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 #: 44077 JOB: 24-0137-R01 JOB NAME: LOT 34 PROVIDENCE CREEK Wind Code: 37 Wind Speed: Vult= 120mph Exposure Category: B Mean Roof Height (feet): 35 These truss designs comply with IRC 2015 as well as IRC 2018. 20 Truss Design(s)

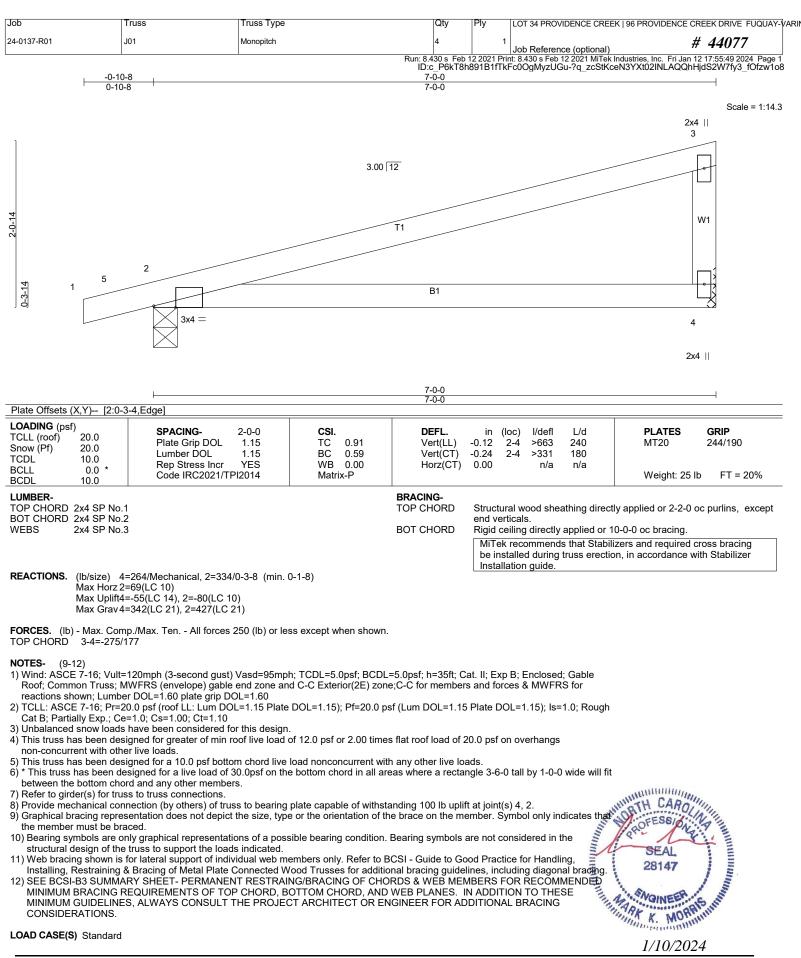
Trusses:

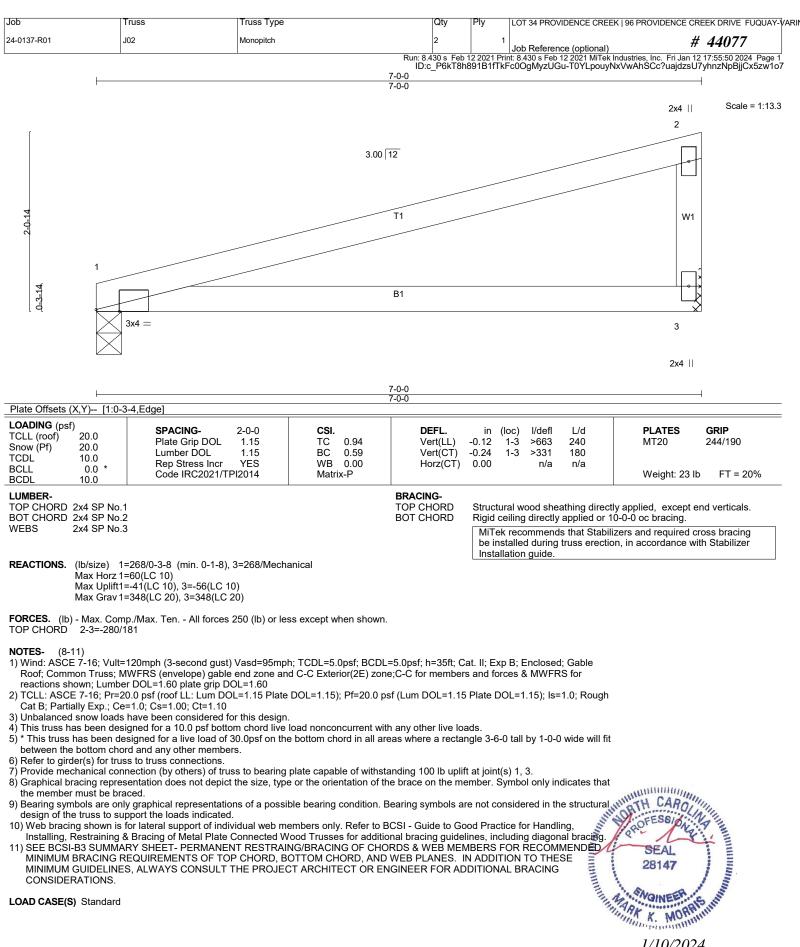
J01, J02, R01, R02, R03, R04, R05, R06, R07, R09, R10, R11, R12, R13, SP01, SP02, VT01, VT02, VT03, VT04



