

Trenco 818 Soundside Rd Edenton, NC 27932

Re: J0824-4611 GMC/Lot 5 River Rd./Wake

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: I67769305 thru I67769349

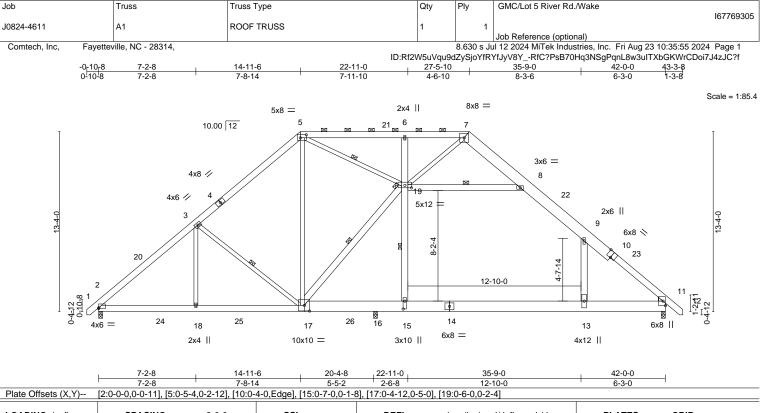
My license renewal date for the state of North Carolina is December 31, 2024.

North Carolina COA: C-0844



August 23,2024

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.



LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2015/TPI2014	CSI. TC 0.71 BC 0.90 WB 0.46 Matrix-S	Vert(LL) -0.24 Vert(CT) -0.42 Horz(CT) 0.05	n (loc) l/defl 4 13-15 >999 2 13-15 >608 5 11 n/a 7 13-15 >999	L/d 360 240 n/a 240	PLATES MT20 Weight: 438 lb	GRIP 244/190 FT = 20%
	P No.1 *Except* 2x10 SP No.1		BRACING- TOP CHORD	Structural wood 2-0-0 oc purling		rectly applied or 4-0-3 c	oc purlins, except
BOT CHORD 2x10 S 2-17: 2	P No.1 *Except* 26 SP No.1 P No.2 *Except*		BOT CHORD WEBS JOINTS		rectly applied	or 9-6-8 oc bracing. 3-17, 15-19, 8-19, 5-19,	17-19

WEDGE Right: 2x4 SP No.2

REACTIONS. (size) 2=0-3-8, 11=0-3-8, 16=0-3-8 Max Horz 2=-316(LC 10) Max Uplift 16=-67(LC 9) Max Grav 2=1798(LC 2), 11=2328(LC 21), 16=933(LC 26)

6-15,9-13,8-19,17-19: 2x6 SP No.1

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

 TOP CHORD
 2-3=-2420/254, 3-5=-1813/311, 5-6=-945/105, 6-7=-940/104, 7-8=-734/127, 8-9=-2254/176, 9-11=-3012/0
- BOT CHORD 2-18=-44/1888, 17-18=-45/1889, 16-17=0/1946, 15-16=0/1946, 13-15=0/1949, 11-13=0/1946 WEBS 3-18=0/488, 3-17=-702/293, 5-17=-94/1054, 15-19=-195/901, 6-19=-455/229, 18-19-195/201, 18-195/201, 18-195/200,
- 9-13=0/1028, 8-19=-1766/208, 5-19=-769/292, 17-19=-1209/20, 7-19=0/739

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 14-11-6, Exterior(2) 14-11-6 to 21-2-1, Interior(1) 21-2-1 to 27-3-0, Exterior(2) 27-3-0 to 33-5-11, Interior(1) 33-5-11 to 43-2-1 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

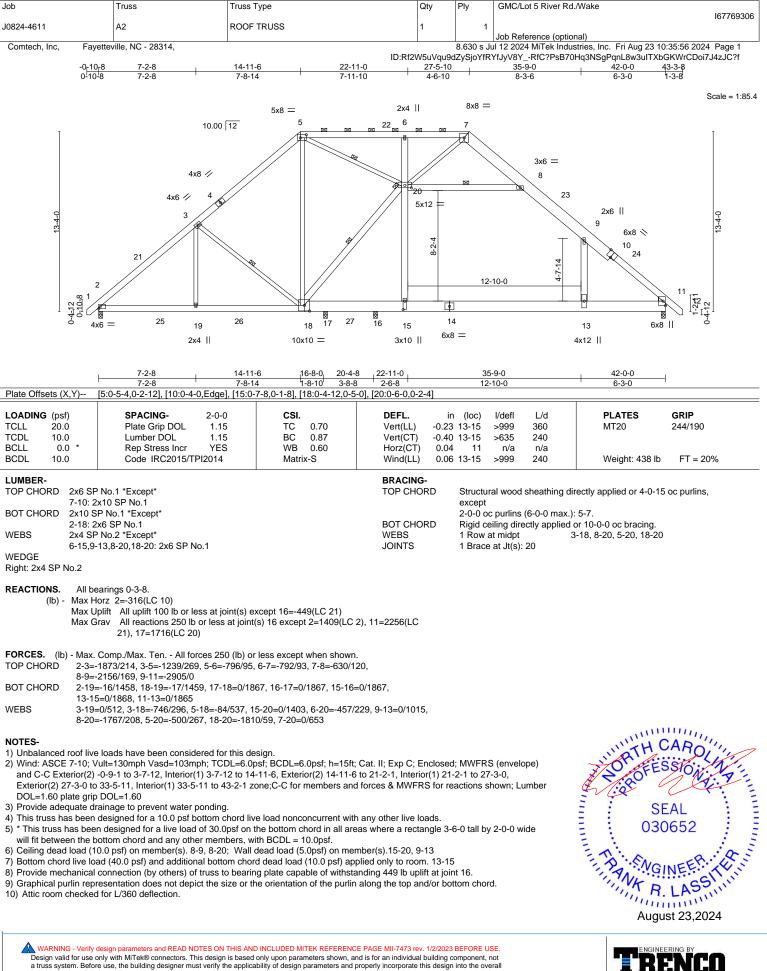
3) Provide adequate drainage to prevent water ponding.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 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). 8-9, 8-19; Wall dead load (5.0psf) on member(s).15-19, 9-13
- 7) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 13-15
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 67 lb uplift at joint 16.
 9) Graphical purple connection does not desire the size of the

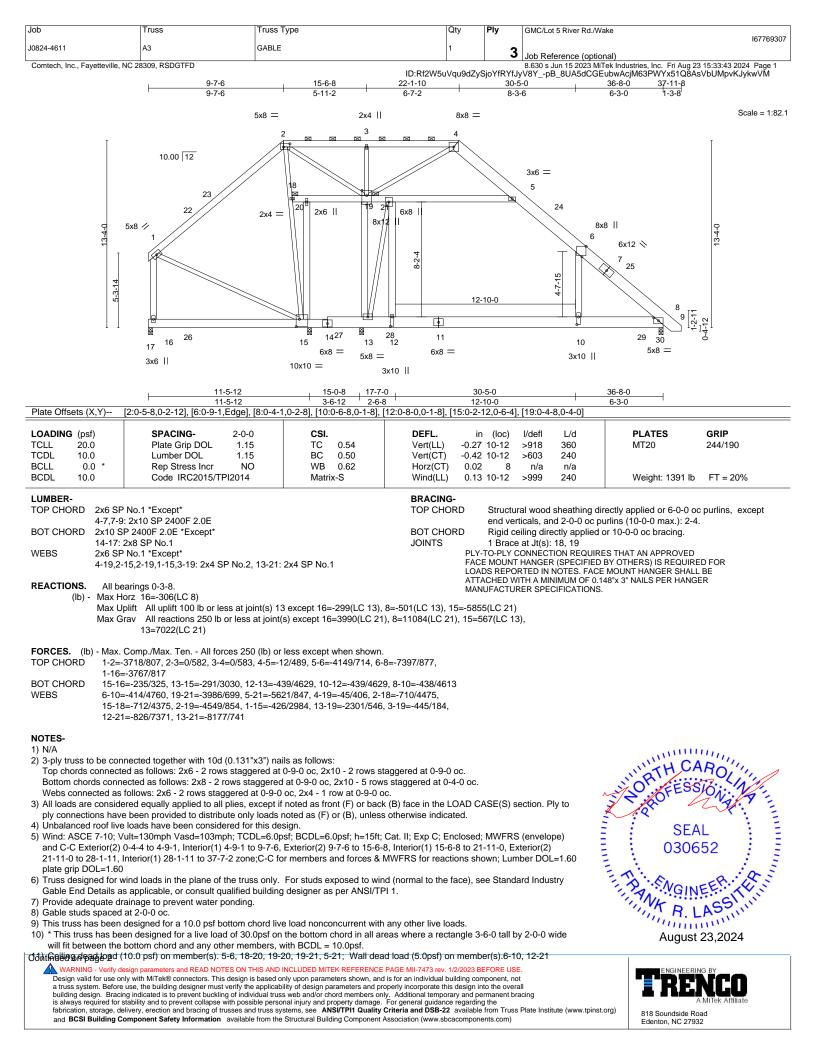
9) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.10) Attic room checked for L/360 deflection.



WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MITek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see ANS/ITP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



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	Job	Truss	Truss Type	Qty	Ply	GMC/Lot 5 River Rd./Wake
						167769307
	J0824-4611	A3	GABLE	1	3	Job Reference (optional)
					•	Job Reference (optional)
	Comtech, Inc., Fayetteville, NC 28309, RSDGTFD					8.630 s Jun 15 2023 MiTek Industries, Inc. Fri Aug 23 15:33:43 2024 Page 2
ID:Rf2W5uVqu9dZySjoYfRYfJyV8YpB				V8YpB_8UA5dCGEubwAcjM63PWYx51Q8AsVbUMpvKJykwVM		

NOTES-

- 12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (it=lb) 16=299, 8=501, 15=5855.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5776 lb down and 981 lb up at 35-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 17) Attic room checked for L/360 deflection.

LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf) Vert: 1-2=-60, 2-4=-60, 4-5=-60, 5-6=-80, 6-9=-60, 12-17=-20, 10-12=-235(F=-195), 10-29=-215(F=-195), 8-29=-20, 5-18=-20
 - Drag: 6-10=-10, 12-21=-10
- Concentrated Loads (lb)
- Vert: 30=-3278(F)

2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15

- Uniform Loads (plf)
 - Vert: 1-2=-50, 2-4=-50, 4-5=-50, 5-6=-70, 6-9=-50, 16-17=-20, 16-26=-65, 26-27=-20, 27-28=-65, 12-28=-20, 10-12=-417(F=-317), 10-29=-337(F=-317), 8-29=-20, 5-18=-20 Drag: 6-10=-10, 12-21=-10
- Concentrated Loads (lb)
- Vert: 30=-5327(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-20, 2-4=-20, 4-5=-20, 5-6=-40, 6-9=-20, 12-17=-40, 12-29=-186(F=-146), 8-29=-40, 5-18=-20
 - Drag: 6-10=-10, 12-21=-10
- Concentrated Loads (lb) Vert: 30=-2458(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-23=32, 2-23=25, 2-3=36, 3-4=28, 4-5=32, 5-24=20, 6-24=13, 6-8=25, 8-9=18, 12-17=-12, 10-12=34(F=58), 10-29=46(F=58), 8-29=-12, 5-18=-12 Horz: 1-23=-44, 2-23=-37, 4-24=44, 8-24=37, 8-9=30
 - Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10
- Concentrated Loads (lb)
- Vert: 30=981(F)
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 - Vert: 1-22=25, 2-22=32, 2-3=28, 3-4=36, 4-5=25, 5-6=13, 6-25=25, 8-25=32, 8-9=55, 12-17=-12, 10-12=34(F=58), 10-29=46(F=58), 8-29=-12, 5-18=-12 Horz: 1-22=-37, 2-22=-44, 4-25=37, 8-25=44, 8-9=67
 - Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10
 - Concentrated Loads (lb)
 - Vert: 30=981(F)
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 - Vert: 1-2=-57, 2-4=-34, 4-5=-57, 5-6=-77, 6-8=-57, 8-9=-50, 12-17=-20, 10-12=-227(F=-187), 10-29=-207(F=-187), 8-29=-20, 5-18=-20
 - Horz: 1-2=37, 4-8=-37, 8-9=-30 Drag: 2-3=0, 3-4=-0, 6-10=-10, 12-21=-10
 - Concentrated Loads (lb)
- Vert: 30=-3143(F)
- 7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 - Vert: 1-2=-57, 2-4=-34, 4-5=-57, 5-6=-77, 6-8=-57, 8-9=10, 12-17=-20, 10-12=-227(F=-187), 10-29=-207(F=-187), 8-29=-20,
 - 5-18=-20
 - Horz: 1-2=37, 4-8=-37, 8-9=30
 - Drag: 2-3=0, 3-4=-0, 6-10=-10, 12-21=-10
 - Concentrated Loads (Ib)
- Vert: 30=-3143(F)
- 8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)

Vert: 1-2=-13, 2-4=21, 4-5=11, 5-6=-1, 6-8=11, 8-9=4, 12-17=-12, 10-12=-3(F=21), 10-29=9(F=21), 8-29=-12, 5-18=-12

- Horz: 1-2=1, 4-8=23, 8-9=16
- Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10
- Concentrated Loads (lb)
- Vert: 30=352(F)
- Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=11, 2-4=21, 4-5=-13, 5-6=-25, 6-8=-13, 8-9=2, 12-17=-12, 10-12=-3(F=21), 10-29=9(F=21), 8-29=-12, 5-18=-12
 - Horz: 1-2=-23, 4-8=-1, 8-9=14
 - Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10
 - Concentrated Loads (lb) Vert: 30=352(F)
 - Ven. 30=352(F)
- 10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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Job	Truss	Truss Type	Qty	Plv	GMC/Lot 5 River Rd./Wake
			,	1	167769307
					101703301
J0824-4611	A3	GABLE	1	2	
				J	Job Reference (optional)
Comtech, Inc., Fayetteville, NC 28309, RSDGTFD					8.630 s Jun 15 2023 MiTek Industries, Inc. Fri Aug 23 15:33:43 2024 Page 3

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LOAD CASE(S) Uniform Loads (plf) Vert: 1-2=-35, 2-4=-1, 4-5=-11, 5-6=-31, 6-8=-11, 8-9=-4, 12-17=-20, 10-12=-173(F=-133), 10-29=-153(F=-133), 8-29=-20, 5-18=-20 Horz: 1-2=15, 4-8=9, 8-9=16 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10 Concentrated Loads (lb) Vert: 30=-2238(F) 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-11, 2-4=-1, 4-5=-35, 5-6=-55, 6-8=-35, 8-9=-28, 12-17=-20, 10-12=-173(F=-133), 10-29=-153(F=-133), 8-29=-20, 5-18=-20 Horz: 1-2=-9, 4-8=-15, 8-9=-8 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10 Concentrated Loads (lb) Vert: 30=-2238(F) 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=21, 2-4=9, 4-5=9, 5-6=-3, 6-8=9, 8-9=2, 12-17=-12, 10-12=-3(F=21), 10-29=9(F=21), 8-29=-12, 5-18=-12 Horz: 1-2=-33, 4-8=21, 8-9=14 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10 Concentrated Loads (lb) Vert: 30=352(F) 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=9, 2-4=9, 4-5=21, 5-6=9, 6-8=21, 8-9=14, 12-17=-12, 10-12=-3(F=21), 10-29=9(F=21), 8-29=-12, 5-18=-12 Horz: 1-2=-21, 4-8=33, 8-9=26 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10 Concentrated Loads (lb) Vert: 30=352(F) 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=21, 2-4=9, 4-5=9, 5-6=-3, 6-8=9, 8-9=2, 12-17=-12, 10-12=-3(F=21), 10-29=9(F=21), 8-29=-12, 5-18=-12 Horz: 1-2=-33, 4-8=21, 8-9=14 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10 Concentrated Loads (lb) Vert: 30=352(F) 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=9, 2-4=9, 4-5=21, 5-6=9, 6-8=21, 8-9=14, 12-17=-12, 10-12=-3(F=21), 10-29=9(F=21), 8-29=-12, 5-18=-12 Horz: 1-2=-21, 4-8=33, 8-9=26 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10 Concentrated Loads (lb) Vert: 30=352(F 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-1, 2-4=-13, 4-5=-13, 5-6=-33, 6-8=-13, 8-9=-6, 12-17=-20, 10-12=-154(F=-114), 10-29=-134(F=-114), 8-29=-20, 5-18=-20 Horz: 1-2=-19, 4-8=7, 8-9=14 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10 Concentrated Loads (lb) Vert: 30=-1915(F 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-13, 2-4=-13, 4-5=-1, 5-6=-21, 6-8=-1, 8-9=6, 12-17=-20, 10-12=-154(F=-114), 10-29=-134(F=-114), 8-29=-20, 10-12=-154(F=-114), 10-29=-134(F=-114), 10-29=-13 5-18=-20 Horz: 1-2=-7, 4-8=19, 8-9=26 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10 Concentrated Loads (lb) Vert: 30=-1915(F) 18) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-2=-20, 2-4=-20, 4-5=-20, 5-6=-40, 6-9=-20, 16-17=-20, 16-26=-80, 26-27=-20, 27-28=-80, 12-28=-20, 12-2 10-12=-412(F=-292), 10-29=-312(F=-292), 8-29=-20, 5-18=-20 Drag: 6-10=-10, 12-21=-10 Concentrated Loads (lb) Vert: 30=-4917(F) 19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-2=-20, 2-4=-20, 4-5=-20, 5-6=-40, 6-9=-20, 16-17=-20, 16-26=-80, 26-27=-20, 27-28=-80, 12-28=-20, 10-12=-412(F=-292), 10-29=-312(F=-292), 8-29=-20, 5-18=-20 Drag: 6-10=-10, 12-21=-10 Concentrated Loads (lb) Vert: 30=-4917(F) 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber

