

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0221-0761

Weaver/Lot 5 Atkins Farm/Harnett

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: E15448541 thru E15448566

My license renewal date for the state of North Carolina is December 31, 2021.

North Carolina COA: C-0844



February 26,2021

Gilbert, Eric

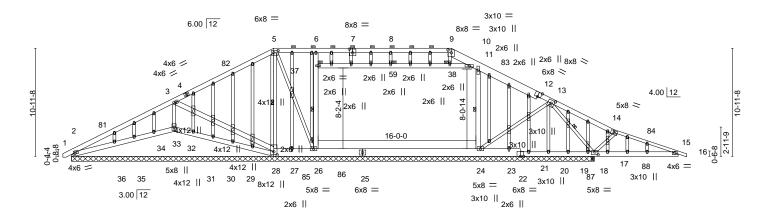
IMPORTANT NOTE: The seal on these truss component designs is a certification that the engineer named is licensed in the jurisdiction(s) identified and that the designs comply with ANSI/TPI 1. These designs are based upon parameters shown (e.g., loads, supports, dimensions, shapes and design codes), which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

Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448541 **GABLE** J0221-0761 A1GE Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:31 2021 Page 1 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-SLAnRzhlbbiQXyeNHmLTJ9jNfDvHLd4vQzVp_dzhKFg 49-4-0 55-10-8 62-4-8 6-6-8 6-6-0

Scale = 1:116.8



-0 ₁ 1Q-	8 21-4-8	53-8-12	62-4-8	63-3-0	
0-10-	8 20-6-0	32-4-4	8-7-12	0-10-8	
Plate Offsets (X,Y)	[2:0-2-9,0-2-0], [5:0-5-4,0-2-12], [7:0	0-4-0,0-4-8], [9:0-4-0,0-3-8], [12:0-4-0,Edge], [13:0-4-0,0-3-12], [17:0-4-0,0-3-8], [28:0-3-12,0-4-0]			

		1,1	1		
LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.53	Vert(LL) -0.14 24-26 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.48	Vert(CT) -0.19 24-26 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.52	Horz(CT) 0.01 17 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.01 2-36 >999 240	Weight: 667 lb FT = 20%

LUMBER-**BRACING-**

TOP CHORD 2x6 SP No.1 *Except* TOP CHORD Structural wood sheathing directly applied or 5-9-10 oc purlins,

39-4-7 38-5-15

9-12: 2x10 SP No.1, 14-16: 2x4 SP No.1 except 2-0-0 oc purlins (6-0-0 max.): 5-9.

BOT CHORD 2x6 SP No.1 *Except*

25-28: 2x10 SP No.1, 22-25: 2x10 SP 2400F 2.0E **BOT CHORD** Rigid ceiling directly applied or 6-0-0 oc bracing.

WEBS 2x4 SP No.2 *Except* **WEBS** 1 Row at midpt 26-37, 11-24, 5-28, 13-17

3-28,6-26,11-24,10-37: 2x6 SP No.1 **JOINTS** 1 Brace at Jt(s): 37, 38, 59 2x4 SP No.2

OTHERS

REACTIONS. All bearings 53-0-0.

Max Horz 2=215(LC 12) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 28, 26, 36, 35 except 2=-126(LC 13), 33=-451(LC 12), 24=-139(LC 13), 17=-994(LC 9), 27=-908(LC 18), 23=-903(LC

18), 18=-613(LC 3)

Max Grav All reactions 250 lb or less at joint(s) 36, 35, 34, 32, 31, 30, 29, 20, 19

except 2=338(LC 24), 33=1127(LC 24), 28=312(LC 18), 26=1678(LC 18)

24=1532(LC 21), 17=2155(LC 25), 17=2148(LC 1), 21=412(LC 18), 18=332(LC 9)

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

TOP CHORD 2-3=-413/233, 3-5=-740/454, 9-10=-851/629, 10-11=-718/545, 11-13=-609/378, 13-14=-1002/1157, 14-15=-963/911, 5-6=-586/519, 6-8=-684/563, 8-9=-688/562

BOT CHORD 2-36=-88/309, 35-36=-67/274, 34-35=-72/292, 33-34=-71/287, 32-33=-72/287,

31-32=-72/289, 30-31=-72/289, 29-30=-72/290, 28-29=-72/287, 27-28=-120/518,

26-27=-117/520, 24-26=-148/568, 23-24=-98/369, 21-23=-111/369, 20-21=-98/369,

19-20=-98/369, 18-19=-98/369, 17-18=-98/369, 15-17=-800/997

WEBS 3-28=-105/302, 26-37=-683/392, 6-37=-621/357, 13-24=-388/506, 3-33=-974/545,

11-24=-679/564, 13-17=-1676/1210, 14-17=-253/217

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 20-6-0, Corner(3) 20-6-0 to 24-9-4 Exterior(2) 24-9-4 to 38-5-15, Corner(3) 38-5-15 to 42-10-12, Exterior(2) 42-10-12 to 62-4-8 zone; cantilever 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) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or



February 26,2021

Continued on page 2
WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 5 Atkins Farm/Harnett
J0221-0761	A1GE	GABLE	1	1	E15448541
J0221-0761	A1GE	GABLE	1	1	Lob Reference (entional)

Comtech, Inc,

Fayetteville, NC - 28314,

Job Reference (optional)
8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:31 2021 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-SLAnRzhlbbiQXyeNHmLTJ9jNfDvHLd4vQzVp_dzhKFg

NOTES-

- 5) Provide adequate drainage to prevent water ponding.
- 6) All plates are 2x4 MT20 unless otherwise indicated.
- 7) Gable studs spaced at 2-0-0 oc.
- 8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 9) * 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.
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 28, 26, 36, 35 except (jt=lb) 2=126, 33=451, 24=139, 17=994, 27=908, 23=903, 18=613.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) Attic room checked for L/360 deflection.

818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448542 J0221-0761 A2 **ROOF TRUSS** 5 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:33 2021 Page 1

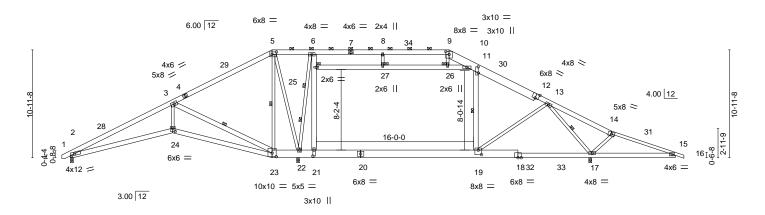
Structural wood sheathing directly applied or 2-7-15 oc purlins,

6-22

3-23, 11-19, 5-23, 13-17

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-PklXsfjZ7Cz8mGnlPBNxOapfT1WkpQ5CuH_v3WzhKFe 55-0-0 6-6-8

Scale = 1:117.1



	10-4-12 10-4-12	20-6-0 10-1-4	23-1-12 25-0-0 2-7-12 1-10-4	41-0-0 16-0-0		52-10-4 11-10-4		6-0 -12
Plate Offsets (X,Y)	[2:0-4-9,0-2-0], [5:0-5-4,0)-3-0], [9:0-4-0,0)-3-8], [11:0-7-6,0-0-0], [1	2:0-4-0,Edge], [19:0-4-0,0)-5-8], [21	1:0-7-4,0-1-8], [23:0-	5-0,0-4-7], [24:0-3-0),0-3-8]
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2015/TF	2-0-0 1.15 1.15 YES PI2014	CSI. TC 0.83 BC 0.74 WB 1.00 Matrix-S	DEFL. in Vert(LL) -0.39 1 Vert(CT) -0.68 1 Horz(CT) 0.28 Wind(LL) 0.11	19-21 : 19-21 : 17	l/defl L/d >909 360 >526 240 n/a n/a >999 240	PLATES MT20 Weight: 537	GRIP 244/190 lb FT = 20%

BOT CHORD

WEBS

JOINTS

except

1 Row at midpt

2 Rows at 1/3 pts

1 Brace at Jt(s): 25, 26, 27

2-0-0 oc purlins (4-3-8 max.): 5-9.

Rigid ceiling directly applied or 6-0-0 oc bracing.