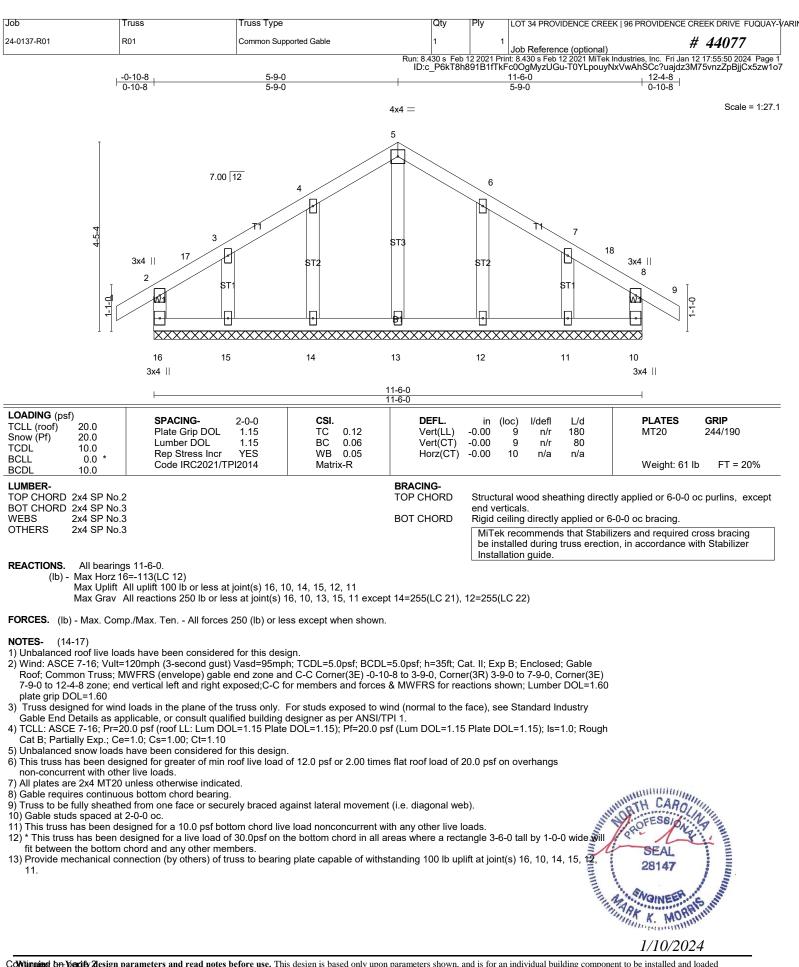
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This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not 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





1/10/2024



Job	Truss	Truss Type	Qty	Ply	LOT 34 PROVIDENCE CREEK 96 PROVIDEN	CE CREEK DRIVE FUQUAY-	VARIN
24-0137-R01	R01	Common Supported Gable	1	1	Job Reference (optional)	# 44077	
		Run: 8.4	130 s Feb '	2 2021 Prir	nt: 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri	Jan 12 17:55:51 2024 Page 2	

ID:c_P6kT8h891B1fTkFc0OgMyzUGu-xD6j17va8Fdnor1P9jPpGrWE6WR8WQpyQNTITXzw1o6 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 Trustees 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.