Increase=1.60, Plate Increase=1.60

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J0824-4611	A3	GABLE		1	3	Job Deference (action 1)	167769307
Comtech, Inc., Fayetteville,	NC 28309, RSDGTFD					8.630 s Jun 15 2023 MiTek Industries, In	
			ID:Rf2W5u	Vqu9dZy	SjoYfRYfJ	yV8YpB_8UA5dCGEubwAcjM63PV	VYx51Q8AsVbUMpvKJykwVM
LOAD CASE(S)							
Uniform Loads (pl Vert: 1-2=	,	=-63, 6-8=-43, 8-9=-38, 16-17=-2	20. 16-26=-65. 26-27=-	20. 27-28	3=-65, 12-	-28=-20, 10-12=-444(F=-344), 10-2	9=-364(F=-344).
8-29=-20,	5-18=-20	,,-	-,, -	- /	,		
	=11, 4-8=7, 8-9=12 =-0, 3-4=0, 6-10=-10, 12-2 ⁻	110					
Concentrated Loa	ds (lb)	1- 10					
Vert: 30=-		Attic Storage + 0.75 Attic Floor	+ 0 75(0 6 MW/ERS Wi	nd (Nea	Int) Right): Lumber Increase=1.60, Plate Inc	rease-1.60
Uniform Loads (pl	. ,	Auto Storage + 0.75 Auto 1 1001	+ 0.75(0.0 10100 103 000	iu (iveg.	iiii) Nigili		16436-1.00
		=-81, 6-8=-61, 8-9=-56, 16-17=-2	20, 16-26=-65, 26-27=-2	20, 27-28	8=-65, 12-	-28=-20, 10-12=-444(F=-344), 10-2	.9=-364(F=-344),
	, 5-18=-20 =-7, 4-8=-11, 8-9=-6						
	=-0, 3-4=0, 6-10=-10, 12-2	1=-10					
Concentrated Loa Vert: 30=							
22) Dead + 0.75 Roof	Live (bal.) + 0.75 Uninhab.	Attic Storage + 0.75 Attic Floor -	+ 0.75(0.6 MWFRS Wir	nd (Neg.	Int) 1st P	arallel): Lumber Increase=1.60, Pla	ate Increase=1.60
Uniform Loads (pl	,	- 65 6 9- 45 9 0- 40 16 17- 5	0 16 26 65 26 27 -	on o z og	0-65 12	-28=-20, 10-12=-429(F=-329), 10-2	0- 240/E- 220)
		=-00, 0-0=-40, 0-9=-40, 10-17=-2	20, 10-20=-03, 20-27=-	20, 27-20	5=-05, 12-	-20=-20, 10-12=-429(F=-329), 10-2	9=-349(F=-329),
	=-14, 4-8=5, 8-9=10						
Drag: 2-3 Concentrated Loa	=-0, 3-4=0, 6-10=-10, 12-2 ⁻ ds (lb)	1=-10					
Vert: 30=-	-5534(F)						
23) Dead + 0.75 Roof Uniform Loads (pl	. ,	Attic Storage + 0.75 Attic Floor -	+ 0.75(0.6 MWFRS Wi	nd (Neg.	Int) 2nd F	Parallel): Lumber Increase=1.60, Pl	ate Increase=1.60
Vert: 1-2=	-45, 2-4=-45, 4-5=-36, 5-6	=-56, 6-8=-36, 8-9=-31, 16-17=-2	20, 16-26=-65, 26-27=-2	20, 27-28	3=-65, 12-	-28=-20, 10-12=-429(F=-329), 10-2	9=-349(F=-329),
,	, 5-18=-20 =-5, 4-8=14, 8-9=19						
	=-0, 3-4=0, 6-10=-10, 12-2	1=-10					
Concentrated Loa							
Vert: 30=- 24) 1st Dead + Roof L		Increase=1.15, Plate Increase=1	.15				
Uniform Loads (pl	f)						
	60, 2-4=-60, 4-5=-20, 5-6: 0=-10, 12-21=-10	=-40, 6-9=-20, 12-17=-20, 10-12:	=-235(F=-195), 10-29=	-215(F=-	195), 8-29	9=-20, 5-18=-20	
Concentrated Loa							
Vert: 30=-		Increase=1.15, Plate Increase=1	1 15				
Uniform Loads (pl	,	Increase=1.15, Flate Increase=	1.15				
		=-80, 6-9=-60, 12-17=-20, 10-12	=-235(F=-195), 10-29=	-215(F=-	195), 8-29	9=-20, 5-18=-20	
Concentrated Loa	0=-10, 12-21=-10 ds (lb)						
Vert: 30=-	-3278(F)						
26) 3rd Dead + 0.75 R Uniform Loads (pl	· · · · · · · · · · · · · · · · · · ·	75 Uninhab. Attic Storage + 0.75	Attic Floor: Lumber Ind	crease=1	.15, Plate	e Increase=1.15	
	,	=-40, 6-9=-20, 16-17=-20, 16-26	=-65, 26-27=-20, 27-28	=-65, 12	-28=-20, ⁻	10-12=-417(F=-317), 10-29=-337(F	=-317), 8-29=-20,
5-18=-20	0 10 12 21 10						
Concentrated Loa	0=-10, 12-21=-10 ds (lb)						
Vert: 30=	()						
27) 4th Dead + 0.75 R Increase=1.15	coof Live (unbalanced) + 0.	75 Uninhab. Attic Storage + 0.75	Attic Floor: Lumber Ind	crease=1	.15, Plate		
Uniform Loads (pl							
	20, 2-4=-50, 4-5=-50, 5-6: 17(F=-317), 10-29=-337(F=	=-70, 6-9=-50, 16-17=-20, 16-26: 317) 8-29=-20, 5-18=-20	=-65, 26-27=-20, 27-28	=-65, 12	-28=-20,		
	0=-10, 12-21=-10	- 517), 8 23- 28, 8 10- 28					
Concentrated Loa							
Vert: 30=- 28) Reversal: Dead +		al) Case 1: Lumber Increase=1.6	0, Plate Increase=1.60				
Uniform Loads (pl	,	·	·				
	3=32, 2-23=25, 2-3=36, 3-4 (F=58), 8-29=-12, 5-18=-12	=28, 4-5=32, 5-24=20, 6-24=13,	6-8=25, 8-9=18, 12-17	=-12, 10	-12=34(F=	=58),	
Horz: 1-2	3=-44, 2-23=-37, 4-24=44,	8-24=37, 8-9=30					
Drag: 2-3 Concentrated Loa	=-0, 3-4=0, 6-10=-10, 12-2 ⁻	1=-10					
Vert: 30=							
		al) Case 2: Lumber Increase=1.6	0, Plate Increase=1.60				
Uniform Loads (pl Vert: 1-22	,	=36, 4-5=25, 5-6=13, 6-25=25, 8	-25=32. 8-9=55. 12-17	=-12. 10	-12=34(F=	=58).	
10-29=46	(F=58), 8-29=-12, 5-18=-12	2	. ,,	., . u	(.		
	2=-37, 2-22=-44, 4-25=37, =-0, 3-4=0, 6-10=-10, 12-2 ⁻						
Concentrated Loa	ds (lb)						
30) Reversal: Dead +		al) Case 1: Lumber Increase=1.6					
JUJ NEVEISAL DEAU +		an Case I. LUIIIDEI IIICIEdSE=1.0	o, 1 late 1101ed5e=1.00				

Continued on page 5

MARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 1/2/2023 BEFORE USE. Design valid for use only with MiTek® connectors. This design is based only upon parameters shown, and is for an individual building component, not a truss system. Before use, the building designer must verify the applicability of design parameters and properly incorporate this design into the overall building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent outlapse 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/TP11 Quality Criteria and DSB-22 available from Truss Plate Institute (www.tpinst.org) and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)



Job	Truss	Truss Type	Qty	Ply	GMC/Lot 5 River Rd./Wake
J0824-4611	A3	GABLE	1	3	I67769307 Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, RSDGTFD

8.630 s Jun 15 2023 MTek Industries, Inc. Fri Aug 23 15:33:43 2024 Page 5 ID:Rf2W5uVqu9dZySjoYfRYfJyV8Y_-pB_8UA5dCGEubwAcjM63PWYx51Q8AsVbUMpvKJykwVM

	ID:Rf2W5uVqu9dZySjoYfRYfJyV8YpB_8UA5dCGEubwAcjM63PWYx51Q8AsVbUMpvKJykwVM
LOAD CASE(S) Uniform Loads (plf)	
Vert: 1-2=-57, 2-4=-34, 4-5=-57, 5-6=-77, 6-8=-57, 8-9=-50, 12-17=-20, 10-12=-2 Horz: 1-2=37, 4-8=-37, 8-9=-30	227(F=-187), 10-29=-207(F=-187), 8-29=-20, 5-18=-20
Drag: 2-3=0, 3-4=-0, 6-10=-10, 12-21=-10 Concentrated Loads (lb) Vert: 30=-3143(F)	
 Reversal: Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Inc Uniform Loads (plf) 	rease=1.60
Vert: 1-2=-57, 2-4=-34, 4-5=-57, 5-6=-77, 6-8=-57, 8-9=10, 12-17=-20, 10-12=-2 Horz: 1-2=37, 4-8=-37, 8-9=30 Drag: 2-3=0, 3-4=-0, 6-10=-10, 12-21=-10	27(F=-187), 10-29=-207(F=-187), 8-29=-20, 5-18=-20
Concentrated Loads (Ib) Vert: 30=-3143(F)	
 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Inc Uniform Loads (plf) 	
Vert: 1-2=-13, 2-4=21, 4-5=11, 5-6=-1, 6-8=11, 8-9=4, 12-17=-12, 10-12=-3(F=2 Horz: 1-2=1, 4-8=23, 8-9=16 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10	1), 10-29=9(F=21), 8-29=-12, 5-18=-12
Concentrated Loads (lb) Vert: 30=352(F)	
 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate I Uniform Loads (plf) 	
Vert: 1-2=11, 2-4=21, 4-5=-13, 5-6=-25, 6-8=-13, 8-9=2, 12-17=-12, 10-12=-3(F= Horz: 1-2=-23, 4-8=-1, 8-9=14 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10	-21), 10-29=9(F=21), 8-29=-12, 5-18=-12
Concentrated Loads (lb) Vert: 30=352(F)	
 Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate In Uniform Loads (plf) 	crease=1.60
Vert: 1-2=-35, 2-4=-1, 4-5=-11, 5-6=-31, 6-8=-11, 8-9=-4, 12-17=-20, 10-12=-173 Horz: 1-2=15, 4-8=9, 8-9=16 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10	3(F=-133), 10-29=-153(F=-133), 8-29=-20, 5-18=-20
Concentrated Loads (lb) Vert: 30=-2238(F)	
35) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate I Uniform Loads (plf)	
Vert: 1-2=-11, 2-4=-1, 4-5=-35, 5-6=-55, 6-8=-35, 8-9=-28, 12-17=-20, 10-12=-1; Horz: 1-2=-9, 4-8=-15, 8-9=-8 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10	/3(F=-133), 10-29=-153(F=-133), 8-29=-20, 5-18=-20
Concentrated Loads (lb) Vert: 30=-2238(F)	
36) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, I Uniform Loads (plf)	
Vert: 1-2=21, 2-4=9, 4-5=9, 5-6=-3, 6-8=9, 8-9=2, 12-17=-12, 10-12=-3(F=21), 1 Horz: 1-2=-33, 4-8=21, 8-9=14 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10	0-29=9(F=21), 8-29=-12, 5-18=-12
Concentrated Loads (lb) Vert: 30=352(F)	
37) Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Uniform Loads (plf)	
Vert: 1-2=9, 2-4=9, 4-5=21, 5-6=9, 6-8=21, 8-9=14, 12-17=-12, 10-12=-3(F=21), Horz: 1-2=-21, 4-8=33, 8-9=26	10-29=9(F=21), 8-29=-12, 5-18=-12
Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10 Concentrated Loads (lb) Vert: 30=352(F)	
 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Uniform Loads (plf) 	Plate Increase=1.60
Vert: 1-2=21, 2-4=9, 4-5=9, 5-6=-3, 6-8=9, 8-9=2, 12-17=-12, 10-12=-3(F=21), 1 Horz: 1-2=-33, 4-8=21, 8-9=14 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10	0-29=9(F=21), 8-29=-12, 5-18=-12
Concentrated Loads (Ib) Vert: 30=352(F)	
 Reversal: Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, I Uniform Loads (plf) 	
Vert: 1-2=9, 2-4=9, 4-5=21, 5-6=9, 6-8=21, 8-9=14, 12-17=-12, 10-12=-3(F=21), Horz: 1-2=-21, 4-8=33, 8-9=26 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-21=-10	10-29=9(F=21), 8-29=-12, 5-18=-12
Concentrated Loads (lb) Vert: 30=352(F)	
40) Reversal: Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, 1	Plate Increase=1.60

Continued on page 6

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Job	Truss	Truss Type		Qty	Ply	GMC/Lot 5 River Rd./Wake	167769307
J0824-4611	A3	GABLE		1	3	Job Reference (optional)	101103001
Comtech, Inc., Fayetteville, N	IC 28309, RSDGTFD	1	ID:Rf2W5u	Vqu9dZy		8.630 s Jun 15 2023 MiTek Industries, Inc. yV8YpB_8UA5dCGEubwAcjM63PWY:	Fri Aug 23 15:33:43 2024 Page 6 x51Q8AsVbUMpvKJykwVM
LOAD CASE(S) Uniform Loads (plf)							
Horz: 1-2=-	1, 2-4=-13, 4-5=-13, 5-6= ·19, 4-8=7, 8-9=14 ·0, 3-4=0, 6-10=-10, 12-2	-33, 6-8=-13, 8-9=-6, 12-17=-20, 1 1=-10	0-12=-154(F=-114), ²	0-29=-1	34(F=-114	4), 8-29=-20, 5-18=-20	
Concentrated Load Vert: 30=-1	915(F)						
Uniform Loads (plf)		ternal) 2nd Parallel: Lumber Increa	,				
Horz: 1-2=-	-7, 4-8=19, 8-9=26	-21, 6-8=-1, 8-9=6, 12-17=-20, 10-	·12=-154(F=-114), 10	-29=-134	4(F=-114),	, 8-29=-20, 5-18=-20	
Drag: 2-3= Concentrated Load Vert: 30=-1		1=-10					
		5 Uninhab. Attic Storage + 0.75 Att	tic Floor + 0.75(0.6 M	WFRS W	Vind (Neg.	. Int) Left): Lumber Increase=1.60, Pla	ate
Uniform Loads (plf) Vert: 1-2=- 8-29=-20, 5		=-63, 6-8=-43, 8-9=-38, 16-17=-20	, 16-26=-65, 26-27=-	20, 27-28	8=-65, 12-	-28=-20, 10-12=-444(F=-344), 10-29=	-364(F=-344),
	11, 4-8=7, 8-9=12 -0, 3-4=0, 6-10=-10, 12-2 s (lb)	1=-10					
Vert: 30=-5 43) Reversal: Dead + 0	5776(F)	5 Uninhab. Attic Storage + 0.75 Att	tic Floor + 0.75(0.6 M	WFRS W	Vind (Neg.	. Int) Right): Lumber Increase=1.60, P	Plate
Increase=1.60 Uniform Loads (plf)	40.04.004.5.04.5.0	04 0 0 04 0 0 50 40 47 00	40.00 05 00.07	00 07 00	0 05 40	00 00 40 40 444/5 044) 40 00	004/5 044)
8-29=-20, 5	, , , ,	=-81, 6-8=-61, 8-9=-56, 16-17=-20	9, 16-26=-65, 26-27=	20, 27-28	5=-65, 12-	-28=-20, 10-12=-444(F=-344), 10-29=	364(F=-344),
Concentrated Loads		1=-10					
Vert: 30=-5 44) Reversal: Dead + 0 Increase=1.60		5 Uninhab. Attic Storage + 0.75 Att	tic Floor + 0.75(0.6 M	WFRS W	Vind (Neg.	. Int) 1st Parallel): Lumber Increase=1	.60, Plate
Uniform Loads (plf) Vert: 1-2=- 8-29=-20, 5		=-65, 6-8=-45, 8-9=-40, 16-17=-20	, 16-26=-65, 26-27=-	20, 27-28	8=-65, 12-	-28=-20, 10-12=-429(F=-329), 10-29=	-349(F=-329),
Horz: 1-2= Drag: 2-3=	-14, 4-8=5, 8-9=10 -0, 3-4=0, 6-10=-10, 12-2	1=-10					
Concentrated Loads Vert: 30=-5 45) Reversal: Dead + 0	534(F)	5 Uninhah Attic Storage ± 0.75 Att	tic Floor + 0 75(0 6 M	WERSW	Vind (Nea	. Int) 2nd Parallel): Lumber Increase=	1.60 Plate
Increase=1.60 Uniform Loads (plf)					nia (reg.		1.00, 1140
8-29=-20, 5		=-56, 6-8=-36, 8-9=-31, 16-17=-20), 16-26=-65, 26-27=-	20, 27-28	8=-65, 12-	-28=-20, 10-12=-429(F=-329), 10-29=	349(F=-329),
Drag: 2-3= Concentrated Loads	-0, 3-4=0, 6-10=-10, 12-2 s (lb)	1=-10					
Vert: 30=-5	534(F)						