LUMBER-**BRACING-**TOP CHORD

TOP CHORD 2x6 SP No.1 *Except* 9-12: 2x10 SP No.1, 14-16: 2x4 SP No.1

BOT CHORD 2x6 SP No.1 *Except*

20-23,18-20: 2x10 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except*

3-23,6-21,11-19,10-25: 2x6 SP No.1, 6-22: 2x4 SP No.1

REACTIONS. (size) 2=0-3-8, 22=0-3-8, 17=0-3-8 (req. 0-3-10)

Max Horz 2=-141(LC 10)

Max Grav 2=1539(LC 2), 22=1834(LC 26), 17=3048(LC 27)

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

TOP CHORD 2-3=-4831/135, 3-5=-1891/71, 9-10=-2244/74, 10-11=-2284/25, 11-13=-2598/0,

13-14=-862/1146, 14-15=-853/902, 5-6=-1831/53, 6-8=-2169/34, 8-9=-2174/33 BOT CHORD 2-24=0/4346, 23-24=0/4337, 22-23=0/1619, 21-22=0/2177, 19-21=0/2211, 17-19=0/1493,

15-17=-792/858

WEBS 3-23=-3000/310, 6-22=-2612/0, 21-25=0/2105, 6-25=0/2182, 13-19=-93/1108,

3-24=0/2298, 11-19=-259/586, 9-26=0/349, 5-23=-411/213, 5-22=0/1156,

13-17=-3341/507

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-6-0, Exterior(2) 20-6-0 to 24-7-8, Interior(1) 24-7-8 to 38-5-15, Exterior(2) 38-5-15 to 42-10-12, Interior(1) 42-10-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- 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) Ceiling dead load (10.0 psf) on member(s). 10-11, 25-27, 26-27, 10-26; Wall dead load (5.0psf) on member(s).21-25, 11-19
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21
- 9) WARNING: Required bearing size at joint(s) 17 greater than input bearing size.
- 10) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify



February 26,2021

Continued Wing Again parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSITP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 5 Atkins Farm/Harnett
	4.0	5005 751100	_		E15448542
J0221-0761		ROOF TRUSS	5	1	Job Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:33 2021 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-PklXsfjZ7Cz8mGnlPBNxOapfT1WkpQ5CuH_v3WzhKFe

NOTES-

- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

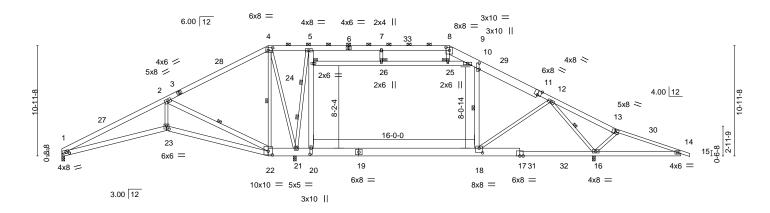
 13) Attic room checked for L/360 deflection.

Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448543 J0221-0761 **ROOF TRUSS** A2A Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:34 2021 Page 1 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-twsw4?kBuW5?OPMxzvuAwoLndRs1YtJL7xkTbyzhKFd 38-5-15 6-9-0 55-0-0 6-6-8

Scale = 1:114.5



	10-4-12	20-6-0	[23-1-12 2 3-0-0]	41-0-0	32-10-4	61-6-0	
	10-4-12	10-1-4	2-7-12 1-10-4	16-0-0	11-10-4	8-7-12	
Plate Offsets (X,Y	[1:0-3-7,0-2-0], [4:0-	5-4,0-3-0], [8:0-4-0	,0-3-8], [10:0-7-6,0-0-0], [11:0-4-0,Edge], [18:0-4-0,0-5-8], [20:0-7-4,0-1-8], [22:0-	-5-0,0-4-7], [23:0-3-0,0-3-8]	
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	I/defl L/d	PLATES GRIP	
TCLL 20.0	Plate Grip DC	L 1.15	TC 1.00	Vert(LL) -0.39 18-20	>909 360	MT20 244/190	
TCDL 10.0	Lumber DOL	1.15	BC 0.73	Vert(CT) -0.68 18-20	>525 240		
BCLL 0.0	Rep Stress In	cr YES	WB 1.00	Horz(CT) 0.28 16	n/a n/a		
BCDL 10.0	Code IRC201	5/TPI2014	Matrix-S	Wind(LL) 0.11 23	>999 240	Weight: 535 lb FT = 20%	

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

Structural wood sheathing directly applied, except

Rigid ceiling directly applied or 6-0-0 oc bracing.

5-21

2-22, 10-18, 4-22, 12-16

ORT

2-0-0 oc purlins (4-3-8 max.): 4-8.

1 Row at midpt

2 Rows at 1/3 pts

1 Brace at Jt(s): 24, 25, 26

22 1 12 25 0 0

LUMBER-TOP CHORD 2x6 SP No 1 *Except*

8-11: 2x10 SP No.1, 13-15: 2x4 SP No.1

10.4.12

BOT CHORD 2x6 SP No.1 *Except*

19-22,17-19: 2x10 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except*

2-22,5-20,10-18,9-24: 2x6 SP No.1, 5-21: 2x4 SP No.1

REACTIONS. (size) 1=0-3-8, 21=0-3-8, 16=0-3-8 (req. 0-3-10)

Max Horz 1=-142(LC 10)

Max Grav 1=1495(LC 2), 21=1835(LC 26), 16=3048(LC 27)

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

 $1\hbox{-}2\hbox{--}4835/154,\ 2\hbox{-}4\hbox{--}1891/71,\ 8\hbox{-}9\hbox{--}2244/73,\ 9\hbox{--}10\hbox{--}2283/23,\ 10\hbox{--}12\hbox{--}2598/0,}$ 12-13=-862/1146, 13-14=-853/902, 4-5=-1831/51, 5-7=-2169/32, 7-8=-2174/31

1-23=-9/4351, 22-23=-7/4342, 21-22=0/1618, 20-21=0/2177, 18-20=0/2211,

BOT CHORD 16-18=0/1493, 14-16=-792/858

2-22=-3007/337, 5-21=-2612/0, 20-24=0/2106, 5-24=0/2182, 12-18=-93/1108,

WEBS 2-23=0/2299, 10-18=-259/586, 8-25=0/349, 4-22=-411/213, 4-21=0/1156,

12-16=-3341/507

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-0, Exterior(2) 20-6-0 to 24-7-8, Interior(1) 24-7-8 to 38-5-15, Exterior(2) 38-5-15 to 42-10-12, Interior(1) 42-10-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- 4) Provide adequate drainage to prevent water ponding.
- 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) Ceiling dead load (10.0 psf) on member(s). 9-10, 24-26, 25-26, 9-25; Wall dead load (5.0psf) on member(s). 20-24, 10-18
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 18-20
- 9) WARNING: Required bearing size at joint(s) 16 greater than input bearing size.
- 10) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify

February 26,2021

Edenton, NC 27932

COMOUNDER ON @ 200 P. George parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 5 Atkins Farm/Harnett
					E15448543
J0221-0761	A2A	ROOF TRUSS	1	1	Job Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:34 2021 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-twsw4?kBuW5?OPMxzvuAwoLndRs1YtJL7xkTbyzhKFd

NOTES-

- 11) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 12) Attic room checked for L/360 deflection.



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448544 **ROOF TRUSS** 3 J0221-0761 A3 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:35 2021 Page 1 Comtech, Inc.

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-L6QIHLkpfqDs0Zx8WcQPT?u0prG9HNEULbT07OzhKFc 38-5-15 6-9-0 41-0-0 2-6-1 55-0-0 6-6-8

Structural wood sheathing directly applied or 4-5-0 oc purlins, except

4-22

2-22, 21-24, 10-19, 12-17

2-0-0 oc purlins (5-9-15 max.): 4-8.

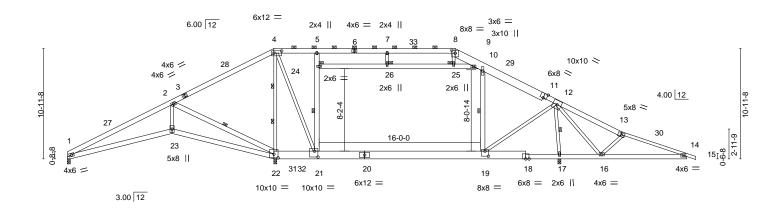
1 Row at midpt

2 Rows at 1/3 pts

1 Brace at Jt(s): 24, 25, 26

Rigid ceiling directly applied or 6-0-0 oc bracing.

Scale = 1:114.4



	L	10-4-12	20-6-0	20-7-12 25-0-0	41-0-0	48-10-4	52-10-4 61-6-0	
		10-4-12	10-1-4	0-1 ^{!!} 12 4-4-4	16-0-0	7-10-4	4-0-0 8-7-12	1
Plate Off	sets (X,Y)	[4:0-9-4,0-2-12], [8:0-4-0,	0-3-8], [11:0-4	-0,Edge], [19:0-4-0,0-6-	0], [21:0-4-0,0-7-0], [22:0-5-0,0-4-7			
LOADING	G (psf)	SPACING-	2-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC 0.71	Vert(LL) -0.32 19-21	>999 360	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC 0.49	Vert(CT) -0.50 19-21	>688 240		
BCLL	0.0 *	Rep Stress Incr	YES	WB 0.83	Horz(CT) 0.13 17	n/a n/a		
BCDL	10.0	Code IRC2015/TF	PI2014	Matrix-S	Wind(LL) 0.06 1-23	>999 240	Weight: 528 lb	FT = 20%

BOT CHORD

WEBS

JOINTS

LUMBER-**BRACING-**TOP CHORD 2x6 SP No.1 *Except* TOP CHORD

8-11: 2x10 SP No.1, 13-15: 2x4 SP No.1

10-4-12 10-4-12

BOT CHORD 2x6 SP No.1 *Except*

20-22,18-20: 2x10 SP 2400F 2.0E, 14-18: 2x6 SP 2400F 2.0E

WEBS 2x4 SP No.2 *Except*

2-22,5-21,10-19,9-24: 2x6 SP No.1

(size) 1=0-3-8, 22=0-3-8, 17=0-3-8 Max Horz 1=-142(LC 10)

Max Grav 1=875(LC 24), 22=2493(LC 2), 17=3015(LC 27)

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

TOP CHORD 1-2=-2249/0, 2-4=-506/93, 8-9=-1370/11, 9-10=-1336/0, 10-12=-1416/0,

12-13=-840/1215, 13-14=-832/976, 4-5=-1201/0, 5-7=-1222/0, 7-8=-1226/0 **BOT CHORD** 1-23=-20/1994, 22-23=-19/1986, 21-22=-26/642, 19-21=0/1221, 17-19=-1226/1170,

16-17=-1293/1186, 14-16=-861/840

2-22=-1992/248, 21-24=-944/229, 5-24=-715/241, 12-19=-462/2641, 2-23=0/1165,

WEBS 10-19=-907/518, 8-25=0/350, 12-16=-441/446, 4-22=-2340/44, 4-21=0/2425,

12-17=-3102/791

NOTES-

REACTIONS.

