

Trenco  
818 Soundside Rd  
Edenton, NC 27932

Re: J0724-4282  
CHARLES MOORE

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: I69213488 thru I69213521

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

North Carolina COA: C-0844



October 30, 2024

Johnson, Andrew

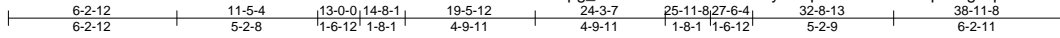
**IMPORTANT NOTE:** The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), 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 J0724-4282	Truss A1	Truss Type Attic	Qty 8	Ply 1	CHARLES MOORE Job Reference (optional)	169213488
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:32 2024 Page 1

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8x8 =

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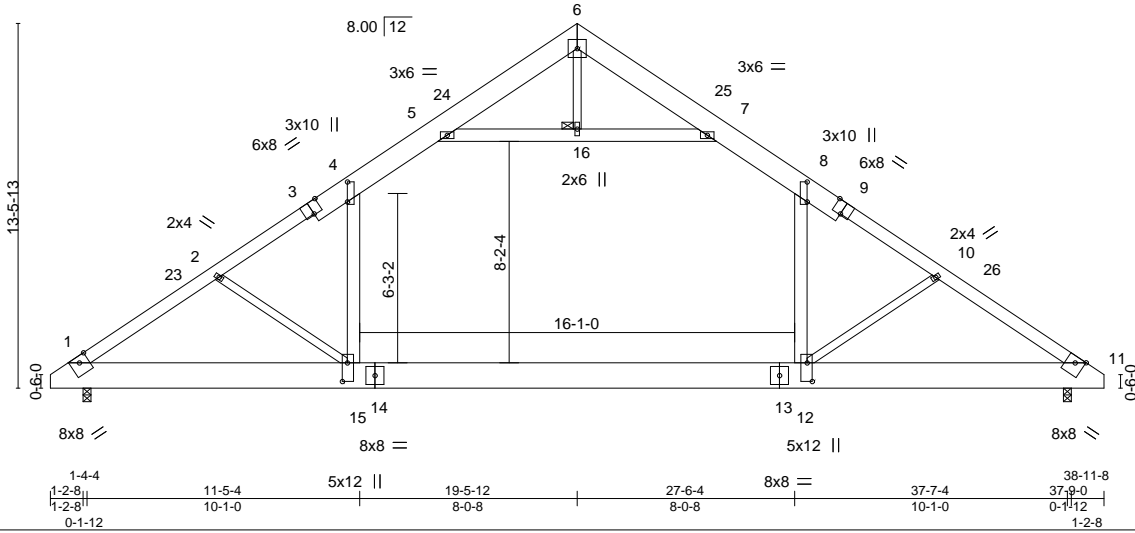


Plate Offsets (X,Y)-- [3:0-4-0,Edge], [4:0-8-13,0-0-0], [8:0-8-13,0-0-0], [9:0-4-0,Edge], [12:0-8-4,0-2-4], [15:0-8-4,0-2-4]

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 0.67	Vert(LL)	-0.34	12-15	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.50	12-15	>899		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.03	11	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-AS	Wind(LL)	0.10	15	>999		
								Weight: 405 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x10 SP No.1 *Except* 1-3,9-11: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x12 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 4-15,8-12,5-7: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 16

**REACTIONS.** (size) 1=0-3-8, 11=0-3-8  
 Max Horz 1=-301(LC 8)  
 Max Grav 1=2135(LC 20), 11=2135(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-3205/155, 2-4=-2978/122, 4-5=-2264/224, 5-6=-292/210, 6-7=-292/210,  
 7-8=-2263/224, 8-10=-2977/122, 10-11=-3204/155  
 BOT CHORD 1-15=-23/2772, 12-15=0/2378, 11-12=-22/2595  
 WEBS 2-15=-487/200, 4-15=0/1074, 8-12=0/1074, 10-12=-488/200, 5-16=-2474/211,  
 7-16=-2474/211

- 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) 0-7-14 to 5-0-11, Interior(1) 5-0-11 to 19-5-12, Exterior(2) 19-5-12 to 23-10-9, Interior(1) 23-10-9 to 38-3-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-16, 7-16; Wall dead load (5.0psf) on member(s).4-15, 8-12
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-15
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Attic room checked for L/360 deflection.

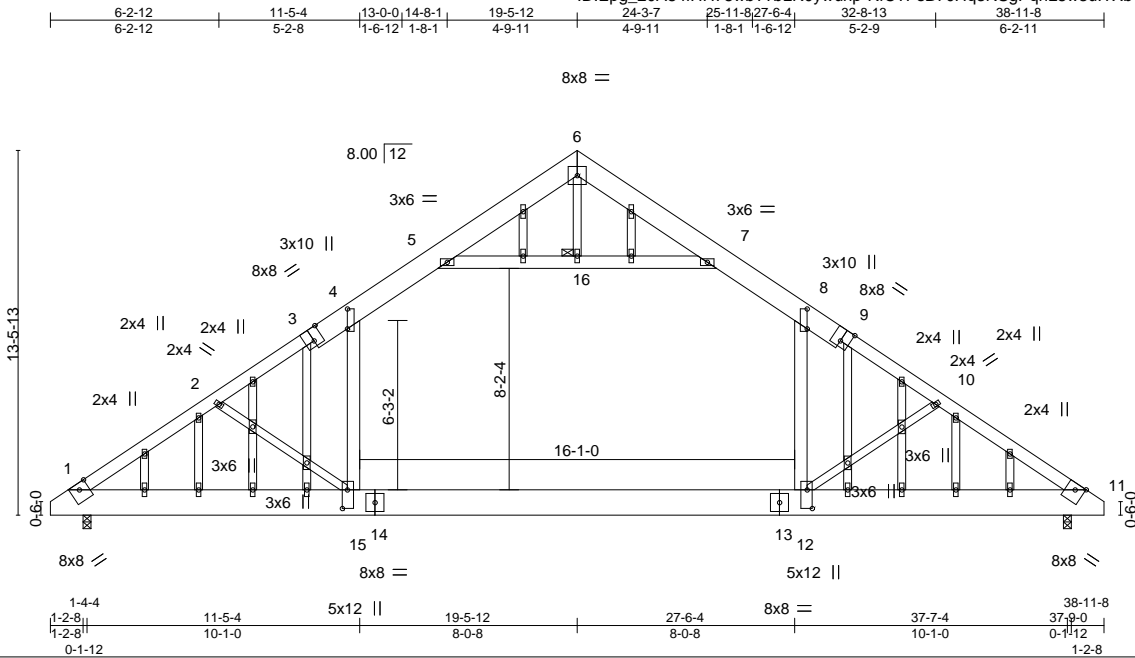


Job J0724-4282	Truss A1GE	Truss Type GABLE	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional) 169213489
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:32 2024 Page 1

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Scale = 1:85.2

Plate Offsets (X, Y)--	[3:0-4-0,Edge], [4:0-8-13,0-0-0], [8:0-8-13,0-0-0], [9:0-4-0,Edge], [12:0-8-4,0-2-4], [15:0-8-4,0-2-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.67	Vert(LL)	-0.34 12-15	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.37	Vert(CT)	-0.50 12-15	>899	240		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.65	Horz(CT)	0.03 11	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-AS	Wind(LL)	0.13 12-15	>999	240	Weight: 450 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x10 SP No.1 *Except* 1-3,9-11: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x12 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 4-15,8-12,5-7: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 16
OTHERS 2x4 SP No.2	

REACTIONS.	(size)
1=0-3-8, 11=0-3-8	
Max Horz 1=-376(LC 10)	
Max Uplift 1=-124(LC 12), 11=-124(LC 13)	
Max Grav 1=2137(LC 20), 11=2137(LC 21)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-3195/296, 2-4=-2979/244, 4-5=-2261/343, 5-6=-292/210, 6-7=-292/210, 7-8=-2261/343, 8-10=-2978/244, 10-11=-3194/296
BOT CHORD	1-15=-220/2811, 12-15=0/2398, 11-12=-140/2591
WEBS	2-15=-510/308, 4-15=0/1074, 8-12=0/1074, 10-12=-511/309, 5-16=-2461/369, 7-16=-2461/369

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) 0-7-14 to 5-0-11, Exterior(2) 5-0-11 to 19-5-12, Corner(3) 19-5-12 to 23-10-9, Exterior(2) 23-10-9 to 38-3-10 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x6 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-16, 7-16; Wall dead load (5.0psf) on member(s).4-15, 8-12
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 12-15
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 124 lb uplift at joint 1 and 124 lb uplift at joint 11.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Attic room checked for L/360 deflection.



October 30, 2024

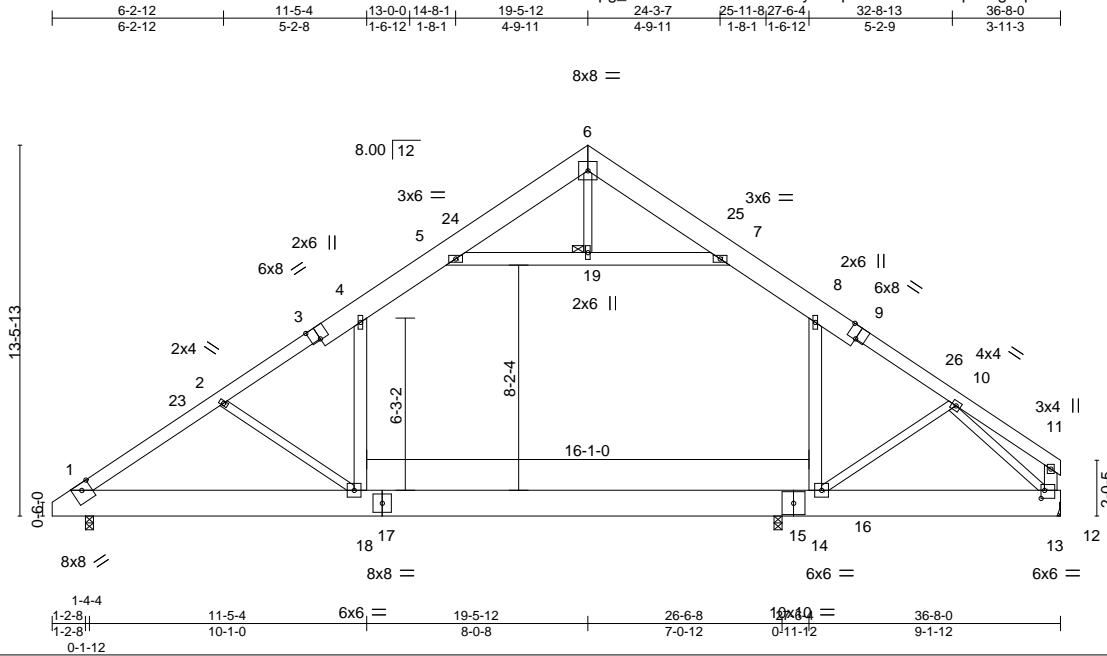
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TP1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbccomponents.com)</p>	<p>ENGINEERING BY <b>TRENCO</b> A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0724-4282	Truss A2	Truss Type Attic	Qty 4	Ply 1	CHARLES MOORE Job Reference (optional)	169213490
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:33 2024 Page 1

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Scale = 1:83.8

Plate Offsets (X, Y)--	[3:0-4-0,Edge], [9:0-4-0,Edge], [13:0-1-8,0-3-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.33	Vert(LL) -0.26 16-18 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.83	Vert(CT) -0.40 16-18 >779 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 13 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.09 16-18 >999 240	Weight: 399 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x10 SP No.1 *Except* 1-3,9-11: 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x12 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 4-18,8-14,5-7,11-13: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 19

**REACTIONS.** (size) 1=0-3-8, 13=Mechanical, 16=0-3-8  
 Max Horz 1=299(LC 9)  
 Max Uplift 16=134(LC 8)  
 Max Grav 1=1892(LC 20), 13=1557(LC 20), 16=1000(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-2601/148, 2-4=-2275/114, 4-5=-1741/218, 5-6=-368/101, 6-7=-412/100,  
 7-8=-1872/226, 8-10=-2265/122, 10-11=-294/81, 11-13=-255/82  
 BOT CHORD 1-18=-73/2311, 16-18=0/1863, 14-16=0/1863, 13-14=-60/1514  
 WEBS 2-18=-555/201, 4-18=0/764, 8-14=-300/479, 10-14=-10/433, 5-19=-1794/214,  
 7-19=-1794/214, 10-13=-2094/67

- 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) 0-7-14 to 5-0-11, Interior(1) 5-0-11 to 19-5-12, Exterior(2) 19-5-12 to 23-10-9, Interior(1) 23-10-9 to 36-3-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-19, 7-19; Wall dead load (5.0psf) on member(s).4-18, 8-14
  - Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 16-18, 14-16
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 134 lb uplift at joint 16.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
  - Attic room checked for L/360 deflection.



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

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

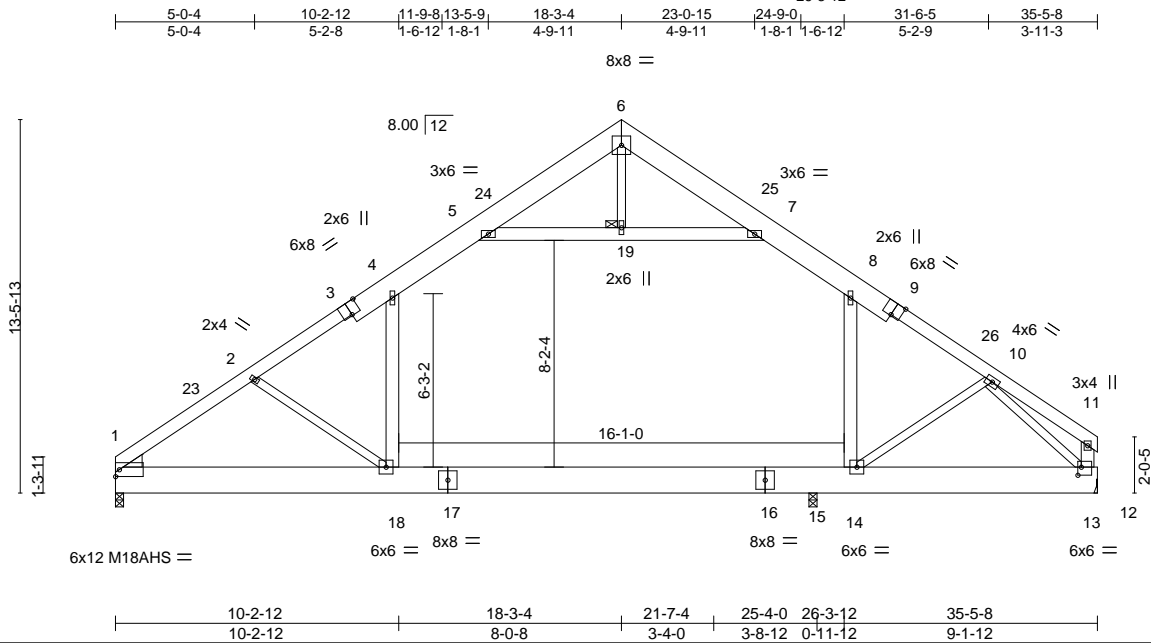
**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

818 Soundside Road  
 Edenton, NC 27932

Job J0724-4282	Truss A3	Truss Type Attic	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional)	169213491
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Comtech, Inc., Fayetteville, NC 28309

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 30 16:38:40 2024 Page 1  
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Scale = 1:83.2

Plate Offsets (X,Y)--	[3:0-4-0,Edge], [9:0-4-0,Edge], [13:0-1-8,0-3-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.71	Vert(LL) -0.27 15-18 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.33	Vert(CT) -0.40 15-18 >749 240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr YES	WB 0.84	Horz(CT) 0.02 13 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.09 15-18 >999 240		Weight: 394 lb FT = 25%

**LUMBER-**

TOP CHORD 2x10 SP No.1 \*Except\*  
1-3,9-11: 2x6 SP No.1  
BOT CHORD 2x12 SP 2400F 2.0E  
WEBS 2x4 SP No.2 \*Except\*  
4-18,8-14,5-7,11-13: 2x6 SP No.1

WEDGE  
Left: 2x6 SP No.1

**REACTIONS.** (lb/size) 1=1522/0-3-8, 13=1383/Mechanical, 15=382/0-3-8  
Max Horz 1=286(LC 9)  
Max Uplift 15=-140(LC 8)  
Max Grav 1=1846(LC 20), 13=1584(LC 20), 15=976(LC 21)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-23=-2639/152, 2-23=-2513/155, 2-3=-2322/102, 3-4=-2173/120, 4-5=-1770/222,  
5-24=-359/68, 6-24=-327/100, 6-25=-372/99, 7-25=-404/67, 7-8=-1902/228,  
8-9=-2193/124, 9-26=-2246/105, 10-26=-2309/92, 10-11=-297/81, 11-13=-256/82  
BOT CHORD 1-18=-80/2344, 17-18=0/1898, 16-17=0/1898, 15-16=0/1898, 14-15=0/1898,  
13-14=-62/1542  
WEBS 2-18=-552/203, 4-18=0/787, 8-14=-288/501, 10-14=-9/442, 5-19=-1842/217,  
7-19=-1842/217, 10-13=-2133/69

**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) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-3-4, Exterior(2) 18-3-4 to 22-8-1, Interior(1) 22-8-1 to 35-1-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) All plates are MT20 plates unless otherwise indicated.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-19, 7-19; Wall dead load (5.0psf) on member(s).4-18, 8-14
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 15-18, 14-15
- 8) Refer to girder(s) for truss to truss connections.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 140 lb uplift at joint 15.
- 10) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Attic room checked for L/360 deflection.