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Job	Truss	Truss Type	Qty	Ply GM	C/Lot 5 River Rd./Wake		167769308
J0824-4611	A3X	GABLE	0		Reference (optional)	dustrias las Eri Aur O	45-04-45-0004 Deve 4
Comtech, Inc., Fayetteville, NC 2	9-7-6	15-6-8	22-1-10	V5uVqu9dZySjoY 30-5-0	30 s Jun 15 2023 MiTek In fRYfJyV8YtLvEB6Uif 36-8-	f5GLRrclb4hZiFtP5xk -0 37-11-8	(vglYlrLZcRSykwUs
13-40 zx	9-7-6 10.00 12 24 28 / 1	5x8 = 2x4 $2x4$ $2x6$ x	6-7-2	THI W⊦ MC	5 = 25 5 = 5x8	RING FOR HOWN JPWARD	Scale = 1:83.3
5-3-14	17 ²⁹ 3x6	16 ¹⁵ 14 8x8 = 8x8	13 12 11 13 12 6x8 = 4x12	12-10-0	$- \sqrt{\Box}$	26 26 27 27 28 5x8 =	0.412
			5-8 ¹ 1	30-5-0 12-10-0	<u>36-8-</u> 6-3-1	0	
LOADING (psf) TCLL 20.0 TCDL 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15	TC 0.54 BC 0.55	DEFL. Vert(LL) -0.	in (loc) l/de 31 10-12 >80 48 10-12 >52	efl L/d 09 360	PLATES MT20	GRIP 244/190
BCLL 0.0 * BCDL 10.0	Rep Stress Incr NC Code IRC2015/TPI2014	WB 0.81 Matrix-S		16 8 n. 15 10-12 >99		Weight: 1354 lb	FT = 20%
BOT CHORD 2x10 SP 2 15-18: 2x8 WEBS 2x6 SP No 4-20,2-16, REACTIONS. All bearin (lb) - Max Horz Max Uplift	8 SP No.1 9.1 *Except* 2-20,1-16,3-20: 2x4 SP No.2 ngs 0-3-8. 17=-306(LC 8) All uplift 100 lb or less at jo	13-22: 2x4 SP No.1 int(s) 13 except 17=-334(LC 13 at joint(s) except 17=269(LC 11		Rigid ceiling 1 Brace at J PLY-TO-PLY CO FACE MOUNT H LOADS REPORT ATTACHED WITI MANUFACTURE 693(LC 21)	s, and 2-0-0 oc purlins directly applied or 10 t(s): 19, 20 NNECTION REQUIRES ANGER (SPECIFIED BY TED IN NOTES. FACE M H A MINIMUM OF 0.148 R SPECIFICATIONS.)-0-0 oc bracing. 5 THAT AN APPROVE Y OTHERS) IS REQU 10UNT HANGER SHA	D RED FOR ALL BE
TOP CHORD 1-2=-243 6-8=-401 BOT CHORD 12-13=-1 WEBS 6-10=-36 16-19=-6	3/702, 2-3=-351/5176, 3-4=-3 16/571, 1-17=-337/451 186/2140, 10-12=-186/2140, 8 36/4248, 20-22=-2789/588, 5-	0 (lb) or less except when show 51/5178, 4-5=-145/2975, 5-6=-1 3-10=-185/2126, 16-17=-238/32 22=-4891/769, 4-20=-2973/335 I-16=-579/185, 16-21=-271/13, 22=-10598/920	095/434, 9 , 2-19=-583/3093,				
Top chords connected a Bottom chords connected Webs connected as foll 3) All loads are considered ply connections have be 4) Unbalanced roof live loa 5) Wind: ASCE 7-10; Vult= and C-C Exterior(2) 0-4 21-11-0 to 28-1-11, Inte plate grip DOL=1.60 6) Truss designed for wind Gable End Details as ap 7) Provide adequate draina 8) Gable End Details as ap 7) Provide adequate draina 8) Gable studs spaced at 2 9) This truss has been des 10) * This truss has been des 10) * This truss has been des 10) * WARNING - Verify design Design valid for use only w a truss system. Before use building design. Bracing in is always required for stabi fabrication, storage, delive	ed as follows: 2x10 - 5 rows s ows: 2x6 - 2 rows staggered a d equally applied to all plies, e een provided to distribute only ads have been considered foi -130mph Vasd=103mph; TCI -4 to 4-9-1, Interior(1) 4-9-1 to rior(1) 28-1-11 to 37-7-2 zono d loads in the plane of the trus oplicable, or consult qualified age to prevent water ponding 2-0-0 oc. signed for a 10.0 psf bottom c designed for a live load of 30. tom chord and any other mer 0 psf) on member(s). 5-6, 19- n parameters and READ NOTES ON T ith MiTek® connectors. This design i , the building designer must verify the idicated is to prevent buckling of indiv lify and to prevent collapse with poss ry, erection and bracing of trusses a	ered at 0-9-0 oc, 2x10 - 2 rows taggered at 0-4-0 oc, 2x8 - 2 ro at 0-9-0 oc, 2x4 - 1 row at 0-9-0 xcept if noted as front (F) or ba loads noted as (F) or (B), unle this design. DL=6.0psf; BCDL=6.0psf; h=15f 0-9-7-6, Exterior(2) 9-7-6 to 15-6 c;C-C for members and forces & s only. For studs exposed to w building designer as per ANSI/ - hord live load nonconcurrent wi 0psf on the bottom chord in all	ws staggered at 0-9-0 o oc. ck (B) face in the LOAD ss otherwise indicated. t; Cat. II; Exp C; Enclose S-8, Interior(1) 15-6-8 to & MWFRS for reactions : ind (normal to the face), FPI 1. th any other live loads. areas where a rectangle ead load (5:0psf) on mer E PAGE MII-7473 rev. 1/2/202 nd is for an individual building poney. Additional temporary anc e. For general guidance regar y Criteria and DSB-22 availa	CASE(S) section ed; MWFRS (em 21-11-0, Exterior shown; Lumber see Standard In 3-6-0 tall by 2-0 mber(s):6-10, 12 3 BEFORE USE. component, not n into the overall I permanent bracing ding the bib from Truss Plate	velope) ur(2) DOL=1.60 industry 0-0 wide -22	111111	S52 EER. HEALIN 23,2024 Sad

[Job	Truss	Truss Type	Qty	Ply	GMC/Lot 5 River Rd./Wake
						167769308
	J0824-4611	A3X	GABLE	0	2	
					J	Job Reference (optional)
Comtech, Inc., Fayetteville, NC 28309, RSDGTFD						8.630 s Jun 15 2023 MiTek Industries, Inc. Fri Aug 23 15:34:15 2024 Page 2
				D:Rf2W5u	Vqu9dZy	SjoYfRYfJyV8YtLvEB6Uif5GLRrclb4hZiFtP5xKvgIYIrLZcRSykwUs

NOTES-

- 12) Bottom chord live load (40.0 psf) and additional bottom chord dead load (10.0 psf) applied only to room. 10-12
- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 13 except (jt=lb) 17=334, 8=520, 16=2693.
- 14) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 15) This truss has large uplift reaction(s) from gravity load case(s). Proper connection is required to secure truss against upward movement at the bearings. Building designer must provide for uplift reactions indicated.
- 16) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 5776 lb down and 981 lb up at 35-4-4 on bottom chord. The design/selection of such connection device(s) is the responsibility of others.
- 17) Attic room checked for L/360 deflection.

LOAD CASE(S)

- 1) Dead + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf) Vert: 1-2=-60, 2-4=-60, 4-5=-60, 5-6=-80, 6-9=-60, 12-14=-20, 10-12=-235(F=-195), 10-27=-215(F=-195), 8-27=-20, 5-19=-20, 15-18=-20
 - Drag: 6-10=-10, 12-22=-10
 - Concentrated Loads (lb)
- Vert: 28=-3278(F)
- 2) Dead + 0.75 Roof Live (balanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15
 - Uniform Loads (plf) Vert: 1-2=-50, 2-4=-50, 4-5=-50, 5-6=-70, 6-9=-50, 12-14=-20, 10-12=-417(F=-317), 10-27=-337(F=-317), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-65, 15-29=-20 Drag: 6-10=-10, 12-22=-10
- Concentrated Loads (lb)
- Vert: 28=-5327(F)
- 3) Dead + Uninhabitable Attic Without Storage: Lumber Increase=1.25, Plate Increase=1.25
- Uniform Loads (plf)
 - Vert: 1-2=-20, 2-4=-20, 4-5=-20, 5-6=-40, 6-9=-20, 12-14=-40, 12-27=-186(F=-146), 8-27=-40, 5-19=-20, 15-18=-40
 - Drag: 6-10=-10, 12-22=-10
- Concentrated Loads (lb) Vert: 28=-2458(F)
- 4) Dead + 0.6 C-C Wind (Pos. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
 - Uniform Loads (plf) Vert: 1-24=32, 2-24=25, 2-3=36, 3-4=28, 4-5=32, 5-25=20, 6-25=13, 6-8=25, 8-9=18, 12-14=-12, 10-12=34(F=58), 10-27=46(F=58), 8-27=-12, 5-19=-12, 15-18=-12 Horz: 1-24=-44, 2-24=-37, 4-25=44, 8-25=37, 8-9=30
 - Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10
- Concentrated Loads (lb)
- Vert: 28=981(F)
- 5) Dead + 0.6 C-C Wind (Pos. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
- Vert: 1-23=25, 2-23=32, 2-3=28, 3-4=36, 4-5=25, 5-6=13, 6-26=25, 8-26=32, 8-9=55, 12-14=-12, 10-12=34(F=58), 10-27=46(F=58), 8-27=-12, 5-19=-12, 15-18=-12 Horz: 1-23=-37, 2-23=-44, 4-26=37, 8-26=44, 8-9=67
 - Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10
- Concentrated Loads (lb) Vert: 28=981(F
- 6) Dead + 0.6 C-C Wind (Neg. Internal) Case 1: Lumber Increase=1.60, Plate Increase=1.60
- Uniform Loads (plf)
 - Vert: 1-2=-57, 2-4=-34, 4-5=-57, 5-6=-77, 6-8=-57, 8-9=-50, 12-14=-20, 10-12=-227(F=-187), 10-27=-207(F=-187), 8-27=-20, 5-19=-20, 15-18=-20 Horz: 1-2=37, 4-8=-37, 8-9=-30
 - Drag: 2-3=0, 3-4=-0, 6-10=-10, 12-22=-10
- Concentrated Loads (lb)
- Vert: 28=-3143(F)

7) Dead + 0.6 C-C Wind (Neg. Internal) Case 2: Lumber Increase=1.60, Plate Increase=1.60

- Uniform Loads (plf)
 - Vert; 1-2=-57, 2-4=-34, 4-5=-57, 5-6=-77, 6-8=-57, 8-9=10, 12-14=-20, 10-12=-227(F=-187), 10-27=-207(F=-187), 8-27=-20, 10-12=-227(F=-187), 10-27=-207(F=-187), 10-27(F=-187), 10-27(F=-18
 - 5-19=-20, 15-18=-20
 - Horz: 1-2=37, 4-8=-37, 8-9=30
 - Drag: 2-3=0, 3-4=-0, 6-10=-10, 12-22=-10
- Concentrated Loads (lb)
- Vert: 28=-3143(F)

8) Dead + 0.6 MWFRS Wind (Pos. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)

Vert; 1-2=-13, 2-4=21, 4-5=11, 5-6=-1, 6-8=11, 8-9=4, 12-14=-12, 10-12=-3(F=21), 10-27=9(F=21), 8-27=-12, 5-19=-12,

- 15 18 = -12
 - Horz: 1-2=1, 4-8=23, 8-9=16 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10
- Concentrated Loads (lb)
- Vert: 28=352(F)
- 9) Dead + 0.6 MWFRS Wind (Pos. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf)
 - Vert: 1-2=11, 2-4=21, 4-5=-13, 5-6=-25, 6-8=-13, 8-9=2, 12-14=-12, 10-12=-3(F=21), 10-27=9(F=21), 8-27=-12, 5-19=-10
 - 15-18=-12
 - Horz: 1-2=-23, 4-8=-1, 8-9=14
 - Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10
 - Concentrated Loads (lb)
- Vert: 28=352(F)

10) Dead + 0.6 MWFRS Wind (Neg. Internal) Left: Lumber Increase=1.60, Plate Increase=1.60

Continued on page 3

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Job	Truss	Truss Type	Qty	Ply	GMC/Lot 5 River Rd./Wake
J0824-4611	A3X	GABLE	0	2	167769308
				J	Job Reference (optional)

Comtech, Inc., Fayetteville, NC 28309, RSDGTFD

8.630 s Jun 15 2023 MiTek Industries, Inc. Fri Aug 23 15:34:15 2024 Page 3 ID:Rf2W5uVqu9dZySjoYfRYfJyV8Y_-tLvEB6Uif5GLRrclb4hZiFtP5xKvglYIrLZcRSykwUs

LOAD CASE(S) Uniform Loads (plf) Vert: 1-2=-35, 2-4=-1, 4-5=-11, 5-6=-31, 6-8=-11, 8-9=-4, 12-14=-20, 10-12=-173(F=-133), 10-27=-153(F=-133), 8-27=-20, 5-19=-20, 15-18=-20 Horz: 1-2=15, 4-8=9, 8-9=16 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-2238(F) 11) Dead + 0.6 MWFRS Wind (Neg. Internal) Right: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-11, 2-4=-1, 4-5=-35, 5-6=-55, 6-8=-35, 8-9=-28, 12-14=-20, 10-12=-173(F=-133), 10-27=-153(F=-133), 8-27=-20, 5-19=-20, 15-18=-20, 10-12=-173(F=-133), 10-27=-153(F=-133), 10-27 Horz: 1-2=-9, 4-8=-15, 8-9=-8 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-2238(F) 12) Dead + 0.6 MWFRS Wind (Pos. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=21, 2-4=9, 4-5=9, 5-6=-3, 6-8=9, 8-9=2, 12-14=-12, 10-12=-3(F=21), 10-27=9(F=21), 8-27=-12, 5-19=-12. 15-18=-12 Horz: 1-2=-33, 4-8=21, 8-9=14 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=352(F) 13) Dead + 0.6 MWFRS Wind (Pos. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2-9, 2-4=9, 4-5=21, 5-6=9, 6-8=21, 8-9=14, 12-14=-12, 10-12=-3(F=21), 10-27=9(F=21), 8-27=-12, 5-19=-12, 15-18=-12 Horz: 1-2=-21, 4-8=33, 8-9=26 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=352(F) 14) Dead + 0.6 MWFRS Wind (Pos. Internal) 3rd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=21, 2-4=9, 4-5=9, 5-6=-3, 6-8=9, 8-9=2, 12-14=-12, 10-12=-3(F=21), 10-27=9(F=21), 8-27=-12, 5-19=-12, 15-18=-12 Horz: 1-2=-33, 4-8=21, 8-9=14 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=352(F) 15) Dead + 0.6 MWFRS Wind (Pos. Internal) 4th Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=9, 2-4=9, 4-5=21, 5-6=9, 6-8=21, 8-9=14, 12-14=-12, 10-12=-3(F=21), 10-27=9(F=21), 8-27=-12, 5-19=-12, 15-18=-12 Horz: 1-2=-21, 4-8=33, 8-9=26 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=352(F 16) Dead + 0.6 MWFRS Wind (Neg. Internal) 1st Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-1, 2-4=-13, 4-5=-13, 5-6=-33, 6-8=-13, 8-9=-6, 12-14=-20, 10-12=-154(F=-114), 10-27=-134(F=-114), 8-27=-20, 5-19=-20, 15-18=-20 Horz: 1-2=-19, 4-8=7, 8-9=14 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-1915(F 17) Dead + 0.6 MWFRS Wind (Neg. Internal) 2nd Parallel: Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-13, 2-4=-13, 4-5=-1, 5-6=-21, 6-8=-1, 8-9=6, 12-14=-20, 10-12=-154(F=-114), 10-27=-134(F=-114), 8-27=-20, 10-12=-154(F=-114), 10-27=-134(F=-114), 10-27=-13 5-19=-20, 15-18=-20 Horz: 1-2=-7, 4-8=19, 8-9=26 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-1915(F) 18) Dead + Uninhab. Attic Storage + Attic Floor: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-2=-20, 2-4=-20, 4-5=-20, 5-6=-40, 6-9=-20, 12-14=-20, 10-12=-412(F=-292), 10-27=-312(F=-292), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-80, 15-29=-20 Drag: 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-4917(F) 19) Dead + Uninhabitable Attic Storage: Lumber Increase=1.00, Plate Increase=1.00 Uniform Loads (plf) Vert: 1-2=-20, 2-4=-20, 4-5=-20, 5-6=-40, 6-9=-20, 12-14=-20, 10-12=-412(F=-292), 10-27=-312(F=-292), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-80, 15-29=-20 Drag: 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-4917(F) 20) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Left): Lumber Increase=1.60, Plate Increase=1.60

Continued on page 4

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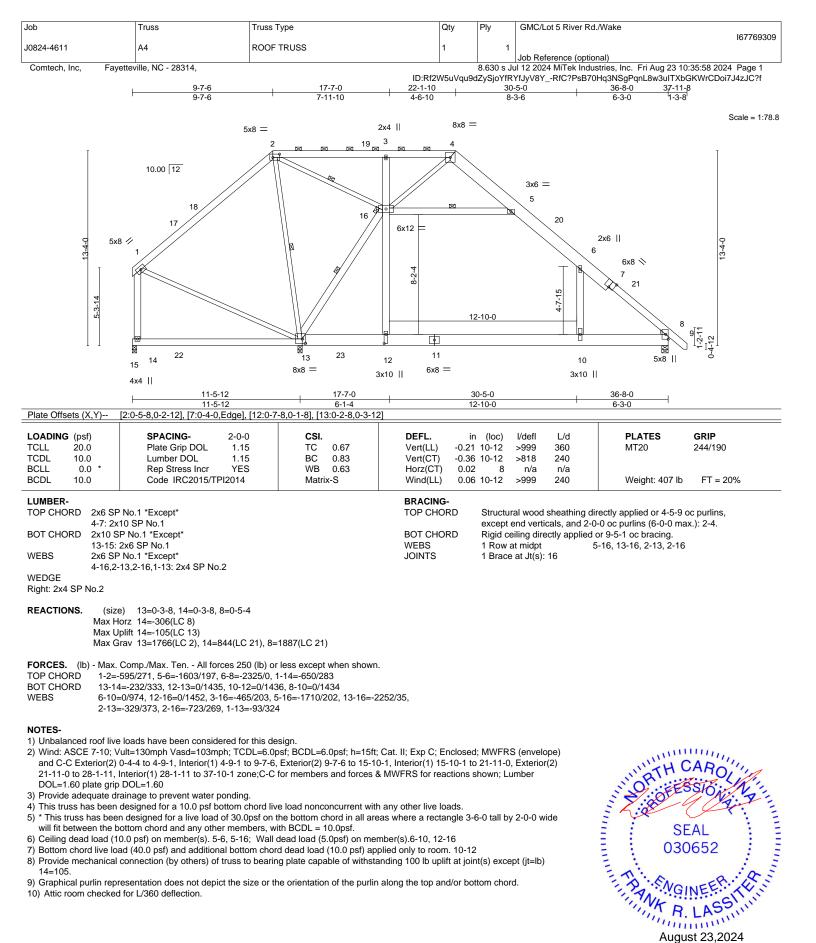
Job	Truss	Truss Type	Qty	Plv	GMC/Lot 5 River Rd./Wake
					167769308
					107703308
J0824-4611	A3X	GABLE	0	2	
				<u> </u>	Job Reference (optional)
Contech Inc. Eavetteville NC 28309 RSDGTED					8 630 s Jun 15 2023 MiTek Industries Inc. Fri Aug 23 15:34:15 2024 Page 4

8.630 s Jun 15 2023 MiTek Industries, Inc. Fri Aug 23 15:34:15 2024 Page ID:Rf2W5uVqu9dZySjoYfRYfJyV8Y_-tLvEB6Uif5GLRrclb4hZiFtP5xKvglYIrLZcRSykwUs