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-0, Exterior(2) 20-6-0 to 24-9-4, Interior(1) 24-9-4 to 38-5-15, Exterior(2) 38-5-15 to 42-10-12, Interior(1) 42-10-12 to 62-4-8 zone; cantilever right exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
- Provide adequate drainage to prevent water ponding.
- 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) Ceiling dead load (10.0 psf) on member(s). 9-10, 24-26, 25-26, 9-25; Wall dead load (5.0psf) on member(s).21-24, 10-19
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 19-21
- 9) Bearing at joint(s) 1 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

Communed on page 2 design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building ocomponent, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Edenton, NC 27932

February 26,2021

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 5 Atkins Farm/Harnett
	4.0	5005 751100			E15448544
J0221-0761	A3	ROOF TRUSS	3	1	Job Reference (optional)

Comtech, Inc,

Fayetteville, NC - 28314,

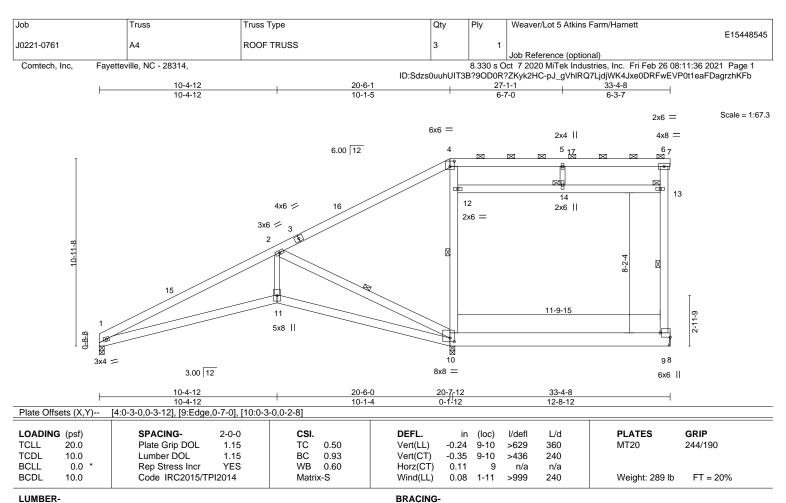
8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:35 2021 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-L6QIHLkpfqDs0Zx8WcQPT?u0prG9HNEULbT07OzhKFc

NOTES-

11) Attic room checked for L/360 deflection.



818 Soundside Road Edenton, NC 27932



BOT CHORD

WEBS

JOINTS

LUMBER-TOP CHORD

2x6 SP No 1

BOT CHORD 2x6 SP No.1 *Except*

8-10: 2x10 SP No.1 **WEBS** 2x6 SP No.1 *Except*

2-11,5-14: 2x4 SP No.2

REACTIONS. (size) 9=Mechanical, 1=0-3-8, 10=0-3-8

Max Horz 1=343(LC 12)

Max Grav 9=1093(LC 2), 1=809(LC 1), 10=1861(LC 2)

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

TOP CHORD 1-2=-1961/301, 2-4=-333/203, 9-13=-523/107, 6-13=-371/100

BOT CHORD 1-11=-935/1730, 10-11=-933/1720

WEBS 2-11=-328/1031, 2-10=-1810/826, 10-12=-836/436, 4-12=-589/425

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) Ceiling dead load (10.0 psf) on member(s). 12-14, 13-14; Wall dead load (5.0psf) on member(s).10-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-10
- 7) Refer to girder(s) for truss to truss connections.
- 8) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Attic room checked for L/360 deflection.



Structural wood sheathing directly applied or 4-7-12 oc purlins,

9-13, 2-10, 10-12

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

1 Brace at Jt(s): 6, 13, 14

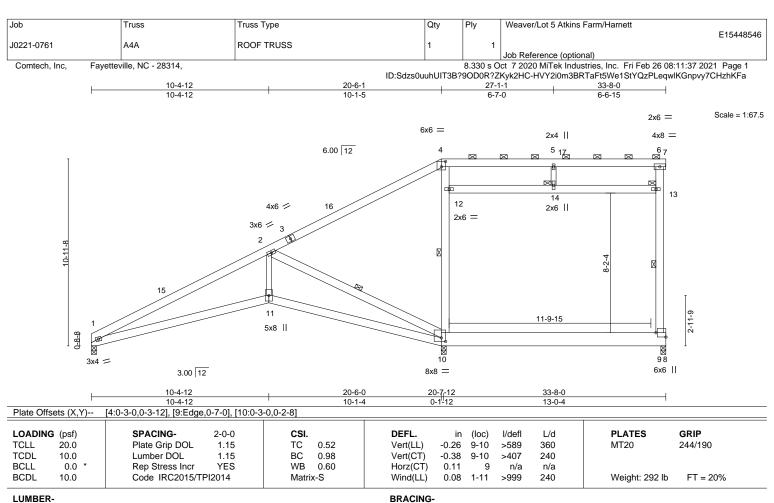
February 26,2021

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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





BOT CHORD

WEBS

JOINTS

LUMBER-

TOP CHORD 2x6 SP No 1

BOT CHORD 2x6 SP No.1 *Except* 8-10: 2x10 SP No.1

WEBS 2x6 SP No.1 *Except*

2-11,5-14: 2x4 SP No.2

REACTIONS. (size) 9=0-3-8, 1=0-3-8, 10=0-3-8

Max Horz 1=343(LC 12)

Max Grav 9=1120(LC 2), 1=811(LC 1), 10=1883(LC 2)

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

TOP CHORD 1-2=-1965/303, 2-4=-332/200, 9-13=-536/110, 6-13=-382/106

BOT CHORD 1-11=-936/1733. 10-11=-935/1723

WEBS $2-11=-329/1032,\ 2-10=-1808/827,\ 10-12=-846/437,\ 4-12=-594/425$

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-12 to 4-6-9, Interior(1) 4-6-9 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) Ceiling dead load (10.0 psf) on member(s). 12-14, 13-14; Wall dead load (5.0psf) on member(s).10-12
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 9-10
- 7) Bearing at joint(s) 1, 10 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Attic room checked for L/360 deflection.



Structural wood sheathing directly applied or 4-7-7 oc purlins,

9-13, 2-10, 10-12

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 4-7.

Rigid ceiling directly applied or 2-2-0 oc bracing.

1 Row at midpt

1 Brace at Jt(s): 6, 13, 14

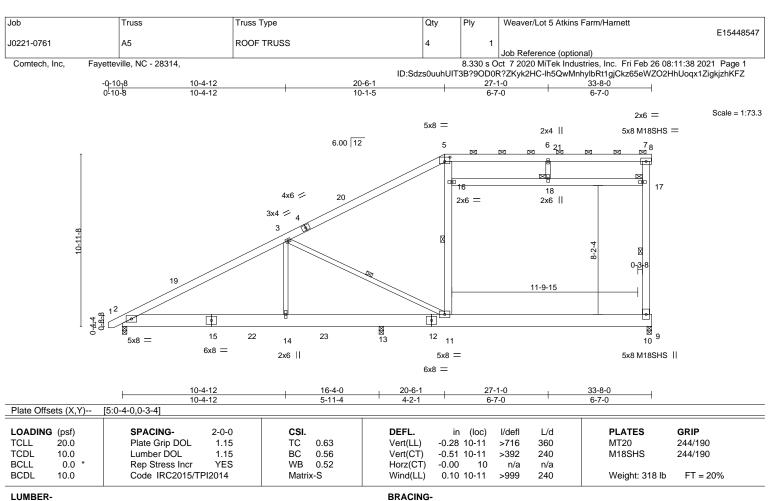
February 26,2021

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BOT CHORD

WEBS

JOINTS

LUMBER-

TOP CHORD 2x6 SP No.1

BOT CHORD 2x10 SP 2400F 2.0E *Except*

2-15: 2x10 SP No.1 **WEBS** 2x6 SP No.1 *Except*

3-14,3-11,6-18: 2x4 SP No.2

REACTIONS. (size) 10=0-3-8, 2=0-3-8, 13=0-3-8

Max Horz 2=345(LC 12) Max Uplift 2=-37(LC 12)

Max Grav 10=1272(LC 2), 2=621(LC 1), 13=2136(LC 2)

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

TOP CHORD 2-3=-417/184, 3-5=-308/138, 10-17=-559/113, 7-17=-413/111 **BOT CHORD**

2-14=-422/308, 13-14=-422/308, 11-13=-422/308 WEBS 3-14=-585/188, 3-11=-157/312, 11-16=-779/421, 5-16=-534/411

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Provide adequate drainage to prevent water ponding.
- 3) 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) Ceiling dead load (10.0 psf) on member(s). 16-18, 17-18; Wall dead load (5.0psf) on member(s).11-16
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-11
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 11) Attic room checked for L/360 deflection.



