## Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483 843 209-5784, Fax (866)-213-4614

The truss drawing(s) listed below have been prepared by **Atlantic Building Components** under my direct supervision based on the parameters provided by the truss designers.

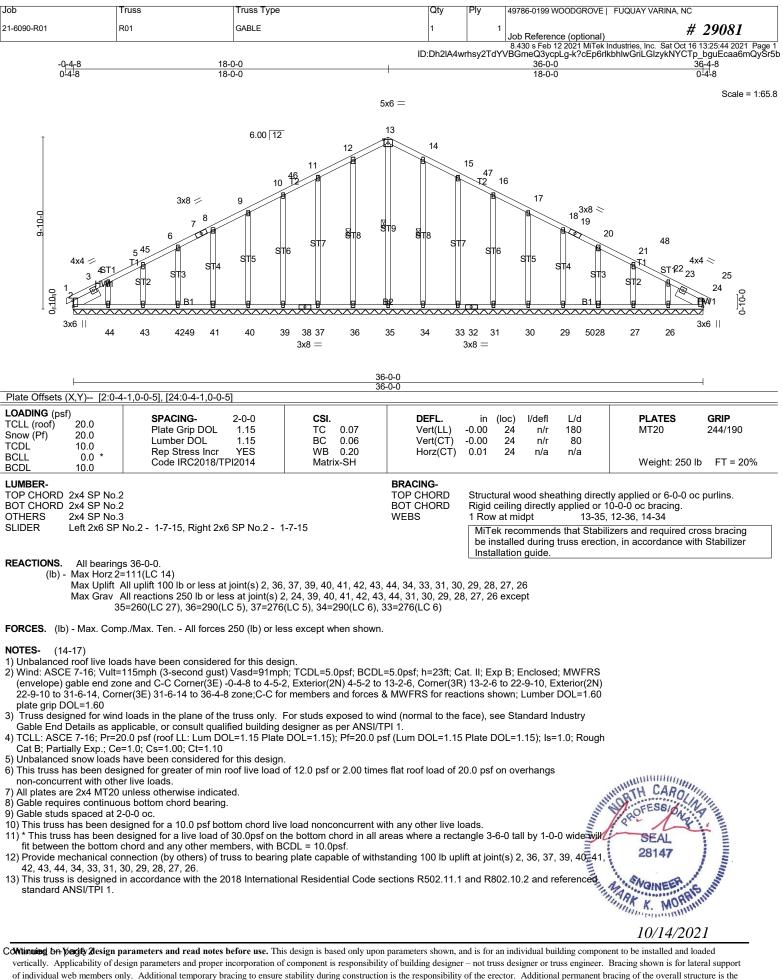
AST #: 29081 JOB: 21-6090-R01 JOB NAME: 49786-0199 WOODGROVE Wind Code: 37 Wind Speed: Vult= 115mph Exposure Category: B Mean Roof Height (feet): 23 These truss designs comply with IRC 2015 as well as IRC 2018. *13 Truss Design(s)* 

Trusses: R01, R02, R03, R04, R05, R06, R07, R08, R09, VT01, VT02, VT03, VT04



## Warning !--- Verify design parameters and read notes before use.

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 Guide to



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Job	Truss	Truss Type	Qty	Ply	49786-0199 WOODGROVE   FUQUAY VARINA, NC	
21-6090-R01	R01	GABLE	1	1	Job Reference (optional) # 29081	
	8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 16 13:25:45 2021 Page 2					

ID:Dh2lA4wrhsy2TdYVBGmeQ3ycpLg-CB9c0SsNVvpcYQPuvzpCVxvjyt9DK770rEKfltySr5a

14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

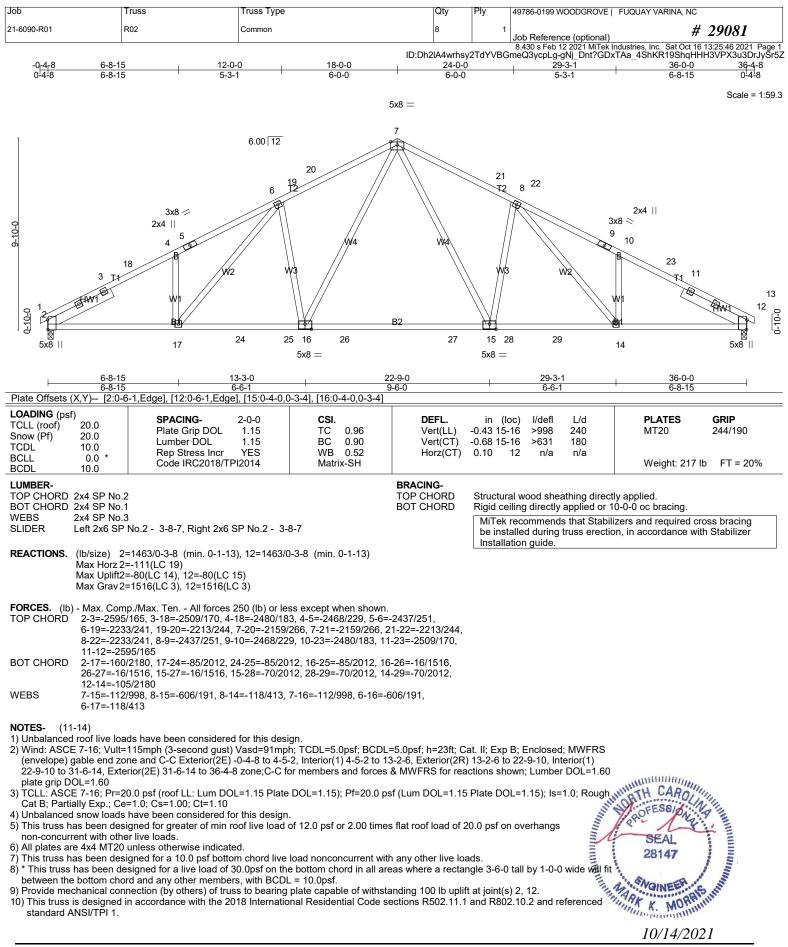
16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