LOAD CASE(S) Uniform Loads (plf) Vert: 1-2=-61, 2-4=-36, 4-5=-43, 5-6=-63, 6-8=-43, 8-9=-38, 12-14=-20, 10-12=-444(F=-344), 10-27=-364(F=-344), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-65, 10-12=-444(F=-344), 10-27=-364(F=-344), 10-27=-364), 10-27=-364(F=-344), 10-27=-364), 10-27=-364(F=-344), 10-27=-364), 10-27=-364(F=-344), 10-27=-364), 10-27=-364(F=-344), 10-27=-364), 10-27=-364(F=-364), 10-27=-364), 10-27=-364(F=-364), 10-27=-364), 10-27=-364(F=-364), 10-27=-364), 10-27=-364), 10-27=-364(F=-36 15-29=-20 Horz: 1-2=11, 4-8=7, 8-9=12 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-5776(F) 21) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) Right): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-43, 2-4=-36, 4-5=-61, 5-6=-81, 6-8=-61, 8-9=-56, 12-14=-20, 10-12=-444(F=-344), 10-27=-364(F=-344), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-65, 12-14=-20, 10-12=-444(F=-344), 10-27=-364(F=-344), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-65, 12-14=-20, 10-12=-444(F=-344), 10-27=-364(F=-344), 10-27=-20, 10-12=-20, 15-29=-20 Horz: 1-2=-7, 4-8=-11, 8-9=-6 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-5776(F) 22) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 1st Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-36, 2-4=-45, 4-5=-45, 5-6=-65, 6-8=-45, 8-9=-40, 12-14=-20, 10-12=-429(F=-329), 10-27=-349(F=-329), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-65, 6-8=-45, 8-9=-40, 12-14=-20, 10-12=-429(F=-329), 10-27=-349(F=-329), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-65, 6-8=-45, 8-9=-40, 12-14=-20, 10-12=-429(F=-329), 10-27=-349(F=-329), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-65, 6-8=-45, 8-9=-40, 12-14=-20, 10-12=-429(F=-329), 10-27=-349(F=-329), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-65, 6-8=-45, 8-9=-40, 12-14=-20, 10-12=-429(F=-329), 10-27=-349(F=-329), 10-27=-349(15-29=-20 Horz: 1-2=-14, 4-8=5, 8-9=10 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-5534(F) 23) Dead + 0.75 Roof Live (bal.) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor + 0.75(0.6 MWFRS Wind (Neg. Int) 2nd Parallel): Lumber Increase=1.60, Plate Increase=1.60 Uniform Loads (plf) Vert: 1-2=-45, 2-4=-45, 4-5=-36, 5-6=-56, 6-8=-36, 8-9=-31, 12-14=-20, 10-12=-429(F=-329), 10-27=-349(F=-329), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-65, 10-27=-349(F=-329), 10-27=-349(F= 15-29=-20Horz: 1-2=-5, 4-8=14, 8-9=19 Drag: 2-3=-0, 3-4=0, 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-5534(F) 24) 1st Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-60, 2-4=-60, 4-5=-20, 5-6=-40, 6-9=-20, 12-14=-20, 10-12=-235(F=-195), 10-27=-215(F=-195), 8-27=-20, 5-19=-20, 15-18=-20 Drag: 6-10=-10, 12-22=-10 Concentrated Loads (Ib) Vert: 28=-3278(F) 25) 2nd Dead + Roof Live (unbalanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-20, 2-4=-60, 4-5=-60, 5-6=-80, 6-9=-60, 12-14=-20, 10-12=-235(F=-195), 10-27=-215(F=-195), 8-27=-20, 5-19=-20, 15-18=-20 Drag: 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-3278(F) 26) 3rd Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-50, 2-4=-50, 4-5=-20, 5-6=-40, 6-9=-20, 12-14=-20, 10-12=-417(F=-317), 10-27=-337(F=-317), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-65, 15-29=-20, 12-14=-20, Drag: 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-5327(F) 27) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage + 0.75 Attic Floor: Lumber Increase=1.15, Plate Increase=1 15 Uniform Loads (plf) Vert: 1-2=-20, 2-4=-50, 4-5=-50, 5-6=-70, 6-9=-50, 12-14=-20, 10-12=-417(F=-317), 10-27=-337(F=-317), 8-27=-20, 5-19=-20, 17-18=-20, 17-29=-65, 15-29=-20 Drag: 6-10=-10, 12-22=-10 Concentrated Loads (lb) Vert: 28=-5327(F)

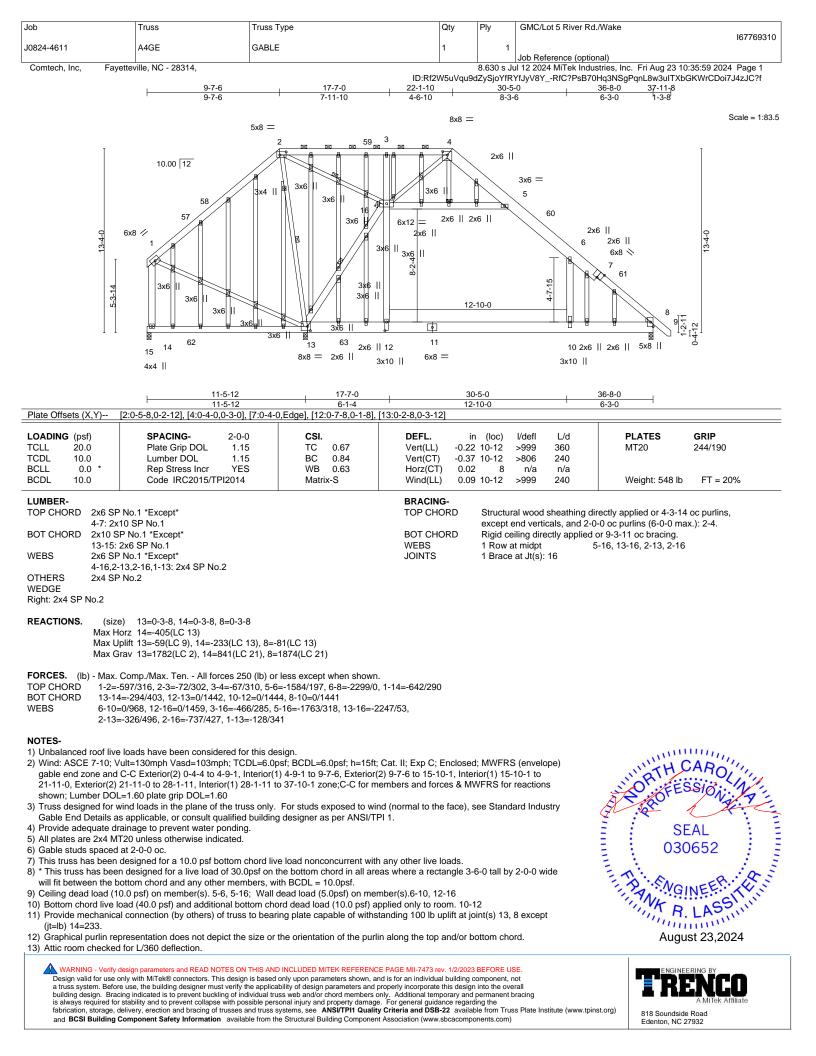
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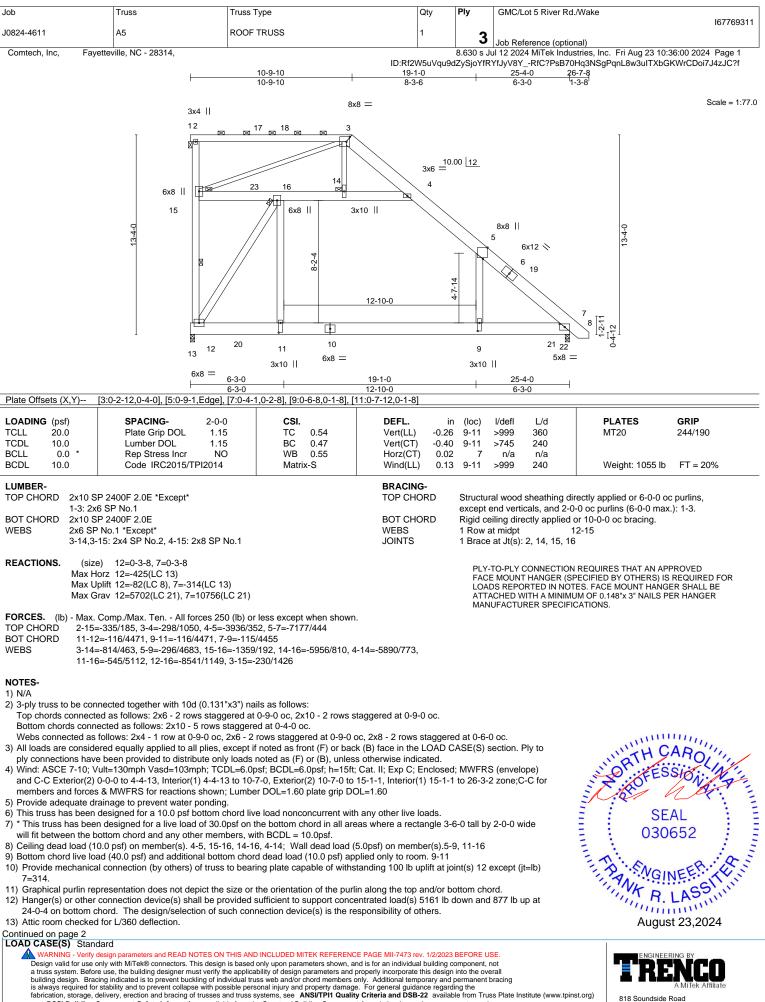




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and BCSI Building Component Safety Information available from the Structural Building Component Association (www.sbcacomponents.com)

Edenton, NC 27932

Job		Truss	Truss Type	Qty	Ply	GMC/Lot 5 River Rd./Wake
10004 4044						I67769311
J0824-4611		A5	ROOF TRUSS	1	3	
					•	Job Reference (optional)
Comtech, Inc,	Fayettev	/ille, NC - 28314,			8.630 s Ju	Il 12 2024 MiTek Industries, Inc. Fri Aug 23 10:36:00 2024 Page 2
			10	D:Rf2W5uVqu9o	ZySjoYfR'	YfJyV8YRfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

Uniform Loads (plf)

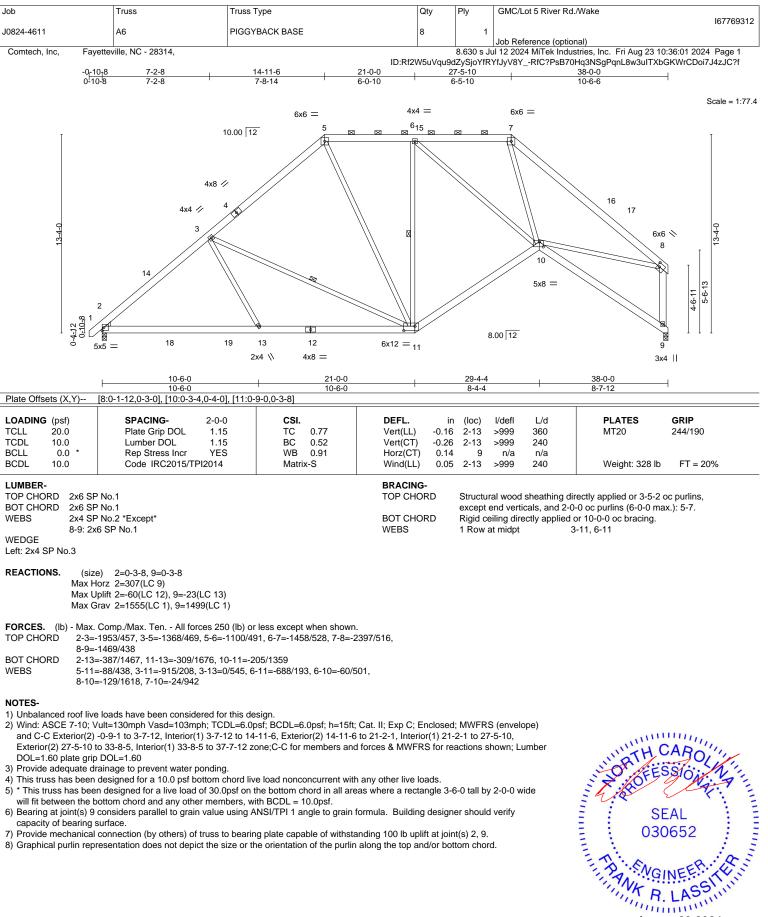
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 4-5=-80, 5-8=-60, 11-13=-20, 9-11=-235(F=-195), 9-22=-215(F=-195), 7-22=-20, 4-15=-20 Drag: 5-9=-10, 11-16=-10

Concentrated Loads (lb)

Vert: 21=-2929(B) 23=-728(B)

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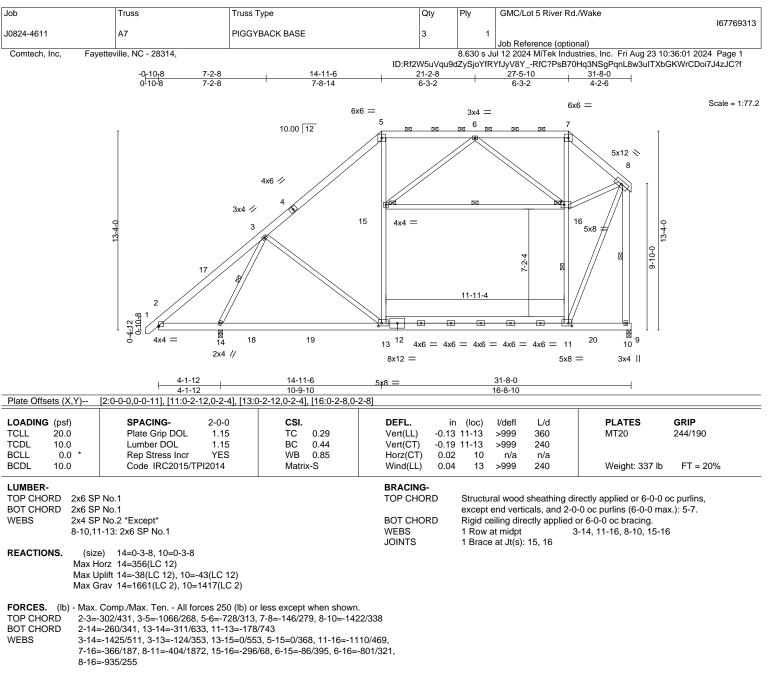




August 23,2024

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TRENCO A MiTek Affiliate



NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-9-1 to 3-7-12, Interior(1) 3-7-12 to 14-11-6, Exterior(2) 14-11-6 to 21-2-8, Interior(1) 21-2-8 to 27-5-10, Exterior(2) 27-5-10 to 31-5-15 zone; cantilever left exposed ;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Provide adequate drainage to prevent water ponding.

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

5) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14, 10.

7) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.

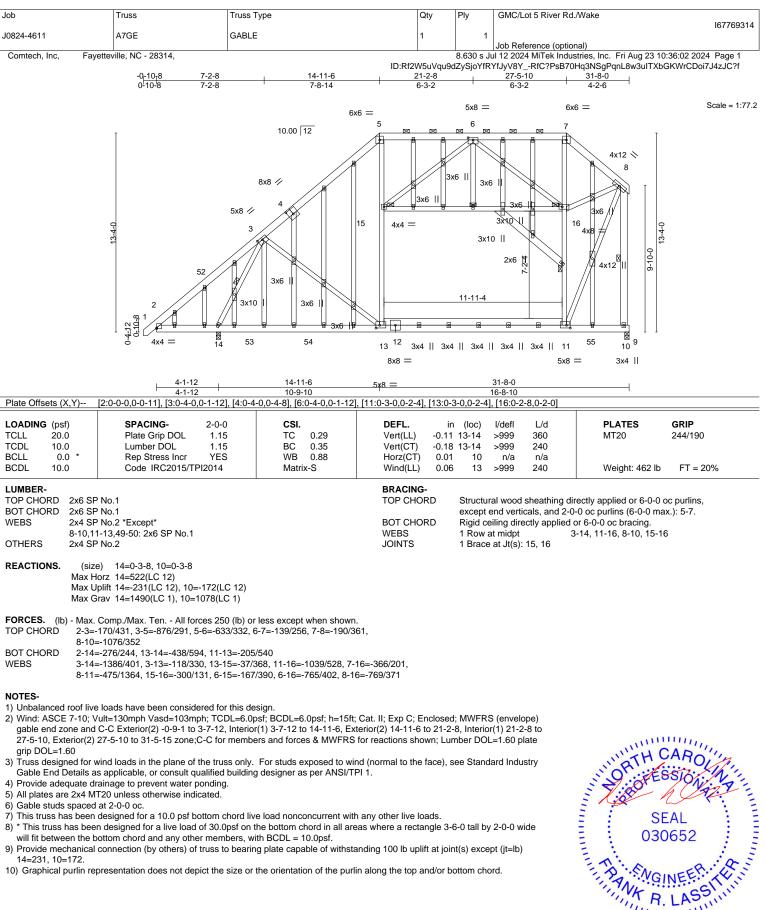


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818 Soundside Road

Edenton, NC 27932

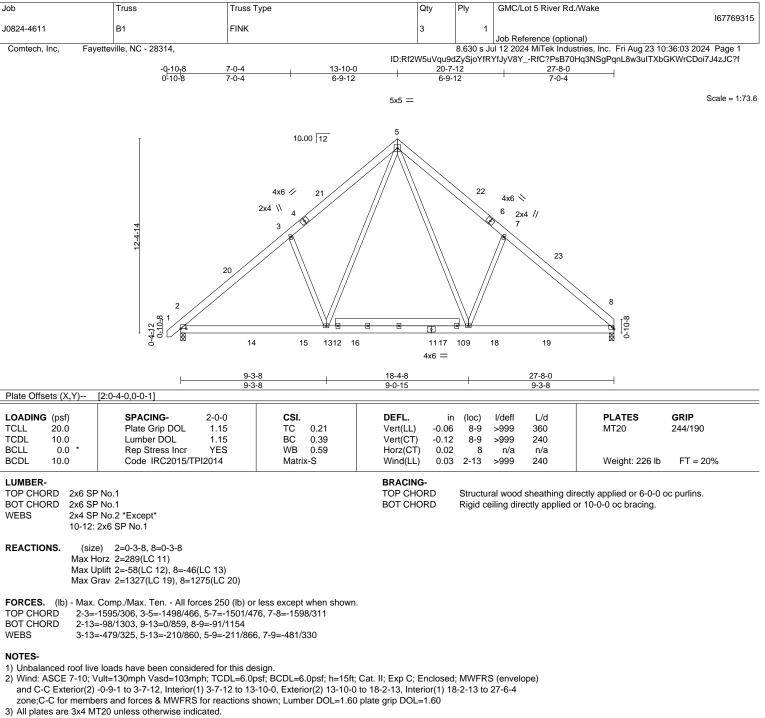


10) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.