Structural wood sheathing directly applied or 6-0-0 oc purlins,

10-17, 3-11, 11-16

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8.

Rigid ceiling directly applied or 6-0-0 oc bracing.

1 Row at midpt

1 Brace at Jt(s): 7, 17, 18

February 26,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
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ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448548 J0221-0761 **ROOF TRUSS** 2 A5A 2 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:39 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-Dufp7inJj2jHUBFvISULdr3l6ScVDGX4GDREG9zhKFY 20-6-1 33-4-8 10-4-12 10-4-12 10-1-5 6-3-7 Scale = 1:69.9 2x6 = 6x6 = 2x4 || 5x8 M18SHS II 6.00 12 17 18 4x6 / 20 2x6 = 2x6 || 3x4 / 11-9-15 ₩ 13 15 22 23 12 10 ⁹ 5x8 = 14 11 6x6 || 6x8 = 2x6 || 5x8 = 20-6-6x8 16-5-12 6-1-0 10-4-12 6-7-0 6-3-7 Plate Offsets (X,Y)--[10:0-3-0,0-0-0] LOADING (psf) SPACING-3-6-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.57 Vert(LL) -0.23 10-11 >852 360 MT20 244/190

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

JOINTS

-0.43 10-11

0.08 10-11

10

-0.00

>466

>999

n/a

240

n/a

240

(Switched from sheeted: Spacing > 2-8-0).

1 Brace at Jt(s): 5, 7, 16, 17, 18

2-0-0 oc purlins (6-0-0 max.), except end verticals

Rigid ceiling directly applied or 6-0-0 oc bracing.

LUMBER-

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No 1

10.0

0.0

10.0

BOT CHORD 2x10 SP 2400F 2.0E *Except*

2-15: 2x10 SP No.1

WEBS 2x6 SP No.1 *Except*

3-14,3-11,6-18: 2x4 SP No.2

REACTIONS. (size) 10=Mechanical, 2=0-3-8, 13=0-3-8

Lumber DOL

Rep Stress Incr

Code IRC2015/TPI2014

Max Horz 2=603(LC 12) Max Uplift 2=-62(LC 12)

Max Grav 10=2189(LC 2), 2=1093(LC 1), 13=3674(LC 2)

1.15

NO

BC

WB

Matrix-S

0.52

0.43

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

2-3=-753/301, 3-5=-540/247, 5-6=-349/23, 6-7=-348/23, 10-17=-956/193, 7-17=-706/184

BOT CHORD 2-14=-735/559, 13-14=-735/559, 11-13=-735/559, 10-11=-279/346 **WEBS**

 $3-14=-978/333,\ 3-11=-308/537,\ 11-16=-1346/735,\ 5-16=-927/719,\ 16-18=-209/281,$

17-18=-209/281, 6-18=-69/267

NOTES-

1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc. Webs connected as follows: 2x4 - 1 row at 0-9-0 oc, 2x6 - 2 rows staggered at 0-9-0 oc.

2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.

3) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 20-6-1, Exterior(2) 20-6-1 to 26-8-11, Interior(1) 26-8-11 to 33-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

- 4) Provide adequate drainage to prevent water ponding.
- 5) All plates are MT20 plates unless otherwise indicated.
- 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, with BCDL = 10.0psf.
- 8) Ceiling dead load (10.0 psf) on member(s). 16-18, 17-18; Wall dead load (5.0psf) on member(s).11-16
- 9) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-11
- 10) Refer to girder(s) for truss to truss connections.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2.
- 12) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 13) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

February 26,2021



Edenton, NC 27932

M18SHS

Weight: 631 lb

244/190

FT = 20%

Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448549 **GABLE** J0221-0761 A5GE Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:40 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-i4DBK2oyUMr86Kq5J9?aA3bvHs?_yi?EVtBnpczhKFX -0-10₇8 0-10-8 21-4-9 34-3-0 12-10-7 20-6-1 Scale = 1:74.1 6x6 = 2x4 5x8 || 2x4 || 2x4 || 2x4 || 2x4 || 6.00 12 5 6 78 2x4 || 2x4 || 2x4 || 2x4 || 46 23 4x6 / 3x4 // 2x4 || 3 2x4 || 2x4 | 2x4 || ₄₅ 3x6 3x6 11-9-15 346 47¹⁶ 5x8 = 21 14 13 9 19 11 5x8 = 4x12 | 6x8 = 6x8 = 21-4-9 0-10-8 4-0-5 12-10-7 Plate Offsets (X,Y)-- [5:0-3-4,0-3-8], [7:0-4-4,0-1-8]

LOADIN	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.60	Vert(LL)	-0.00	1	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.38	Vert(CT)	0.00	1	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.48	Horz(CT)	-0.01	8	n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-S						Weight: 378 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

WEBS

JOINTS

LUMBER-TOP CHORD 2x6 SP No 1

BOT CHORD 2x10 SP No.1

WFBS 2x6 SP No.1 *Except*

3-16,3-10,6-24: 2x4 SP No.2 **OTHERS** 2x4 SP No.2

> All bearings 33-4-8. Max Horz 2=496(LC 12) Max Uplift All uplift 100 lb or less at joint(s) 10, 14, 20 except 8=-1059(LC 1), 9=-455(LC 8), 16=-338(LC 12),

21=-207(LC 12), 12=-952(LC 18) Max Grav All reactions 250 lb or less at joint(s) 2, 14, 15, 17, 18, 20 except 8=347(LC 8), 9=1708(LC 1), 16=613(LC 20), 10=1859(LC 2), 13=316(LC 18), 21=379(LC 1)

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

TOP CHORD 2-3=-494/220, 3-5=-384/209, 9-23=-1601/842, 7-23=-1462/842

BOT CHORD 2-21=-385/267, 20-21=-385/267, 18-20=-385/267, 17-18=-385/267, 16-17=-385/267, 15-16=-385/267, 14-15=-385/267, 13-14=-385/267, 12-13=-385/267, 10-12=-385/267

WEBS 3-16=-562/424, 10-22=-815/603, 5-22=-586/595

NOTES-

REACTIONS.

(lb) -

- 1) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-Č Corner(3) -0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 20-6-1, Corner(3) 20-6-1 to 24-10-13, Exterior(2) 24-10-13 to 33-4-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 3) Provide adequate drainage to prevent water ponding.
- 4) All plates are 2x6 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Ceiling dead load (10.0 psf) on member(s). 22-24, 23-24; Wall dead load (5.0psf) on member(s).10-22
- 10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10, 14, 20 except (jt=lb) 8=1059, 9=455, 16=338, 21=207, 12=952.
- 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
- 12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 13) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward

February 26,2021



Edenton, NC 27932

Structural wood sheathing directly applied or 6-0-0 oc purlins,

9-23, 3-10, 10-22

ORTH CAROL

except end verticals, and 2-0-0 oc purlins (6-0-0 max.): 5-8.

Rigid ceiling directly applied or 10-0-0 oc bracing

1 Row at midpt

1 Brace at Jt(s): 23, 24

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

Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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

available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601

Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 5 Atkins Farm/Harnett
					E15448549
J0221-0761	A5GE	GABLE	1	1	
					Joh Reference (ontional)

Comtech, Inc,

Fayetteville, NC - 28314,

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:40 2021 Page 2 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-i4DBK2oyUMr86Kq5J9?aA3bvHs?_yi?EVtBnpczhKFX

NOTES-

14) Attic room checked for L/360 deflection.