October 30, 2024

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

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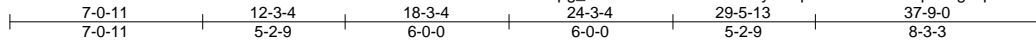


Job J0724-4282	Truss B1	Truss Type Common	Qty 5	Ply 1	CHARLES MOORE Job Reference (optional)	169213492
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:34 2024 Page 1

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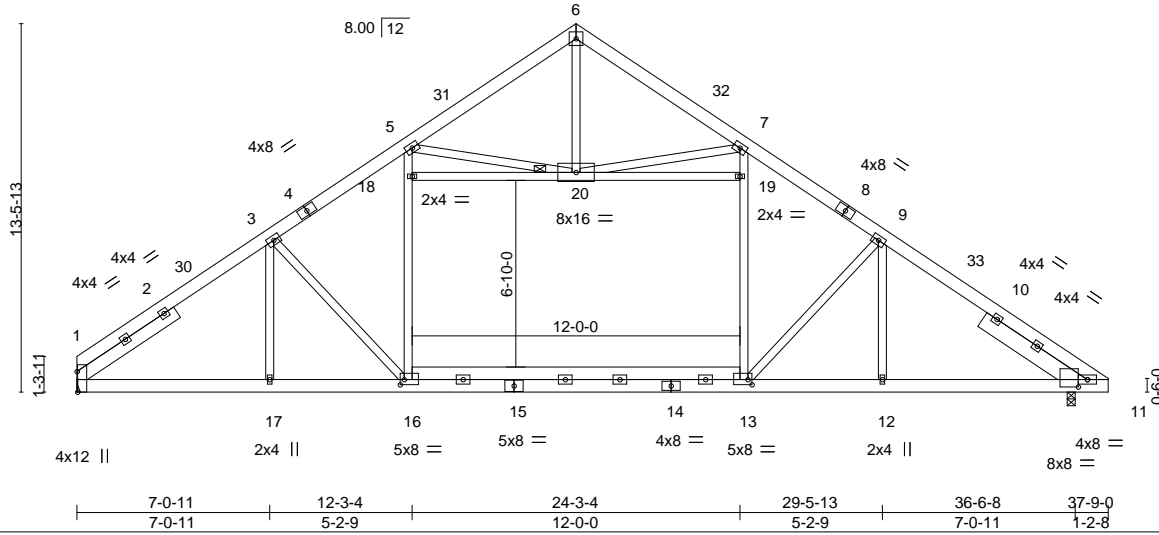


Plate Offsets (X,Y)--	[1:0-9-1,Edge], [11:0-4-0,0-3-4], [13:0-1-12,0-2-4], [16:0-1-12,0-2-4]
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LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.21	Vert(LL)	-0.23	16-17	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.75	Vert(CT)	-0.28	16-17	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.71	Horz(CT)	0.05	11	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-AS	Wind(LL)	0.20	16-17	>999		
								Weight: 351 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	JOINTS 1 Brace at Jt(s): 20
OTHERS 2x6 SP No.1	
SLIDER Left 2x6 SP No.1 4-5-0, Right 2x8 SP No.2 4-5-0	

**REACTIONS.** (size) 1=Mechanical, 11=0-3-8  
 Max Horz 1=292(LC 9)  
 Max Uplift 1=-75(LC 12), 11=-57(LC 13)  
 Max Grav 1=1534(LC 19), 11=1562(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-2006/408, 3-5=-1881/444, 5-6=-749/282, 6-7=-752/282, 7-9=-1884/444, 9-11=-1977/403  
 BOT CHORD 1-17=-212/1794, 16-17=-212/1794, 13-16=-108/1609, 12-13=-208/1534, 11-12=-208/1534  
 WEBS 16-18=-10/522, 5-18=-10/522, 13-19=-8/502, 7-19=-8/502, 3-16=-375/249, 9-13=-324/266, 6-20=-107/395, 7-20=-1057/279, 5-20=-1063/279

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-3-4, Exterior(2) 18-3-4 to 22-8-1, Interior(1) 22-8-1 to 36-4-12 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are 4x6 MT20 unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 20.0psf on the bottom chord in all areas with a clearance greater than 6-0-0 between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 75 lb uplift at joint 1 and 57 lb uplift at joint 11.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



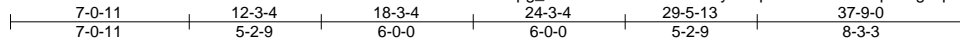
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPH Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY  <b>TRENCO</b>  <small>A MiTek Affiliate</small></p> <p>818 Soundside Road        Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE	169213493
J0724-4282	B1SGE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:35 2024 Page 1

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6x6 =

Scale = 1:91.0

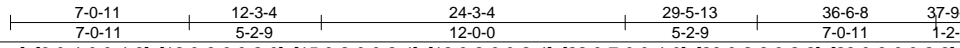
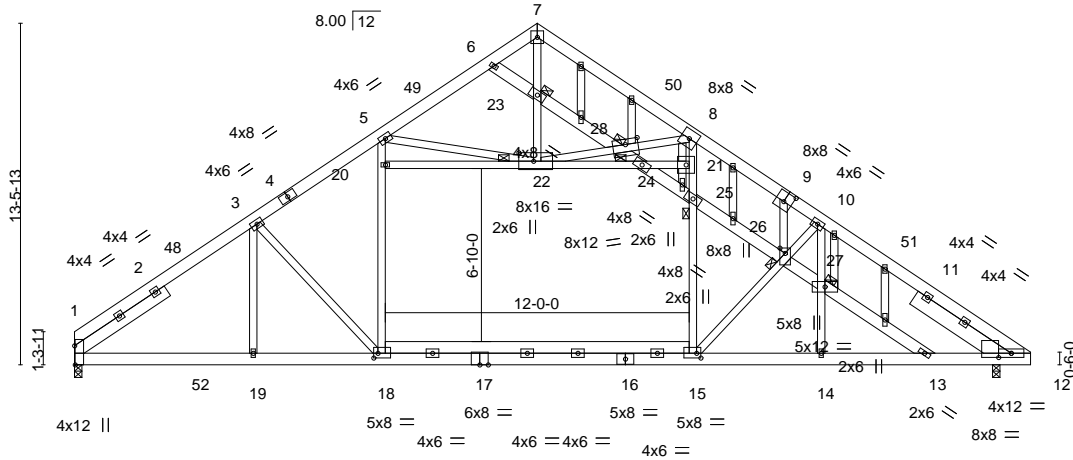


Plate Offsets (X,Y)--	[1:0-9-1,Edge], [9:0-4-0,0-4-8], [12:0-6-0,0-2-0], [15:0-2-0,0-2-4], [18:0-2-0,0-2-4], [22:0-7-0,0-4-0], [26:0-2-8,0-2-8], [28:0-6-0,0-2-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.68	Vert(LL) -0.19 15-18 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.80	Vert(CT) -0.29 15-18 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.06 12 n/a n/a		
	Code IRC2015/TP12014		Wind(LL) 0.13 14-15 >999 240	Weight: 420 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 6-23,23-28,24-25,26-27,13-27,24-28: 2x6 SP No.1	JOINTS 1 Brace at Jt(s): 22, 23, 24, 25, 26, 27, 28
OTHERS 2x4 SP No.2 *Except* 15-18: 2x6 SP No.1	
SLIDER Left 2x6 SP No.1 4-5-0, Right 2x8 SP No.2 4-5-0	

**REACTIONS.** (size) 1=0-3-8, 12=0-3-8  
 Max Horz 1=365(LC 9)  
 Max Uplift 1=-278(LC 12), 12=-260(LC 13)  
 Max Grav 1=1710(LC 19), 12=1671(LC 20)

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

TOP CHORD	1-3=-2239/408, 3-5=-2075/446, 5-6=-797/294, 6-7=-731/363, 7-8=-844/375, 8-10=-2098/579, 10-12=-2157/512
BOT CHORD	1-19=-445/2034, 18-19=-445/2034, 15-18=-246/1853, 14-15=-319/1871, 13-14=-306/1864, 12-13=-281/1671
WEBS	18-20=-55/723, 5-20=-57/725, 15-25=-13/631, 21-25=-12/586, 8-21=-18/580, 3-18=-301/298, 15-26=-295/203, 10-26=-295/201, 22-23=-132/444, 7-23=-147/457, 22-28=-1123/355, 8-28=-1125/369, 5-22=-1192/292, 6-23=-318/298, 23-28=-346/327, 24-25=-454/422, 25-26=-545/441, 26-27=-535/419, 13-27=-519/368, 24-28=-379/350

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-3-4, Exterior(2) 18-3-4 to 22-8-1, Interior(1) 22-8-1 to 36-4-12 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 278 lb uplift at joint 1 and 260 lb uplift at joint 12.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



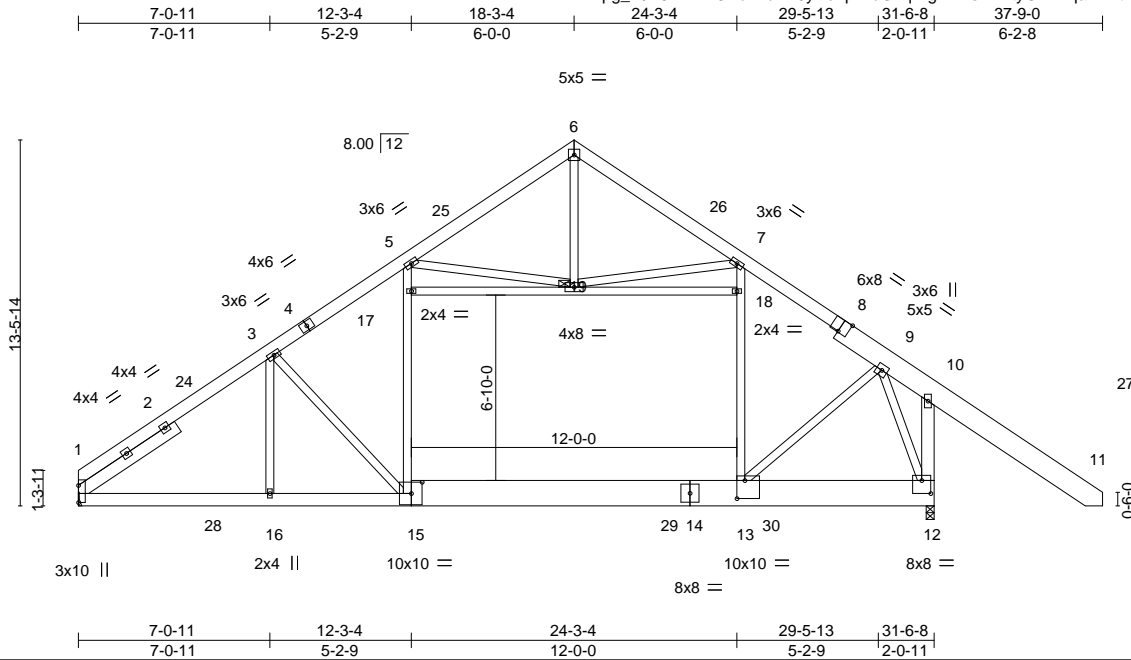




Job J0724-4282	Truss B2GR	Truss Type COMMON	Qty 1	Ply 2	CHARLES MOORE	169213495
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Comtech, Inc., Fayetteville, NC 28309

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8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 30 16:42:34 2024 Page 1



Scale = 1:84.9

Plate Offsets (X,Y)--	[1:Edge,0-0-0], [8:0-4-0,Edge], [12:0-4-0,0-5-12], [13:0-3-8,0-8-0], [15:0-4-12,0-5-0]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.44	Vert(LL)	0.08	15-16	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(CT)	-0.10	13-15	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.21	Horz(CT)	0.02	12	n/a		
BCDL 10.0	Rep Stress Incr NO	Matrix-AS	Wind(LL)	0.08	15-16	>999		
	Code IRC2015/TPI2014						Weight: 731 lb	FT = 25%

**LUMBER-**

TOP CHORD 2x6 SP No.1 \*Except\*  
8-11: 2x10 SP No.1  
BOT CHORD 2x12 SP No.1 \*Except\*  
1-15: 2x6 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
17-18: 2x4 SP No.1, 10-12: 2x6 SP No.1  
SLIDER Left 2x6 SP No.1 4-5-0

**BRACING-**

TOP CHORD Structural wood sheathing directly applied, except end verticals.  
BOT CHORD Rigid ceiling directly applied.  
JOINTS 1 Brace at Jt(s): 19

**REACTIONS.**

(lb/size) 1=1566/Mechanical, 12=2706/0-3-8  
Max Horz 1=383(LC 11)  
Max Uplift 1=-109(LC 12), 12=-248(LC 13)  
Max Grav 1=1827(LC 19), 12=2998(LC 27)

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

TOP CHORD 1-2=-808/170, 2-24=-2418/459, 3-24=-2343/480, 3-4=-2231/510, 4-5=-2194/541,  
5-25=-741/245, 6-25=-638/282, 6-26=-629/268, 7-26=-747/233, 7-8=-2340/519,  
8-9=-2403/488, 9-10=-819/667, 10-27=0/342, 10-12=-2173/1296  
BOT CHORD 1-28=-171/2172, 16-28=-171/2172, 15-16=-171/2172, 15-29=-74/2040, 14-29=-76/2061,  
13-14=-73/2040, 13-30=0/830, 12-30=0/830  
WEBS 15-17=-56/706, 5-17=-56/708, 13-18=-50/864, 7-18=-50/865, 9-13=-315/1837,  
6-19=-104/397, 7-19=-1359/369, 5-19=-1369/349, 9-12=-2228/55

**NOTES-**

- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x10 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x12 - 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) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-3-4, Exterior(2) 18-3-4 to 22-8-1, Interior(1) 22-8-1 to 37-5-3 zone; end vertical right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, 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 109 lb uplift at joint 1 and 248 lb uplift at joint 12.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 30, 2024

Continued on page 2

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

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



818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE	169213495
J0724-4282	B2GR	COMMON	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 30 16:42:34 2024 Page 2  
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**NOTES-**

- 10) Load case(s) 27 has/have been modified. Building designer must review loads to verify that they are correct for the intended use of this truss.
- 11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
- 12) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 748 lb down and 177 lb up at 21-7-8, and 748 lb down and 177 lb up at 25-4-8 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard Except:

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-60, 6-10=-60, 10-11=-60, 12-20=-20
  - Concentrated Loads (lb)
    - Vert: 29=-700(B) 30=-700(B)
- 27) User defined: Lumber Increase=1.15, Plate Increase=1.15
  - Uniform Loads (plf)
    - Vert: 1-6=-60, 6-10=-60, 10-11=-60, 12-20=-20
  - Concentrated Loads (lb)
    - Vert: 27=-250 29=-700(B) 30=-700(B)

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

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



818 Soundside Road  
 Edenton, NC 27932

Job J0724-4282	Truss B3	Truss Type Common	Qty 2	Ply 1	CHARLES MOORE Job Reference (optional)	169213496
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:37 2024 Page 1