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Job	Truss	Truss Type	Qty	Ply	49786-0199 WOODGROVE   FUQUAY VARINA, NC		
21-6090-R01	R02	Common	8	1	Job Reference (optional) # 29081		
	8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 16 13:25:46 2021 Page 2						

ID:Dh2IA4wrhsy2TdYVBGmeQ3ycpLg-gNj\_Dnt?GDxTAa\_4ShKR19ShqHHH3VPX3u3DrJySr5Z

11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

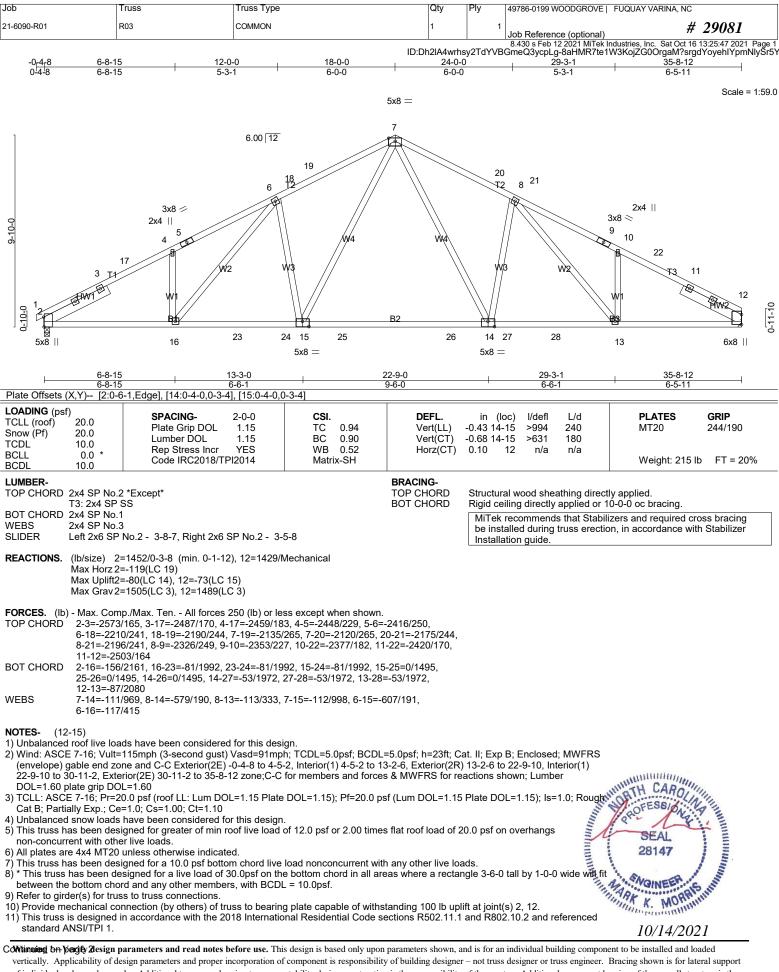
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Job	Truss	Truss Type	Qty	Ply	49786-0199 WOODGROVE   FUQUAY VARINA, NC
21-6090-R01	R03	COMMON	1	1	Job Reference (optional) # 29081
					8 430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 16 13:25:48 2021 Page 2