818 Soundside Road Edenton, NC 27932

Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448550 PIGGYBACK ATTIC J0221-0761 В1 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:41 2021 Page 1 ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-AGnZYOpaFgz?kUPIttWpjG87CFGkhARNkXwKL2zhKFW

5-0-12 17-6-4 22-7-0 5-0-12 12-5-8 5-0-12

Scale = 1:81.6

Structural wood sheathing directly applied or 5-5-3 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

6x8 =

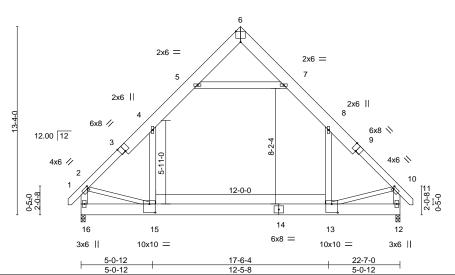


Plate Offsets (X,Y)-- [2:0-1-0,0-2-0], [3:0-4-0,Edge], [6:0-4-0,Edge], [9:0-4-0,Edge], [10:0-1-0,0-2-0], [13:0-5-0,0-7-4], [15:0-5-0,0-7-4]

LOADING	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.40	Vert(LL) -0.16 13-15 >999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.67	Vert(CT) -0.26 13-15 >999 240	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.40	Horz(CT) 0.01 12 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 13-15 >999 240	Weight: 268 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x10 SP No 1 *Except* 1-3,9-11: 2x6 SP No.1

BOT CHORD 2x10 SP No.1

WEBS 2x6 SP No.1 *Except*

2-15,10-13: 2x4 SP No.2

REACTIONS. (size) 16=0-3-8, 12=0-3-8

Max Horz 16=-339(LC 10)

Max Grav 16=1534(LC 21), 12=1534(LC 20)

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

TOP CHORD 2-4=-1750/0, 4-5=-1096/188, 7-8=-1096/188, 8-10=-1749/0, 2-16=-1719/46,

10-12=-1720/46

BOT CHORD 15-16=-328/473, 13-15=0/1137

WEBS 4-15=0/828, 8-13=0/828, 5-7=-1268/253, 2-15=0/1031, 10-13=0/1036

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Corner(3) -0-9-2 to 3-7-11, Exterior(2) 3-7-11 to 11-4-0, Corner(3) 11-4-0 to 15-8-13, Exterior(2) 15-8-13 to 23-5-2 zone; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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) Ceiling dead load (10.0 psf) on member(s). 4-5, 7-8, 5-7; Wall dead load (5.0psf) on member(s).4-15, 8-13
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 7) Attic room checked for L/360 deflection.



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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 **ANSVTP11 Quality Criteria, DSB-89 and BCSI Building Component Safety Information** available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 5 Atkins Farm/Harnett
	DO.	DIO 01/D 4 01/ 4 7 7 10			E15448551
J0221-0761	B2	PIGGYBACK ATTIC	8	1	Job Reference (optional)

Comtech, Inc, Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:42 2021 Page 1

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-eTLxlkqC0z5sMezURa22FUhlSfcvQdZWyBgutUzhKFV 22-7-0 12-5-8 5-0-12

> Scale = 1:81.6 6x8 =

> > Structural wood sheathing directly applied or 5-4-4 oc purlins,

Rigid ceiling directly applied or 10-0-0 oc bracing.

except end verticals.

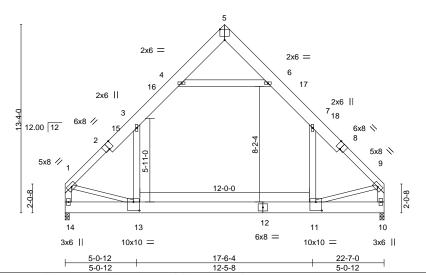


Plate Offsets (X,Y)-- [2:0-4-0,Edge], [5:0-4-0,Edge], [8:0-4-0,Edge], [11:0-5-0,0-7-4], [13:0-5-0,0-7-4]

LOADIN	G (psf)	SPACING- 2-0	0-0	CSI.		DEFL.	in (loc)	I/defI	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.	.15	TC	0.43	Vert(LL)	-0.16 11-13	>999	360	MT20	244/190
TCDL	10.0	Lumber DOL 1.	.15	BC	0.67	Vert(CT)	-0.26 11-13	>999	240		
BCLL	0.0 *	Rep Stress Incr Y	ES	WB	0.41	Horz(CT)	0.01 10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI201	4	Matri	x-S	Wind(LL)	0.05 11-13	>999	240	Weight: 263 lb	FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x10 SP No.1 *Except* 1-2,8-9: 2x6 SP No.1

BOT CHORD 2x10 SP No.1

WEBS 2x6 SP No.1 *Except* 1-13,9-11: 2x4 SP No.2

REACTIONS. (size) 14=0-3-8, 10=0-3-8

Max Horz 14=260(LC 9)

Max Grav 14=1493(LC 21), 10=1493(LC 20)

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

TOP CHORD $1-3 = -1744/0, \ 3-4 = -1099/150, \ 6-7 = -1099/150, \ 7-9 = -1743/0, \ 1-14 = -1678/0, \ 9-10 = -1679/0$

BOT CHORD 13-14=-286/376. 11-13=0/1123

WEBS 3-13=0/807, 7-11=0/807, 4-6=-1292/180, 1-13=0/1078, 9-11=0/1081

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 11-4-0, Exterior(2) 11-4-0 to 15-8-13, Interior(1) 15-8-13 to 22-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-13, 7-11
- 6) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 7) Attic room checked for L/360 deflection.





Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448552 J0221-0761 ВЗ PIGGYBACK ATTIC 2 Job Reference (optional)

Fayetteville, NC - 28314, Comtech, Inc.

8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:44 2021 Page 1

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-arThAQrSXbLaby7sY?4WKvmcsTHKuaapQV9?yNzhKFT 17-6-4 22-7-0 12-5-8 5-0-12

> Scale = 1:81.6 6x8 =

> > 2-0-0 oc purlins (6-0-0 max.), except end verticals

(Switched from sheeted: Spacing > 2-8-0).

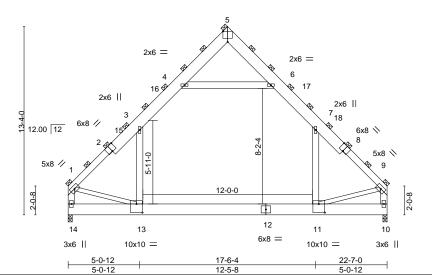


Plate Offsets (X,Y)-- [2:0-4-0,Edge], [5:0-4-0,Edge], [8:0-4-0,Edge], [11:0-5-0,0-7-4], [13:0-5-0,0-7-4]

LOADIN	G (psf)	SPACING- 4-0-0	CSI.	DEFL. in (loc)	l/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.50	Vert(LL) -0.16 11-13	>999 360	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.74	Vert(CT) -0.26 11-13	>999 240	
BCLL	0.0 *	Rep Stress Incr NO	WB 0.25	Horz(CT) 0.01 10	n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S	Wind(LL) 0.05 11-13	>999 240	Weight: 526 lb FT = 20%

BRACING-

TOP CHORD

BOT CHORD

LUMBER-TOP CHORD

2x10 SP No 1 *Except* 1-2,8-9: 2x6 SP No.1

BOT CHORD 2x10 SP No.1

WEBS 2x6 SP No.1 *Except* 1-13,9-11: 2x4 SP No.2

REACTIONS. (size) 14=0-3-8, 10=0-3-8

Max Horz 14=520(LC 9)

Max Grav 14=2986(LC 21), 10=2986(LC 20)

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

TOP CHORD 1-3=-3487/0, 3-4=-2199/300, 4-5=-180/451, 5-6=-180/451, 6-7=-2199/300, 7-9=-3487/0,

1-14=-3357/0. 9-10=-3358/0

BOT CHORD 13-14=-573/751, 11-13=0/2247, 10-11=-102/329

WEBS 3-13=0/1614, 7-11=0/1614, 4-6=-2584/361, 1-13=0/2155, 9-11=0/2162

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
 - Top chords connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x10 2 rows staggered at 0-9-0 oc.

Bottom chords connected as follows: 2x10 - 2 rows staggered at 0-9-0 oc.

- Webs connected as follows: 2x6 2 rows staggered at 0-9-0 oc, 2x4 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-4 to 4-8-1, Interior(1) 4-8-1 to 11-4-0, Exterior(2) 11-4-0 to 15-8-13, Interior(1) 15-8-13 to 22-4-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 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.
- 7) Ceiling dead load (10.0 psf) on member(s). 3-4, 6-7, 4-6; Wall dead load (5.0psf) on member(s).3-13, 7-11
- 8) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 11-13
- 9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 10) Attic room checked for L/360 deflection.



February 26,2021



Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448553 J0221-0761 G1 COMMON 6 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:45 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-2114Ols4IuTRD6i36iblt6JsPthed15ze9uYUpzhKFS

16-2-13

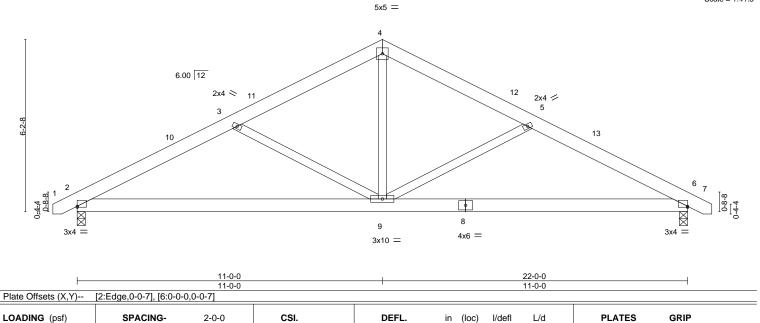
11-0-0

5-2-13

Scale = 1:41.5

22-10-8 0-10-8

5-9-3



Vert(LL)

Vert(CT)

Horz(CT)

Wind(LL)

BRACING-

TOP CHORD

BOT CHORD

-0.07

-0.15

0.02

0.02

6-9

6-9

6

9 >999

>999

>999

n/a

360

240

n/a

240

MT20

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Weight: 139 lb

244/190

FT = 20%

LUMBER-

TCLL

TCDL

BCLL

BCDL

TOP CHORD 2x6 SP No 1 BOT CHORD 2x6 SP No.1 2x4 SP No.2 WFBS

20.0

10.0

0.0

10.0

0-10-8 0-10-8

REACTIONS.

