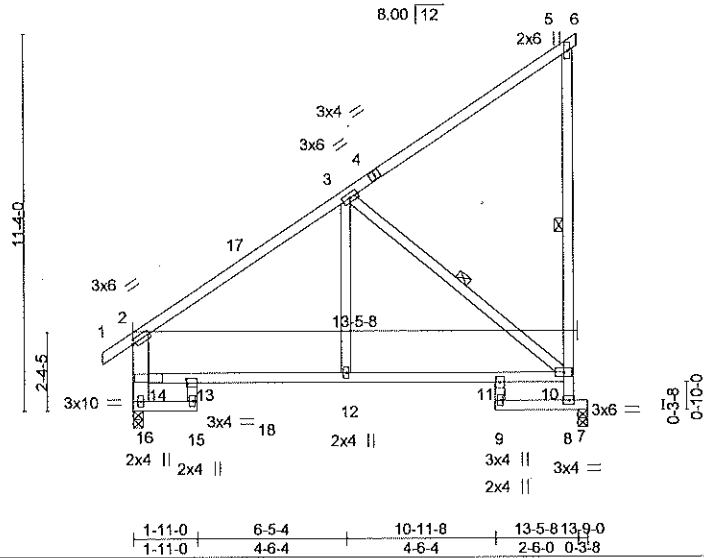


Plate Offsets (X,Y)-- [2:0-1-0,0-1-8], [13:0-0-8,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.41	Vert(LL) -0.08	11-12	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.41	Vert(CT) -0.19	11-12	>840	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.05	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.06	12-13	>999	240	Weight: 94 lb	FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1 *Except*
 13-15,9-11: 2x4 SP No.2
 WEBS 2x4 SP No.2 *Except*
 2-16: 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, Except: 6-0-0 oc bracing: 15-16,13-15.
 WEBS 1 Row at midpt 5-8, 3-10

REACTIONS.

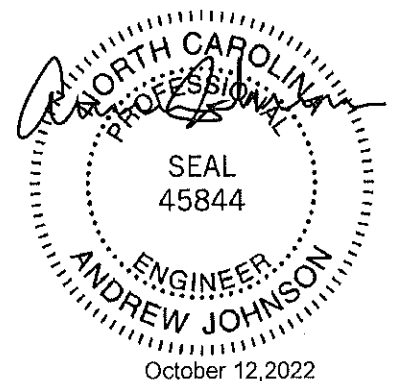
(size) 16=0-3-8, 7=0-3-8
 Max Horz 16=306(LC 12)
 Max Uplift 7=196(LC 12)
 Max Grav 16=655(LC 19), 7=624(LC 19)

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

TOP CHORD 2-3=-605/14, 8-10=-719/317, 14-16=-583/126, 2-14=-540/131
 BOT CHORD 15-16=-344/132, 13-14=0/683, 12-13=-271/545, 11-12=-271/545, 10-11=-229/398
 WEBS 3-10=-680/345, 3-12=-31/294

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 13-6-0 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=ib) 7=196.



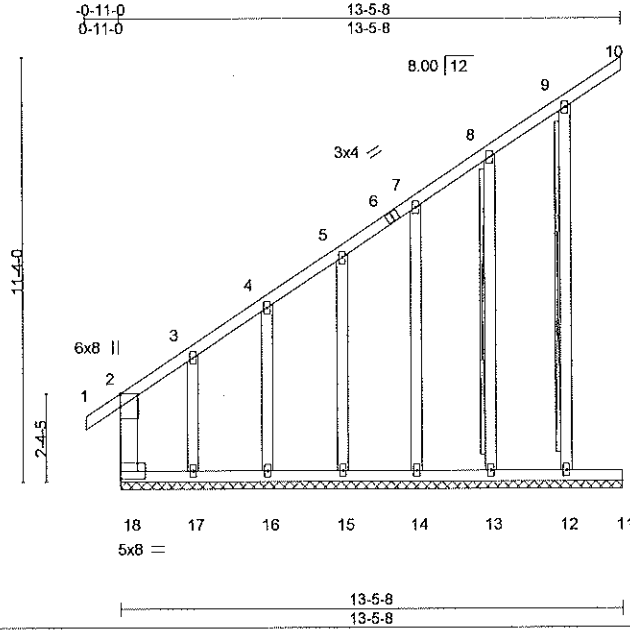
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MI-7473 rev. 5/19/2020 BEFORE USE.
 Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITR11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