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Job 21-6090-R01	Truss R04	Truss	; Туре ИОN	Qty 5	Ply 49786-0	199 WOODGROVE		29081
					Job Re	eference (optional) Feb 12 2021 MiTek Inc	ff dustries, Inc. Sat Oct 16 ufBIrhXPNC?dO6uf4	
-0-4-8 0-4-8	6-8-15	12-0-0	18-0-0	24-0-0	2	29-3-1	35-8-12	?HK7_W1Q_4ySr5\ —⊣
0-4-8	6-8-15	5-3-1	6-0-0	6-0-0	I	5-3-1	6-5-11	
				5x8 =				Scale: 3/16"=1
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		6.	00 12	A A				
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o 1	EHWIE	W1		W5		W1	HWS	12 S
0-01-0		<b>h</b> á		щая Ифя7				0-11-10 0-8-8
5x8	II	24 31	$32 \ 23 \ 22 \ 21$ 5x12 MT20HS=	19 15	38 <sub>14</sub> 16  35 ; 12 MT20HS <del>二</del>	13	7:	<8
		4x4 =		0,1		4x4 ≕		
1	6-8-15	13-3-0	, 16-0-0 , 18-0-	-0 , 20-0-0 , 22-9-0	0 29-3	3-1	35-8-12	1
⊢ Plate Offsets (X	6-8-15 (,Y) [2:0-6-1,Edge]	<u>6-6-1</u> , [14:0-6-0,0-3-0], [23:	2-9-0 2-0-		) 6-6	ĵ-1	6-5-11	—
OADING (psf)	s	PACING- 2-0-0	CSI.	DEFL.	in (loc) l/d	defl L/d	PLATES	GRIP
now (Pf)	20.0 PI 20.0 L	ate Grip DOL 1.15 Imber DOL 1.15	TC 0.88 BC 0.84	Vert(LL) Vert(CT)	-0.53 19 >8	304         240           503         180	MT20 MT20HS	244/190 187/143
CDL CLL	10.0 Re	ep Stress Incr YES ode IRC2018/TPI2014	WB 0.65 Matrix-SH	Horz(CT)		n/a n/a	Weight: 229 II	
CDL	10.0		Matrix-Off	BRACING-				5 11 - 2070
OP CHORD 2	x4 SP No.2 *Except			TOP CHORD			applied or 2-2-0 oc	
OT CHORD 2	1: 2x4 SP No.1, T3: x4 SP SS *Except*	2x4 5P 55		BOT CHORD	6-0-0 oc bracing	g: 16-22	-0-0 oc bracing. Ex	cept:
VEBS 2	3: 2x4 SP No.1 x4 SP No.3			WEBS	1 Row at midpt MiTek recomr		ers and required cro	oss bracing
SLIDER L	eft 2x6 SP No.2 - 3	-8-7, Right 2x6 SP No	2 - 3-5-8			uring truss erection	, in accordance wit	
	lb/size) 2=1540/0-3 Max Horz 2=-119(LC	3-8 (min. 0-2-0), 12=1	519/Mechanical		gu			
Ν	/lax Uplift2=-36(LC <sup>^</sup>	14), 12=-28(LC 15)						
	Max Grav 2=1685(LC	, , ,	\					
	2-3=-2913/83, 3-25	=-2827/85, 4-25=-279	) or less except when show 0/99, 4-5=-2777/148, 5-6=-2	747/170,				
	8-29=-2585/146, 8-9	,	-2526/170, 7-28=-2509/170, 668/149, 10-30=-2706/101, 1	,				
OT CHORD	11-12=-2831/84 2-24=-84/2457, 24-3	31=0/2335, 31-32=0/2	335, 23-32=0/2335, 23-33=0	)/1860, 21-33=0/18	60,			
	19-21=0/1860, 15-1 13-36=0/2314, 12-1		60, 14-34=0/1860, 14-35=0/	/2314, 35-36=0/231	14,			
VEBS		16=-91/1028, 8-14=-50 3=-594/197, 6-24=-130	3/197, 8-13=-134/290, 22-2 3/379	3=-92/1059,				
<b>IOTES-</b> (13-		,						
) Unbalanced r	oof live loads have l	been considered for th	is design. 91mph; TCDL=5.0psf; BCD	l =5 0psf: h=23ft: 0	at II: Exp B: Encl	losed: MWFRS		
(envelope) ga	able end zone and C	-C Exterior(2E) -0-4-8	to $4-5-2$ , Interior(1) $4-5-2$ to	13-2-6, Exterior(2R	(1) 13-2-6 to 22-9-1	0, Interior(1)	MUMINIA CARO	
DOL=1.60 pla	ate grip DOL=1.60	a f l l l um DOI =1 1					FESSIA A	all
Cat B; Partial	ly Exp.; Ce=1.0; Cs=	=1.00; Ct=1.10	, .			), IS-1.0, Rough	oper Ang	~
) This truss ha	s been designed for	greater of min roof live	e load of 12.0 psf or 2.00 tim	es flat roof load of 2	20.0 psf on overh	angs	28147	
) All plates are	MT20 plates unless	us. otherwise indicated.				(1111)		
) All plates are ) This truss ha	2x4 MT20 unless of s been designed for	nerwise indicated. a 10.0 psf bottom cho	d live load nonconcurrent w	ith any other live lo	ads.	inner.	AQINEER	- States
) * This truss h between the l	as been designed fo bottom chord and an	or a live load of 30.0ps by other members, with	<ul> <li>(a) (a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c</li></ul>	areas where a recta	ngle 3-6-0 tall by	1-0-0 wide will fit	MARK. MORM	u.
0) Refer to gird 1) Provide med	ler(s) for truss to trus chanical connection	ss connections. (by others) of truss to	pearing plate capable of with	nstanding 100 lb up	lift at joint(s) 2. 12	2	10/14/202	21
divitinuing on ye	ığıfy Zlesign parameters	s and read notes before	se. This design is based only upo	on parameters shown,	and is for an individu	al building componen	t to be installed and lo	aded
vertically. Appli	cability of design paran	neters and proper incorpor onal temporary bracing to	ation of component is responsibil ensure stability during construct	lity of building designe	er – not truss designe v of the erector Add	r or truss engineer. B litional permanent bra	racing shown is for late cing of the overall strue	eral support cture is the
responsibility of	the building designer. I	For general guidance regar	ding fabrication, quality control,	storage, delivery, erec	tion and bracing, cor	sult ANSI/TPI 1 Nati	onal Design Standard	for Metal
Plate Connected	Wood Truss Construct Madison, WI 53719.	uon and BCSI 1-03 Guide	to Good Practice for Handling,	Installing & Bracing of	of Metal Plate Conne	ected Wood Trusses f	rom Truss Plate Institu	te, 583

D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	49786-0199 WOODGROVE   FUQUAY VARINA, NC
21-6090-R01	R04	COMMON	5	1	Job Reference (optional) # 29081
		ID:I	Dh2lA4wrl	nsy2TdYV	8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 16 13:25:51 2021 Page 2 BGmeQ3ycpLg-0LXtHVx84IZIGLt2FEwckC9ZrI?JkjZGDAn_WXySr5L