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10x16 M18AHS

Scale = 1:84.8

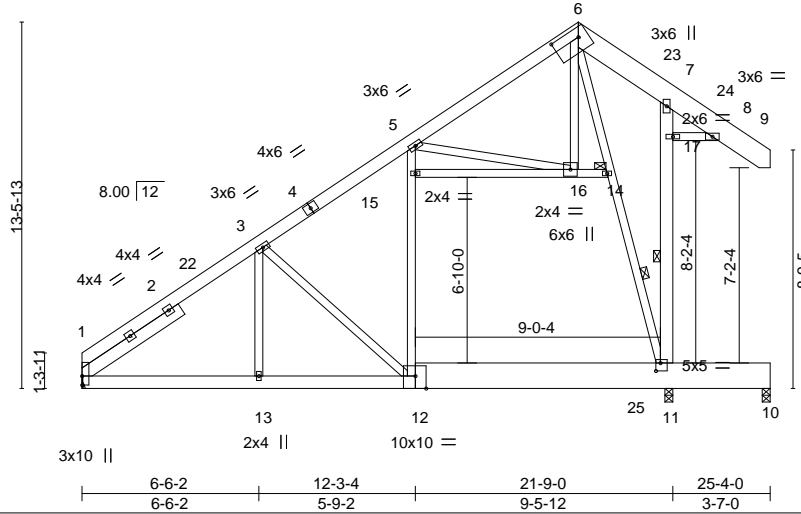


Plate Offsets (X,Y)-- [1:0-4-0,0-0-1], [6:0-11-12,0-4-0], [11:0-2-0,0-3-8], [12:0-4-12,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.62	Vert(LL)	-0.27	12-13	>963	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.81	Vert(CT)	-0.51	12-13	>511	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.82	Horz(CT)	0.03	1	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-AS	Wind(LL)	0.27	12-13	>971		
								Weight: 288 lb	FT = 25%

**LUMBER-**  
TOP CHORD 2x6 SP No.1 \*Except\*  
6-9: 2x10 SP No.1  
BOT CHORD 2x6 SP No.1 \*Except\*  
10-12: 2x12 SP No.1  
WEBS 2x4 SP No.2 \*Except\*  
7-11: 2x6 SP No.1  
SLIDER Left 2x6 SP No.1 4-5-0

**REACTIONS.** (size) 1=Mechanical, 10=0-3-8, 11=0-3-8  
Max Horz 1=306(LC 12)  
Max Uplift 10=-814(LC 19), 11=-293(LC 12)  
Max Grav 1=743(LC 23), 10=154(LC 12), 11=2341(LC 19)

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied, except end verticals.  
Except:  
6-0-0 oc bracing: 11-17  
BOT CHORD Rigid ceiling directly applied.  
WEBS 1 Row at midpt 11-17, 11-14  
JOINTS 1 Brace at Jt(s): 14

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-3=-871/123, 3-5=-451/58, 11-17=-291/322, 7-17=-283/310  
BOT CHORD 1-13=-273/869, 12-13=-273/869, 11-12=-44/259  
WEBS 3-13=-35/402, 3-12=-849/319, 5-16=-301/81, 6-14=-784/133, 11-14=-812/138

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-3-4, Exterior(2) 18-3-4 to 22-8-1, Interior(1) 22-8-1 to 25-1-9 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - All plates are MT20 plates unless otherwise indicated.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Refer to girder(s) for truss to truss connections.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 814 lb uplift at joint 10 and 293 lb uplift at joint 11.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

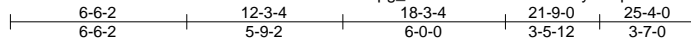


Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE	169213497
J0724-4282	B4	Common	4	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:37 2024 Page 1

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8x16 M18AHS \\\

Scale = 1:85.0

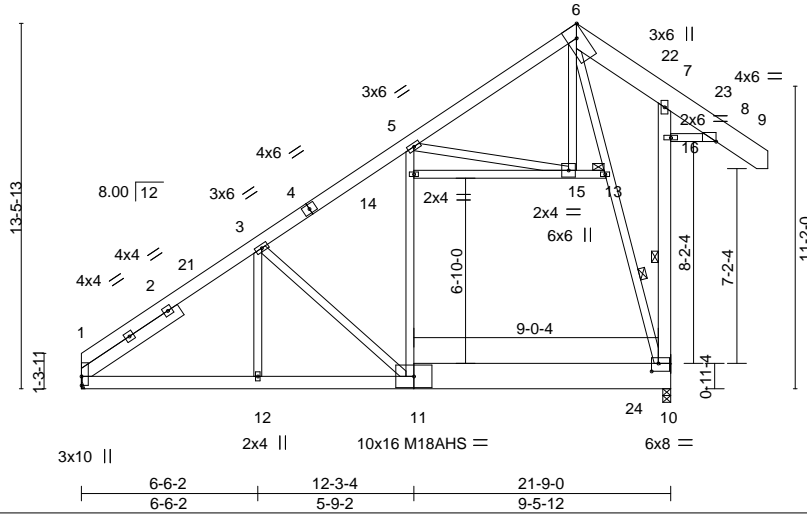


Plate Offsets (X, Y)--	[1:0-4-0,0-0-1], [6:0-5-8,Edge], [10:0-3-0,0-3-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.85	Vert(LL) -0.38	11-12	>680	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.63	Vert(CT) -0.70	11-12	>368	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr YES	WB 0.92	Horz(CT) 0.03	1	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014	Matrix-AS	Wind(LL) 0.35	11-12	>740	240		
							Weight: 270 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 6-9: 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals. Except: 6-0-0 oc bracing: 10-16
BOT CHORD 2x12 SP No.1 *Except* 1-11: 2x6 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 7-10: 2x6 SP No.1, 5-11: 2x4 SP No.1	WEBS 1 Row at midpt 10-16, 10-13
SLIDER Left 2x6 SP No.1 4-5-0	JOINTS 1 Brace at Jt(s): 13

REACTIONS.
(size) 1=Mechanical, 10=0-3-8
Max Horz 1=306(LC 12)
Max Uplift 1=7(LC 12), 10=-160(LC 12)
Max Grav 1=881(LC 19), 10=1308(LC 19)

FORCES.
(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-3=-1100/179, 3-5=-590/93, 10-16=-290/322, 7-16=-286/313
BOT CHORD 1-12=-317/1075, 11-12=-317/1075, 10-11=-57/350
WEBS 3-12=-57/471, 3-11=-957/348, 11-14=0/439, 5-14=0/442, 14-15=-90/335, 5-15=-456/115, 6-13=-889/146, 10-13=-924/153

- 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) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-3-4, Exterior(2) 18-3-4 to 22-8-1, Interior(1) 22-8-1 to 25-1-9 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are MT20 plates unless otherwise indicated.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 7 lb uplift at joint 1 and 160 lb uplift at joint 10.
  - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

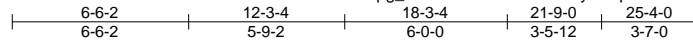


Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE	169213498
J0724-4282	B4A	Common	2	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:38 2024 Page 1

ID:Epg\_20A84fH78wb??bLR0ywuhp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKwrcDoi7J4zJC?f



8x16 M18AHS \

Scale = 1:85.0

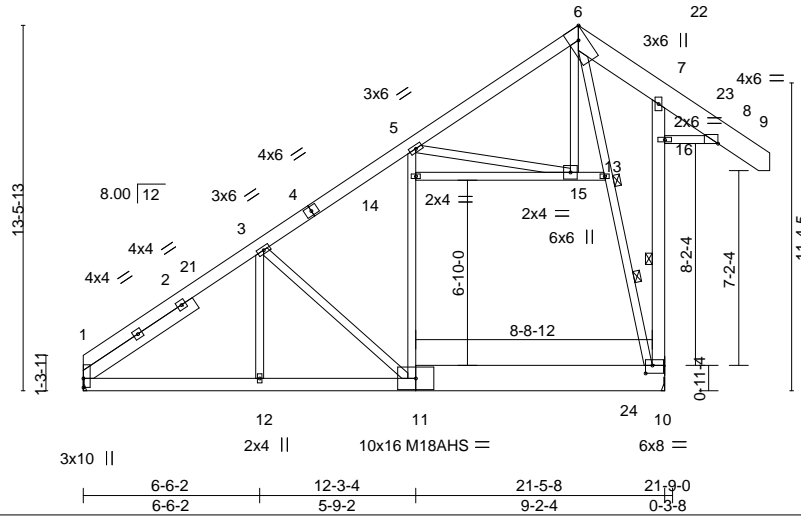


Plate Offsets (X,Y)-- [1:0-4-0,0-0-1], [6:0-5-8,Edge], [10:0-3-0,0-3-8]

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 0.84	Vert(LL)	-0.38 11-12	>675	360	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.65	Vert(CT)	-0.70 11-12	>364	240	M18AHS	186/179
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.94	Horz(CT)	0.03 1	n/a	n/a		
BCDL 10.0	Code IRC2015/TP12014		Matrix-AS	Wind(LL)	0.35 11-12	>724	240		
								Weight: 271 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1 *Except* 6-9: 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals. Except: 6-0-0 oc bracing: 10-16
BOT CHORD 2x12 SP No.1 *Except* 1-11: 2x6 SP 2400F 2.OE	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 7-10: 2x6 SP No.1	WEBS 1 Row at midpt 10-16, 10-13
SLIDER Left 2x6 SP No.1 5-0-0	JOINTS 1 Brace at Jt(s): 13

**REACTIONS.** (size) 1=Mechanical, 10=Mechanical  
 Max Horz 1=306(LC 12)  
 Max Uplift 1=4(LC 12), 10=-166(LC 12)  
 Max Grav 1=863(LC 19), 10=1309(LC 19)

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

TOP CHORD	1-3=-1078/173, 3-5=-558/84, 10-16=-317/349, 7-16=-313/340
BOT CHORD	1-12=-313/1056, 11-12=-313/1056, 10-11=-53/326
WEBS	3-12=-60/491, 3-11=-972/352, 11-14=0/413, 5-14=0/415, 14-15=-79/291, 5-15=-401/103, 6-13=-871/143, 10-13=-902/149

- 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) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 18-3-4, Exterior(2) 18-3-4 to 22-8-1, Interior(1) 22-8-1 to 25-1-9 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are MT20 plates unless otherwise indicated.
  - 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 6) Refer to girder(s) for truss to truss connections.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 4 lb uplift at joint 1 and 166 lb uplift at joint 10.
  - 8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

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

**ENGINEERING BY**  
**TRENCO**  
 A MiTek Affiliate

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 Edenton, NC 27932

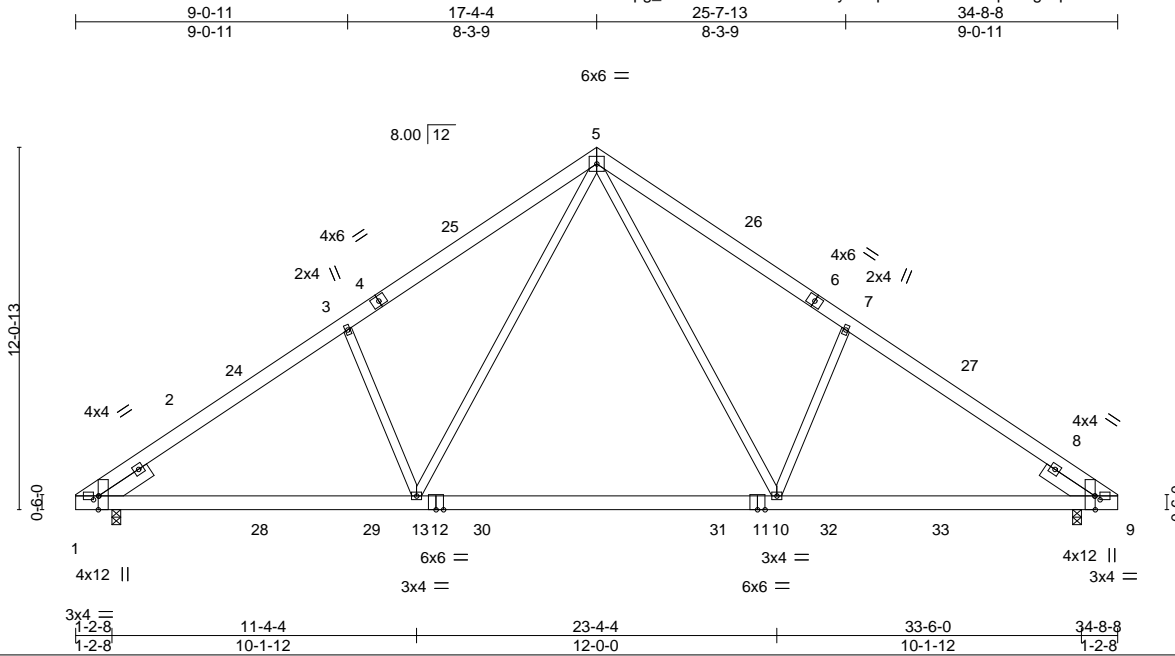


Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE	169213499
J0724-4282	C1	Common	5	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:39 2024 Page 1

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Scale = 1:76.7

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

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.52	Vert(LL)	-0.34	10-13	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.64	Vert(CT)	-0.50	10-13	>825		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.04	9	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.05	10-13	>999		
								Weight: 243 lb	FT = 25%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 SLIDER Left 2x6 SP No.1 1-11-0, Right 2x6 SP No.1 1-11-0

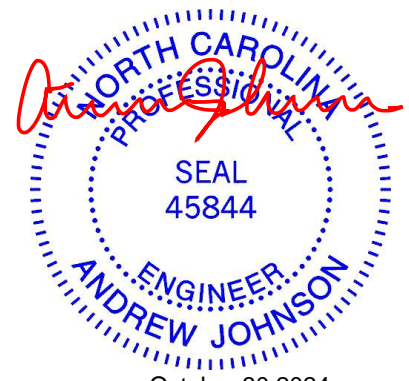
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 1=0-3-8, 9=0-3-8  
 Max Horz 1=256(LC 9)  
 Max Uplift 1=48(LC 12), 9=48(LC 13)  
 Max Grav 1=1558(LC 19), 9=1558(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-2024/370, 3-5=-1903/487, 5-7=-1904/487, 7-9=-2024/370  
 BOT CHORD 1-13=-178/1730, 10-13=0/1171, 9-10=-178/1544  
 WEBS 5-10=-155/937, 7-10=-432/297, 5-13=-155/937, 3-13=-432/296

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 1-4-4 to 5-9-1, Interior(1) 5-9-1 to 17-4-4, Exterior(2) 17-4-4 to 21-9-1, Interior(1) 21-9-1 to 33-4-4 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 48 lb uplift at joint 1 and 48 lb uplift at joint 9.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

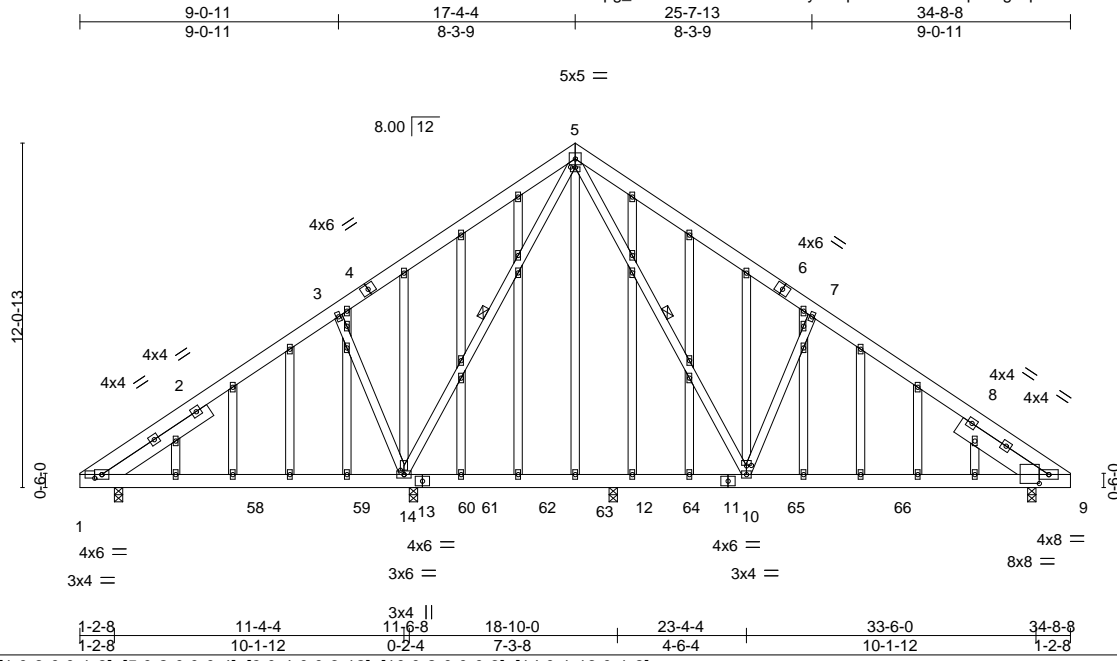


Job J0724-4282	Truss C1GE	Truss Type GABLE	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional)	169213500
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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:39 2024 Page 1