ENGINEERING BY
TRENCO
 A MITEK COMPANY
 818 Soundside Road
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	1	154670587
J1022-5104	J6	GABLE	1	1		

Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:36 2022 Page 1
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Scale = 1:59.2

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

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.61	Vert(LL)	-0.00	2	n/r	120	MT20	244/190
TGDL 10.0	Plate Grip DOL 1.15	BC 0.51	Vert(CT)	0.00	2	n/r	120		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.14	Horz(CT)	-0.22	10	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						Weight: 108 lb	FT = 20%
	Code IRC2015/TPI2014								

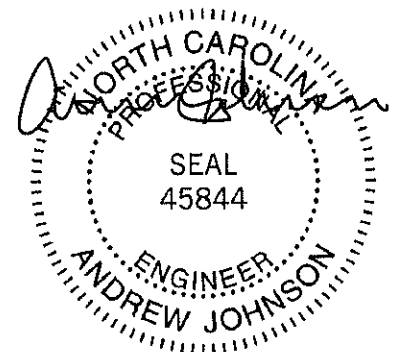
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x4 SP No.1
 WEBS 2x6 SP No.1
 OTHERS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 5-9-12 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
 WEBS T-Brace: 2x4 SPF No.2 - 8-13, 9-12
 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 13-5-8.
 (lb) - Max Horz 18=444(LC 12)
 Max Uplift All uplift 100 lb or less at joint(s) 10, 14, 13, 12 except 18=250(LC 10), 17=898(LC 12), 15=-127(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 10, 11, 16, 15, 14, 13, 12 except 18=886(LC 12), 17=408(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-18=-572/455, 2-3=-679/546, 3-4=-362/298, 4-5=-332/273
 WEBS 3-17=-489/549

- NOTES-**
- 1) Wind: ASCE 7-10; Vuil=130mph Vasd=103mph; TCdL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-10-8 to 3-6-5, Exterior(2) 3-6-5 to 13-6-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) All plates are 2x4 MT20 unless otherwise indicated.
 - 4) Gable requires continuous bottom chord bearing.
 - 5) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - 6) Gable studs spaced at 2-0-0 oc.
 - 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 8) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 9) Bearing at joint(s) 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 14, 13, 12 except (jl=lb) 18=250, 17=898, 15=127.
 - 11) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



October 12, 2022

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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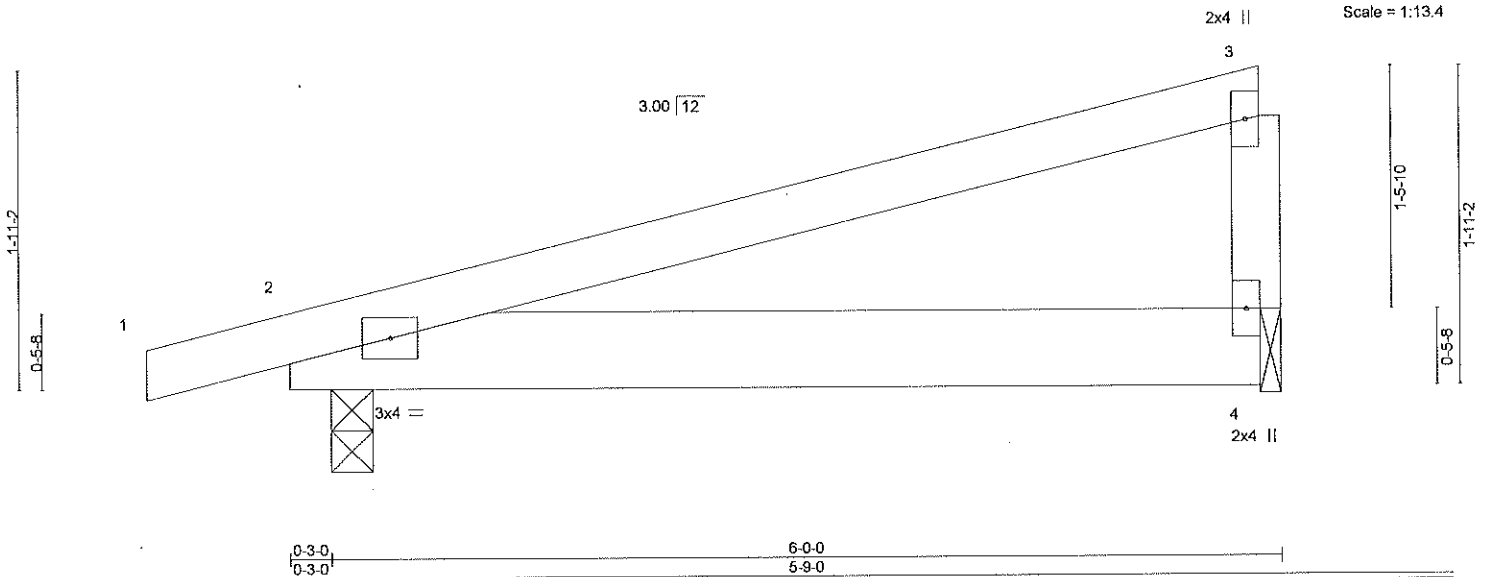
Job J1022-5104	Truss M1	Truss Type MONOPITCH	Qty 1	Ply 1	154670588
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Comtech, Inc. Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MITek Industries, Inc. Wed Oct 12 07:43:37 2022 Page 1
ID:3B2liU9aTYR60tFvgEVALyq8lk-OS5b5cTmN1oJgCz7ZYVps59uelgP6fR1?Pz_YyUDc4