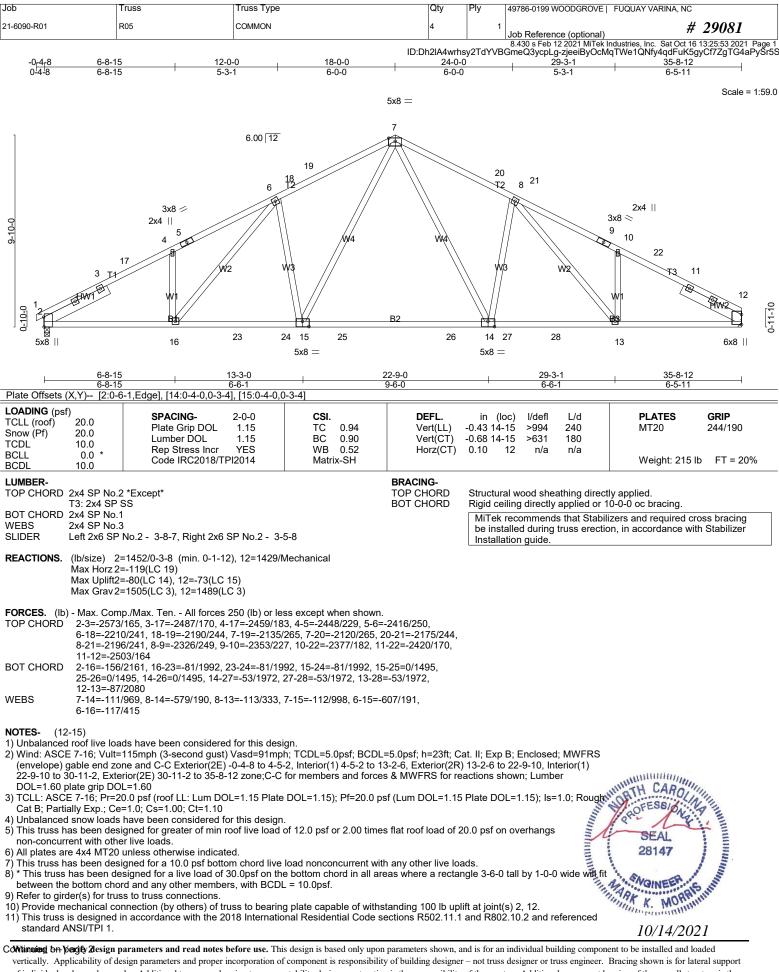
## NOTES- (13-16)

- 12) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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Job	Truss	Truss Type	Qty	Ply	49786-0199 WOODGROVE   FUQUAY VARINA, NC
21-6090-R01	R05	COMMON	4	1	Job Reference (optional) # 29081
					8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 16 13:25:53 2021 Page

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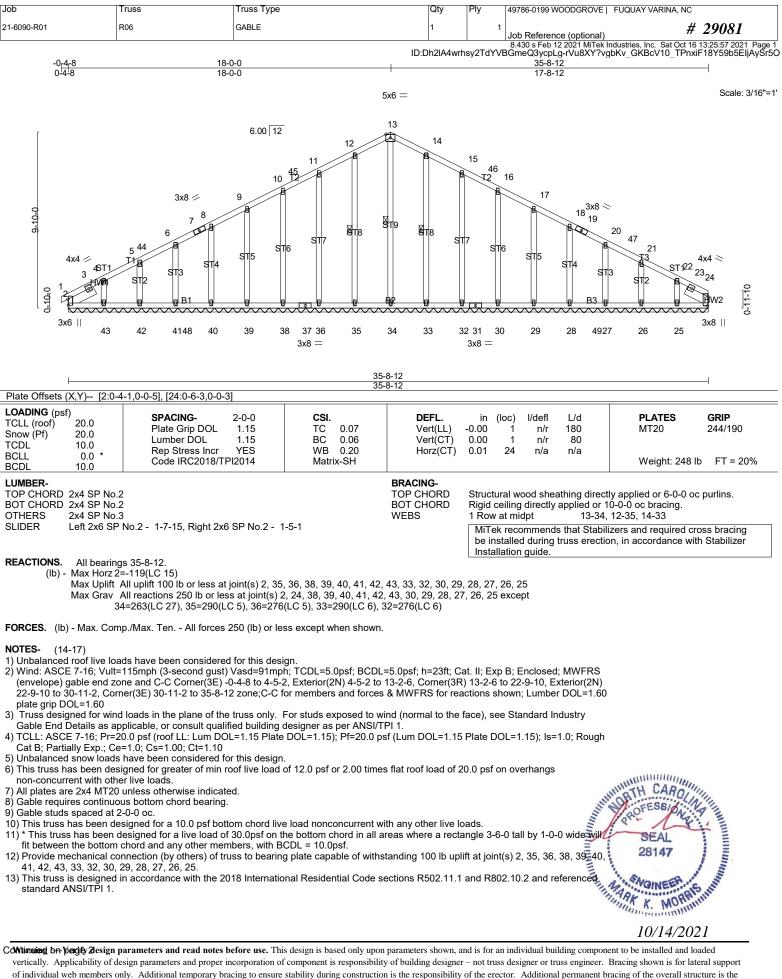
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21-6090-R01	R06	GABLE	1	1	Job Reference (optional) # 29081
					8.430 s Feb 12 2021 MiTek Industries. Inc. Sat Oct 16 13:25:58 2021 Page 2