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Scale = 1:80.7

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.32	Vert(LL) -0.08 10-54 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.40	Vert(CT) -0.13 10-54 >999 240		
BCLL 0.0 *	Rep Stress Incr NO	WB 0.39	Horz(CT) 0.01 9 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-MS	Wind(LL) 0.03 10-54 >999 240	Weight: 389 lb	FT = 25%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2	WEBS 1 Row at midpt 5-10, 5-14
OTHERS 2x4 SP No.2	
SLIDER Left 2x6 SP No.1 4-5-0, Right 2x8 SP No.1 3-7-2	

**REACTIONS.** All bearings 0-3-8.  
 (lb) - Max Horz 1=320(LC 5)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 12 except 9=-217(LC 28), 14=-272(LC 8)  
 Max Grav All reactions 250 lb or less at joint(s) except 1=582(LC 15), 9=1042(LC 16), 14=1272(LC 33), 12=527(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-422/201, 3-5=-392/294, 5-7=-1073/482, 7-9=-1033/342  
 BOT CHORD 1-14=-208/544, 12-14=-41/500, 10-12=-41/500, 9-10=-150/863  
 WEBS 5-10=-337/828, 7-10=-484/413, 5-14=-520/101, 3-14=-537/430

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12 except (jt=lb) 9=217, 14=272.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 95 lb down and 46 lb up at 14-3-0, and 95 lb down and 46 lb up at 16-3-0, and 95 lb down and 46 lb up at 18-3-0 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
  - In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**LOAD CASE(S)** Standard  
 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
 Uniform Loads (plf)  
 Vert: 5-50=-60, 5-55=-60, 1-9=-20



Continued on page 2

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b>          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 <b>ANSI/TPI Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p><b>ENGINEERING BY</b>  <b>TRENCO</b>          A MiTek Affiliate</p> <p>818 Soundside Road          Edenton, NC 27932</p>
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Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE	I69213500
J0724-4282	C1GE	GABLE	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:39 2024 Page 2  
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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 61=-95(F) 62=-95(F) 63=-95(F)

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

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

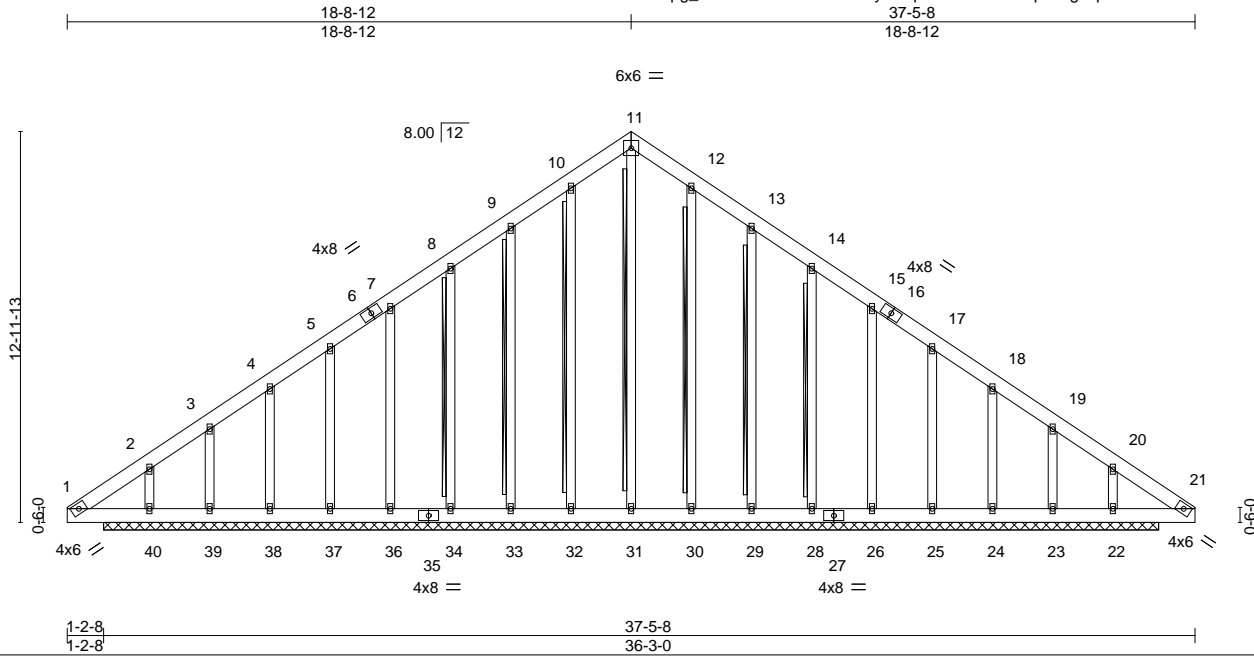


818 Soundside Road  
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Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE	169213501
J0724-4282	D1GE	Common Supported Gable	1	1	Job Reference (optional)	

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:40 2024 Page 1  
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Scale = 1:76.5

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.08	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.12	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.01	22	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S					Weight: 355 lb	FT = 25%

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

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 10-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.  
 WEBS T-Brace: 2x4 SPF No.2 - 11-31, 10-32, 9-33, 8-34, 12-30, 13-29, 14-28  
 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 35-0-8.  
 (lb) - Max Horz 40=374(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 32, 34, 36, 37, 38, 30, 28, 26, 25, 24 except 33=108(LC 12), 39=292(LC 12), 40=169(LC 8), 29=109(LC 13), 23=267(LC 13), 22=124(LC 12)  
 Max Grav All reactions 250 lb or less at joint(s) 32, 33, 34, 36, 37, 38, 30, 29, 28, 26, 25, 24 except 31=341(LC 22), 39=309(LC 10), 40=448(LC 20), 23=273(LC 11), 22=412(LC 19)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-211/286, 2-3=-229/296, 5-7=-98/263, 7-8=-157/305, 8-9=-217/350, 9-10=-284/433, 10-11=-311/459, 11-12=-311/459, 12-13=-284/433, 13-14=-217/350, 14-15=-157/283, 19-20=-190/257, 20-21=-192/266  
 BOT CHORD 1-40=-251/230  
 WEBS 11-31=-358/172

- 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) 0-0-1 to 4-4-14, Exterior(2) 4-4-14 to 18-8-12, Corner(3) 18-8-12 to 23-1-9, Exterior(2) 23-1-9 to 37-5-7 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - 4) All plates are 2x4 MT20 unless otherwise indicated.
  - 5) Gable studs spaced at 2-0-0 oc.
  - 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 7) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 32, 34, 36, 37, 38, 30, 28, 26, 25, 24 except (jt=lb) 33=108, 39=292, 40=169, 29=109, 23=267, 22=124.
  - 9) Non Standard bearing condition. Review required.
  - 10) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



October 30, 2024

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

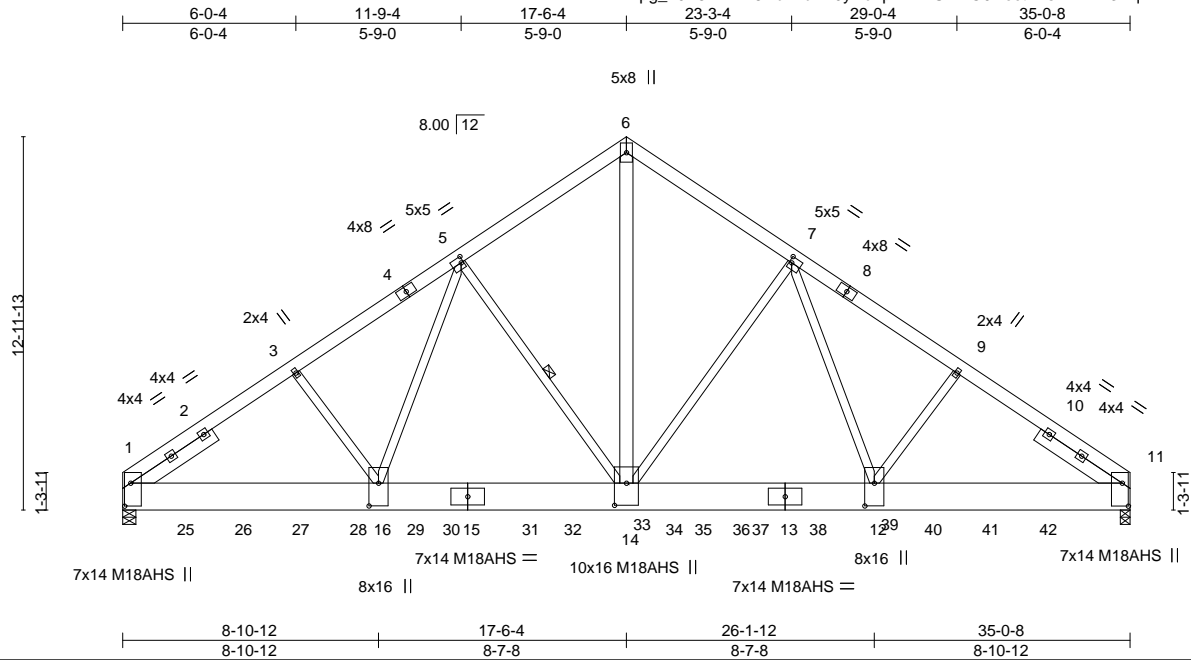


818 Soundside Road  
 Edenton, NC 27932

Job J0724-4282	Truss D2GR	Truss Type Common Girder	Qty 1	Ply 2	CHARLES MOORE	169213502
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Comtech, Inc., Fayetteville, NC 28309

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8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 30 16:43:58 2024 Page 1



Scale = 1:80.1

Plate Offsets (X,Y)--		[1:0-9-9,0-2-9], [5:0-1-0,0-2-8], [7:0-1-0,0-2-8], [11:0-9-9,0-2-9], [12:0-9-8,0-4-0], [14:0-9-4,0-5-0], [16:0-9-8,0-4-0]			
<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	2-0-0	TC 0.84	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.41	Vert(LL) -0.21 14-16 >999 360	M18AHS	186/179
BCLL 0.0 *	Lumber DOL 1.15	WB 0.72	Vert(CT) -0.40 14-16 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.08 11 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.13 14-16 >999 240		
				Weight: 753 lb	FT = 25%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied or 3-0-7 oc purlins.
BOT CHORD 2x12 SP 2400F 2.0E	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.2 *Except*	WEBS 1 Row at midpt 5-14
6-14: 2x6 SP No.1	
SLIDER Left 2x6 SP No.1 3-4-11, Right 2x6 SP No.1 3-4-11	

**REACTIONS.** (lb/size) 1=11727/0-5-8, 11=9730/0-4-1  
 Max Horz 1=-277(LC 4)  
 Max Uplift 1=-649(LC 8)  
 Max Grav 1=11967(LC 2), 11=9747(LC 2)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-8403/443, 2-3=-14877/826, 3-4=-14791/842, 4-5=-14682/864, 5-6=-10367/637, 6-7=-10364/637, 7-8=-12394/502, 8-9=-12488/481, 9-10=-12589/464, 10-11=-6951/100  
 BOT CHORD 1-25=-731/12092, 25-26=-731/12092, 26-27=-731/12092, 27-28=-731/12092, 16-28=-731/12092, 16-29=-544/10587, 29-30=-544/10587, 15-30=-544/10587, 15-31=-544/10587, 31-32=-544/10587, 32-33=-544/10587, 14-33=-544/10587, 14-34=-310/9593, 34-35=-310/9593, 35-36=-310/9593, 36-37=-310/9593, 13-37=-310/9593, 13-38=-310/9593, 38-39=-310/9593, 12-39=-310/9593, 12-40=-287/10225, 40-41=-287/10225, 41-42=-287/10225, 11-42=-287/10225  
 WEBS 6-14=-599/11126, 7-14=-2016/133, 7-12=0/2669, 9-12=-206/411, 5-14=-3618/406, 5-16=-356/5346, 3-16=-191/496

**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: 2x12 - 2 rows staggered at 0-6-0 oc.  
 Webs connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc.
- All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed ; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are MT20 plates unless otherwise indicated.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Solid blocking is required on both sides of the truss at joint(s), 1, 11.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 649 lb uplift at joint 1.
- This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.



October 30, 2024

Continued on page 2

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

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



818 Soundside Road  
Edenton, NC 27932



Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE	I69213502
J0724-4282	D2GR	Common Girder	1	2	Job Reference (optional)	

Comtech, Inc., Fayetteville, NC 28309

8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 30 16:43:58 2024 Page 2  
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**NOTES-**

11) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 1437 lb down and 95 lb up at 2-0-12, 1437 lb down and 95 lb up at 4-0-12, 1437 lb down and 95 lb up at 6-0-12, 1437 lb down and 95 lb up at 8-0-12, 1435 lb down and 95 lb up at 10-0-12, 1314 lb down and 92 lb up at 12-0-12, 1324 lb down and 92 lb up at 14-0-12, 1359 lb down and 92 lb up at 16-0-12, 1657 lb down and 129 lb up at 18-1-8, 814 lb down and 24 lb up at 20-0-12, 814 lb down and 24 lb up at 22-0-12, 825 lb down and 27 lb up at 24-0-12, 825 lb down and 27 lb up at 26-0-12, 825 lb down and 27 lb up at 28-0-12, 825 lb down and 27 lb up at 30-0-12, and 723 lb down at 32-0-12, and 725 lb down at 34-0-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard

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

Uniform Loads (plf)

Vert: 1-6=-60, 6-11=-60, 17-21=-20

Concentrated Loads (lb)

Vert: 15=-1197(F) 12=-825(F) 23=-725(F) 25=-1435(F) 26=-1435(F) 27=-1435(F) 28=-1435(F) 29=-1435(F) 31=-1197(F) 33=-1197(F) 34=-1543(F) 35=-814(F) 37=-814(F) 38=-825(F) 40=-825(F) 41=-825(F) 42=-723(F)

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

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



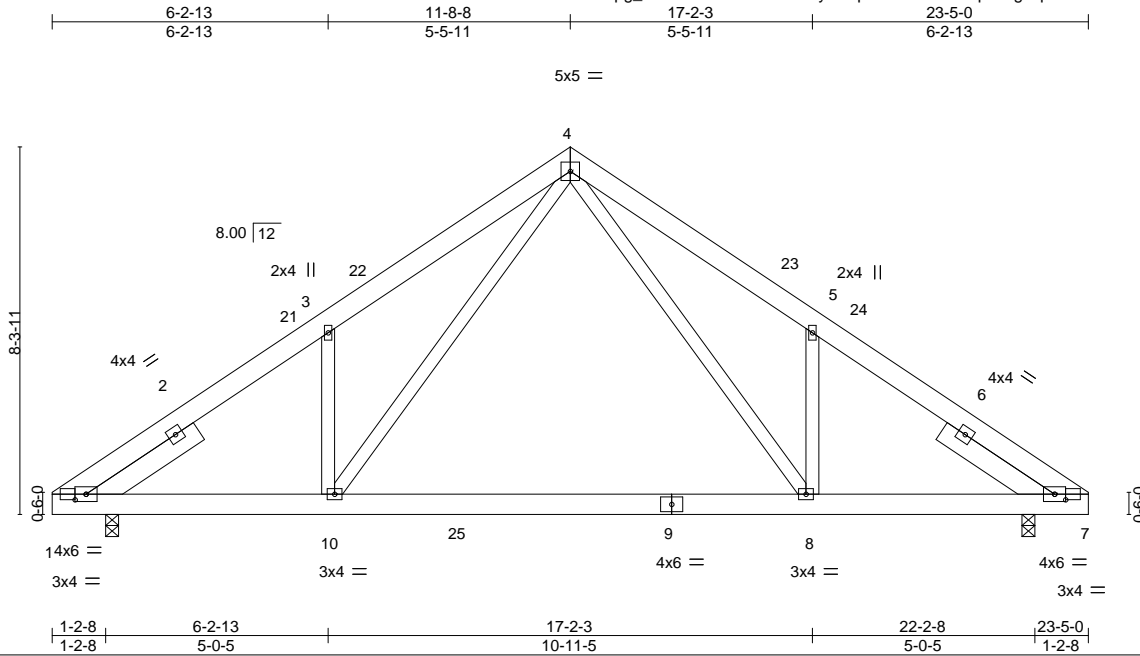
818 Soundside Road  
 Edenton, NC 27932

Job J0724-4282	Truss E1	Truss Type Common	Qty 5	Ply 1	CHARLES MOORE Job Reference (optional)	169213503
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:42 2024 Page 1

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Scale = 1:52.1

Plate Offsets (X, Y)--	[1:0-3-0,0-1-8], [7:0-3-0,0-1-8]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.23	Vert(LL) -0.18 8-10 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.47	Vert(CT) -0.28 8-10 >993 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.23	Horz(CT) 0.01 7 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.02 8-10 >999 240	Weight: 172 lb	FT = 25%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.1 2-11-0, Right 2x6 SP No.1 2-11-0	