0-10-8
0-10-8

6-0-0
6-0-0



LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL.	ln (joc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.52	Vert(LL) -0.04	2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.56	Vert(CT) -0.09	2-4	>786	240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.00	Horz(CT) 0.00	4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.08	2-4	>868	240	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) 4=0-1-8, 2=0-3-0
Max Horz 2=81(LC 4)
Max Uplift 4=-295(LC 4), 2=-336(LC 4)
Max Grav 4=510(LC 1), 2=581(LC 1)

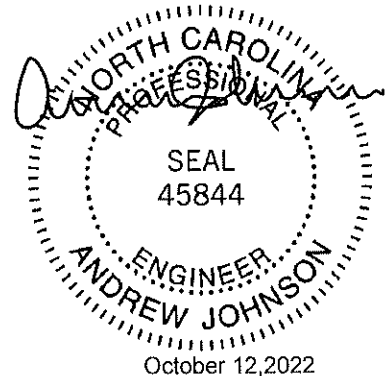
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=295, 2=336.
- 7) 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, 2-4=-120(F=-100)



October 12, 2022

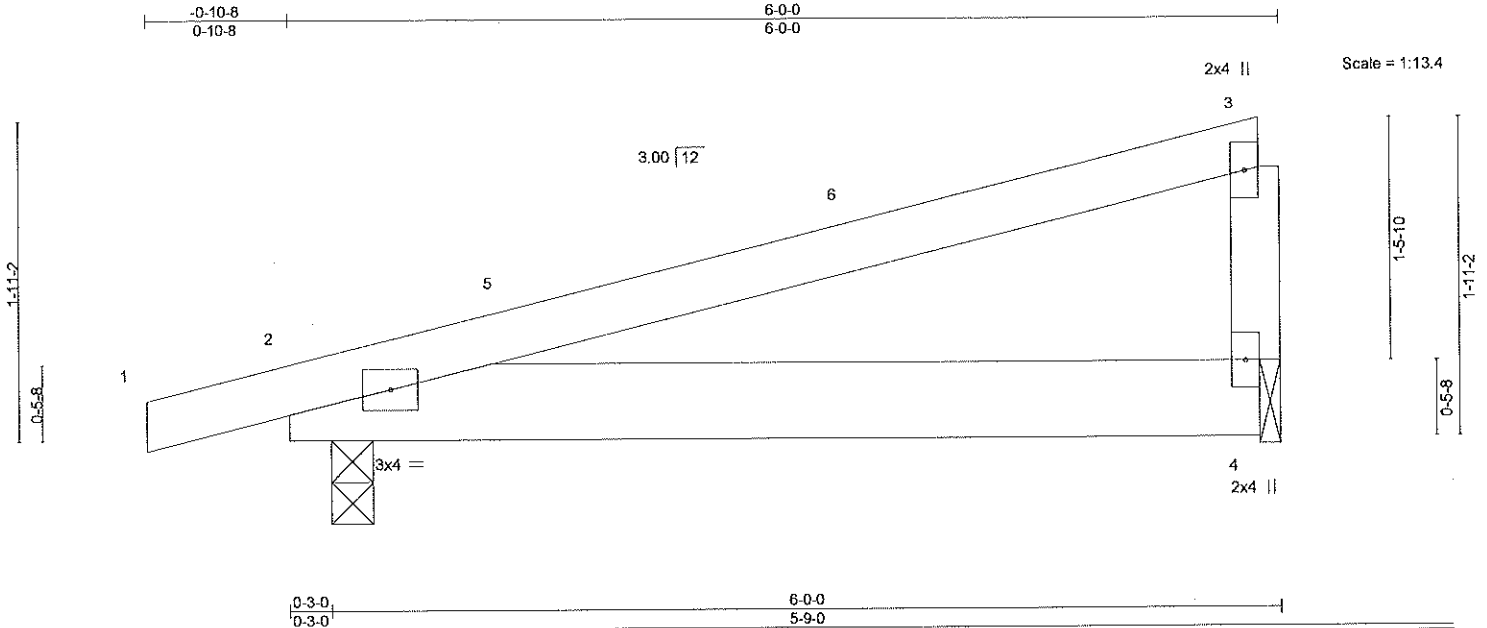
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
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ENGINEERING BY
TRENCO
A MITEK COMPANY
818 Soundside Road
Edenton, NC 27932