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

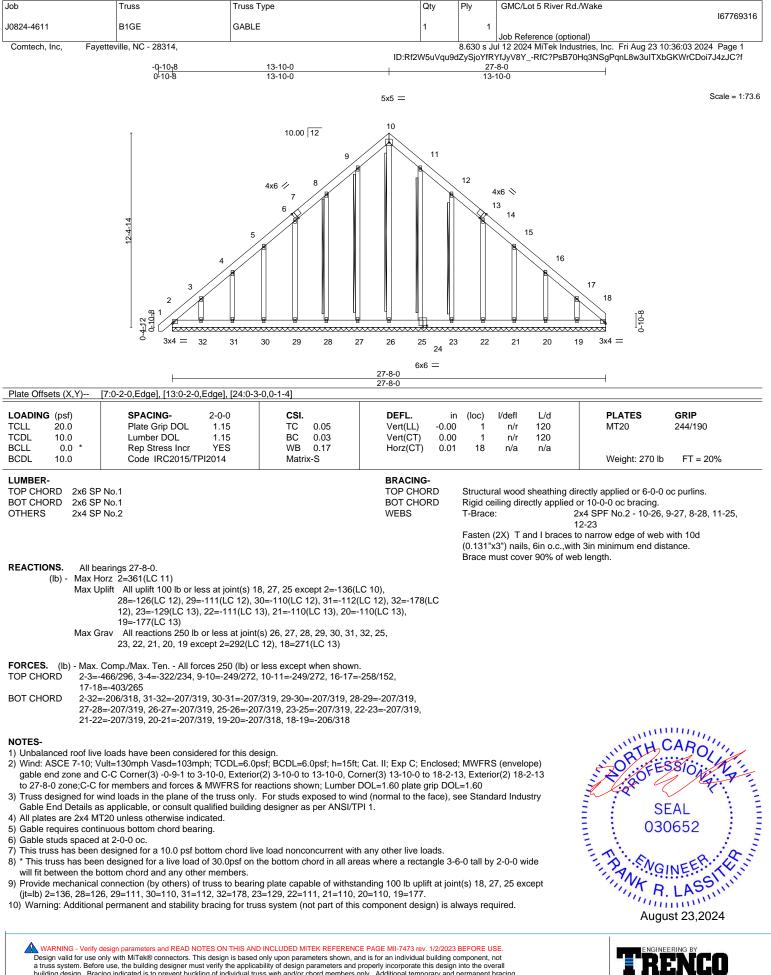
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.

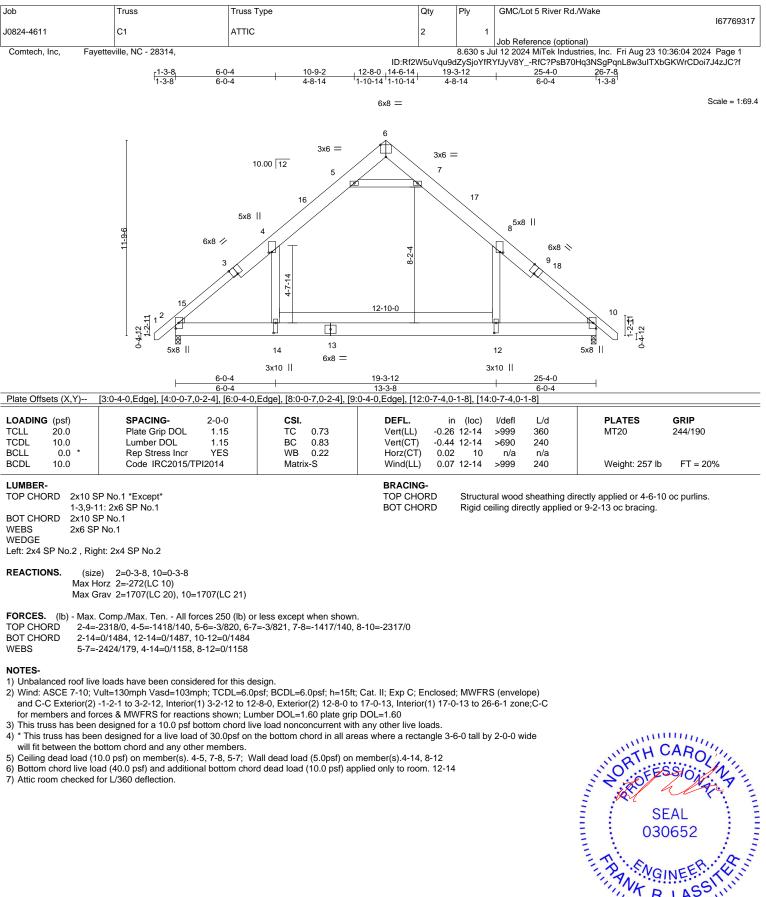


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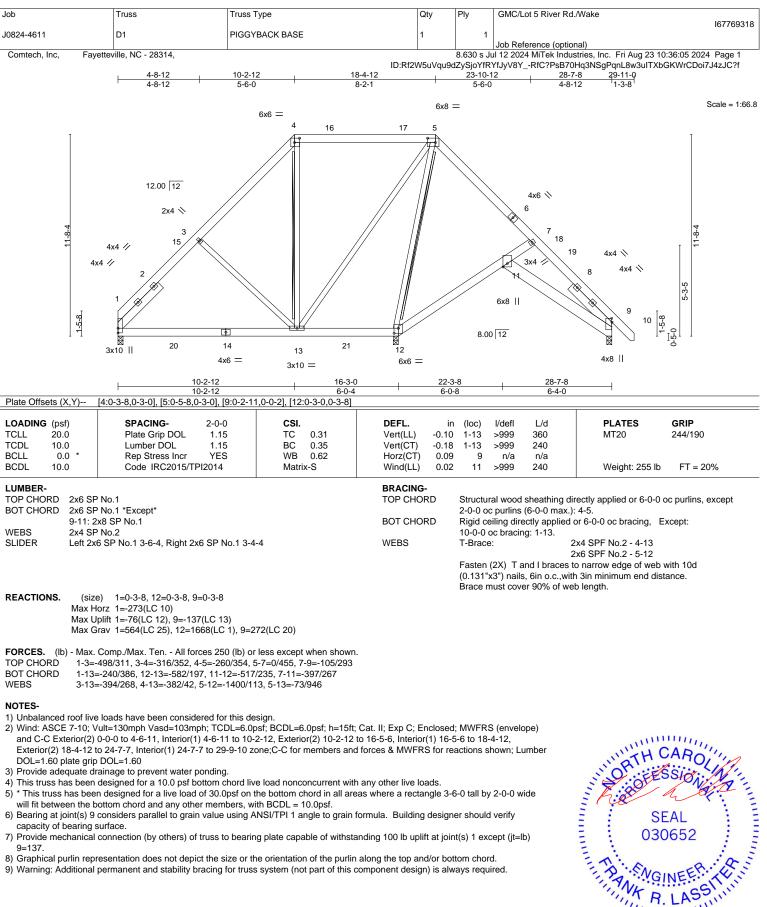
building design. Bracing indicated is to prevent buckling of individual truss web and/or chord members only. Additional temporary and permanent bracing is always required for stability and to prevent collapse with possible personal injury and property damage. For general guidance regarding the fabrication, storage, delivery, erection and bracing of trusses and truss systems, see **ANSI/TPI1 Quality Criteria and DSB-22** available from Truss Plate Institute (www.tpinst.org) and **BCSI Building Component Safety Information** available from the Structural Building Component Association (www.sbcacomponents.com)





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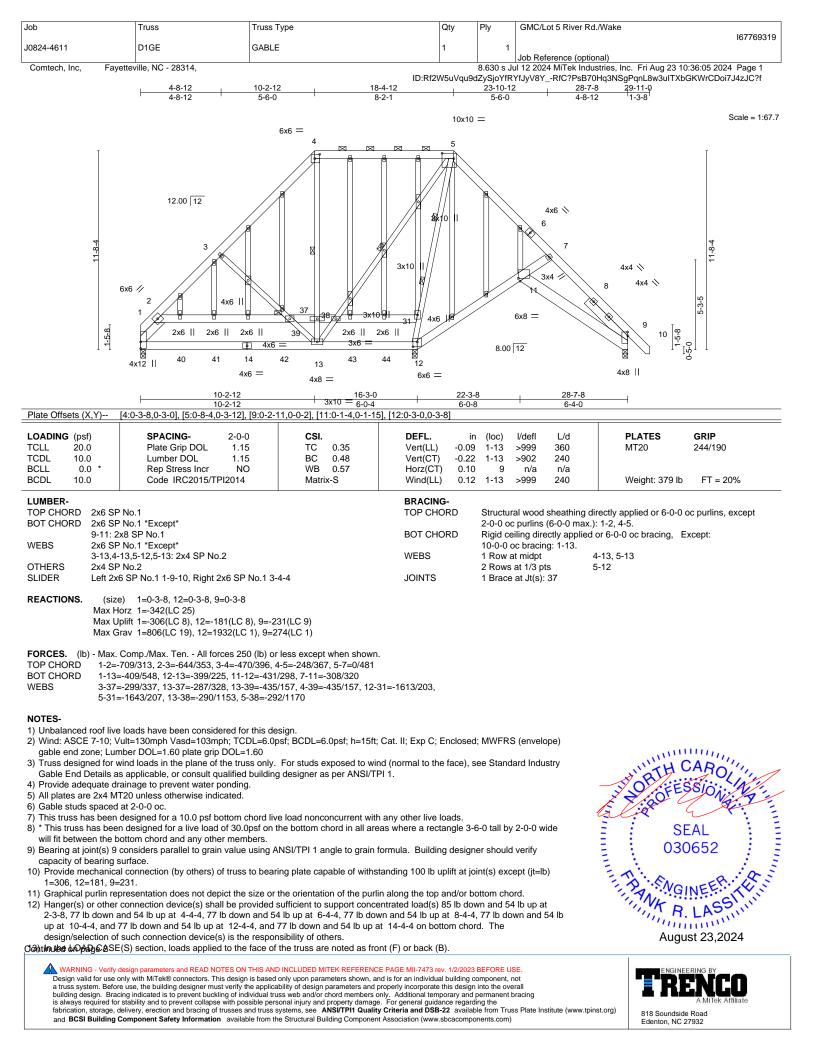
818 Soundside Road Edenton, NC 27932



- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 9 = 137
- 8) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
- 9) Warning: Additional permanent and stability bracing for truss system (not part of this component design) is always required.



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Job	Truss	Truss Type	Qty	Ply	GMC/Lot 5 River Rd./Wake
					I67769319
J0824-4611	D1GE	GABLE	1	1	
					Job Reference (optional)
Comtech, Inc, Fayetteville, NC - 28314,				8.630 s Ju	Il 12 2024 MiTek Industries, Inc. Fri Aug 23 10:36:05 2024 Page 2

8.630 s Jul 12 2024 MiTek Industries, Inc. Fri Aug 23 10:36:05 2024 Page 2 ID:Rf2W5uVqu9dZySjoYfRYfJyV8Y_-RfC?PsB70Hq3NSgPqnL8w3uITXbGKWrCDoi7J4zJC?f

LOAD CASE(S) Standard

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

Vert: 1-4=-60, 4-5=-60, 5-10=-60, 1-12=-20, 11-12=-20, 9-11=-20 Concentrated Loads (lb)

Vert: 14=-77(F) 13=-77(F) 40=-85(F) 41=-77(F) 42=-77(F) 43=-77(F) 44=-77(F)

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Job	Truss	Truss Type	Qty	Ply	GMC/Lot 5 River Rd./	Wake	107700000
10824-4611	D2	ROOF SPECIAL	1		1		167769320
					Job Reference (option	al)	
Comtech, Inc, F	ayetteville, NC - 28314,				Jul 12 2024 MiTek Indust fRYfJyV8YRfC?PsB70H		
		6-4-0	12-8-0	13-11-8		Iq3N3gFqI1L6w3u11Ab	GRWICD01/ J42JC ?1
		6-4-0	6-4-0	1-3-8			
		1					Scale = 1:78.6
		2					
		12.00 <u>12</u>					
		10	4x8 📎				
			3				
			\				
		8-1-41	$\langle \rangle$				
			4				
			11	4x4 🚿	I		
			4x6 / 5	4x4 📏			
					ហ្		
			x8		5-3-5		
		°		6	[œ		
		8.00			1- -0- 1- -0-		
					6		
		9 3x4 =		4x8			
		6-4-0	<u>12-8-0</u> 6-4-0				
Plate Offsets (X,Y)	[4:0-3-15,0-1-15], [6:0-2-11,0-						
LOADING (psf)	SPACING- 2-	0-0 CSI .	DEFL.	in (loc)	l/defl L/d	PLATES	GRIP
TCLL 20.0		15 TC 0.43		19 8-9	>742 360	MT20	244/190
TCDL 10.0		15 BC 0.78	Vert(CT) -0	42 8-9	>342 240		
BCLL 0.0 *		ES WB 0.00		54 6	n/a n/a	Waiaht 404 lh	FT 200/
BCDL 10.0	Code IRC2015/TPI20	4 Matrix-R	Wind(LL) -0	16 8-9	>926 240	Weight: 131 lb	FT = 20%
LUMBER-			BRACING-				
	P CHORD 2x6 SP No.1 T CHORD 2x6 SP No.1 *Except*		TOP CHORD	Struct	Structural wood sheathing directly applied or 6-0-0		oc purlins,
	SP No.1 *Except* 2x8 SP No.1		except end verticals. BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.			r 6-0-0 oc bracing	
	SP No.1		WEBS		at midpt 2-		
SLIDER Right	t 2x6 SP No.1 3-4-4				·		

REACTIONS. (size) 9=0-3-8, 6=0-3-8 Max Horz 9=-446(LC 13) Max Uplift 9=-300(LC 13)

Max Grav 9=581(LC 20), 6=575(LC 1)

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

 TOP CHORD
 2-9=-346/230, 4-6=-808/63

BOT CHORD 8-9=-646/658, 4-8=-504/421, 6-8=-168/611

NOTES-

 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-0-0 to 4-4-13, Interior(1) 4-4-13 to 13-10-2 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Bearing at joint(s) 9, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

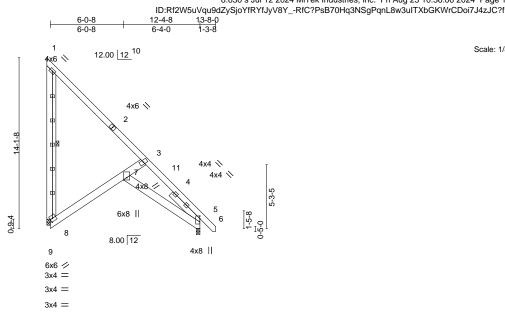
5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=300.

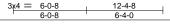
SEAL 030652 August 23,2024

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ENGINEERING BY A MiTek Affiliate

Job	Truss	Truss Type	Qty	Ply	GMC/Lot 5 River Rd./Wake
J0824-4611	D3	ROOF SPECIAL	3	1	I67769321
00021 1011	50		Ŭ		Job Reference (optional)
Comtech, Inc, Fayetteville, NC - 28314,				8.630 s Ju	Il 12 2024 MiTek Industries, Inc. Fri Aug 23 10:36:06 2024 Page 1





OADING (psf)	SPACING- 2-0-0	³č∕sī.	DEFL. ir	n (loc)	l/defl	L/d	PLATES	GRIP
TCLL 20.0	Plate Grip DOL 1.15	TC 0.31	Vert(LL) -0.09	7-8	>999	360	MT20	244/190
TCDL 10.0	Lumber DOL 1.15	BC 0.51	Vert(CT) -0.20	7-8	>722	240		
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.25	5	n/a	n/a		
BCDL 10.0	Code IRC2015/TPI2014	Matrix-R	Wind(LL) -0.06	7-8	>999	240	Weight: 155 lb	FT = 20%

TOP CHORD

BOT CHORD

WEBS

LUMBER-

TOP CHORD	2x6 SP No.1
BOT CHORD	2x8 SP No.1
WEBS	2x4 SP No.2 *Except*
	1-8: 2x6 SP No.1
SLIDER	Right 2x6 SP No.1 3-4-4

Plate Offsets (X Y)-- [5:0-2-11 0-0-2] [8:0-2-6 0-3-0]

REACTIONS. (size) 8=0-3-8, 5=0-3-8 Max Horz 8=-429(LC 13) Max Uplift 8=-256(LC 13)

Max Grav 8=546(LC 20), 5=566(LC 1)

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

1-8=-300/226, 3-5=-798/10 BOT CHORD 7-8=-613/600, 3-7=-495/382, 5-7=-135/590

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-3-12 to 4-8-9, Interior(1) 4-8-9 to 13-6-10 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

4) Bearing at joint(s) 8, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=256.



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

1-8

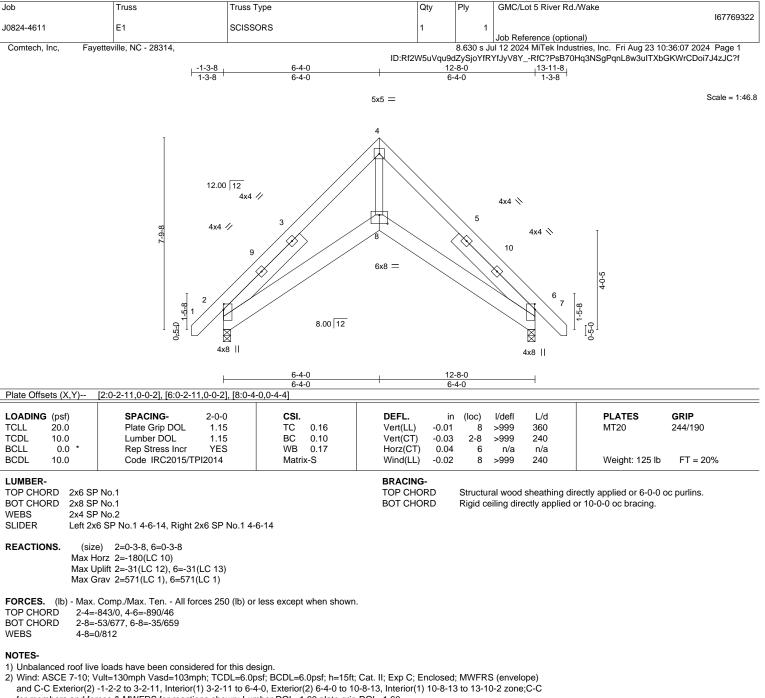
Rigid ceiling directly applied or 6-0-0 oc bracing.

except end verticals.