<b>REACTIONS.</b>	(size) 1=0-3-8, 7=0-3-8
	Max Horz 1=-165(LC 8)
	Max Uplift 1=-24(LC 12), 7=-24(LC 13)
	Max Grav 1=904(LC 19), 7=901(LC 20)

<b>FORCES.</b>	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-3=-1152/220, 3-4=-1130/385, 4-5=-1125/385, 5-7=-1146/219
BOT CHORD	1-10=-97/977, 8-10=-11/646, 7-8=-97/857
WEBS	4-8=-149/569, 4-10=-149/577

- 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) 1-4-4 to 5-9-1, Interior(1) 5-9-1 to 11-8-8, Exterior(2) 11-8-8 to 16-1-5, Interior(1) 16-1-5 to 22-0-12 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
  - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



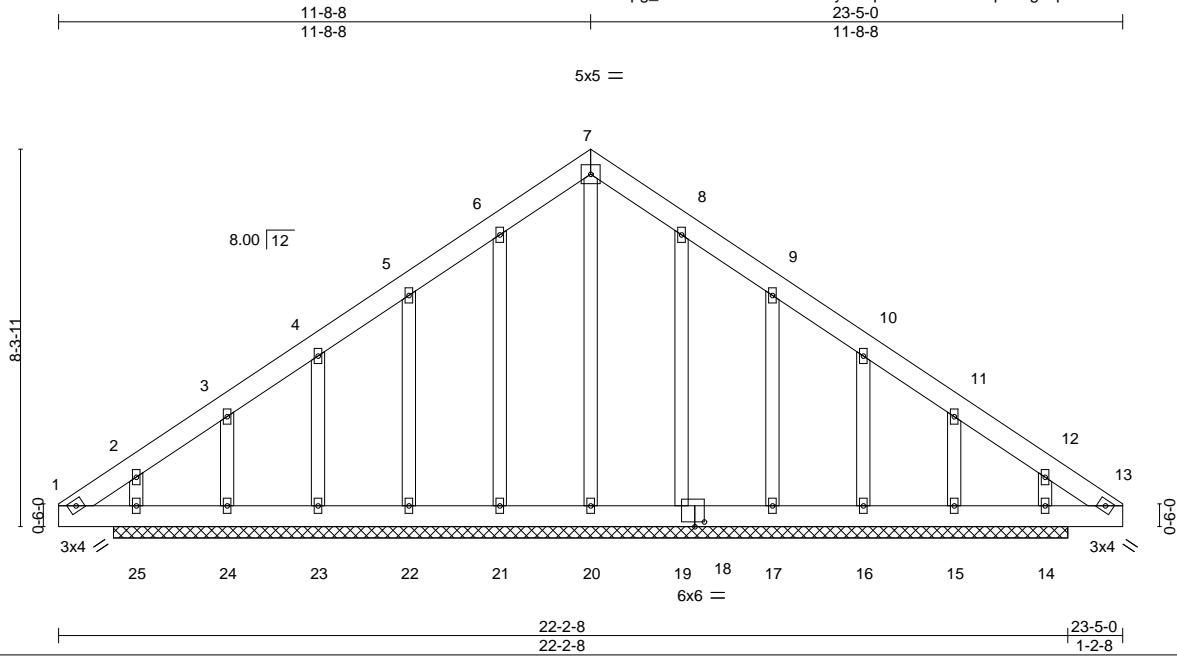
October 30, 2024

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPH Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>818 Soundside Road Edenton, NC 27932</p>
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Job J0724-4282	Truss E1GE	Truss Type Common Supported Gable	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional)	169213504
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:43 2024 Page 1  
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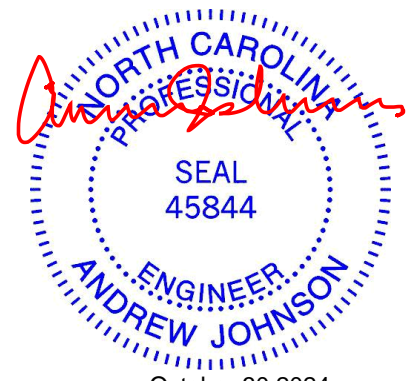
Plate Offsets (X, Y)--	[18:0-2-8,0-1-4]								
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL	1.15	TC 0.04	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.06	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.19	Horz(CT)	0.00	14	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						
								Weight: 182 lb	FT = 25%

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

**REACTIONS.** All bearings 21-0-0.  
 (lb) - Max Horz 25--234(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 21, 23, 19, 16, 14 except 22--104(LC 12), 24--188(LC 12), 25--107(LC 8), 17--104(LC 13), 15--173(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 20, 21, 22, 23, 24, 19, 17, 16, 15 except 25--289(LC 20), 14--262(LC 19)

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

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; 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) 0-0-1 to 4-4-14, Exterior(2) 4-4-14 to 11-8-8, Corner(3) 11-8-8 to 16-1-5, Exterior(2) 16-1-5 to 23-4-15 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 21, 23, 19, 16, 14 except (jt=lb) 22=104, 24=188, 25=107, 17=104, 15=173.
  - Non Standard bearing condition. Review required.



October 30, 2024

Job J0724-4282	Truss E2	Truss Type Common	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional)	169213505
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:43 2024 Page 1

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5x5 =

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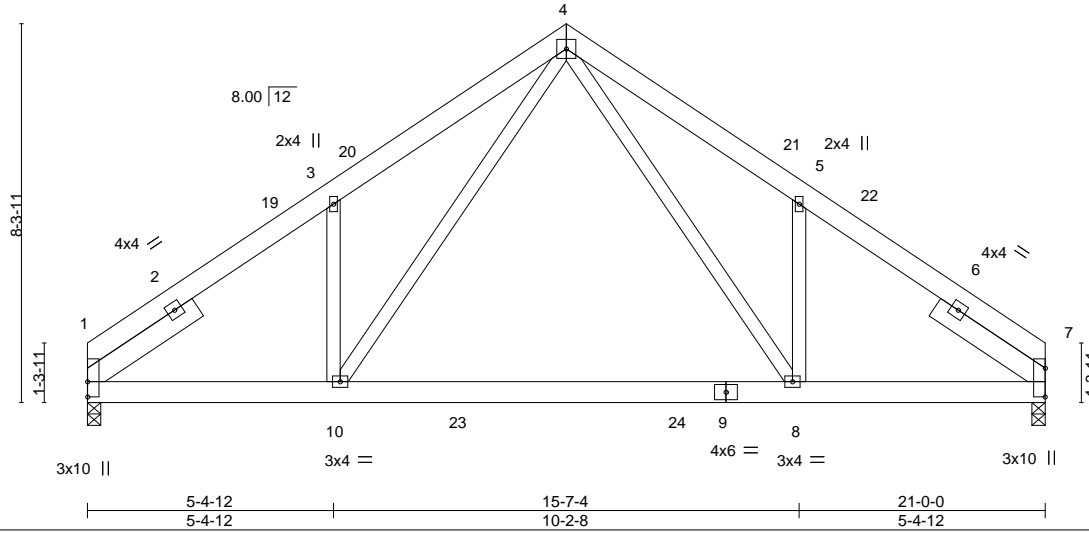


Plate Offsets (X,Y)--	[1:0-4-0,0-0-1], [7:0-7-9,0-0-1]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.15	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.42	Vert(LL) -0.15 8-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.23	Vert(CT) -0.23 8-10 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.02 8-10 >999 240	Weight: 161 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	
SLIDER Left 2x6 SP No.1 2-11-0, Right 2x6 SP No.1 2-11-0	

**REACTIONS.** (size) 1=0-3-8, 7=0-3-8  
 Max Horz 1=168(LC 8)  
 Max Uplift 1=42(LC 12), 7=42(LC 13)  
 Max Grav 1=885(LC 19), 7=885(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-3=-1154/229, 3-4=-1151/392, 4-5=-1151/392, 5-7=-1154/229  
 BOT CHORD 1-10=-94/994, 8-10=-7/666, 7-8=-94/884  
 WEBS 4-8=-160/599, 5-8=-275/239, 4-10=-160/599, 3-10=-275/239

- 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) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 10-6-0, Exterior(2) 10-6-0 to 14-10-13, Interior(1) 14-10-13 to 21-0-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
  - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



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

Job J0724-4282	Truss E2GR	Truss Type Common Girder	Qty 1	Ply 2	CHARLES MOORE Job Reference (optional)	169213506
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:44 2024 Page 1

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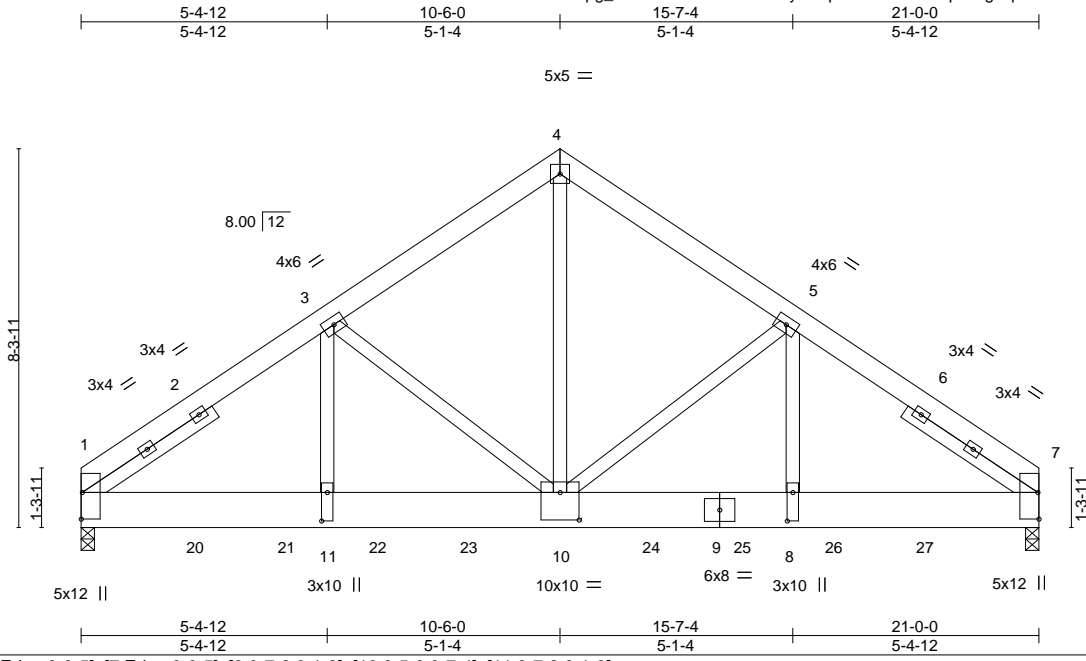


Plate Offsets (X, Y)--	[1:Edge,0-0-5], [7:Edge,0-0-5], [8:0-7-8,0-1-8], [10:0-5-0,0-7-4], [11:0-7-8,0-1-8]
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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.24	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.52	Vert(LL) -0.06 8-10 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.51	Vert(CT) -0.13 8-10 >999 240		
BCDL 10.0	Rep Stress Incr NO	Matrix-MS	Horz(CT) 0.04 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) -0.01 8-10 >999 240	Weight: 385 lb	FT = 25%

**LUMBER-**  
TOP CHORD 2x6 SP No.1  
BOT CHORD 2x10 SP No.1  
WEBS 2x4 SP No.2  
SLIDER Left 2x4 SP No.2 3-5-0, Right 2x4 SP No.2 3-5-0

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

**REACTIONS.** (size) 1=0-3-8, 7=0-3-8 (req. 0-4-0)  
Max Horz 1=-165(LC 4)  
Max Grav 1=3973(LC 1), 7=6784(LC 2)

SUPPLEMENTARY BEARING PLATES, SPECIAL ANCHORAGE, OR OTHER MEANS TO ALLOW FOR THE MINIMUM REQUIRED SUPPORT WIDTH (SUCH AS COLUMN CAPS, BEARING BLOCKS, ETC.) ARE THE RESPONSIBILITY OF THE TRUSS MANUFACTURER OR THE BUILDING DESIGNER.

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-3=-4550/0, 3-4=-4221/0, 4-5=-4209/0, 5-7=-6565/0  
BOT CHORD 1-11=0/3659, 10-11=0/3659, 8-10=0/5301, 7-8=0/5301  
WEBS 4-10=0/4146, 5-10=-2494/0, 5-8=0/3046, 3-11=0/333

- NOTES-**
- 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:  
Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.  
Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-7-0 oc.  
Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
  - All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
  - Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BC DL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope); cantilever left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - WARNING: Required bearing size at joint(s) 7 greater than input bearing size.
  - Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 390 lb down at 0-5-12, 385 lb down at 2-5-12, 385 lb down at 4-5-12, 385 lb down at 6-5-12, 385 lb down at 8-5-12, 385 lb down at 10-5-12, 1426 lb down at 12-5-12, 1401 lb down at 14-5-12, 1401 lb down at 16-5-12, and 1401 lb down at 18-5-12, and 1405 lb down at 20-5-12 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.

**LOAD CASE(S)** Standard  
1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15  
Uniform Loads (plf)  
Vert: 1-4=-60, 4-7=-60, 12-16=-20



Continued on page 2

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b>  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 <b>ANSI/TP1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcacomponents.com)</p>	 818 Soundside Road Edenton, NC 27932
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Job J0724-4282	Truss E2GR	Truss Type Common Girder	Qty 1	Ply <b>2</b>	CHARLES MOORE Job Reference (optional)	I69213506
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:44 2024 Page 2  
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**LOAD CASE(S)** Standard

Concentrated Loads (lb)

Vert: 10=-385(B) 14=-390(B) 18=-1344(B) 20=-385(B) 21=-385(B) 22=-385(B) 23=-385(B) 24=-1363(B) 25=-1339(B) 26=-1339(B) 27=-1339(B)

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

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



818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE
J0724-4282	G1	Common	5	1	169213507
Job Reference (optional)					

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:44 2024 Page 1

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5x5 =

Scale = 1:58.0

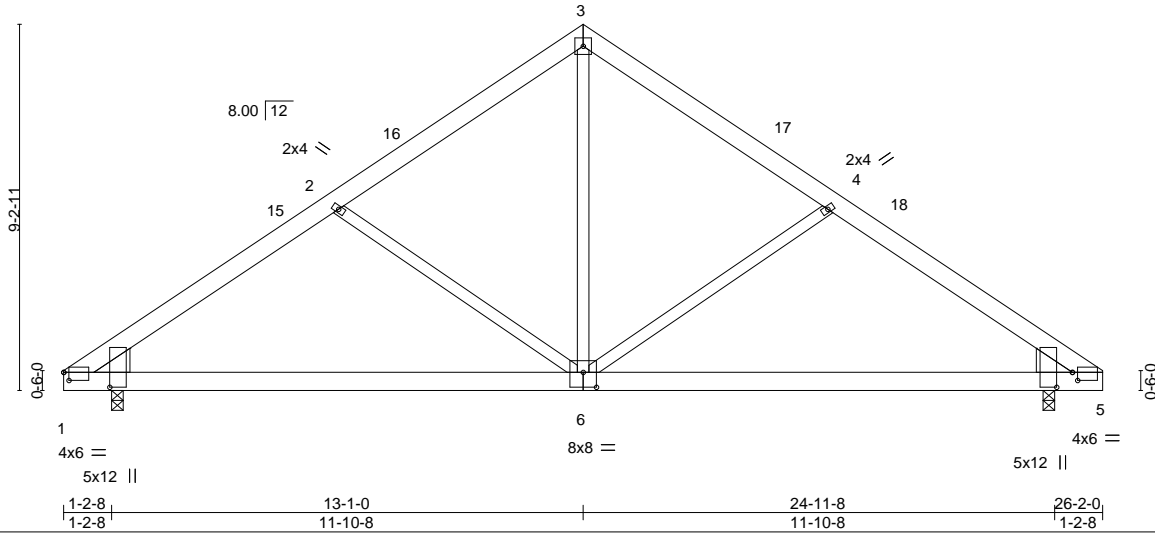


Plate Offsets (X,Y)-- [1:0-1-9,0-2-7], [1:0-4-8,1-1-15], [5:0-4-8,0-4-12], [5:0-1-9,0-2-7], [6:0-4-0,0-4-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.23	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.34	Vert(LL) -0.06 6-8 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.89	Vert(CT) -0.12 6-8 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 5 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) 0.11 6-12 >999 240	Weight: 174 lb	FT = 25%

**LUMBER-**  
 TOP CHORD 2x6 SP No.1  
 BOT CHORD 2x6 SP No.1  
 WEBS 2x4 SP No.2  
 WEDGE  
 Left: 2x8 SP No.1 , Right: 2x8 SP No.1