(size) 6=0-3-8, 2=0-3-8 Max Horz 2=-76(LC 10)

Max Uplift 6=-64(LC 13), 2=-64(LC 12) Max Grav 6=920(LC 1), 2=920(LC 1)

Plate Grip DOL

Rep Stress Incr

Code IRC2015/TPI2014

Lumber DOL

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

2-3=-1389/378, 3-4=-1062/288, 4-5=-1062/288, 5-6=-1389/378 TOP CHORD

BOT CHORD 2-9=-252/1174. 6-9=-256/1174

WFBS 3-9=-359/240, 4-9=-73/616, 5-9=-359/240

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 11-0-0, Exterior(2) 11-0-0 to 15-4-13, Interior(1) 15-4-13 to 22-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

TC

BC

WB

Matrix-S

0.13

0.41

0.23

3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

1.15

1.15

YES

- 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) 6, 2.
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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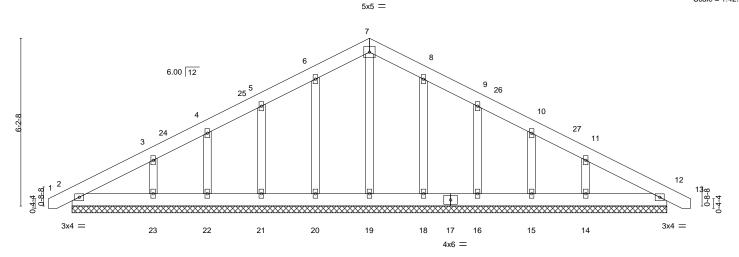


Job	Truss	Truss Type	Qty	Ply	Weaver/Lot 5 Atkins Farm/Harnett	
						E15448554
J0221-0761	G1GE	GABLE	1	1		
					Job Reference (optional)	
Comtech, Inc, Fayettey	rille, NC - 28314,			8.330 s O	ct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:46 2021	Page 1

Comtech, Inc. Fayetteville, NC - 28314,

ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-WEaSb5ti3CblqFHFgQ6_QKr3eG7wMX?6tpe50FzhKFR 11-10-8 22-10-8 23-9-0 0-10-8 11-0-0 11-0-0

Scale = 1:42.6



	0-10-8 0-10-8					22-10-8 22-0-0						23-9-0 0-10-8
LOADING	G (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	I/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL	1.15	TC	0.03	Vert(LL)	0.00	12	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	0.00	12	n/r	120		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	12	n/a	n/a		
BCDL	10.0	Code IRC2015/Ti	PI2014	Matri	x-S	, ,					Weight: 155 lb	FT = 20%

LUMBER-**BRACING-**

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

REACTIONS. All bearings 22-0-0.

0-10-8 0-10-8

Max Horz 2=-119(LC 17) (lb) -

Max Uplift All uplift 100 lb or less at joint(s) 12, 2, 20, 21, 22, 18, 16, 15 except 23=-113(LC 12),

14=-110(LC 13)

Max Grav All reactions 250 lb or less at joint(s) 12, 2, 19, 20, 21, 22, 23, 18, 16, 15, 14

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 11-0-0, Corner(3) 11-0-0 to 15-4-13, Exterior(2) 15-4-13 to 22-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12, 2, 20, 21, 22, 18, 16, 15 except (jt=lb) 23=113, 14=110.
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 26,2021



J0221-0761 P1 COMMON 4 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:46 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-WEaSb5ti3CblqFHFgQ6_QKr?eG4cMVp6tpe50FzhKFR -0-10-8 0-10-8 8-0-0 16-0-0 16-10-8 8-0-0 0-10-8 Scale = 1:31.3 5x5 = 3 6.00 12 6 4x6 2x4 || 8-0-0 16-0-0 8-0-0 8-0-0 Plate Offsets (X,Y)--[2:0-0-4,0-0-11], [4:0-0-4,0-0-11] LOADING (psf) SPACING-CSI. DEFL. (loc) I/defI L/d **PLATES GRIP TCLL** 20.0 Plate Grip DOL 1.15 TC 0.29 Vert(LL) 0.06 4-6 >999 240 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.24 Vert(CT) -0.05 2-6 >999 240 WB 0.13 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.01 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 90 lb FT = 20% BRACING-

TOP CHORD

BOT CHORD

Qty

Ply

Weaver/Lot 5 Atkins Farm/Harnett

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 9-6-0 oc bracing.

E15448555

LUMBER-

Job

Truss

Truss Type

TOP CHORD 2x6 SP No 1 BOT CHORD 2x6 SP No.1

WFBS 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 4=0-3-8 Max Horz 2=-57(LC 10)

Max Uplift 2=-142(LC 9), 4=-142(LC 8)

Max Grav 2=680(LC 1), 4=680(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-873/842 3-4=-873/840

BOT CHORD 2-6=-615/675, 4-6=-615/675

WFBS 3-6=-478/381

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-8-10 to 3-8-3, Interior(1) 3-8-3 to 8-0-0, Exterior(2) 8-0-0 to 12-4-13, Interior(1) 12-4-13 to 16-8-10 zone; porch left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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)
- 6) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building



February 26,2021

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Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448556 J0221-0761 P1GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:47 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-_Q8qoRuLqWj9SPsRD7dDyXOAOgQr5zqF6TNfYizhKFQ 16-10-8 -0-10-8 0-10-8 8-0-0 8-0-0 16-0-0

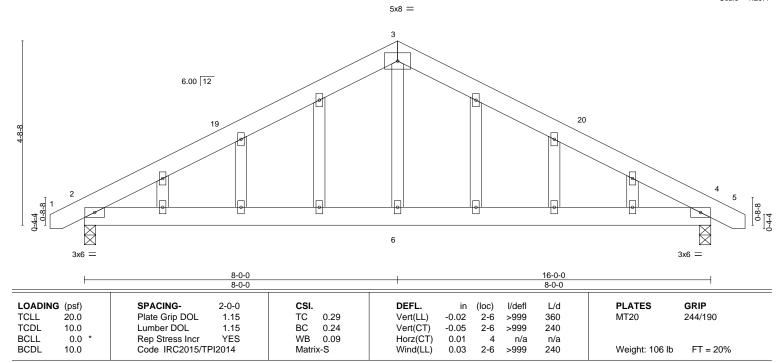
8-0-0

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

Scale = 1:29.4

0-10-8



BRACING-TOP CHORD

BOT CHORD

LUMBER-

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

REACTIONS.

(size) 2=0-3-8, 4=0-3-8 Max Horz 2=-88(LC 17)

Max Uplift 2=-153(LC 12), 4=-153(LC 13) Max Grav 2=680(LC 1), 4=680(LC 1)

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

TOP CHORD 2-3=-873/474 3-4=-873/471 **BOT CHORD** 2-6=-228/675, 4-6=-228/675

WFBS 3-6=0/381

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3) -0-8-10 to 3-8-3, Exterior(2) 3-8-3 to 8-0-0, Corner(3) 8-0-0 to 12-4-13, Exterior(2) 12-4-13 to 16-8-10 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable 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) except (jt=lb) 2=153, 4=153,
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 26,2021

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



Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:48 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-TciC0nuzbpr04ZRenr9SVlxLn4mgqQ2PL77C58zhKFP 8-11-15 17-11-15 8-11-15 9-0-0 Scale = 1:30.8 4x6 =6.00 12 13 0-9-1 2x4 || 2x4 || 3 0-1-10 3x4 =3x4 =11 10 8 2x4 | 2x4 || 3x4 = 2x4 || 17-11-15 Plate Offsets (X,Y)--[5:0-0-0,0-0-0] LOADING (psf) SPACING-2-0-0 CSI. DEFL. (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.31 Vert(LL) -0.00 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 BC 0.20 Vert(CT) -0.00 120 n/r WB 0.09 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 62 lb FT = 20% LUMBER-**BRACING-**TOP CHORD 2x4 SP No 1 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins.

BOT CHORD

Qty

9

Ply

Weaver/Lot 5 Atkins Farm/Harnett

Rigid ceiling directly applied or 10-0-0 oc bracing.

E15448557

REACTIONS. All bearings 16-0-12.

2x4 SP No.1

2x4 SP No.2

(lb) -Max Horz 2=56(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 11=-105(LC 12), 8=-105(LC 13)

Truss Type

PIGGYBACK

Max Grav All reactions 250 lb or less at joint(s) 2, 6 except 10=428(LC 1), 11=440(LC 23), 8=440(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. **WEBS** 4-10=-298/101, 3-11=-356/260, 5-8=-356/263

NOTES-

BOT CHORD

OTHERS

Job

J0221-0761

Truss

PB1

1) Unbalanced roof live loads have been considered for this design.

- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 8-11-15, Exterior(2) 8-11-15 to 13-4-12, Interior(1) 13-4-12 to 17-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) 2, 6 except (jt=lb) 11=105, 8=105.
- Non Standard bearing condition. Review required.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448558 J0221-0761 PB1GE **GABLE** Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:51 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-tBOLepxrukEax19DSzi96NZwNHq61ohr14LsiTzhKFM 8-11-15 17-11-15 8-11-15 9-0-0 Scale = 1:30.8 4x4 =6 6.00 12 8 20 1-4-6 19 0-9-1 3 10 0-1-10 3x4 =3x4 =18 17 16 15 14 13 12 5x5 =

Plate Offsets (X,Y) [14:0-2-8,0-3-0]									
LOADING	(psf)	SPACING- 2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL)	0.00 10	n/r	120	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.02	Vert(CT)	0.00 10	n/r	120		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.03	Horz(CT)	0.00 10	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-S					Weight: 76 lb	FT = 20%

17-11-15

LUMBER-BOT CHORD

OTHERS

TOP CHORD 2x4 SP No 1 2x4 SP No.1 2x4 SP No.2 **BRACING-**

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 16-0-13.

(lb) -Max Horz 2=88(LC 16)

Max Uplift All uplift 100 lb or less at joint(s) 2, 16, 17, 10, 18, 14, 13, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 15, 16, 17, 10, 18, 14, 13, 12

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

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) 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) 0-3-15 to 4-11-15, Interior(1) 4-11-15 to 8-11-15, Exterior(2) 8-11-15 to 13-4-12, Interior(1) 13-4-12 to 17-8-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 16, 17, 10, 18,
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 26,2021

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Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448559 PB2 3 J0221-0761 **PIGGYBACK** Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:52 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-LOyjs9xTf2MRYAkP0hDOfb51ih8EmE7?Gk5QEvzhKFL , 12-10-7 8-11-15 3-10-8 Scale = 1:28.0 4x4 = 4 6.00 12 2x4 || 2x4 || 3 P 0-1-10 0-1-10 8 6 3x4 = 2x4 || 2x4 || 2x4 || 12-10-7 12-10-7 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.16 Vert(CT) -0.00 n/r 120 WB 0.08 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 49 lb FT = 20%

LUMBER-

OTHERS

BRACING-

TOP CHORD 2x4 SP No.1 BOT CHORD 2x4 SP No.1 2x4 SP No.2 WFBS

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

2x4 SP No.2 REACTIONS. All bearings 11-10-14.

(lb) -Max Horz 2=102(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-103(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=387(LC 1), 8=447(LC 23)

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

NOTES-

4-7=-277/173, 3-8=-356/285

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 8-11-15, Exterior(2) 8-11-15 to 12-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except (it=lb) 8=103.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



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Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448560 PB3 5 J0221-0761 **PIGGYBACK** Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:53 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-paV53Vy5QMUIAKJbaOkdCoeCS5URVhN8UOqzmMzhKFK 8-<u>11-15</u> 13-1-15 8-11-15 4-2-0 Scale = 1:28.2 4x4 = 6.00 12 2x4 || 2x4 || 3 0-1-10 0-1-10 8 7 6 3x4 = 2x4 || 2x4 || 2x4 || 13-1-15 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.32 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.16 Vert(CT) -0.00 n/r 120 WB 0.08 **BCLL** 0.0 Rep Stress Incr YES Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 50 lb FT = 20%

LUMBER-TOP CHORD BOT CHORD **BRACING-**

TOP CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

2x4 SP No.2 WFBS **OTHERS** 2x4 SP No.2

BOT CHORD

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 12-2-6.

2x4 SP No.1

2x4 SP No.1

(lb) -Max Horz 2=99(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-104(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=390(LC 1), 8=447(LC 23)

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

4-7=-279/166, 3-8=-356/282

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-15 to 4-8-11, Interior(1) 4-8-11 to 8-11-15, Exterior(2) 8-11-15 to 12-10-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Gable requires continuous bottom chord bearing.
- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2, 7 except (it=lb) 8=104.
- 7) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 26,2021



Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448561 J0221-0761 PB4 **PIGGYBACK** 2 2 Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:55 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-mzdsUA_Myzk0PeT_hpn5HDjbtvB9zckRyiJ4rEzhKFI 12-10-7 8-11-15 3-10-8 Scale = 1:28.0 5x5 = 4 6.00 12 2x4 | 5 10 2x4 || 0-1-10 0-1-10 8 6 3x4 = 2x4 || 2x4 | 2x4 || 12-10-7 12-10-7 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.07 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL Lumber DOL 1.15 вс 0.08 Vert(CT) -0.00 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.03 Horz(CT) 0.00 6 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 121 lb FT = 20%

LUMBER-

OTHERS

BRACING-

TOP CHORD 2x6 SP No.1 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 WFBS

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-6-7

(lb) -Max Horz 2=99(LC 12)

2x4 SP No.2

Max Uplift All uplift 100 lb or less at joint(s) 6, 2, 7 except 8=-111(LC 12)

Max Grav All reactions 250 lb or less at joint(s) 6, 2 except 7=391(LC 1), 8=455(LC 23)

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

4-7=-282/182, 3-8=-349/301 **WEBS**

NOTES-

- 1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows: Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc, 2x4 - 1 row at 0-9-0 oc. Bottom chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
- 2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
- 3) Unbalanced roof live loads have been considered for this design.
- 4) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-6-2 to 4-10-15, Interior(1) 4-10-15 to 8-11-15, Exterior(2) 8-11-15 to 12-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 5) Gable requires continuous bottom chord bearing.
- 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) 6, 2, 7 except
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



February 26,2021



Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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



Job Truss Truss Type Qty Ply Weaver/Lot 5 Atkins Farm/Harnett E15448562 **GABLE** J0221-0761 PB4GE Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:11:57 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-iLlcvs?cTa_kfydMpEpZMeoyoiuVRV8kP0oBv7zhKFG 12-10-7 8-11-15 8-11-15 3-10-8 Scale = 1:26.6 4x4 = 6 6.00 12 15 ø 0-1-10 0-1-10 9 14 13 12 11 10 3x4 = 12-10-7 12-10-7 LOADING (psf) SPACING-2-0-0 CSI. **DEFL** in (loc) I/defI L/d **PLATES** GRIP **TCLL** 20.0 Plate Grip DOL 1.15 TC 0.04 Vert(LL) 0.00 n/r 120 MT20 244/190 TCDL 10.0 Lumber DOL 1.15 вс 0.02 Vert(CT) 0.00 n/r 120 WB **BCLL** 0.0 Rep Stress Incr YES 0.03 Horz(CT) 0.00 9 n/a n/a BCDL 10.0 Code IRC2015/TPI2014 Matrix-S Weight: 60 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No.1 2x4 SP No.1 **BOT CHORD** 2x4 SP No.2 WFBS **OTHERS** 2x4 SP No.2

BRACING-

TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins,

except end verticals.

BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 11-10-14.

(lb) -Max Horz 2=153(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 9, 2, 12, 13, 14, 10 Max Grav All reactions 250 lb or less at joint(s) 9, 2, 11, 12, 13, 14, 10

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 (3-second gust) 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) 0-3-15 to 4-11-15, Interior(1) 4-11-15 to 8-11-15, Exterior(2) 8-11-15 to 12-7-3 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
- 4) All plates are 2x4 MT20 unless otherwise indicated.
- 5) Gable requires continuous bottom chord bearing.
- 6) Gable studs spaced at 2-0-0 oc.
- 7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9, 2, 12, 13, 14, 10
- 10) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



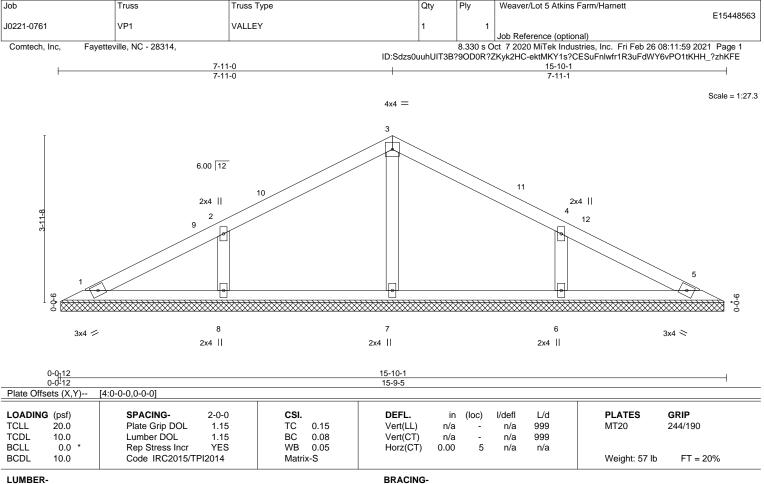
February 26,2021

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE
Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not

Design Valid to its 80 mly with win New Commercials. This design is based only upon parameters shown, and is for an individual orusining Component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

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





2x4 SP No 1 2x4 SP No.1

BOT CHORD 2x4 SP No.2 OTHERS

BRACING-

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 15-8-9.