1 Row at midpt

Scale: 1/8"=1

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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) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

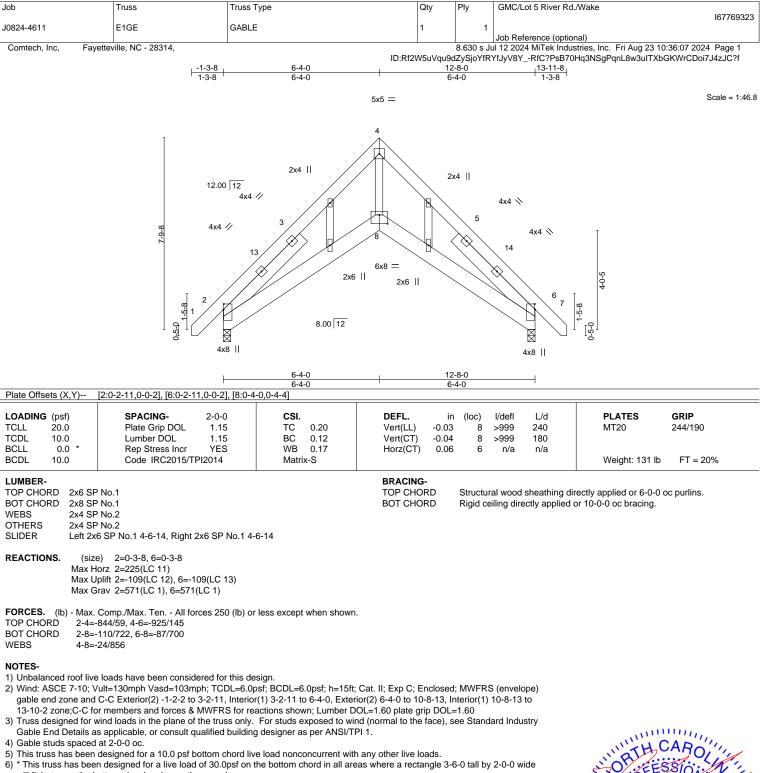
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.



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TRENCO

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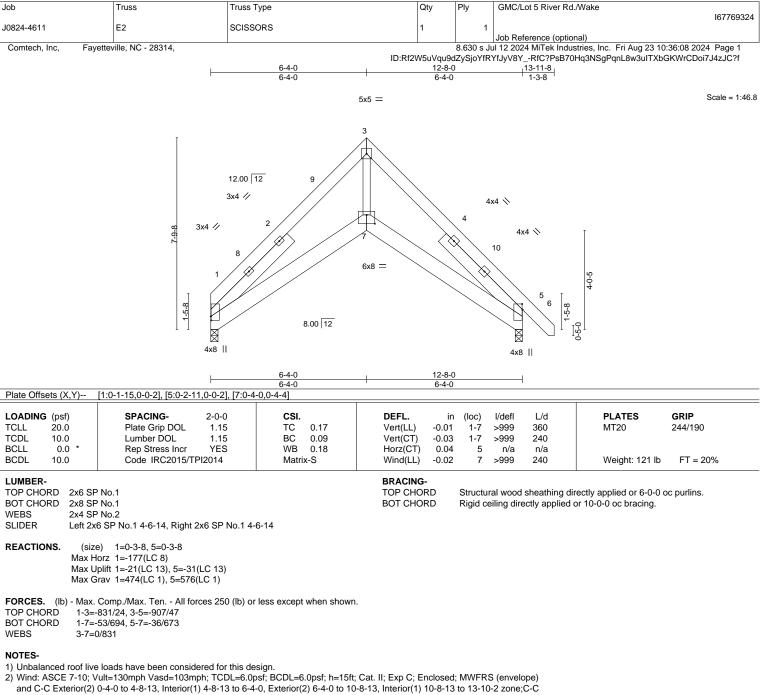
will fit between the bottom chord and any other members.

7) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=109, 6=109.

The state of the s ROBIL SEAL 030652 minim August 23,2024

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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.

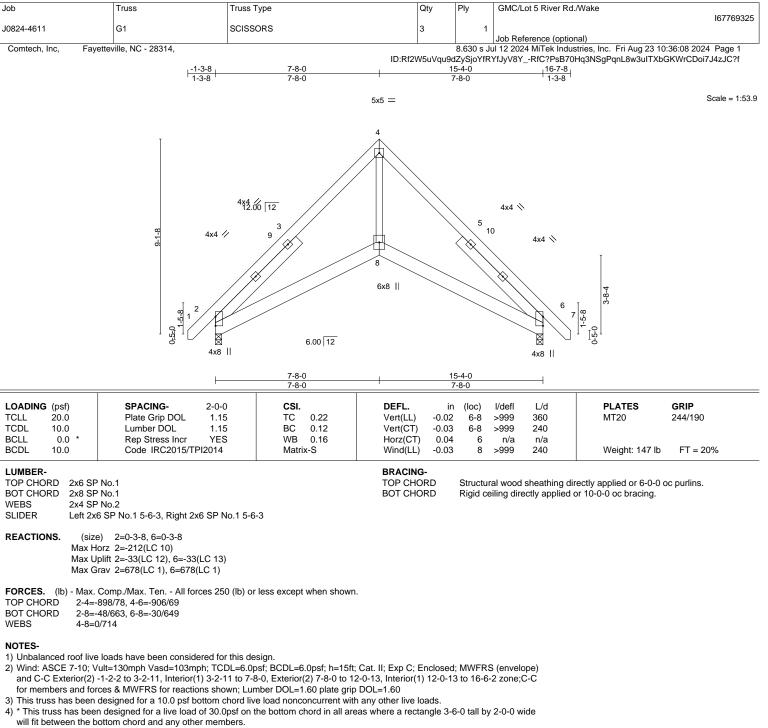
4) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

5) Bearing at joint(s) 1, 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.



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5) Bearing at joint(s) 2, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.

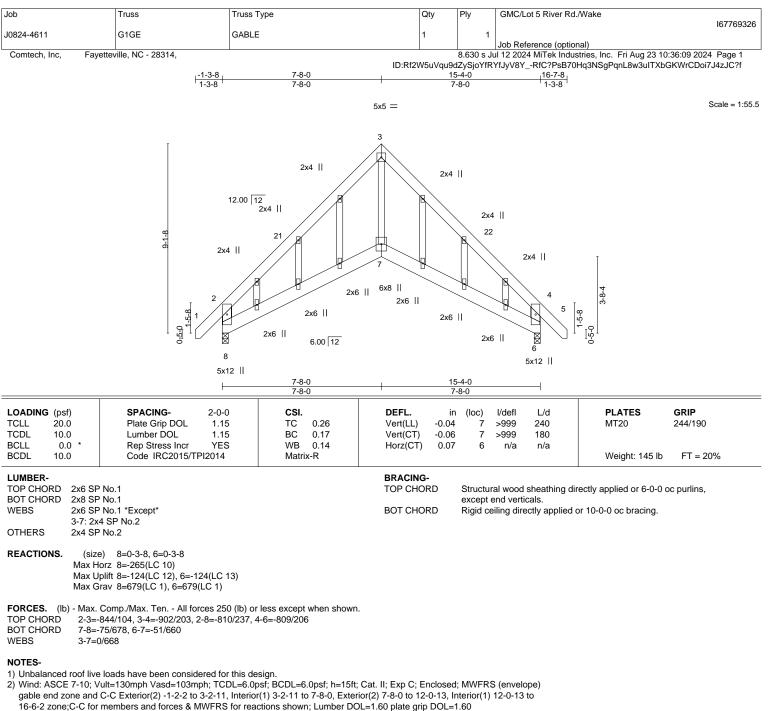


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3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Gable studs spaced at 2-0-0 oc.

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

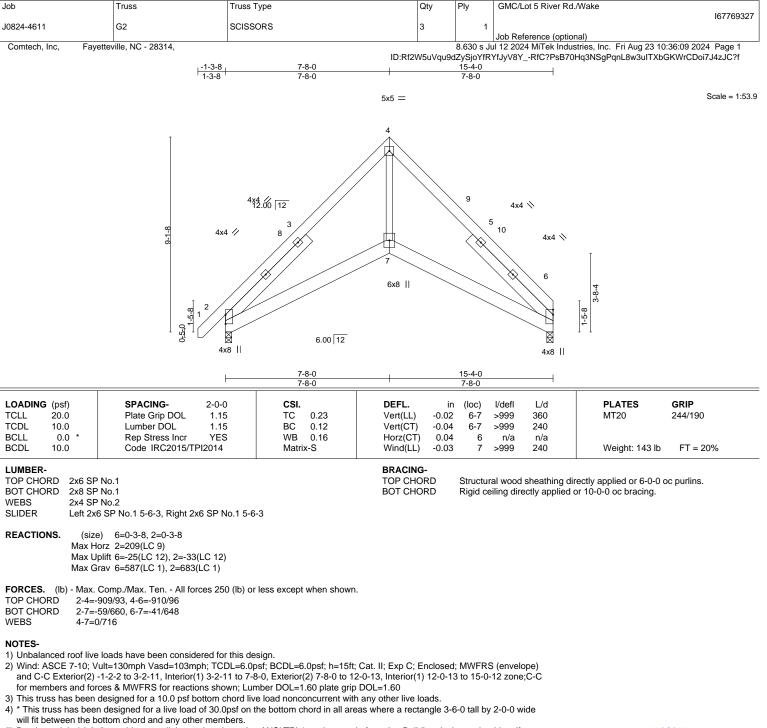
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

7) Bearing at joint(s) 8, 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 8=124, 6=124.



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5) Bearing at joint(s) 6, 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.

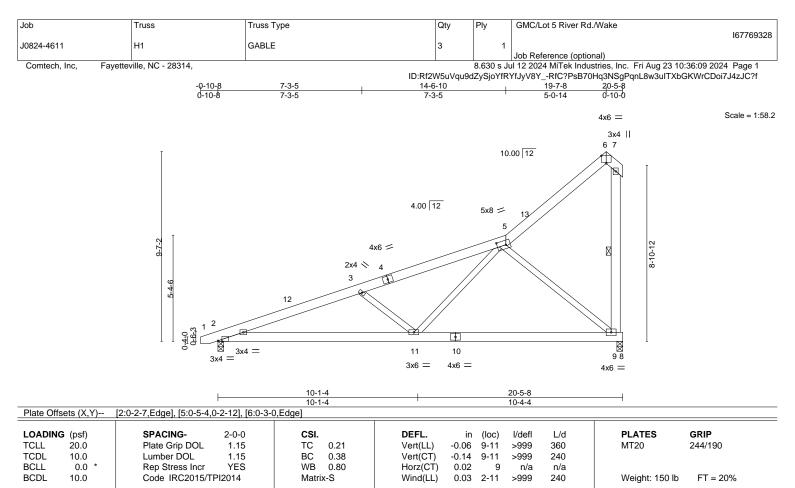
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 2.



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LUMBER-		BRACING-	
LOWBER-		BRACING-	
TOP CHORD	2x6 SP No.1	TOP CHORD	Structural wood shea
BOT CHORD	2x6 SP No.1		except end verticals.
WEBS	2x4 SP No.2 *Except*	BOT CHORD	Rigid ceiling directly a
	7-9: 2x6 SP No.1	WEBS	1 Row at midpt

Structural wood sheathing directly applied or 5-9-0 oc purlins, except end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. 1 Row at midpt 7-9

REACTIONS. (size) 9=0-3-8, 2=0-3-8 Max Horz 2=292(LC 12) Max Uplift 9=-139(LC 12), 2=-76(LC 8) Max Grav 9=805(LC 1), 2=847(LC 1)

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

TOP CHORD 2-3=-1727/148, 3-5=-1337/37

BOT CHORD 2-11=-406/1593, 9-11=-175/658

WEBS 3-11=-518/268, 5-11=-50/791, 5-9=-852/227

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-13 to 3-9-0, Interior(1) 3-9-0 to 19-7-8, Exterior(2) 19-7-8 to 20-1-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

4) Gable studs spaced at 2-0-0 oc.

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

6) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 9=139.

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

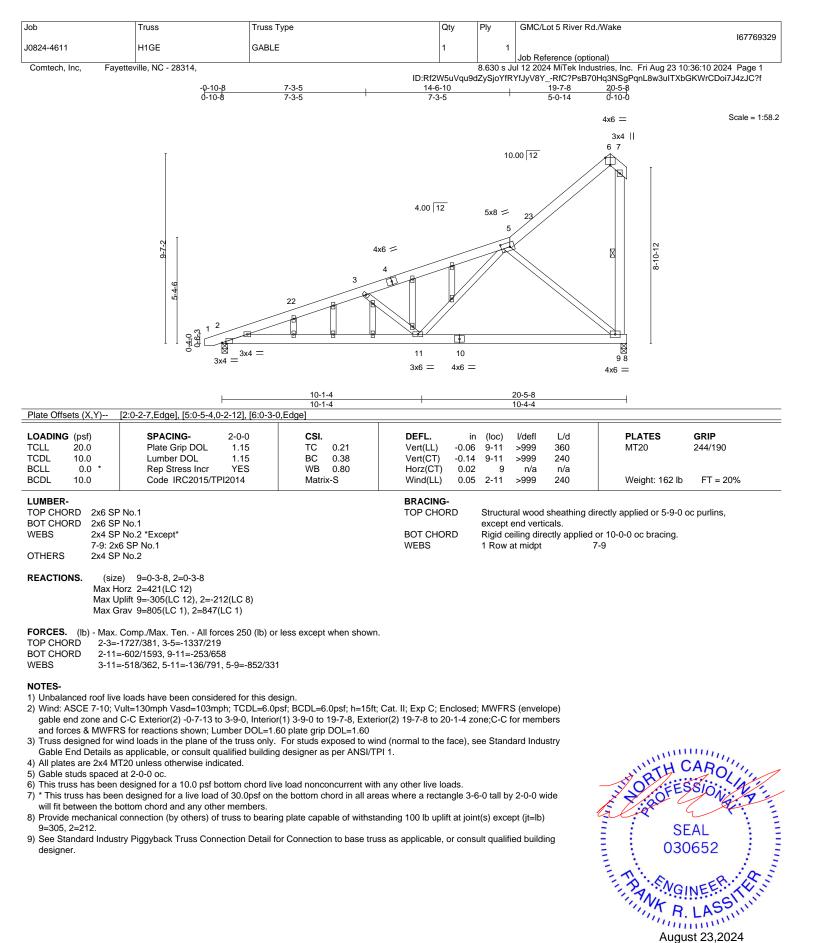


A MiTek Affiliat

818 Soundside Road

Edenton, NC 27932

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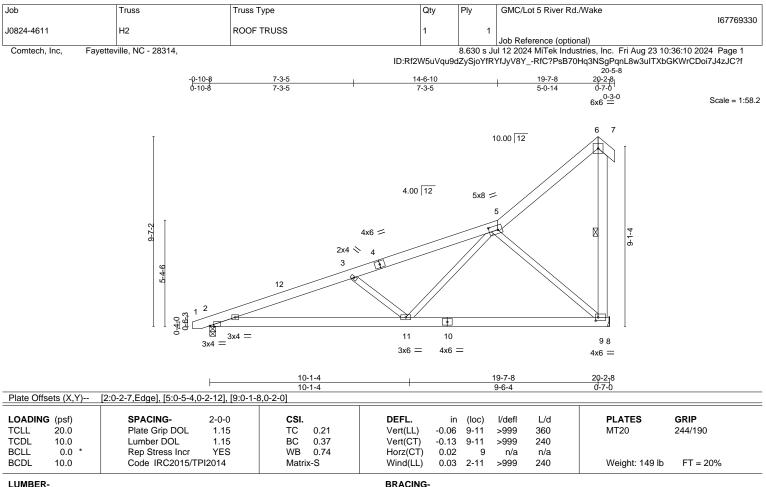


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818 Soundside Road

Edenton, NC 27932





TOP CHORD

BOT CHORD

WEBS

	IN	1B		•
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LOWDER-	
TOP CHORD	2x6 SP No.1
BOT CHORD	2x6 SP No.1
WEBS	2x4 SP No.2 *E

Except* 6-9: 2x6 SP No.1

REACTIONS. (size) 9=Mechanical, 2=0-3-8 Max Horz 2=290(LC 12) Max Uplift 9=-141(LC 12), 2=-84(LC 8) Max Grav 9=831(LC 1), 2=836(LC 1)

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

TOP CHORD 2-3=-1696/153, 3-5=-1304/58

BOT CHORD 2-11=-402/1563. 9-11=-175/626

WEBS 3-11=-521/269, 5-11=-55/785, 5-9=-828/233

NOTES-

- 1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) -0-7-13 to 3-9-0, Interior(1) 3-9-0 to 19-7-8, Exterior(2) 19-7-8 to 20-5-8 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) Gable studs spaced at 2-0-0 oc.

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.

Refer to girder(s) for truss to truss connections.

7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 9=141.

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



Structural wood sheathing directly applied or 5-9-10 oc purlins,

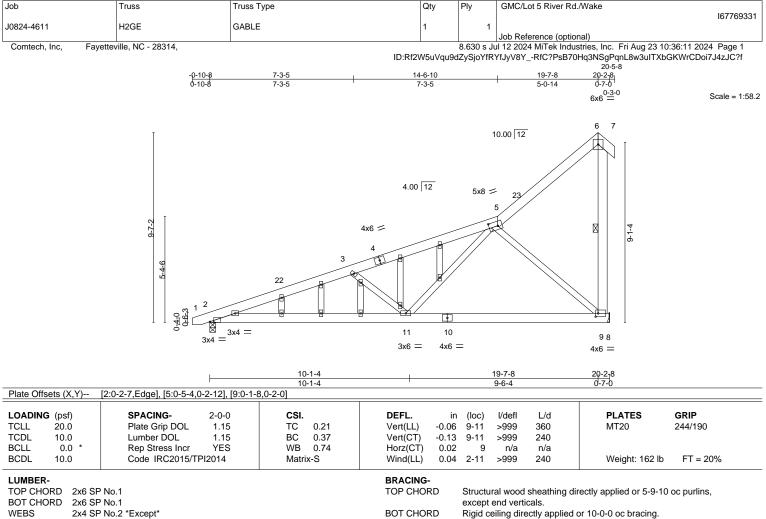
6-9

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

except end verticals.