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 1=0-3-8, 5=0-3-8  
 Max Horz 1=-187(LC 10)  
 Max Uplift 1=-153(LC 9), 5=-153(LC 8)  
 Max Grav 1=965(LC 1), 5=965(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-2=-1149/863, 2-3=-896/826, 3-4=-896/826, 4-5=-1149/863  
 BOT CHORD 1-6=-621/859, 5-6=-621/859  
 WEBS 3-6=-697/561, 4-6=-320/219, 2-6=-320/219

- 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) 1-4-4 to 5-9-1, Interior(1) 5-9-1 to 13-1-0, Exterior(2) 13-1-0 to 17-5-13, Interior(1) 17-5-13 to 24-9-12 zone; cantilever left and right exposed ; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 4) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=153, 5=153.
  - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



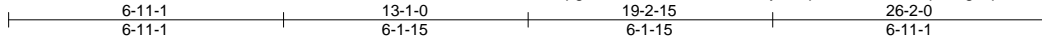
October 30, 2024

Job J0724-4282	Truss G1SGE	Truss Type GABLE	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional)	169213508
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:45 2024 Page 1

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5x5 =

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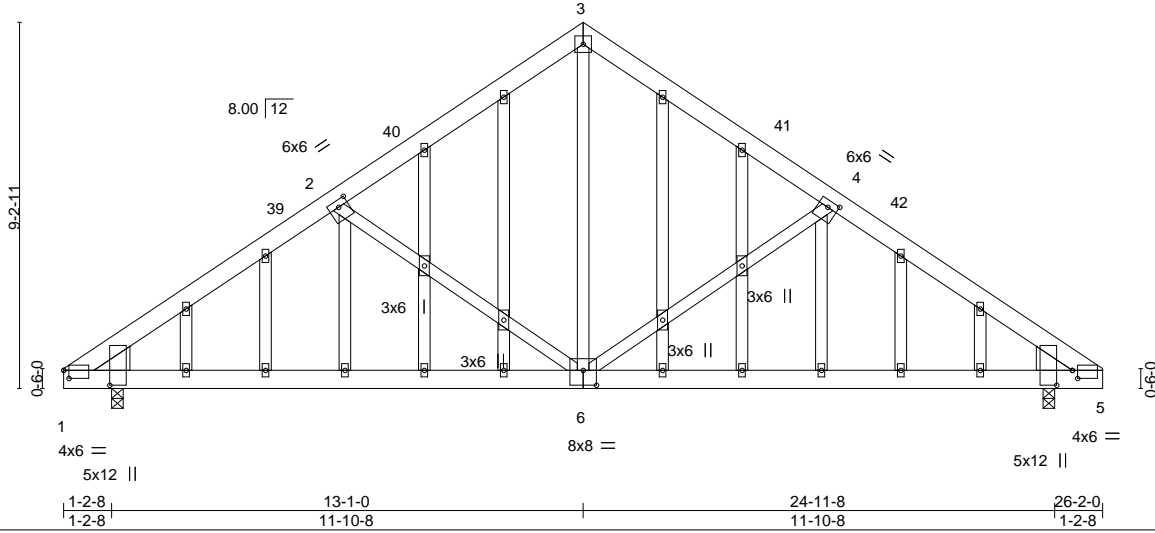


Plate Offsets (X, Y)--	[1:0-4-8,1-1-15], [1:0-1-9,0-2-7], [2:0-3-0,0-2-0], [4:0-3-0,0-2-0], [5:0-4-8,0-4-12], [5:0-1-9,0-2-7], [6:0-4-0,0-4-8]
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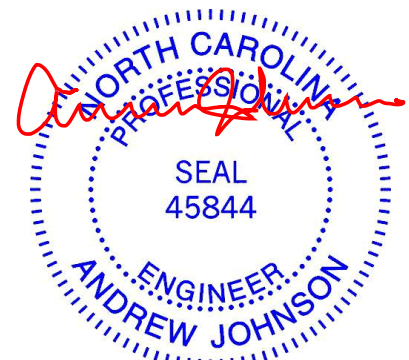
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL	1.15	TC 0.23	Vert(LL)	-0.06	6-32	>999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.34	Vert(CT)	-0.12	6-32	>999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.89	Horz(CT)	0.02	5	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-AS	Wind(LL)	0.11	6-36	>999		
								Weight: 236 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x6 SP No.1	TOP CHORD Structural wood sheathing directly applied.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2	
OTHERS 2x4 SP No.2	
WEDGE	
Left: 2x8 SP No.1 , Right: 2x8 SP No.1	

REACTIONS.	(size)
1=0-3-8, 5=0-3-8	
Max Horz 1=-234(LC 8)	
Max Uplift 1=-170(LC 9), 5=-170(LC 8)	
Max Grav 1=965(LC 1), 5=965(LC 1)	

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	1-2=-1149/863, 2-3=-896/826, 3-4=-896/826, 4-5=-1149/863
BOT CHORD	1-6=-621/859, 5-6=-621/859
WEBS	3-6=-697/561, 4-6=-320/287, 2-6=-320/286

- NOTES-**
- Unbalanced roof live loads have been considered for this design.
  - Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 1-4-4 to 5-9-1, Interior(1) 5-9-1 to 13-1-0, Exterior(2) 13-1-0 to 17-5-13, Interior(1) 17-5-13 to 24-9-12 zone; cantilever left and right exposed ; porch left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
  - All plates are 2x4 MT20 unless otherwise indicated.
  - Gable studs spaced at 2-0-0 oc.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=170, 5=170.
  - This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



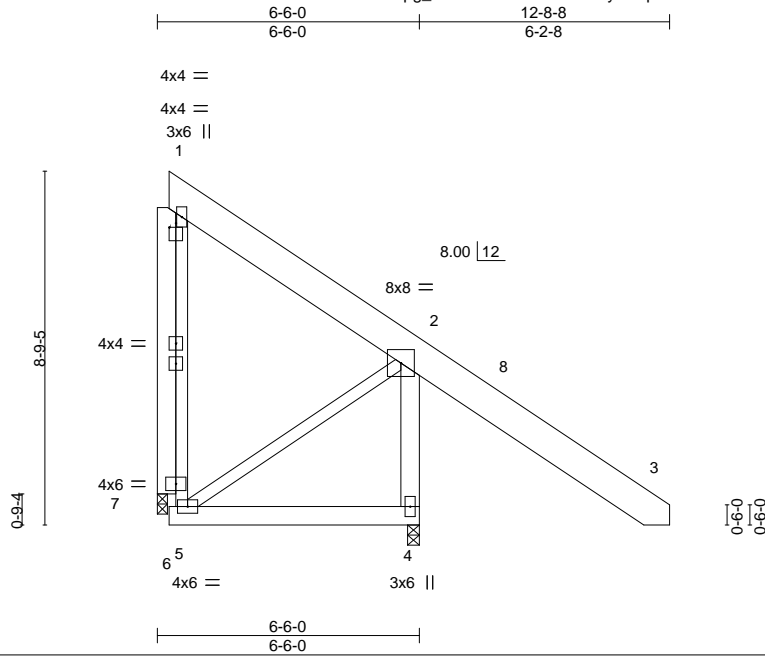
October 30, 2024

<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPI1 Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p><b>TRENCO</b></p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0724-4282	Truss M1	Truss Type ROOF SPECIAL	Qty 2	Ply 1	CHARLES MOORE Job Reference (optional)	169213509
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:45 2024 Page 1  
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Scale = 1:57.2

Plate Offsets (X,Y)--	[1:0-2-0,0-1-4]				
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 20.0	Plate Grip DOL 1.15	TC 0.42	Vert(LL) -0.01 4-5 >999 360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.09	Vert(CT) -0.02 4-5 >999 240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.22	Horz(CT) 0.01 4 n/a n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-AS	Wind(LL) 0.01 4-5 >999 240	Weight: 119 lb	FT = 25%

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x10 SP No.1	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x6 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.2 *Except* 2-4: 2x6 SP No.1	
OTHERS 2x6 SP No.1	

**REACTIONS.** (size) 4=0-3-8, 7=0-3-0  
 Max Horz 7=-183(LC 12)  
 Max Uplift 4=-140(LC 9), 7=-148(LC 13)  
 Max Grav 4=792(LC 1), 7=184(LC 11)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-7=-290/125, 2-4=-737/417  
 WEBS 2-5=-280/477

- 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) 0-7-4 to 6-9-15, Interior(1) 6-9-15 to 12-4-11 zone; end vertical right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Bearing at joint(s) 7 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 capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 4=140, 7=148.
  - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

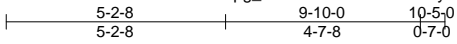


Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE
J0724-4282	M2	Monopitch	6	1	169213510
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:46 2024 Page 1

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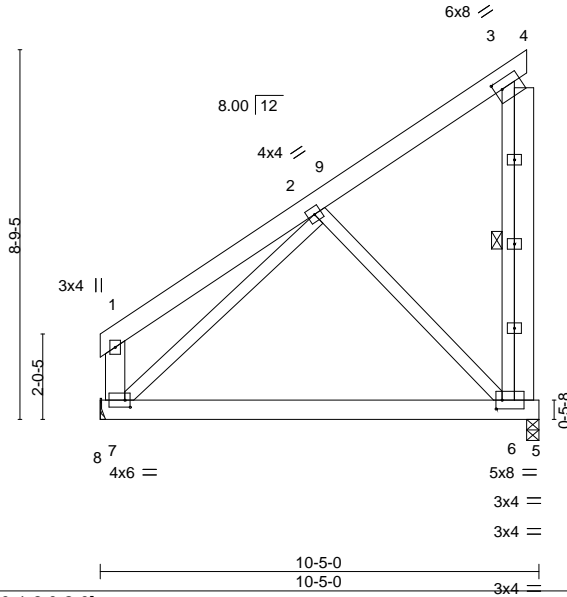


Plate Offsets (X,Y)--	[3:0-2-2,0-2-8], [6:0-1-12,0-2-8], [7:0-1-8,0-2-0]
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LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.17	Vert(LL)	-0.04	6-7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT)	-0.08	6-7	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.26	Horz(CT)	0.00	6	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	-0.00	7	>999		
	Code IRC2015/TPI2014						Weight: 104 lb	FT = 25%

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

**REACTIONS.** (size) 6=0-3-8, 7=Mechanical  
 Max Horz 7=211(LC 12)  
 Max Uplift 6=148(LC 12)  
 Max Grav 6=449(LC 19), 7=386(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 BOT CHORD 6-7=-180/277  
 WEBS 2-6=-356/261

- 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) 0-4-4 to 5-0-6, Interior(1) 5-0-6 to 10-1-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 6=148.
  - 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



October 30, 2024

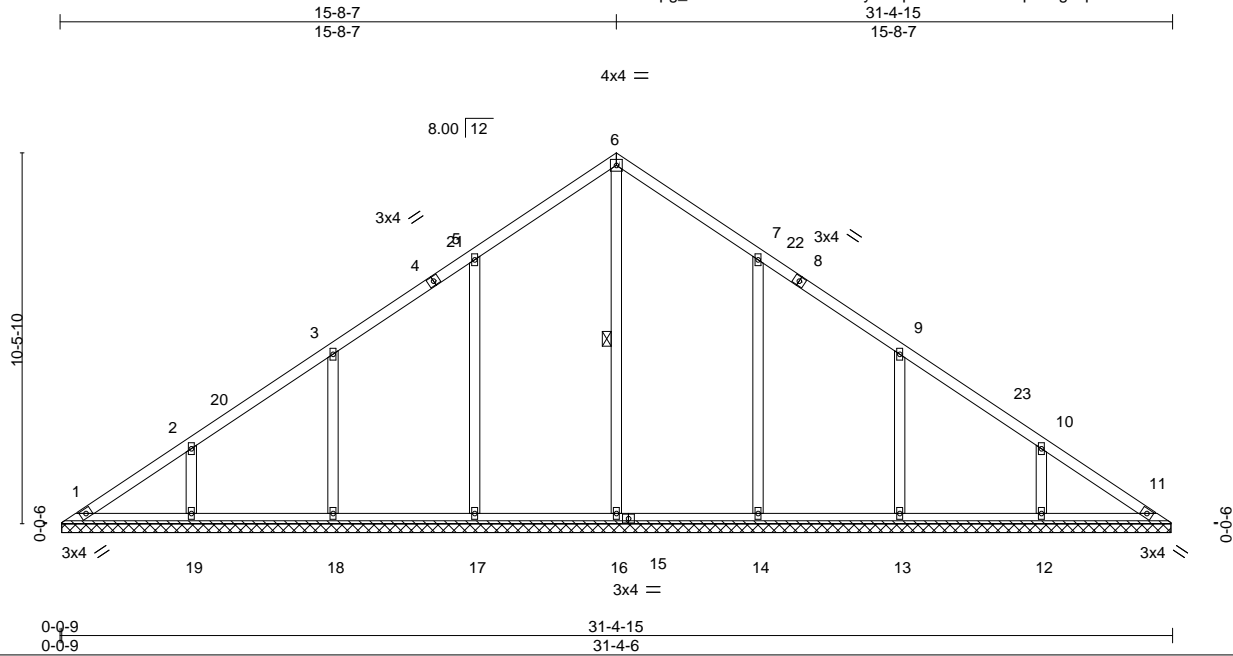
<p><b>WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE.</b></p> <p>Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see <b>ANSI/TPH Quality Criteria and DSB-22</b> available from Truss Plate Institute (www.tpinst.org) and <b>BCSI Building Component Safety Information</b> available from the Structural Building Component Association (www.sbcacomponents.com)</p>	<p>ENGINEERING BY</p> <p>A MiTek Affiliate</p> <p>818 Soundside Road Edenton, NC 27932</p>
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Job J0724-4282	Truss V1	Truss Type Valley	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional)	169213511
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Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:46 2024 Page 1  
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Scale = 1:65.1

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
BCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.30	Horz(CT)	0.01	11	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 157 lb	FT = 25%

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

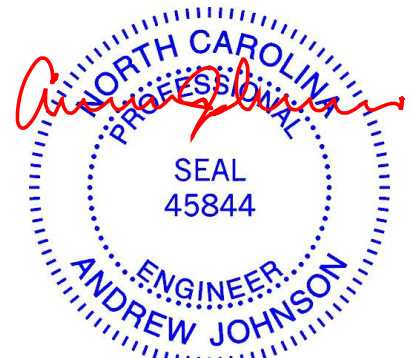
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.  
WEBS 1 Row at midpt 6-16

**REACTIONS.** All bearings 31-3-13.  
(lb) - Max Horz 1=243(LC 9)  
Max Uplift All uplift 100 lb or less at joint(s) 1, 18, 19, 13, 12 except 17=-102(LC 12), 14=-101(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 11 except 16=447(LC 22), 17=556(LC 19), 18=429(LC 19), 19=333(LC 19), 14=555(LC 20), 13=429(LC 20), 12=333(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 5-6=-264/248, 6-7=-264/248  
WEBS 5-17=-307/201, 3-18=-291/164, 2-19=-288/192, 7-14=-307/201, 9-13=-291/164, 10-12=-288/192

**NOTES-**

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 15-8-7, Exterior(2) 15-8-7 to 20-1-4, Interior(1) 20-1-4 to 30-11-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 18, 19, 13, 12 except (jt=lb) 17=102, 14=101.