Job J1022-5104	Truss M2	Truss Type MONOPITCH	Qty 7	Ply 1	L s	154670589
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8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:37 2022 Page 1
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 6-0-0 6-0-0



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 0.45	Vert(LL) -0.01 2-4	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.55	Vert(CT) -0.03 2-4	>999	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 4	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.03 2-4	>999	240	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.

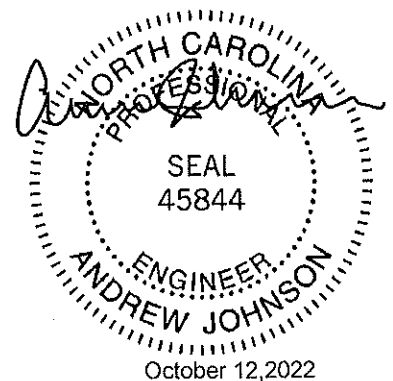
REACTIONS.

(size) 4=0-1-8, 2=0-3-0
 Max Horz 2=57(LC 8)
 Max Uplift 4=-92(LC 8), 2=-121(LC 8)
 Max Grav 4=223(LC 1), 2=294(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=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-10-8 to 3-6-5, Interior(1) 3-6-5 to 5-10-1 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Bearing at joint(s) 4 considers parallel to grain value using ANSITPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=121.