1 Row at midpt

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WEBS

1 Row at midpt

6-9

 BOT CHORD
 2x6 SP No.1

 WEBS
 2x4 SP No.2 *Except*

 6-9: 2x6 SP No.1

 OTHERS
 2x4 SP No.2

REACTIONS. (size) 9=Mechanical, 2=0-3-8 Max Horz 2=418(LC 12) Max Unit: 0= 310(LC 12) 2= 320(L

Max Uplift 9=-310(LC 12), 2=-220(LC 8) Max Grav 9=831(LC 1), 2=836(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. TOP CHORD 2-3=-1696/405, 3-5=-1304/243

BOT CHORD 2-11=-594/1563, 9-11=-239/626

WEBS 3-11=-521/361, 5-11=-137/785, 5-9=-828/319

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) -0-7-13 to 3-9-0, Interior(1) 3-9-0 to 19-7-8, Exterior(2) 19-7-8 to 20-5-8 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) All plates are 2x4 MT20 unless otherwise indicated.

4) Gable studs spaced at 2-0-0 oc.

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

6) * This truss has been designed for a live load of 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.

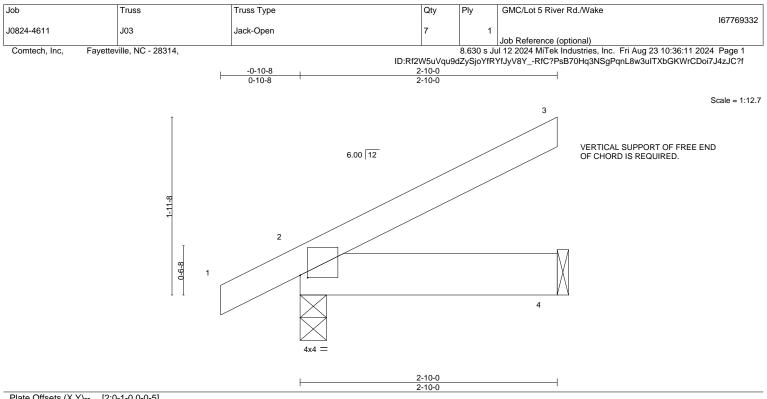
7) Refer to girder(s) for truss to truss connections.

8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 9=310, 2=220.

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



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.OADING (psf)	SPACING- 2-0-0	CSI.	DEFL. in (loc) I/defl L/d	PLATES GRIP
CLL 20.0	Plate Grip DOL 1.15	TC 0.45	Vert(LL) -0.00 2-4 >999 360	MT20 244/190
CDL 10.0	Lumber DOL 1.15	BC 0.17	Vert(CT) -0.00 2-4 >999 240	
BCLL 0.0 *	Rep Stress Incr YES	WB 0.00	Horz(CT) 0.00 n/a n/a	
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P		Weight: 13 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1

REACTIONS. (size) 2=0-3-8, 4=Mechanical Max Horz 2=72(LC 9) Max Uplift 2=-35(LC 9), 4=-34(LC 9)

Max Grav 2=178(LC 1), 4=97(LC 1)

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

NOTES-

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



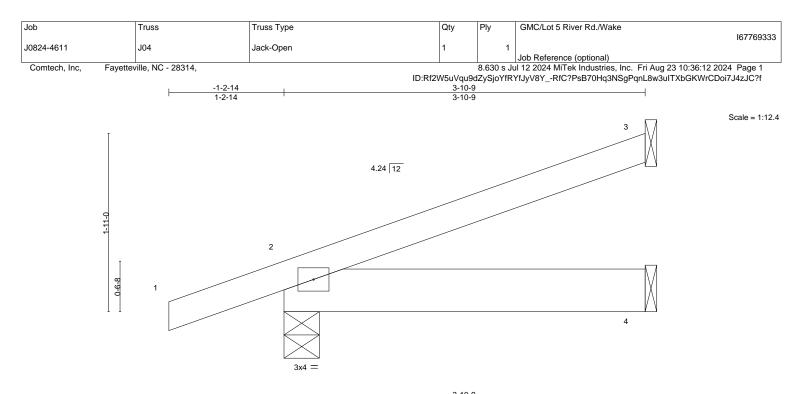
Structural wood sheathing directly applied or 2-10-0 oc purlins.

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

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818 Soundside Road



			3-10-9
LOADING (psf) TCLL 20.0 TCDL 10.0 BCLL 0.0 *	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYES	CSI. TC 0.16 BC 0.05 WB 0.00	DEFL. in (loc) l/defl L/d PLATES GRIP Vert(LL) -0.00 2-4 >999 360 MT20 244/190 Vert(CT) -0.00 2-4 >999 240 MT20 244/190 Horz(CT) -0.00 3 n/a n/a MT20 244/190
BCDL 10.0	Code IRC2015/TPI2014	Matrix-P	Wind(LL) 0.00 2 **** 240 Weight: 17 lb FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x6 SP No.1

REACTIONS. (size) 3=Mechanical, 2=0-4-9, 4=Mechanical

Max Horz 2=63(LC 8)

Max Uplift 3=-43(LC 12), 2=-68(LC 8)

Max Grav 3=92(LC 1), 2=248(LC 1), 4=73(LC 3)

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

NOTES-

1) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

and C-C Corner(3) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide

will fit between the bottom chord and any other members.

4) Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.



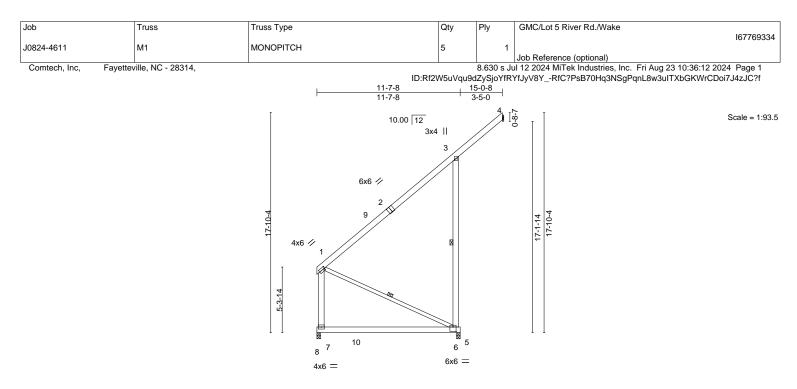
Structural wood sheathing directly applied or 3-10-9 oc purlins.

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

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818 Soundside Road



		1	11-7-8	15-0-8	
		Г	11-7-8	3-5-0	
Plate Offsets (X,Y)	[1:0-0-8,0-2-0], [2:0-3-0,Edge], [6:0-3-0,0-4-4]				

		[1.0 0 0,0 2 0]; [2.0 0 0;		, o]								
OADING	(psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
CLL	20.0	Plate Grip DOL	1.15	TC	0.51	Vert(LL)	-0.11	6-7	>999	360	MT20	244/190
CDL	10.0	Lumber DOL	1.15	BC	0.33	Vert(CT)	-0.21	6-7	>624	240		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.38	Horz(CT)	-0.02	4	n/a	n/a		
BCDL	10.0	Code IRC2015/T	PI2014	Matri	k-S	Wind(LL)	-0.01	6-7	>999	240	Weight: 134 lb	FT = 20%
UMBER-						BRACING-						
TOP CHOR						TOP CHOP			iral wood end verti	•	lirectly applied or 6-0-0 o	oc purlins,
WEBS	2x6 SP	No.1 *Except*				BOT CHOP	RD	Rigid c	eiling dire	ectly applied	l or 10-0-0 oc bracing.	
	1-6: 2x4	4 SP No.2				WEBS		1 Row	at midpt		3-6, 1-6	

REACTIONS. (size) 4=Mechanical, 6=0-3-8, 7=0-3-8 Max Horz 7=397(LC 12) Max Uplift 4=-28(LC 19), 6=-570(LC 12)

Max Grav 4=24(LC 12), 6=902(LC 19), 7=569(LC 21)

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

TOP CHORD 1-3=-455/455, 3-6=-843/577, 1-7=-364/214

BOT CHORD 6-7=-540/567

WEBS 1-6=-606/591

NOTES-

 Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-1, Interior(1) 4-9-1 to 14-11-12 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

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

3) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.

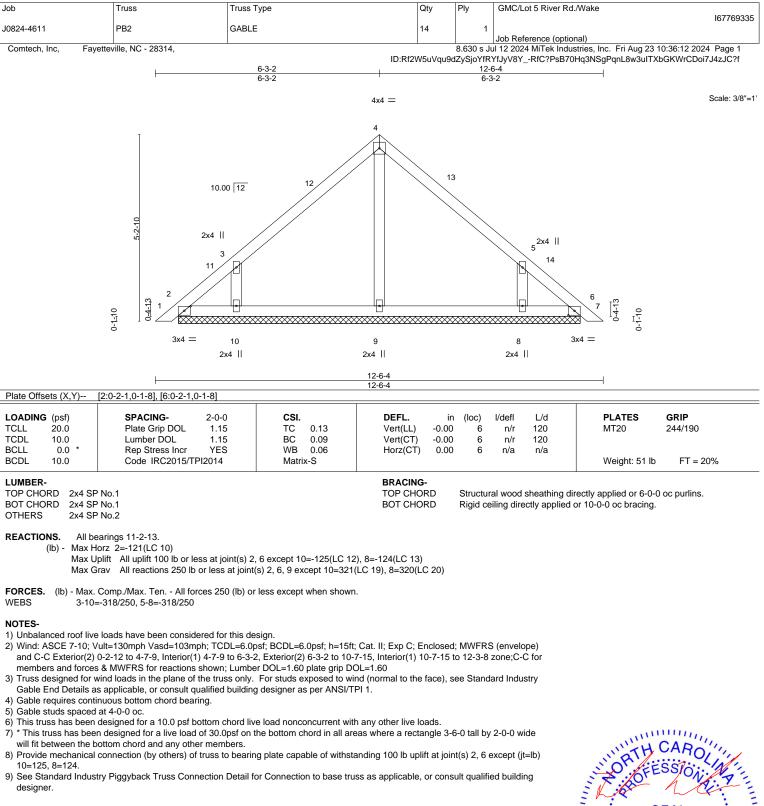
Refer to girder(s) for truss to truss connections.

5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 6=570.

SEAL 030652 AUGINEER HARSSIN August 23,2024

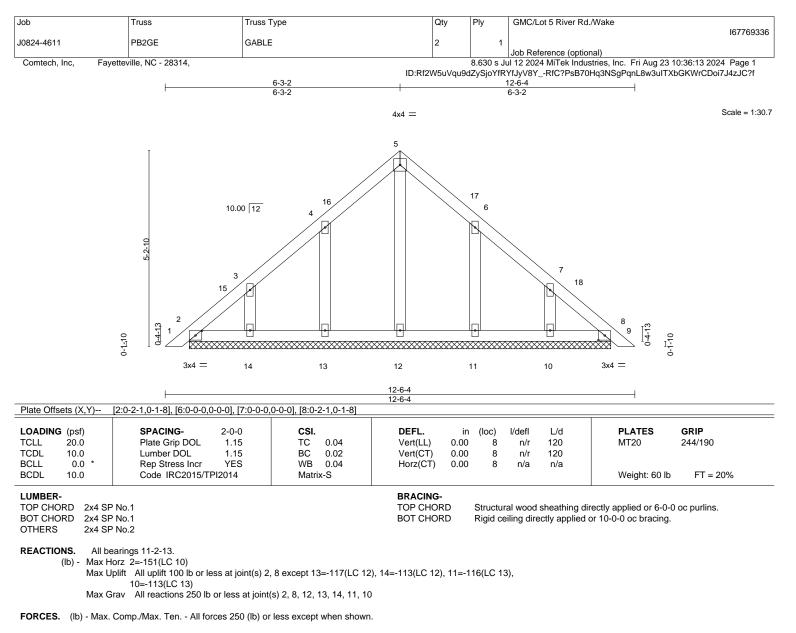
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ENGINEERING BY A Milek Affiliate





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NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) 0-2-12 to 4-7-9, Interior(1) 4-7-9 to 6-3-2, Exterior(2) 6-3-2 to 10-7-15, Interior(1) 10-7-15 to 12-3-8 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.

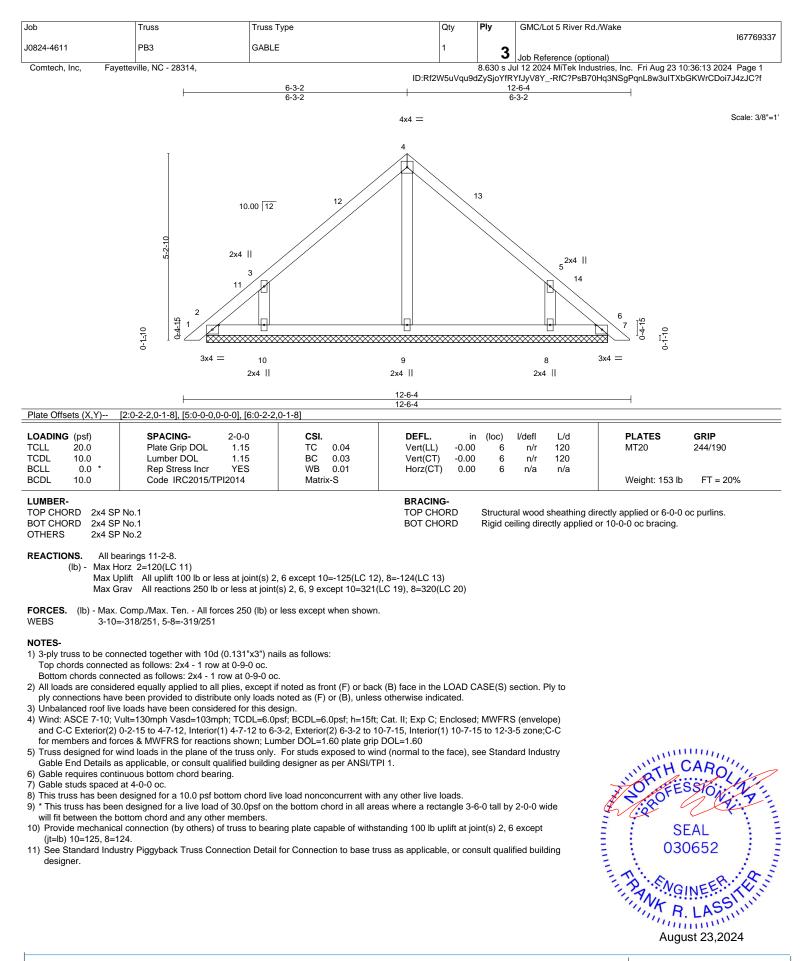
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8 except (jt=lb) 13=117, 14=113, 11=116, 10=113.

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



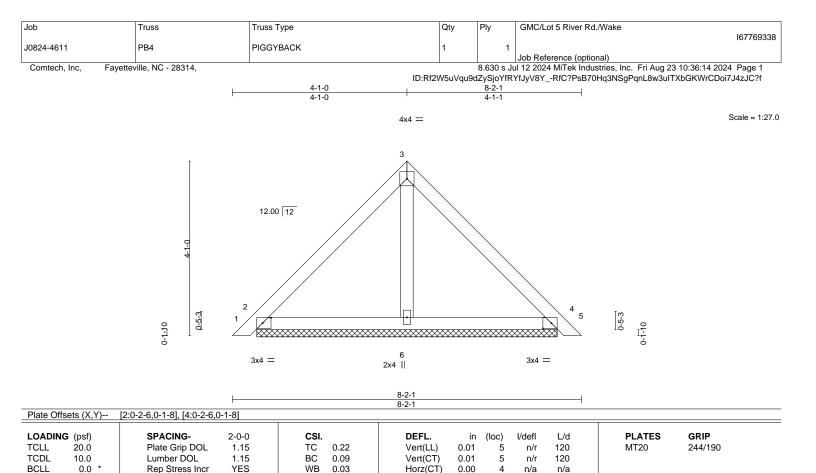
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TRENCO

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TOP CHORD

BOT CHORD

	JM	DE	:D
LU	ואו כ	БС	:R-

BCDL

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1OTHERS2x4 SP No.2

10.0

REACTIONS. (size) 2=7-0-6, 4=7-0-6, 6=7-0-6

Max Horz 2=-93(LC 10) Max Uplift 2=-33(LC 13), 4=-37(LC 13)

Max Grav 2=195(LC 1), 4=195(LC 1), 6=219(LC 3)

Code IRC2015/TPI2014

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.

Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

Matrix-P

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, 4.

6) Non Standard bearing condition. Review required.

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



FT = 20%

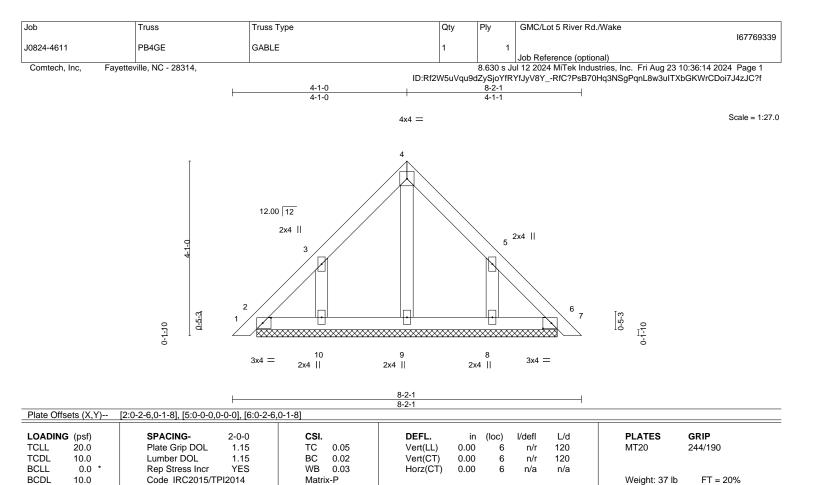
Weight: 32 lb

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

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

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TOP CHORD

BOT CHORD

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

REACTIONS. All bearings 7-0-6. (lb) -

2x4 SP No.1

Max Horz 2=-116(LC 10)

Max Uplift All uplift 100 lb or less at joint(s) 2, 6 except 10=-159(LC 12), 8=-158(LC 13) Max Grav All reactions 250 lb or less at joint(s) 2, 6, 9, 10, 8

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

NOTES-

LUMBER-

TOP CHORD

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.

- 4) Gable studs spaced at 2-0-0 oc.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

6) * This truss has been designed for a live load of 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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6 except (jt=lb) 10=159, 8=158.