October 30, 2024

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

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

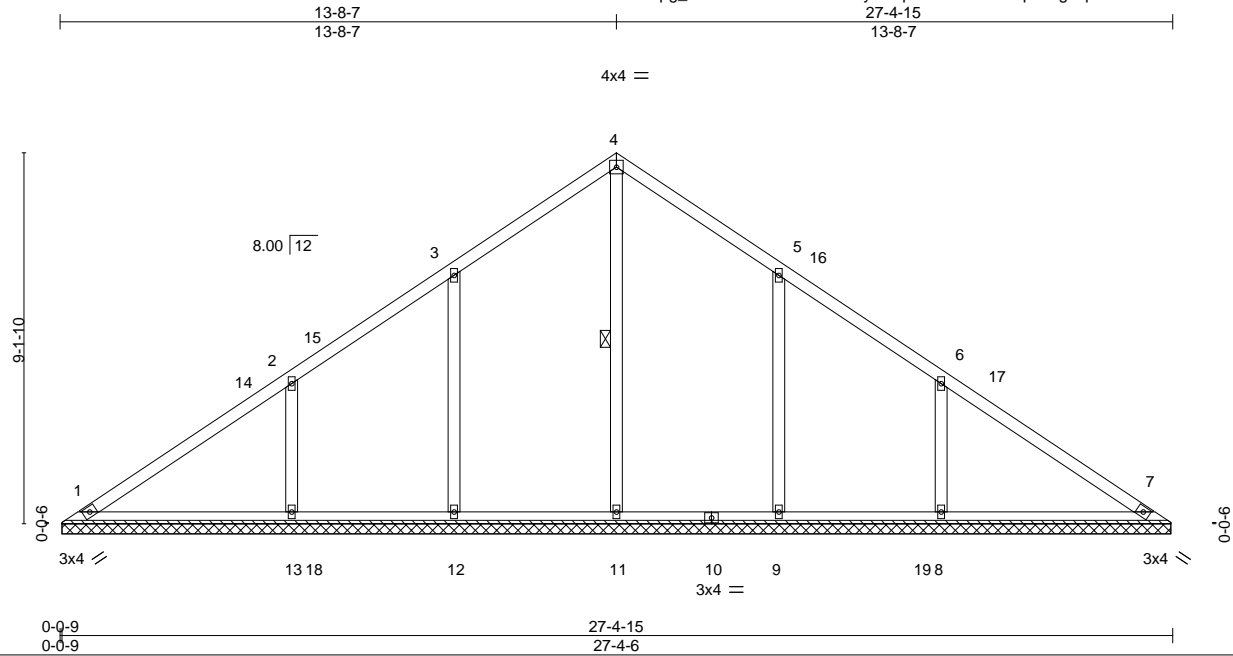


818 Soundside Road  
Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE
J0724-4282	V2	Valley	1	1	169213512
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:47 2024 Page 1  
 ID:Epg\_20A84fHH78wb??bLR0ywuhp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



Scale = 1:56.8

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 0.25	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 128 lb	FT = 25%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
OTHERS 2x4 SP No.2	WEBS 1 Row at midpt 4-11

**REACTIONS.** All bearings 27-3-13.  
 (lb) - Max Horz 1=-211(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 12, 9 except 13=-125(LC 12), 8=-125(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=446(LC 22), 12=514(LC 19), 13=528(LC 19), 9=513(LC 20), 8=528(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-12=-277/186, 2-13=-383/239, 5-9=-277/186, 6-8=-383/239

- 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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 13-8-7, Exterior(2) 13-8-7 to 18-1-4, Interior(1) 18-1-4 to 26-11-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 12, 9 except (jt=lb) 13=125, 8=125.

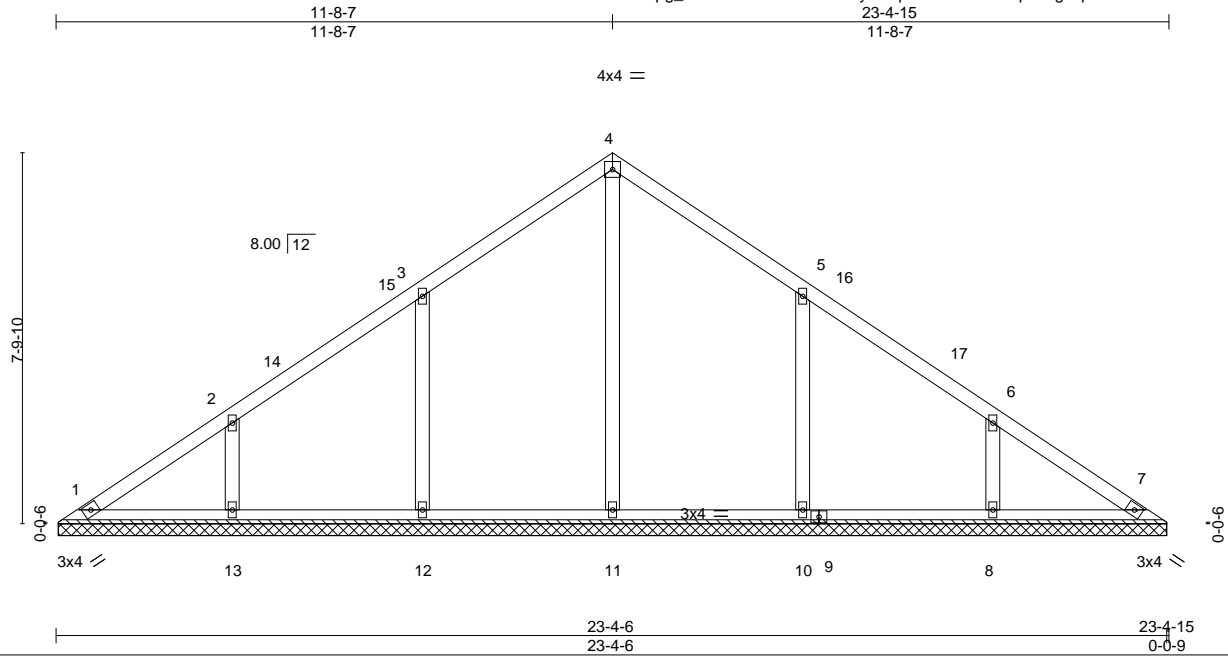


October 30, 2024

Job J0724-4282	Truss V3	Truss Type Valley	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional)	169213513
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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:47 2024 Page 1  
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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 0.15	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.19	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.17	Horz(CT)	0.00	7	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 105 lb	FT = 25%

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

**REACTIONS.** All bearings 23-3-13.  
 (lb) - Max Horz 1=179(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1, 13, 8 except 12=103(LC 12), 10=102(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 7 except 11=453(LC 22), 12=451(LC 19), 13=328(LC 19), 10=450(LC 20), 8=328(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 WEBS 3-12=310/205, 2-13=283/190, 5-10=310/205, 6-8=283/190

- 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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 11-8-7, Exterior(2) 11-8-7 to 16-1-4, Interior(1) 16-1-4 to 22-11-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - 3) All plates are 2x4 MT20 unless otherwise indicated.
  - 4) Gable requires continuous bottom chord bearing.
  - 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - 6) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
  - 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 13, 8 except (jt=lb) 12=103, 10=102.

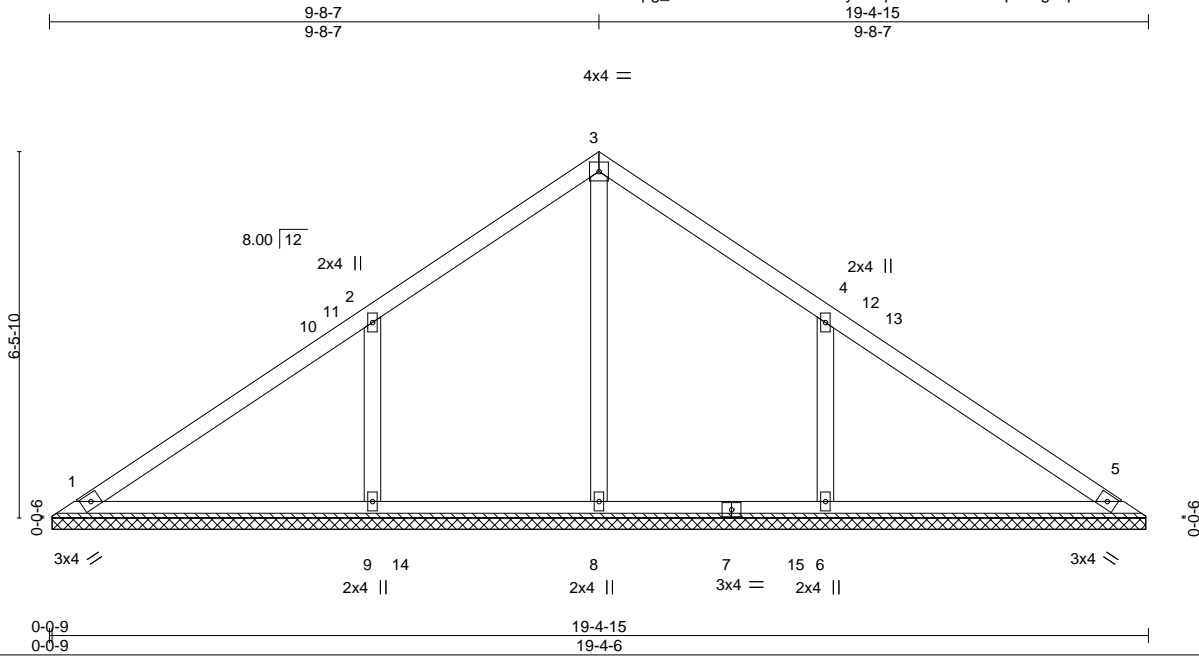


October 30, 2024

Job J0724-4282	Truss V4	Truss Type Valley	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional) 169213514
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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:48 2024 Page 1  
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Scale = 1:40.7

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.26	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.17	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 80 lb	FT = 25%

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

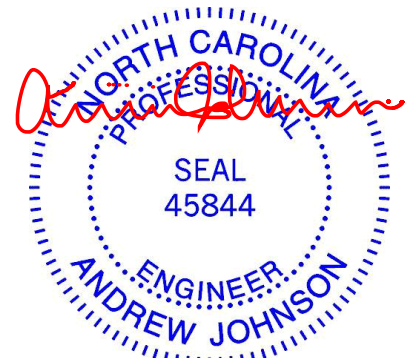
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** All bearings 19-3-13.  
(lb) - Max Horz 1=-147(LC 8)  
Max Uplift All uplift 100 lb or less at joint(s) 1 except 9=-134(LC 12), 6=-134(LC 13)  
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 8=401(LC 22), 9=548(LC 19), 6=548(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-9=-402/251, 4-6=-402/251

**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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 9-8-7, Exterior(2) 9-8-7 to 14-1-4, Interior(1) 14-1-4 to 18-11-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9=134, 6=134.



October 30, 2024

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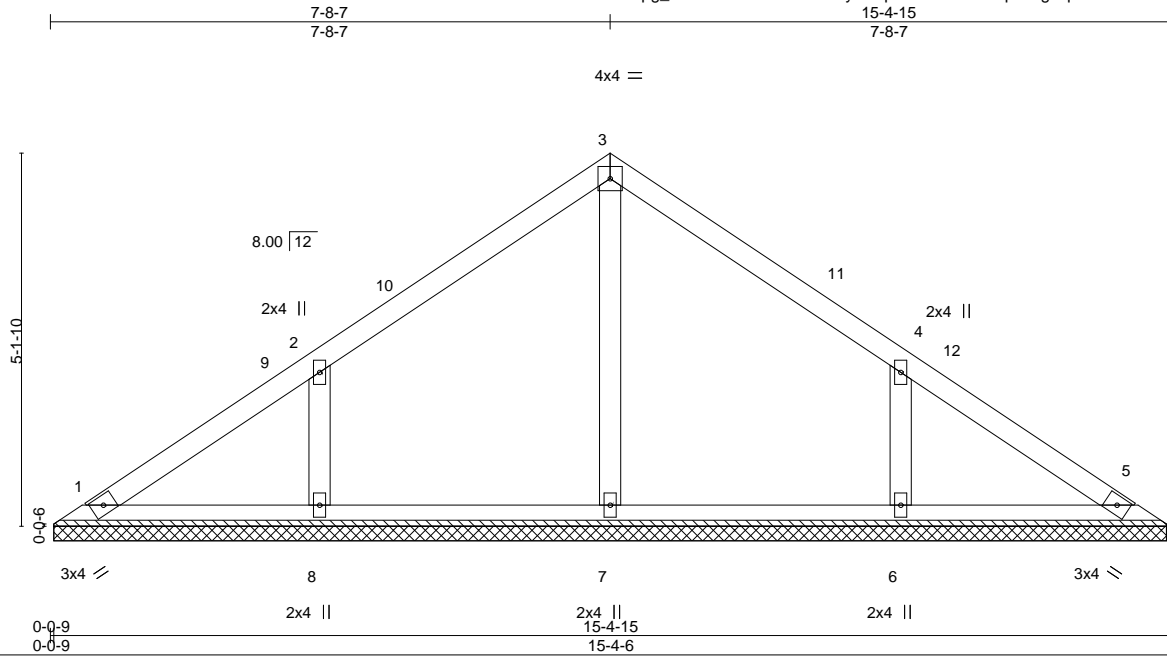
818 Soundside Road  
Edenton, NC 27932

Job J0724-4282	Truss V5	Truss Type Valley	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional)	169213515
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Scale: 3/8"=1'

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 61 lb	FT = 25%

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

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

**REACTIONS.** All bearings 15-3-13.  
 (lb) - Max Horz 1=115(LC 9)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=104(LC 12), 6=104(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=252(LC 1), 8=364(LC 19), 6=364(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-308/206, 4-6=-308/206

- 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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 7-8-7, Exterior(2) 7-8-7 to 12-1-4, Interior(1) 12-1-4 to 14-11-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=104, 6=104.



October 30, 2024

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818 Soundside Road  
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Job J0724-4282	Truss V6	Truss Type Valley	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional)	169213516
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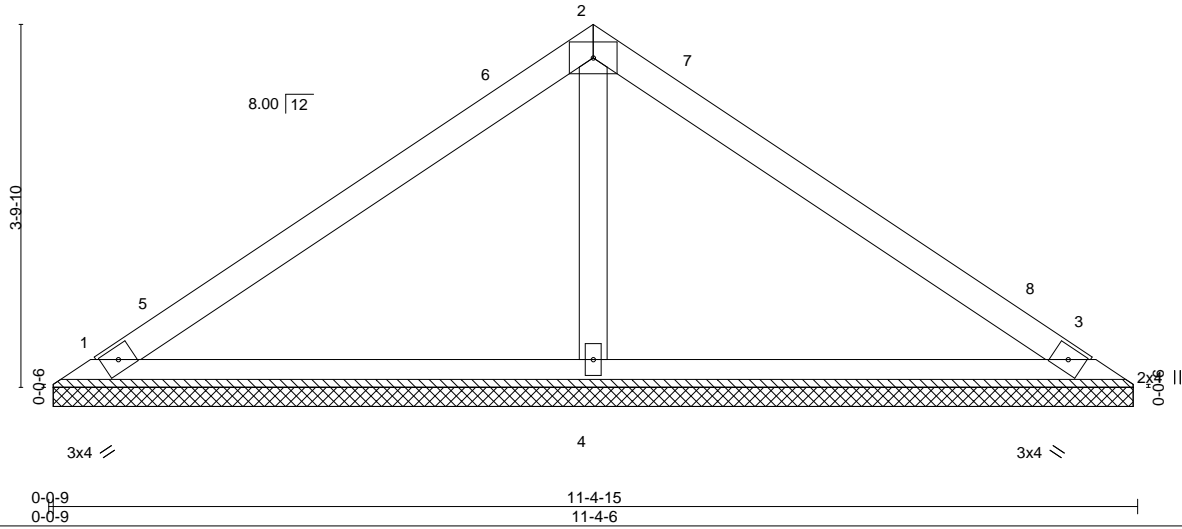
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4x6 =

Scale: 1/2"=1'



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.29	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.20	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S						
	Code IRC2015/TPI2014						Weight: 40 lb	FT = 25%

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

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

**REACTIONS.** (size) 1=11-3-13, 3=11-3-13, 4=11-3-13  
Max Horz 1=83(LC 8)  
Max Uplift 1=26(LC 12), 3=34(LC 13)  
Max Grav 1=207(LC 1), 3=207(LC 1), 4=420(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-4=-266/120

**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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-8-7, Exterior(2) 5-8-7 to 10-1-4, Interior(1) 10-1-4 to 10-11-0 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 30, 2024

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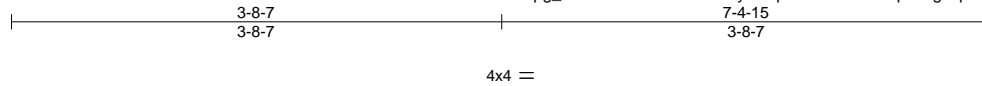