(lb) -Max Horz 1=48(LC 11)

Max Uplift All uplift 100 lb or less at joint(s) 1, 8, 6

Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=272(LC 1), 8=344(LC 23), 6=344(LC 24)

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

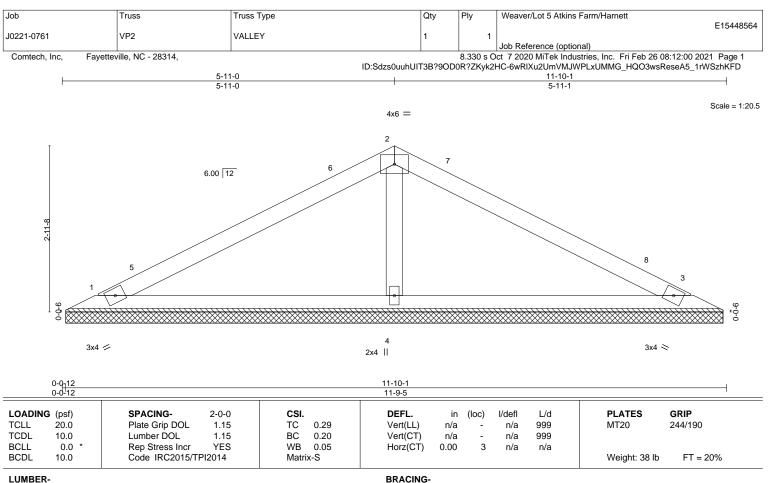
WEBS 2-8=-260/202, 4-6=-260/202

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 7-11-0, Exterior(2) 7-11-0 to 12-3-13, Interior(1) 12-3-13 to 15-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) 1, 8, 6.
- 6) Non Standard bearing condition. Review required.







BOT CHORD

LUMBER-

REACTIONS.

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

2x4 SP No.2

(size) 1=11-8-9, 3=11-8-9, 4=11-8-9 Max Horz 1=-35(LC 8)

Max Uplift 1=-26(LC 12), 3=-32(LC 13)

Max Grav 1=195(LC 23), 3=195(LC 24), 4=456(LC 1)

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

WEBS 2-4=-302/187

NOTES-

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-7-13 to 5-0-10, Interior(1) 5-0-10 to 5-11-0, Exterior(2) 5-11-0 to 10-3-13, Interior(1) 10-3-13 to 11-2-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 4) * This truss has been designed for a live load of 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) 1, 3.
- 6) Non Standard bearing condition. Review required.



Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

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

Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see

ANSI/TPI1 Quality Criteria, DSB-89 and BCSI Building Component Safety Information available from Truss Plate Institute, 2670 Crain Highway, Suite 203 Waldorf, MD 20601



E15448565 J0221-0761 VP3 VALLEY Job Reference (optional) Fayetteville, NC - 28314, 8.330 s Oct 7 2020 MiTek Industries, Inc. Fri Feb 26 08:12:02 2021 Page 1 Comtech, Inc. ID:Sdzs0uuhUIT3B?9OD0R?ZKyk2HC-2JYVya3II7c1IjVKcnPk3iWmujaq6mVTZIWyaKzhKFB 3-11-0 7-10-1 3-11-0 3-11-1 Scale = 1:14.6 4x4 = 2 6.00 12 3 9-0-0 2x4 🖊 2x4 || 2x4 < 0-0-12 0-0-12 7-10-1 LOADING (psf) SPACING-2-0-0 CSI. DEFL in (loc) I/defI 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 вс 0.08 Vert(CT) n/a n/a 999 **BCLL** WB 0.02 0.0 Rep Stress Incr YES Horz(CT) 0.00 3 n/a n/a Code IRC2015/TPI2014 BCDL 10.0 Matrix-P Weight: 24 lb FT = 20% LUMBER-**BRACING-**

TOP CHORD

BOT CHORD

Qty

Ply

Weaver/Lot 5 Atkins Farm/Harnett

Structural wood sheathing directly applied or 6-0-0 oc purlins.

Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS.

Job

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

Truss

Truss Type

Max Horz 1=-21(LC 10)

Max Uplift 1=-21(LC 12), 3=-25(LC 13)

(size) 1=7-8-9, 3=7-8-9, 4=7-8-9

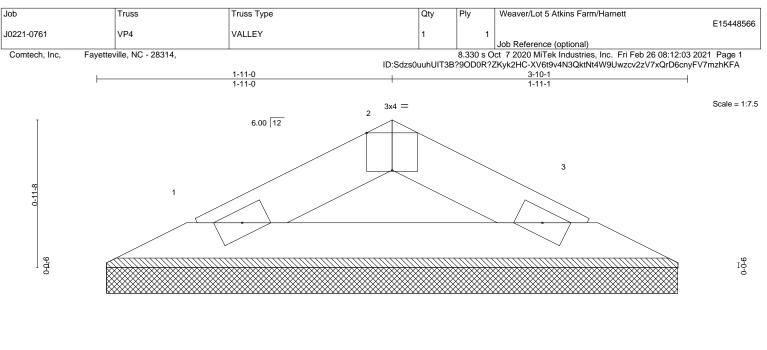
Max Grav 1=133(LC 1), 3=133(LC 1), 4=256(LC 1)

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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate
- 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) 1, 3.
- 6) Non Standard bearing condition. Review required.





2x4 🖊 2x4 >

3-10-1 0-0-12 Plate Offsets (X Y)--[2:0-2-0 Edge]

T late Off	3013 (71, 1)				
LOADIN	G (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
TCLL	20.0	Plate Grip DOL 1.15	TC 0.03	Vert(LL) n/a - n/a 999	MT20 244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.06	Vert(CT) n/a - n/a 999	
BCLL	0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 3 n/a n/a	
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 10 lb FT = 20%

LUMBER-

TOP CHORD 2x4 SP No 1 BOT CHORD 2x4 SP No.1 **BRACING-**

TOP CHORD **BOT CHORD** Structural wood sheathing directly applied or 3-10-1 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=3-8-9, 3=3-8-9

Max Horz 1=8(LC 9)

Max Uplift 1=-6(LC 12), 3=-6(LC 13) Max Grav 1=101(LC 1), 3=101(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 (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) 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) 1, 3.
- 6) Non Standard bearing condition. Review required.



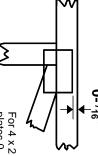


Symbols

PLATE LOCATION AND ORIENTATION



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



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

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

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

PLATE SIZE



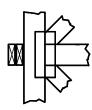
to slots. Second dimension is the length parallel to slots. width measured perpendicular The first dimension is the plate

LATERAL BRACING LOCATION



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

BEARING



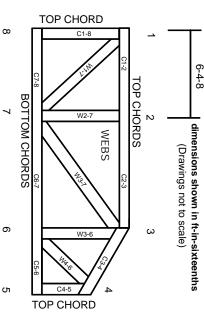
Min size shown is for crushing only number where bearings occur. reaction section indicates joint (supports) occur. Icons vary but Indicates location where bearings

Industry Standards:

National Design Specification for Metal Building Component Safety Information. Installing & Bracing of Metal Plate Connected Wood Trusses. Guide to Good Practice for Handling Design Standard for Bracing. Plate Connected Wood Truss Construction.

DSB-89: ANSI/TPI1:

Numbering System



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

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

PRODUCT CODE APPROVALS

ICC-ES Reports:

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

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

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

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MiTek Engineering Reference Sheet: MII-7473 rev. 5/19/2020

General Safety Notes

Damage or Personal Injury Failure to Follow Could Cause Property

- Additional stability bracing for truss system, e.g. diagonal or X-bracing, is always required. See BCSI
- Ņ Truss bracing must be designed by an engineer. For bracing should be considered. may require bracing, or alternative Tor I wide truss spacing, individual lateral braces themselves
- Never exceed the design loading shown and never stack materials on inadequately braced trusses.

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designer, erection supervisor, property owner and all other interested parties. Provide copies of this truss design to the building

4.

- Cut members to bear tightly against each other
- Place plates on each face of truss at each joint and embed fully. Knots and wane at joint locations are regulated by ANSI/TPI 1.

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- Design assumes trusses will be suitably protected from the environment in accord with ANSI/TPI 1.
- Unless otherwise noted, moisture content of lumber shall not exceed 19% at time of fabrication
- Unless expressly noted, this design is not applicable for use with fire retardant, preservative treated, or green lumber.

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- Camber is a non-structural consideration and is the camber for dead load deflection. responsibility of truss fabricator. General practice is to
- Plate type, size, orientation and location dimensions indicated are minimum plating requirements.
- Lumber used shall be of the species and size, and in all respects, equal to or better than that
- 13. Top chords must be sheathed or purlins provided at spacing indicated on design.
- Bottom chords require lateral bracing at 10 ft. spacing, or less, if no ceiling is installed, unless otherwise noted
- Connections not shown are the responsibility of others
- 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 project engineer before use. environmental, health or performance risks. Consult with
- Review all portions of this design (front, back, words is not sufficient. and pictures) before use. Reviewing pictures alone
- Design assumes manufacture in accordance with ANSI/TPI 1 Quality Criteria.
- 21. The design does not take into account any dynamic or other loads other than those expressly stated.