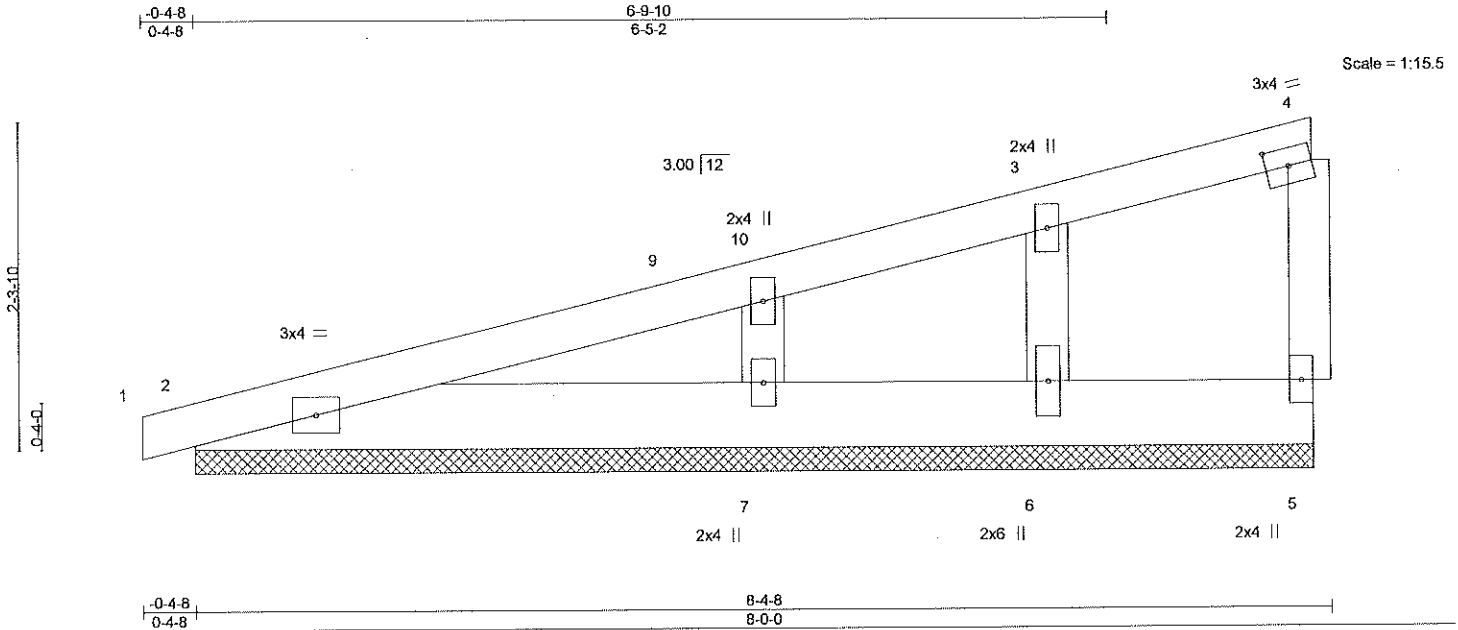


<p>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANSITPI Quality Criteria, DSB-69 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601</p>	<p>ENGINEERING BY TRENCO <small>A MiTek Affiliate</small> 618 Soundside Road Edenon, NC 27532</p>
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Job J1022-5104	Truss P1	Truss Type GABLE	Qty 2	Ply 1	154670590
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Comtech, Inc, Fayetteville, NC - 28314,

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:38 2022 Page 1
ID:3B2liU9aTYR60IFvgEVAlyq8tk-sff_IBTO8LwAILYrhG3IM4eN91C3B7Waf8WW_yUDc3



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES	GRIP	
TCLL	20.0	Plate Grip DOL	2-0-0	TC	0.36	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL	10.0	Code	IRC2015/TP12014	Matrix-P							Weight: 36 lb	FT = 20%

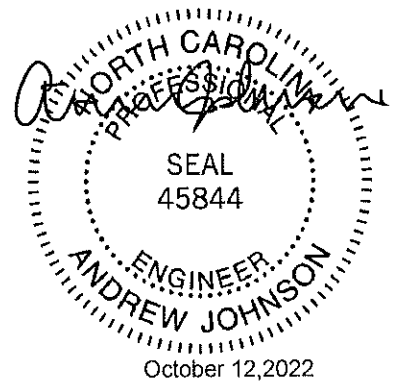
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2
 OTHERS 2x4 SP No.2

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

REACTIONS. All bearings 7-10-8.
 (lb) - Max Horz 2=98(LC 8)
 Max Uplift All uplift 100 lb or less at joint(s) 5, 2 except 6=225(LC 12)
 Max Grav All reactions 250 lb or less at joint(s) 5, 2, 7 except 6=409(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-383/501

- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-4-8 to 4-0-5, Exterior(2) 4-0-5 to 7-10-1 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
 - 3) Gable requires continuous bottom chord bearing.
 - 4) 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 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2 except (jt=lb) 6=225.
 - 8) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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ENGINEERING BY
TRENCO
 A MiTek Affiliate
 818 Soundside Road
 Edenon, NC 27832

Job	Truss	Truss Type	Qty	Ply	154670591
J1022-5104	P2	MONOPITCH	5	1	

Comtech, Inc. Fayetteville, NC - 28314.

8.430 s Jan 6 2022 MiTek Industries, Inc. Wed Oct 12 07:43:39 2022 Page 1
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3x4 = Scale = 1:15.8