Job J0724-4282	Truss V7	Truss Type Valley	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional)	169213517
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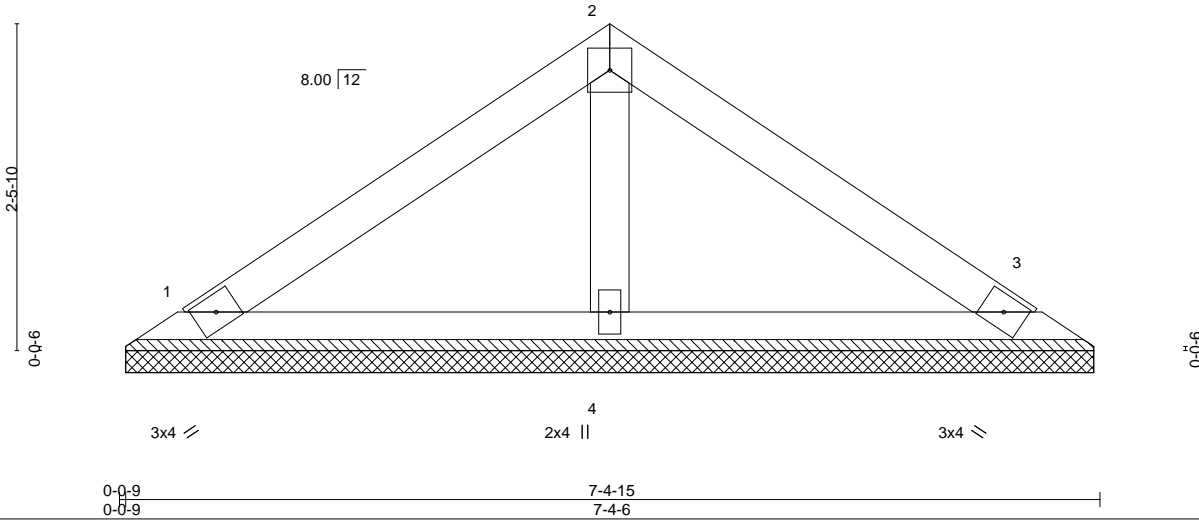
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Scale = 1:17.4



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.14	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.08	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 25 lb	FT = 25%
	Code IRC2015/TPI2014							

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

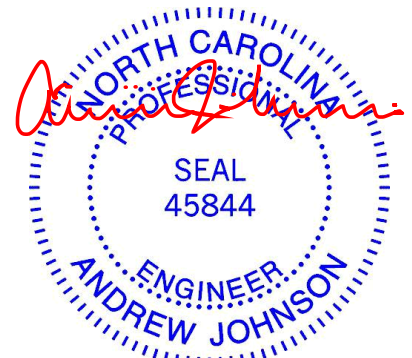
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=7-3-13, 3=7-3-13, 4=7-3-13  
 Max Horz 1=52(LC 9)  
 Max Uplift 1=22(LC 12), 3=27(LC 13)  
 Max Grav 1=140(LC 1), 3=140(LC 1), 4=234(LC 1)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 30, 2024

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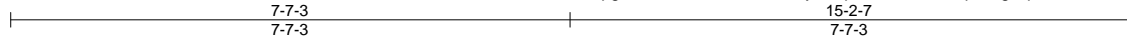
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE
J0724-4282	VA1	Valley	1	1	169213518
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

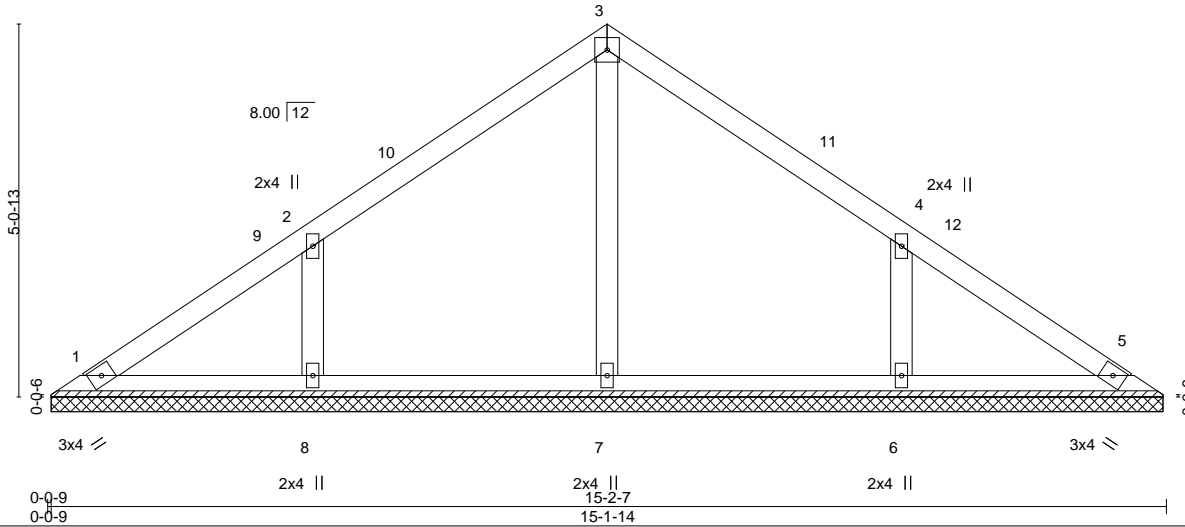
8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:50 2024 Page 1

ID:Epg\_20A84fHH78wb??bLR0ywuhp-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f



4x4 =

Scale = 1:31.3



LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP	
TCLL 20.0	Plate Grip DOL	1.15	TC 0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.15	BC 0.08	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.07	Horz(CT)	0.00	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014		Matrix-S						Weight: 60 lb	FT = 25%

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

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

**REACTIONS.** All bearings 15-1-5.  
 (lb) - Max Horz 1=-114(LC 8)  
 Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-102(LC 12), 6=-102(LC 13)  
 Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=254(LC 1), 8=359(LC 19), 6=359(LC 20)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-8=-304/204, 4-6=-304/204

- 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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 7-7-3, Exterior(2) 7-7-3 to 12-0-0, Interior(1) 12-0-0 to 14-8-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
  - Gable requires continuous bottom chord bearing.
  - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  - \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=102, 6=102.



October 30, 2024

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



818 Soundside Road  
 Edenton, NC 27932

Job J0724-4282	Truss VA2	Truss Type Valley	Qty 1	Ply 1	CHARLES MOORE Job Reference (optional)	169213519
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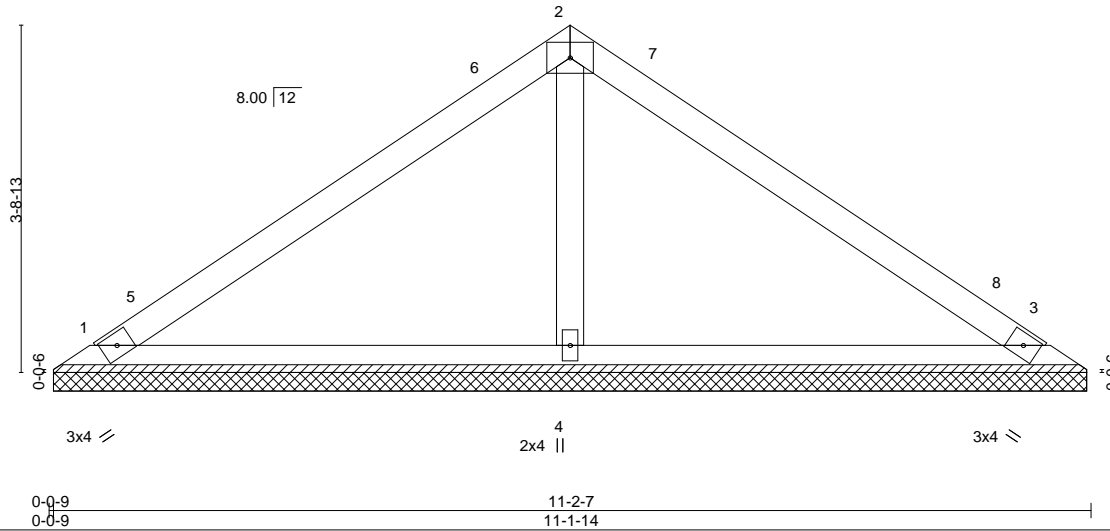
8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:50 2024 Page 1

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4x6 =

Scale = 1:24.8



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.28	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.19	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.06	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-S					Weight: 39 lb	FT = 25%
	Code IRC2015/TPI2014							

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

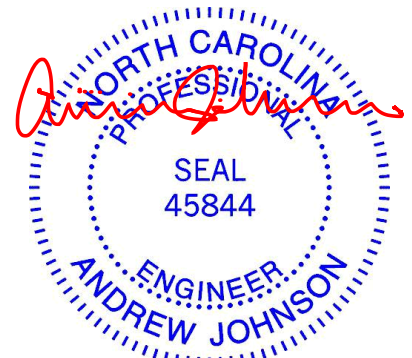
**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (size) 1=11-1-5, 3=11-1-5, 4=11-1-5  
 Max Horz 1=82(LC 8)  
 Max Uplift 1=25(LC 12), 3=33(LC 13)  
 Max Grav 1=203(LC 1), 3=203(LC 1), 4=412(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**WEBS** 2-4=-261/118

**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) 0-5-15 to 4-10-12, Interior(1) 4-10-12 to 5-7-3, Exterior(2) 5-7-3 to 10-0-0, Interior(1) 10-0-0 to 10-8-8 zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 30, 2024

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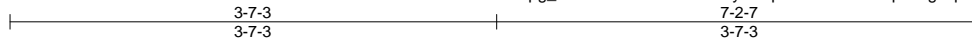
818 Soundside Road  
 Edenton, NC 27932

Job	Truss	Truss Type	Qty	Ply	CHARLES MOORE
J0724-4282	VA3	Valley	1	1	169213520
					Job Reference (optional)

Comtech, Inc. Fayetteville, NC - 28314,

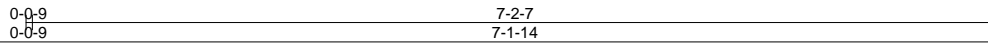
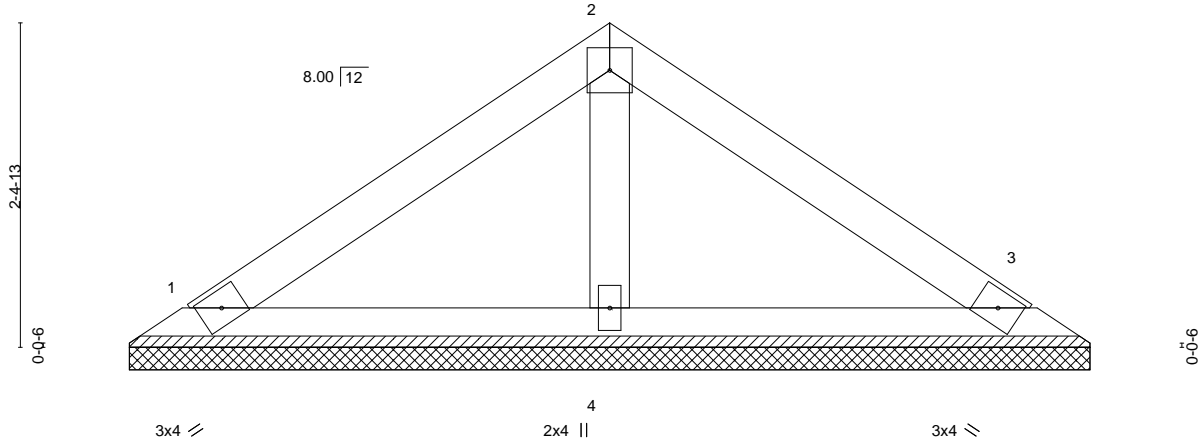
8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:50 2024 Page 1

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4x4 =

Scale = 1:17.0



LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.13	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.07	Vert(CT)	n/a	-	n/a		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	3	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-P					Weight: 24 lb	FT = 25%
	Code IRC2015/TPI2014							

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

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

**REACTIONS.** (size) 1=7-1-5, 3=7-1-5, 4=7-1-5  
 Max Horz 1=50(LC 8)  
 Max Uplift 1=21(LC 12), 3=26(LC 13)  
 Max Grav 1=135(LC 1), 3=135(LC 1), 4=227(LC 1)

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

**NOTES-**

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left and right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



October 30, 2024

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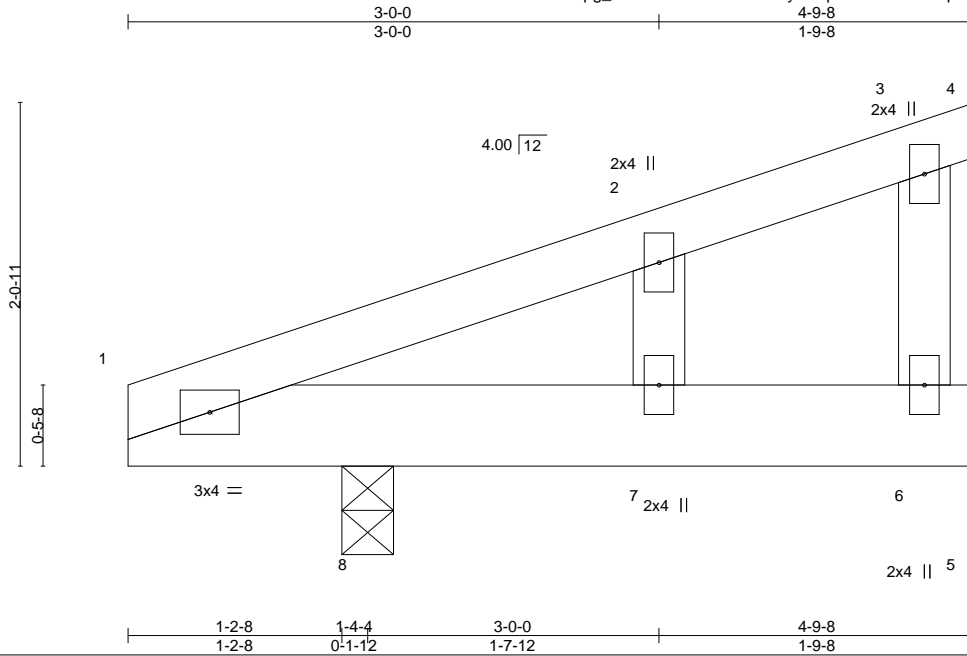
818 Soundside Road  
 Edenton, NC 27932

Job J0724-4282	Truss X1	Truss Type Jack-Open	Qty 5	Ply 1	CHARLES MOORE Job Reference (optional)	169213521
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8.630 s Sep 26 2024 MiTek Industries, Inc. Mon Oct 28 14:32:51 2024 Page 1

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Scale = 1:13.0

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.05	Vert(LL)	-0.00	7	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.05	Vert(CT)	-0.00	7	>999		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.02	Horz(CT)	0.00	n/a	n/a		
BCDL 10.0	Rep Stress Incr YES	Matrix-AS	Wind(LL)	0.00	7	>999	Weight: 22 lb	FT = 25%
	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.  
 BOT CHORD Rigid ceiling directly applied.

**REACTIONS.** (size) 6=Mechanical, 8=0-3-8  
 Max Horz 8=51(LC 8)  
 Max Uplift 6=-26(LC 12), 8=-50(LC 8)  
 Max Grav 6=115(LC 1), 8=257(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; TCCL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 3) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 4) Refer to girder(s) for truss to truss connections.
- 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 8.
- 6) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.



October 30, 2024

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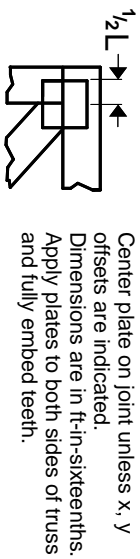
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall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



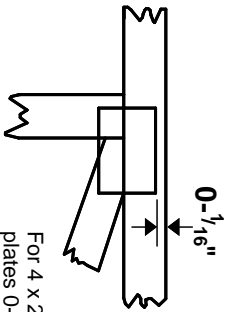
818 Soundside Road  
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# Symbols

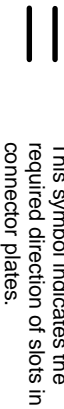
## PLATE LOCATION AND ORIENTATION



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



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



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

## PLATE SIZE

4 X 4

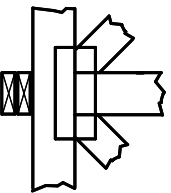
The first dimension is the plate width measured perpendicular to slots. Second dimension is the length parallel to slots.

## LATERAL BRACING LOCATION



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

## BEARING



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

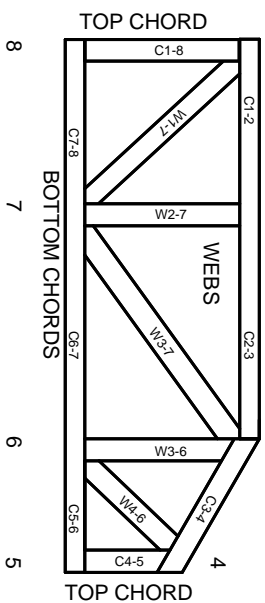
## Industry Standards:

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

# Numbering System



1 TOP CHORDS  
2 JOINT ID TYP.



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

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

# Product Code Approvals

ICC-ES Reports:

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

# Design General Notes

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

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

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**MITek**

ENGINEERING BY  
**TRENGO**  
A MITek Affiliate

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

# General Safety Notes

## Failure to Follow Could Cause Property Damage or Personal Injury

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