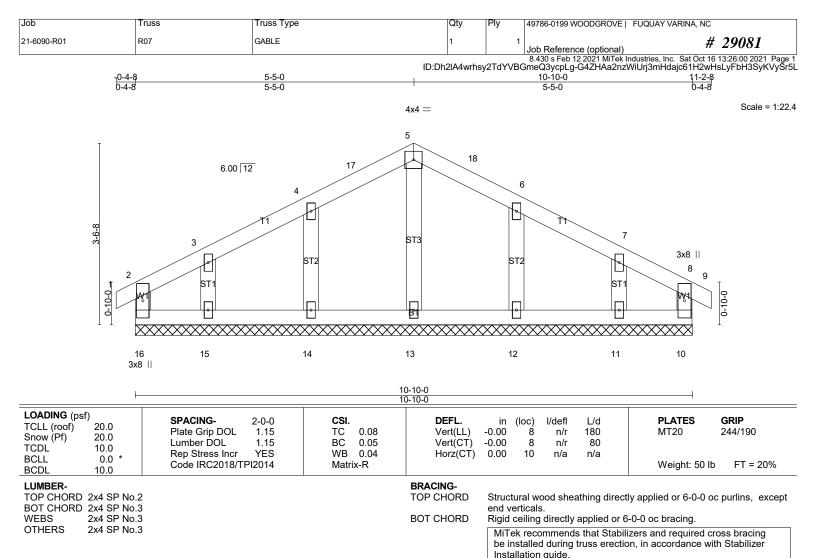
ID:Dh2lA4wrhsy2TdYVBGmeQ3ycpLg-JhSWlu0XRuSmcQvO9CYFWhyyg6bGt?LlqlzrGdySr5N

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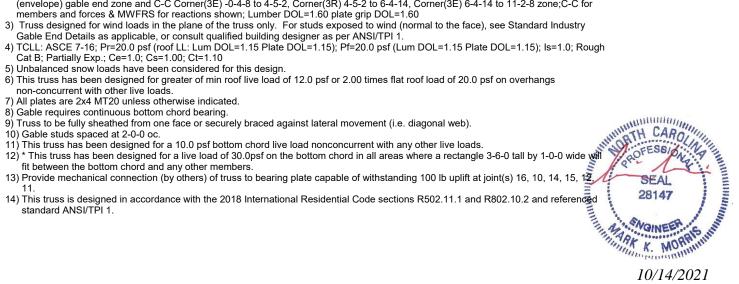
REACTIONS. All bearings 10-10-0.

(lb) - Max Horz 16=35(LC 14)

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

NOTES-(15-18)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-4-8 to 4-5-2, Corner(3R) 4-5-2 to 6-4-14, Corner(3E) 6-4-14 to 11-2-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60



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Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11 Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

Job	Truss	Truss Type	Qty	Ply	49786-0199 WOODGROVE   FUQUAY VARINA, NC
21-6090-R01	R07	GABLE	1	1	Job Reference (optional) # 29081
					8.430 s Feb 12 2021 MiTek Industries. Inc. Sat Oct 16 13:26:00 2021 Page 2

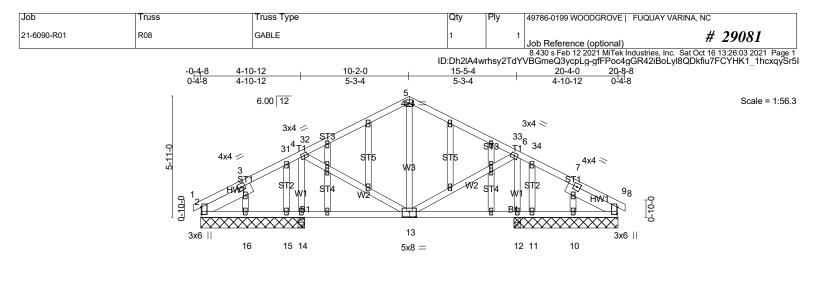
ID:Dh2lA4wrhsy2TdYVBGmeQ3ycpLg-G4ZHAa2nzWiUrj3mHdajc61H2wHsLyFbH3SyKVySr5L