- 8) Non Standard bearing condition. Review required.
- 9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

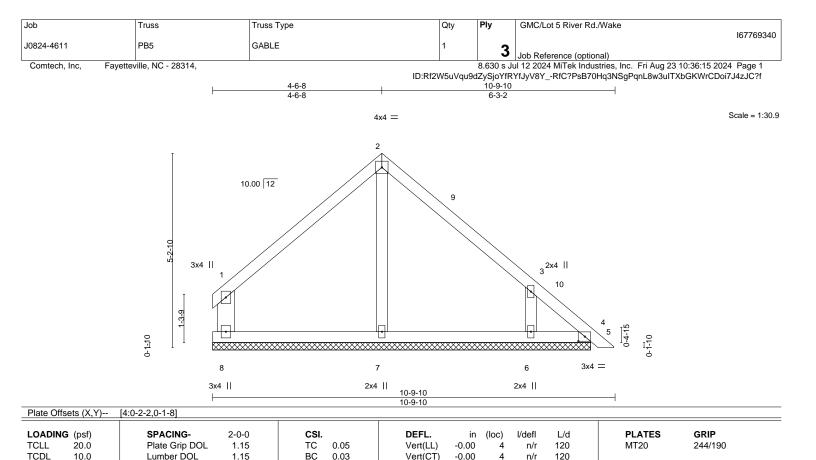


Structural wood sheathing directly applied or 6-0-0 oc purlins.

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

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818 Soundside Road



0.00

Horz(CT)

BRACING-

TOP CHORD

BOT CHORD

4

n/a

except end verticals.

n/a

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

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

Max Uplift	All uplift 100 lb or less at joint(s) 8, 4 except 6=-125(LC 13)
Max Grav	All reactions 250 lb or less at joint(s) 8, 4 except 7=264(LC 20), 6=319(LC 20)

YES

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. WEBS 3-6=-312/246

NOTES-

BCLL

BCDL

WEBS

OTHERS

LUMBER-

TOP CHORD

BOT CHORD

REACTIONS.

(lb) -

0.0

2x4 SP No.1

2x4 SP No.1

2x6 SP No.1

2x4 SP No.2

All bearings 10-1-12. Max Horz 8=-117(LC 8)

10.0

1) 3-ply truss to be connected together with 10d (0.131"x3") nails as follows:

Rep Stress Incr

Code IRC2015/TPI2014

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.

WB

Matrix-S

0.01

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

4) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 8-11-5, Interior(1) 8-11-5 to 10-6-11 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60

5) 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.

6) Gable requires continuous bottom chord bearing.

7) Gable studs spaced at 4-0-0 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.

10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 4 except (jt=lb) 6=125.

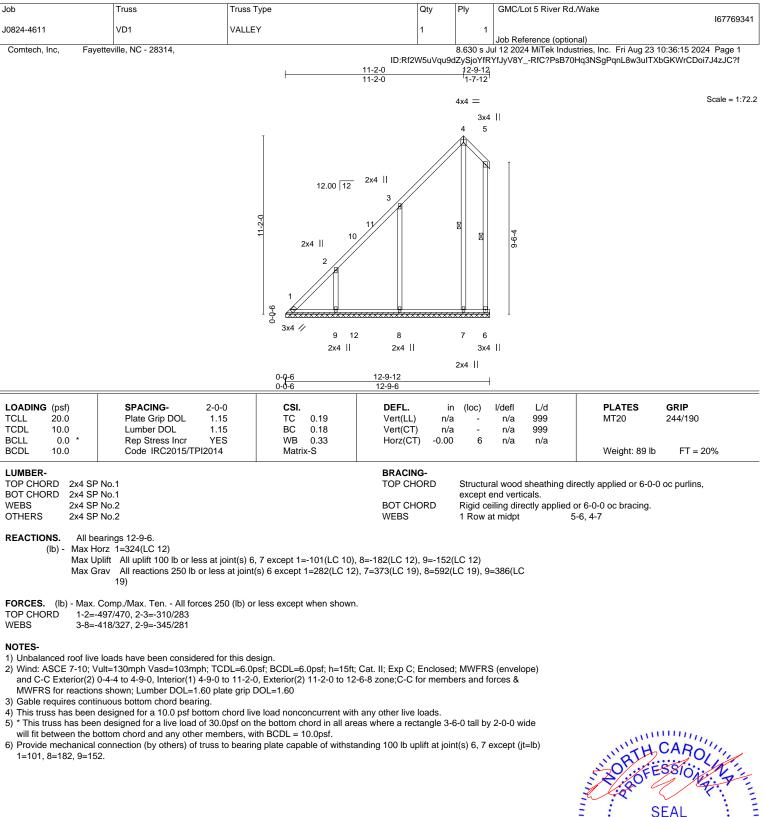
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.



FT = 20%

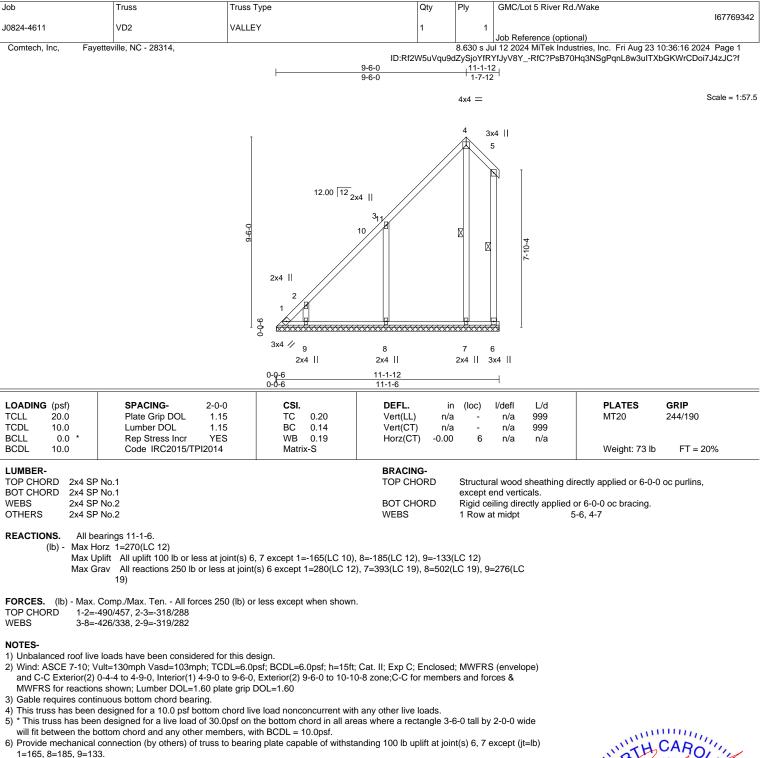
Weight: 142 lb

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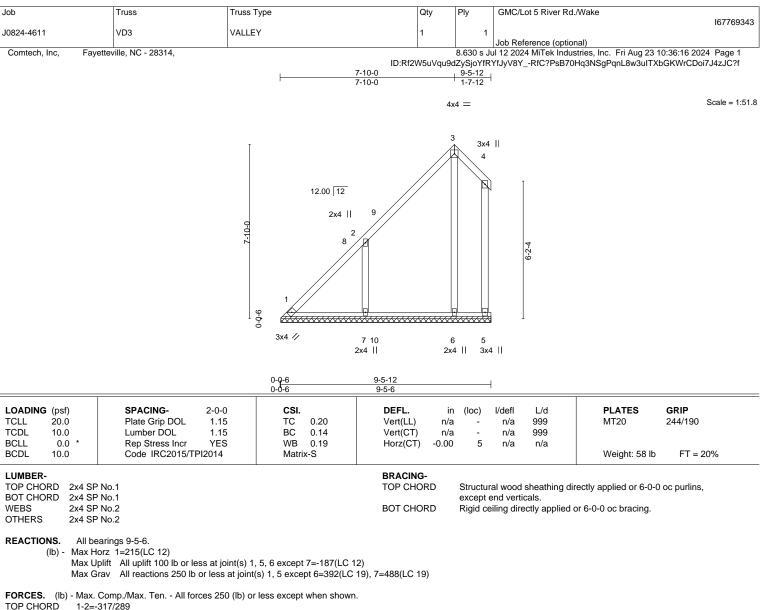
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WEBS 2-7=-426/344

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 7-10-0, Exterior(2) 7-10-0 to 9-2-8 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.

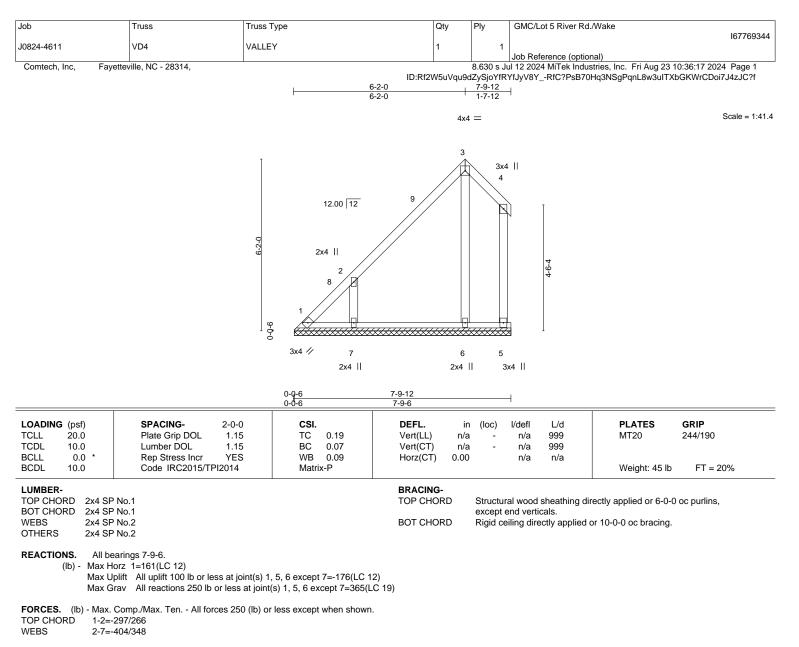
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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, with BCDL = 10.0psf.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6 except (jt=lb) 7=187.



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NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-4-4 to 4-9-0, Interior(1) 4-9-0 to 6-2-0, Exterior(2) 6-2-0 to 7-6-8 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.

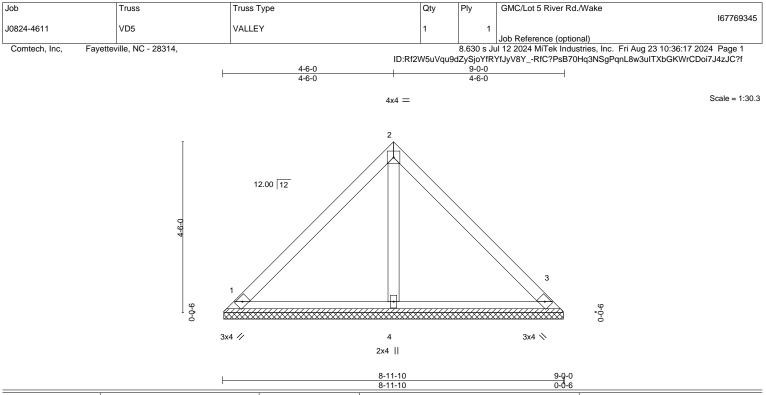
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5, 6 except (jt=lb) 7=176.



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						8-11-10				0-0-6		
LOADIN	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	0.30	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.13	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.05	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TF	912014	Matri	x-P						Weight: 37 lb	FT = 20%

TOP CHORD

BOT CHORD

LUMBER-

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

TOP CHORD

OTHERS

REACTIONS. 1=8-11-4, 3=8-11-4, 4=8-11-4 (size) Max Horz 1=-99(LC 8)

Max Uplift 1=-36(LC 13), 3=-36(LC 13)

Max Grav 1=202(LC 1), 3=202(LC 1), 4=260(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=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) Gable requires continuous bottom chord bearing.

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

5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

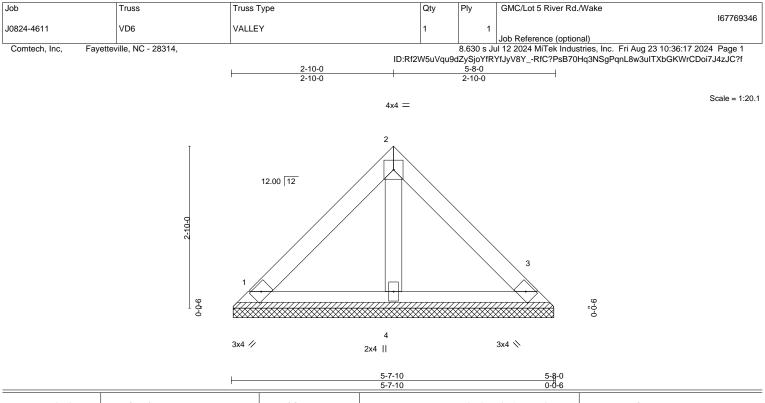
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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

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

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LOADIN	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 0.10	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL 1.15	BC 0.05	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0 *	Rep Stress Incr YES	WB 0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P						Weight: 22 lb	FT = 20%
BCDL	10.0	Code IRC2015/TPI2014	Matrix-P						Weight: 22 lb	FT = 20%

```
LUMBER-
```

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1OTHERS2x4 SP No.2

BRACING-TOP CHORD BOT CHORD

Structural wood sheathing directly applied or 5-8-0 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=5-7-4, 3=5-7-4, 4=5-7-4 Max Horz 1=-59(LC 10) Max Uplift 1=-22(LC 13), 3=-22(LC 13) Max Grav 1=121(LC 1), 3=121(LC 1), 4=155(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=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) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

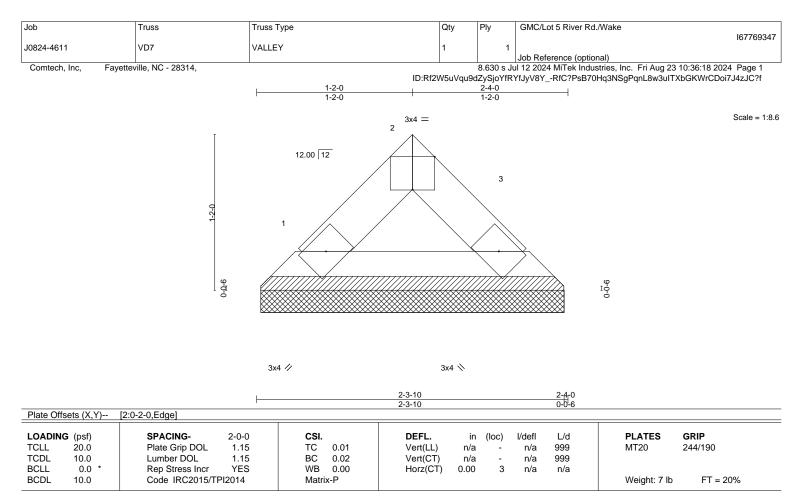
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.



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TOP CHORD

BOT CHORD

LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1

REACTIONS. (size) 1=2-3-4, 3=2-3-4 Max Horz 1=-20(LC 8) Max Uplift 1=-2(LC 12), 3=-2(LC 12) Max Grav 1=65(LC 1), 3=65(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=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) Gable requires continuous bottom chord bearing.

- 4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 2-0-0 wide will fit between the bottom chord and any other members.

6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

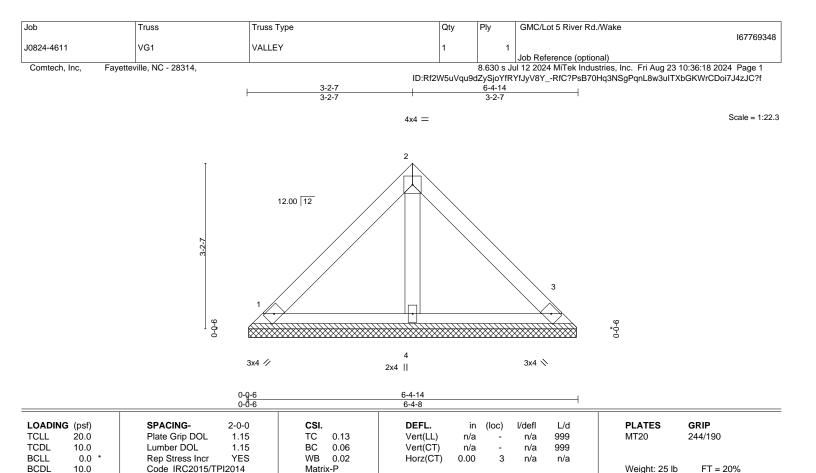


Structural wood sheathing directly applied or 2-4-0 oc purlins.

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

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LUMBER-

TOP CHORD2x4 SP No.1BOT CHORD2x4 SP No.1OTHERS2x4 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. (size) 1=6-4-2, 3=6-4-2, 4=6-4-2 Max Horz 1=-68(LC 10) Max Uplift 1=-25(LC 13), 3=-25(LC 13) Max Grav 1=139(LC 1), 3=139(LC 1), 4=178(LC 1)

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

NOTES-

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

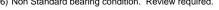
2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope)

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.

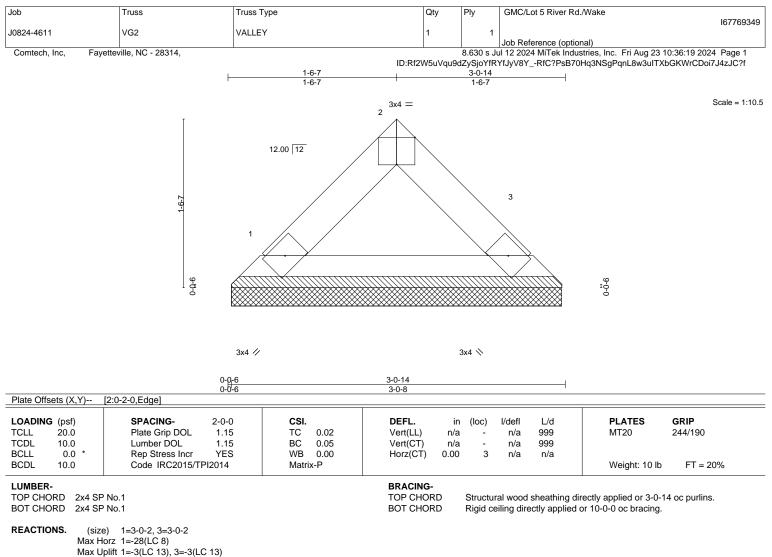




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Max Grav 1=95(LC 1), 3=95(LC 1)

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

NOTES-

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

2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TCDL=6.0psf; BCDL=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.



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

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