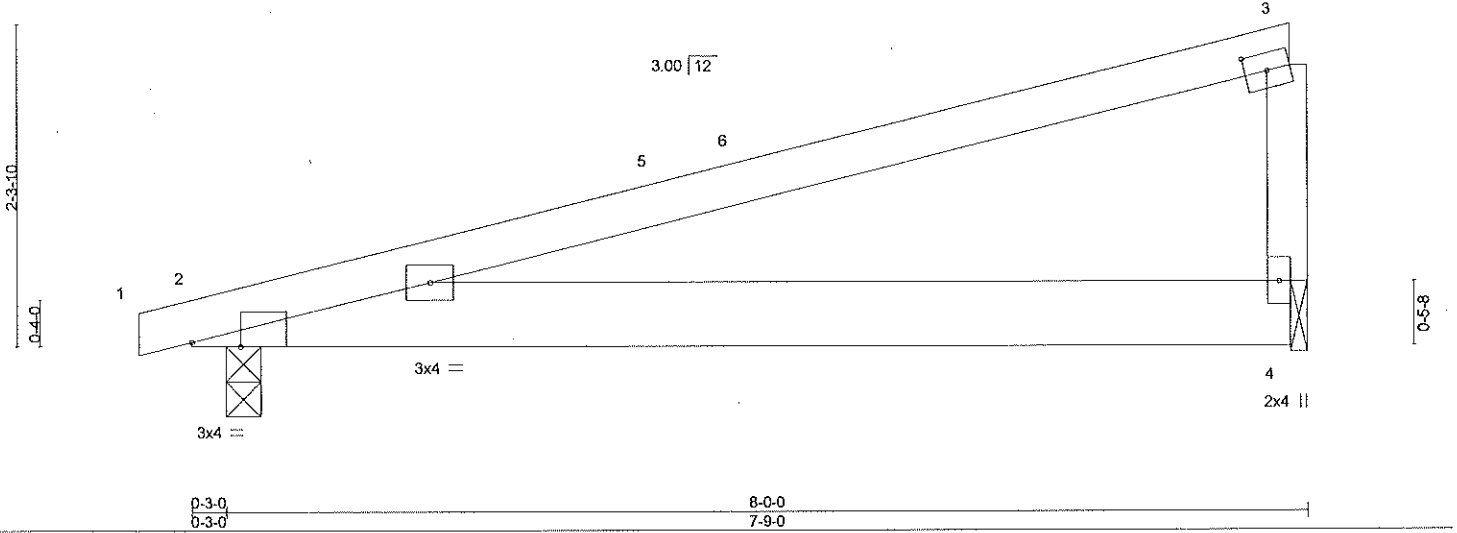


Plate Offsets (X,Y)-- [2:0-4-4,Edge], [3:0-1-15,0-1-8]					
LOADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.91	Vert(LL) -0.05 2-4 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.58	Vert(CT) -0.10 2-4 >961 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.11 2-4 >878 240	Weight: 33 lb	FT = 20%

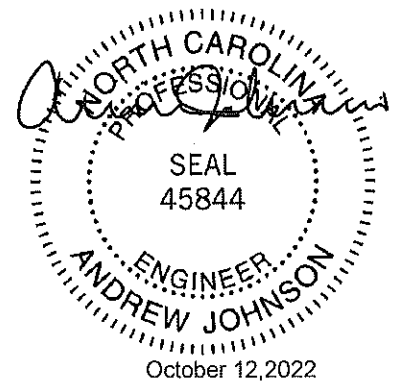
LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

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

REACTIONS. (size) 2=0-3-0, 4=0-1-8
 Max Horz 2=69(LC 8)
 Max Uplift 2=-130(LC 8), 4=-126(LC 8)
 Max Grav 2=340(LC 1), 4=307(LC 1)

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

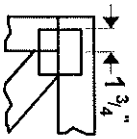
- NOTES-**
- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-4-8 to 4-0-5, Interior(1) 4-0-5 to 7-10-1 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 3) * This truss has been designed for a live load of 40.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
 - 4) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - 5) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=130, 4=126.
 - 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



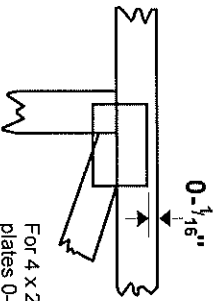
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Symbols

PLATE LOCATION AND ORIENTATION



Center plate on joint unless X, Y offsets are indicated. Dimensions are in 1/16-in-sixteenths. Apply plates to both sides of truss and fully embed teeth.



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

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

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

PLATE SIZE

4 X 4

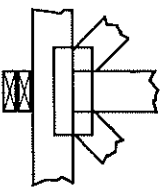
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

LATERAL BRACING LOCATION



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

BEARING



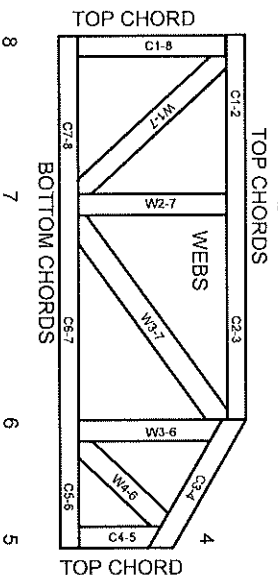
Indicates location where bearings (supports) occur. Icons vary but reaction section indicates joint number where bearings occur. Min size shown is for crushing only.

Industry Standards:

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

Numbering System

6-4-8 dimensions shown in 1/16-in-sixteenths (Drawings not to scale)



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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

General Safety Notes

Failure to Follow Could Cause Property Damage or Personal Injury

1. Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI.
2. Truss bracing must be designed by an engineer. For wide truss spacing, individual lateral braces themselves may require bracing, or alternative Tor 1 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.