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10/14/2021



Brate Offsets (X,Y)-         [2:04-1:0-0-5], [3:0-4-1:0-0-5], [1:0-4-0:0-3:0]           LOADING (psf) TCLL (root)         SPACING         2-0-0         CSI.         DEFL         in (loc)         I/defl         L/d           Snow (Pf)         20.0         Plate Grip DOL         1.15         TC         0.49         Vert(L1)         -0.01         13:14         >999         160           BCLL         0.0<*/td>         Rep Stress Incr         YES         WB         0.15         Horz(CT)         0.00         8         n/a         n/a           BCLL         0.0<*/td>         Rep Stress Incr         YES         WB         0.15         Horz(CT)         0.00         8         n/a         n/a           BCLL         0.0         Code IRC2018/TPI2014         Matrix-SH         Matrix-SH         Weight: 140 lb         FT = 20%           LUMBER         TOP CHORD         2x4 SP No.2         Structural wood sheathing directly applied or 6-0-0 oc purlins.         BOT CHORD 2x4 SP No.3         Structural wood sheathing directly applied or 10-0-0 oc bracing.           SUIDER         Left 2x6 SP No.2         2-9-0.         REACING.         TOP CHORD         Structural wood sheathing directly applied or 10-0-0 oc bracing.           WEBS         2x4 SP No.3         Structural wood sheathing directly applied or 10-0-0 oc brac	Brate Offsets (X,Y)-         [2:0-4:1.0-0-5], [1:0-4:1.0-0-5], [1:0-4:0.0-3-0]           OADING (psf) TCLL (roof)         SpACING.         2:0-0         Filte Grip DOL         1.15         TC         0.49         Vert(LL)         -0.01 13-14         >999         240         MT20         244/190           Show (Pf)         20.0         Plate Grip DOL         1.15         TC         0.49         Vert(LL)         -0.01 13-14         >999         160         MT20         244/190           Sicul         0.0         Code IRC2018/TPI2014         WB 0.15         WES         0.02 13.74         >999         160         MT20         244/190           UMBER         Code IRC2018/TPI2014         Matrix-SH         WE of CHORD         Structural wood sheathing directly applied or 6-0-0 cc purlins.           S0T CHORD 2x4 SP No.2         Structural wood sheathing directly applied or 6-0-0 cc parlins.         Rigid celling directly applied or 10-00 cc bracing.           VEBS         2x4 SP No.3         Structural wood sheathing directly applied or 6-0-0 cc purlins.         Rigid celling directly applied or 10-00 cc bracing.           VEES         2x4 SP No.3         Structural wood sheathing directly applied or 10-00 cc bracing.           WEES         2x4 SP No.3         Structural wood sheathing directly applied or 10-00 cc bracing.           WEES         At SP			0-12 5-0-8 10-2-0 0-12 0-1-12 5-1-8	15-3-8	15 <sub>7</sub> 5-4 0-1-12	20-4-0		
TCLL (roof)         20.0         PAR INC         24-0         CSL         DEFL         In (loc)         Ind(loc)         Ind(loc) <thind(loc)< th="">         Ind(loc)         <thind(loc)< td="" th<=""><td>CILL (roof)         20.0         PARING         20.0         PLALES         Code           Show (P)         20.0         Limber DOL         1.15         TC         0.49         Vert(L1)         -0.0113/14         -9999         180           TODL         10.0         Limber DOL         1.15         BC         0.20         Vert(C1)         -0.0113/14         -9999         180           SCLL         0.0*         Rep Stress Incr         YES         WB         0.15         Horz(C1)         0.00 8         n/a         n/a           SOIL         10.0         Code IRC2018/TPI2014         Matrix-SH         BRACING-         TOP CHORD         Structural wood sheathing directly applied or 6-0-0 oc purlins.           SOT CHORD 2x4 SP No.2         Son CHORD         Structural wood sheathing directly applied or 10-0-0 oc bracing.         Structural wood sheathing directly applied or 10-0-0 oc bracing.           WEBS         2x4 SP No.3         Structural wood sheathing directly applied or 10-0-0 oc bracing.         Structural wood sheathing directly applied or 10-0-0 oc bracing.           Structural ward in tractions 250 bo ress at joint(s) 2, 14, 8, 15, 11, 12         Mark Horz 2-64/LC 15         Mark Horz 2-64/LC 15         Mark Horz 2-389/92, 5-32-389/116, 6-33-369/92           VEBS         c-12-612/112, 4-14-612/112         NOTES- (13-16)         Nunt ax2</td><td>Plate Offsets (X,Y) [2:0-4</td><td></td><td></td><td>0-1-0</td><td>0-1-12</td><td>+-10-12</td><td></td><td></td></thind(loc)<></thind(loc)<>	CILL (roof)         20.0         PARING         20.0         PLALES         Code           Show (P)         20.0         Limber DOL         1.15         TC         0.49         Vert(L1)         -0.0113/14         -9999         180           TODL         10.0         Limber DOL         1.15         BC         0.20         Vert(C1)         -0.0113/14         -9999         180           SCLL         0.0*         Rep Stress Incr         YES         WB         0.15         Horz(C1)         0.00 8         n/a         n/a           SOIL         10.0         Code IRC2018/TPI2014         Matrix-SH         BRACING-         TOP CHORD         Structural wood sheathing directly applied or 6-0-0 oc purlins.           SOT CHORD 2x4 SP No.2         Son CHORD         Structural wood sheathing directly applied or 10-0-0 oc bracing.         Structural wood sheathing directly applied or 10-0-0 oc bracing.           WEBS         2x4 SP No.3         Structural wood sheathing directly applied or 10-0-0 oc bracing.         Structural wood sheathing directly applied or 10-0-0 oc bracing.           Structural ward in tractions 250 bo ress at joint(s) 2, 14, 8, 15, 11, 12         Mark Horz 2-64/LC 15         Mark Horz 2-64/LC 15         Mark Horz 2-389/92, 5-32-389/116, 6-33-369/92           VEBS         c-12-612/112, 4-14-612/112         NOTES- (13-16)         Nunt ax2	Plate Offsets (X,Y) [2:0-4			0-1-0	0-1-12	+-10-12		
TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3 SLIDER Left 2x6 SP No.2 - 2-9-0, Right 2x6 SP No.2 - 2-9-0 REACTIONS. All bearings 5-0-8 except (it=length) 12=0-3-8, 12=0-3-8. ((b) - Max Horz 2=-64(LC 15) Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 8, 15, 11, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 16, 10 except 14=739(LC 21), 14=590(LC 1), 12=739(LC 22), 12=590(LC 1) FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 4-32=-389/92, 5-32=-369/116, 5-33=-369/116, 6-33=-389/92 6-12=-612/112, 4-14=-612/112 NOTES- (13-16) 1) Unbalanced roof live loads have been considered for this design. 2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23f; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-4-8 to 4-5-2, Interior(1) 4-5-2 to 5-4-6, Exterior(2R) 5-4-6 to 14-11-10, Interior(1) 14-11-10 to 15-10-14, Exterior(2E) 15-10-14 to 20-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 pable grip DOL=1.60 3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TP1 1. 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15); Pf=20.0 psf (Lum DOL=1.15); Is=1.0; Rough C-Cat B; Partially Exp; Ce=1.0; CS=1.00; CL=1.10;	TOP CHORD       2x4 SP No.2       TOP CHORD       Structural wood sheathing directly applied or 60-0 oc purlins.         NEBS       2x4 SP No.3       BOT CHORD       EOT CHORD       MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.         REACTIONS.       All bearings 5-0-8 except (it=length) 12=0-3-8, 12=0-3-8.       MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.         REACTIONS.       All bearings 5-0-8 except (it=length) 12=0-3-8, 12=0-3-8.       MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.         REACTIONS.       All bearings 5-0-8 except (it=length) 12=0-3-8, 12=0-3-8.       MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.         REACTIONS.       All reactions 250 lb or less at joint(s) 2, 4, 8, 15, 11, 12 Max Grav All reactions 250 lb or less except when shown.         TOP CHORD       4-32=-389/92, 5-32=-369/116, 6-33=-369/16, 6-33=-389/92       6-12=-612/112, 4-14=-612/112         NOTES       (13-16)       1)       10 Unbalance for five loads have been considered for this design.       2)         2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; bc12=5.0psf; to 14-11-10, Interior(1)       14-11-10, Interior(1)         14-11-10 to	TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 *	Plate Grip DOL Lumber DOL Rep Stress Incr	1.15         TC         0.49           1.15         BC         0.20           YES         WB         0.15	Vert(LL) Vert(CT)	-0.01 13-14 > -0.02 13-14 >	999 240 999 180	MT20	244/190
<ul> <li>(lb) - Max Horz 2=.64(LC 15) Max Uplift 100 lb or less at joint(s) 2, 14, 8, 15, 11, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 16, 10 except 14=739(LC 21), 14=590(LC 1), 12=739(LC 22), 12=590(LC 1)</li> <li>FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown. TOP CHORD 4.32=-389/92, 5-32=-369/116, 5-33=-369/116, 6-33=-389/92 WEBS 6-12=-612/112, 4-14=-612/112</li> <li>NOTES- (13-16)</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-4-8 to 4-5-2, Interior(1) 4-5-2 to 5-4-6, Exterior(2R) 5-4-6 to 14-11-10, Interior(1) 14-11-10 to 15-10-14, Exterior(2E) 15-10-14 to 20-8-8 zone; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>3) Truss designed for wind loads in the plane of the truss only. For stude 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.</li> <li>4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15); Pf=20.0 psf (Lum DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10</li> </ul>	<ul> <li>(ib) - Max Horz 2=-64(LC 15) Max Uplift All uplift 100 lb or less at joint(s) 2, 14, 8, 15, 11, 12 Max Grav All reactions 250 lb or less at joint(s) 2, 8, 16, 10 except 14=739(LC 21), 14=590(LC 1), 12=739(LC 22), 12=590(LC 1)</li> <li>FORCES. (ib) - Max. Comp./Max. Ten All forces 250 (ib) or less except when shown. TOP CHORD 4-32=-389/92, 5-32=-369/116, 5-33=-369/116, 6-33=-389/92</li> <li>WEBS 6-12=-612/112, 4-14=-612/112</li> <li>NOTES- (13-16)</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-4-8 to 4-5-2, Interior(1) 4-5-2 to 5-4-6, Exterior(2R) 5-4-6 to 14-11-10, Interior(1) 14-11-10 to 15-10-14, Exterior(2E) 15-10-14 to 20-8-8 zone; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>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.</li> <li>4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10</li> </ul>	LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3 OTHERS 2x4 SP No.3	2 3	SP No.2 - 2-9-0	TOP CHORD	Rigid ceiling di MiTek recom be installed c	irectly applied or 10- imends that Stabilize during truss erection,	0-0 oc bracing. ers and required cro	ss bracing
<ul> <li>WEBS 6-12=-612/112, 4-14=-612/112</li> <li>NOTES- (13-16)</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-4-8 to 4-5-2, Interior(1) 4-5-2 to 5-4-6, Exterior(2R) 5-4-6 to 14-11-10, Interior(1) 14-11-10 to 15-10-14, Exterior(2E) 15-10-14 to 20-8-8 zone; C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 Jate grip DOL=1.60</li> <li>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.</li> <li>4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15) Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10</li> </ul>	<ul> <li>WEBS 6-12=-612/112, 4-14=-612/112</li> <li>NOTES- (13-16)</li> <li>1) Unbalanced roof live loads have been considered for this design.</li> <li>2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-4-8 to 4-5-2, Interior(1) 4-5-2 to 5-4-6, Exterior(2R) 5-4-6 to 14-11-10, Interior(1) 14-11-10 to 15-10-14, Exterior(2E) 15-10-14 to 20-8-8 zone;C-C for members and forces &amp; MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60</li> <li>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.</li> <li>4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10</li> </ul>	(lb) - Max Horz 2 Max Uplift Max Grav 1: FORCES. (lb) - Max. Com	=-64(LC 15) All uplift 100 lb or less at j All reactions 250 lb or less 2=590(LC 1) p./Max. Ten All forces 2	joint(s) 2, 14, 8, 15, 11, 12 s at joint(s) 2, 8, 16, 10 excep 250 (lb) or less except when s		90(LC 1), 12=739	9(LC 22),		
	10/14/2021	NOTES- (13-16) 1) Unbalanced roof live loa 2) Wind: ASCE 7-16; Vult= (envelope) gable end zo 14-11-10 to 15-10-14, E DOL=1.60 plate grip DO 3) Truss designed for wind Gable End Details as ap 4) TCLL: ASCE 7-16; Pr=2 Cat B; Partially Exp.; Ce	ds have been considered 115mph (3-second gust) ne and C-C Exterior(2E) - kterior(2E) 15-10-14 to 20 L=1.60 I loads in the plane of the plicable, or consult qualifi 0.0 psf (roof LL: Lum DOI =1.0; Cs=1.00; Ct=1.10	Vasd=91mph; TCDL=5.0psf; -0-4-8 to 4-5-2, Interior(1) 4-5- -8-8 zone;C-C for members a truss only. For studs expose ied building designer as per A L=1.15 Plate DOL=1.15); Pf=2	2 to 5-4-6, Exterior(2R) nd forces & MWFRS fo d to wind (normal to the NSI/TPI 1. 0.0 psf (Lum DOL=1.1	5-4-6 to 14-11-1 r reactions show face), see Stand 5 Plate DOL=1.1	0, Interior(1) n; Lumber dard Industry 5); Is=1.0; Rough	SEAL 28147	HILL Comments

Job	Truss	Truss Type	Qty	Ply	49786-0199 WOODGROVE   FUQUAY VARINA, NC
21-6090-R01	R08	GABLE	1	1	Job Reference (optional) # 29081
					8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Oct 16 13:26:04 2021 Page 2

ID:Dh2IA4wrhsy2TdYVBGmeQ3ycpLg-8rpo?x5I1kCvKLMYWTffmyCtdXbRHkZBChQATGySr5H

13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

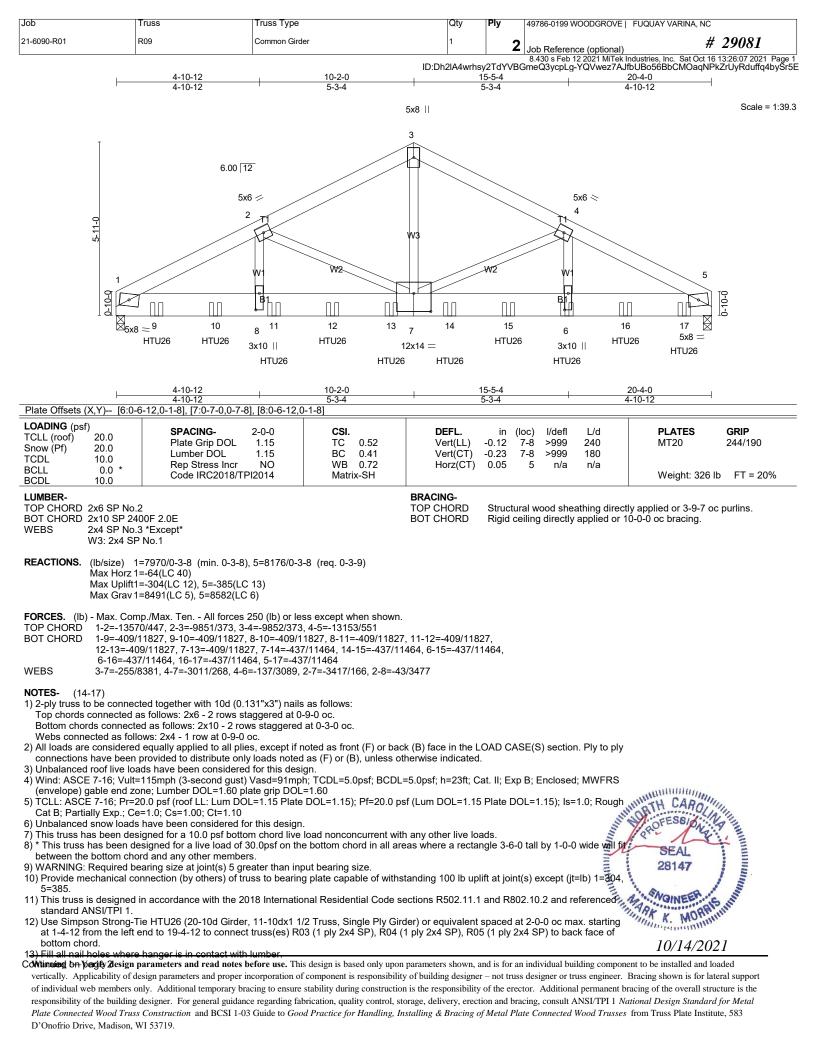
15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate

Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard



10/14/2021



Job	Truss	Truss Type	Qty	Ply	49786-0199 WOODGROVE   FUQUAY VAR	INA, NC	
21-6090-R01	R09	Common Girder	1	2	Job Reference (optional)	# 29081	
8 430 s Feb 12 2021 MiTek Industries Inc. Sat Oct 16 13:26:08 2021 Page 2							

ID:Dh2lA4wrhsy2TdYVBGmeQ3ycpLg-1c2lrJ8p4zjLpygJlJjbwoMY98v4DPhm7JONc1ySr5D

14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

 16) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
 17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

17) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRĂCINĞ OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

## LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-60, 3-5=-60, 1-5=-20

Concentrated Loads (lb)

Vert: 6=-1409(B) 9=-1409(B) 10=-1499(B) 11=-1499(B) 12=-1499(B) 13=-1499(B) 14=-1499(B) 15=-1409(B) 16=-1409(B) 17=-1411(B)