LOAD CASE(S) Standard



1/10/2024

ob 4-0137-R01	Truss R02		Truss Type	F	Qty 1	Ply LOT 34	PROVIDENCE CREE	K 96 PROVIDENCE CREEK DRIVE FUQUAY- # 44077
- 101-101	RUZ				Run: 8.430 s Feb	Job Re 12 2021 Print: 8.430	ference (optional) s Feb 12 2021 MiTek I IGu-xD6i17ya8Edno	# 44077 Industries, Inc. Fri Jan 12 17:55:51 2024 Page 1 pr1P9jPpGrW9RWNRWKGyQNTITXzw1of
	- <u>0-10-8</u> 0-10-8	5-9-0 5-9-0		10-0-0 4-3-0		20-0-1 10-0-1)	<u>20-10-8</u> 0-10-8
					4x4 =			Scale = 1:44.0
	_				5			
				. //	6			
		7.00	2 3x6 🖉	4				
			24 3			7 25		
	6-11-0	_	H	ST1 23 5	ST2		4 8	
					21 ST3			9
	5x6 ⋍		W 3	₩.		ST4	ST5	3x4 10
		W2					STE	
			B1 []		18			
	20 3x4		4x4 =		3x6 = 17	16 15	14 13	3x4 12
		500		11 6 0			20.0.0	
ate Offsets (X,Y	⊢ ∕) [2:0-2-9.0	<u>5-9-0</u> <u>5-9-0</u> -2-8]		<u>11-6-0</u> 5-9-0			20-0-0 8-6-0	
DADING (psf)	0.0	SPACING-	2-0-0	CSI.	DEFL.		defl L/d	PLATES GRIP
າow (Pf) ໌ 20	0.0	Plate Grip DOL Lumber DOL	1.15 1.15	TC 0.42 BC 0.30	Vert(LL) Vert(CT)	-0.05 19-20 >	999 240 999 180	MT20 244/190
	0.0 * 0.0	Rep Stress Incr Code IRC2021/TF	YES 12014	WB 0.41 Matrix-SH	Horz(CT)	0.01 12	n/a n/a	Weight: 126 lb FT = 20%
UMBER- OP CHORD 2x4	4 SP No.2				BRACING- TOP CHORD	Structural wood	I sheathing directl	y applied or 6-0-0 oc purlins, except
OT CHORD 2x4 /EBS 2x4	4 SP No.2 4 SP No.3				BOT CHORD		ectly applied or 1	0-0-0 oc bracing.
					JOINTS		nends that Stabili	zers and required cross bracing
E ACTIONS. A	ll bearings 8-0	9-8 except (jt=length)	20=0-3-8 17=0	-3-8		Installed d		n, in accordance with Stabilizer
(lb) - Ma	ax Horz 20=-1				3=-127(LC 15)			
		actions 250 lb or les				276(LC 22), 12=	338(LC	
		ax. Ten All forces						
1(0-12=-277/6	3-24=-598/87, 3-4=-3 6, 18-19=-69/600, 17			, 2-20=-641/114,			
		21-23=-488/144, 21			19=0/440			
	of live loads h	ave been considered						
Roof; Common	Truss; MWFI	nph (3-second gust) RS (envelope) gable	end zone and C-	C Exterior(2E) -0-	10-8 to 3-11-2, Inte	rior(1) 3-11-2 to	5-2-6,	
for members ar	nd forces & M	, Interior(1) 14-9-10 WFRS for reactions sf (roof LL: Lum DO	shown; Lumber D	OÒL=1.60 plate gr	ip DOL=1.60	Ū.	$\frac{1}{2} = 1 0$	
	Exp.; Ce=1.0	; Cs=1.00; Ct=1.10 e been considered fo), io 110, i tougi.	MUNITH CARO
	low loads have	d for greater of min r	oof live load of 12	2.0 psf or 2.00 time	es flat roof load of 2	20.0 psf on overh	angs	SEAL
Unbalanced sn		e loads.					5	
Unbalanced sn		e loads. ss otherwise indicate d for a 10.0 psf botto	d. n chord live load	nonconcurrent w	ith any other live loa	ads.		SEAL
Unbalanced sn		e loads. ss otherwise indicate d for a 10.0 psf botto ed for a live load of 3 id any other member on (by others) of frue	rd. m chord live load 0.0psf on the bo s. s to bearing plate	nonconcurrent w ttom chord in all a e capable of withs	ith any other live loa reas where a rectai tanding 100 lb unlif	ads. ngle 3-6-0 tall by t at ioint(s) 20_16	1-0-0 wide will fit	SEAL 28147
) Unbalanced sn		e loads. ss otherwise indicate d for a 10.0 psf botto ed for a live load of 3 d any other member on (by others) of trus	d. n chord live load 0.0psf on the bo s. s to bearing plat	l nonconcurrent w ttom chord in all a e capable of withs	ith any other live loa reas where a recta tanding 100 lb uplit	ads. ngle 3-6-0 tall by t at joint(s) 20, 16	1-0-0 wide will fit	SEAL 28147
Unbalanced sn		e loads. ss otherwise indicate d for a 10.0 psf botto ed for a live load of 3 id any other member on (by others) of trus	d. n chord live load 0.0psf on the bo s. s to bearing plate	nonconcurrent w ttom chord in all a e capable of withs	ith any other live lo: reas where a recta tanding 100 lb uplif	ads. ngle 3-6-0 tall by t at joint(s) 20, 16	1-0-0 wide will fit	SEAL 28147 1/10/2024

[Job	Truss	Truss Type	Qty	Ply	LOT 34 PROVIDENCE CREEK 96 PRO	VIDENCE CREEK DRIVE FUQUAY-V	ARIN
	24-0137-R01	R02	DUAL RIDGE GABLE	1	1	Job Reference (optional)	# 44077	
			Run: 8.4	430 s Feb '	12 2021 Prii	nt: 8.430 s Feb 12 2021 MiTek Industries,	Inc. Fri Jan 12 17:55:51 2024 Page 2	

ID:c_P6kT8h891B1fTkFc0OgMyzUGu-xD6j17va8Fdnor1P9jPpGrW9RWNRWKGyQNTITXzw1o6 10) 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.

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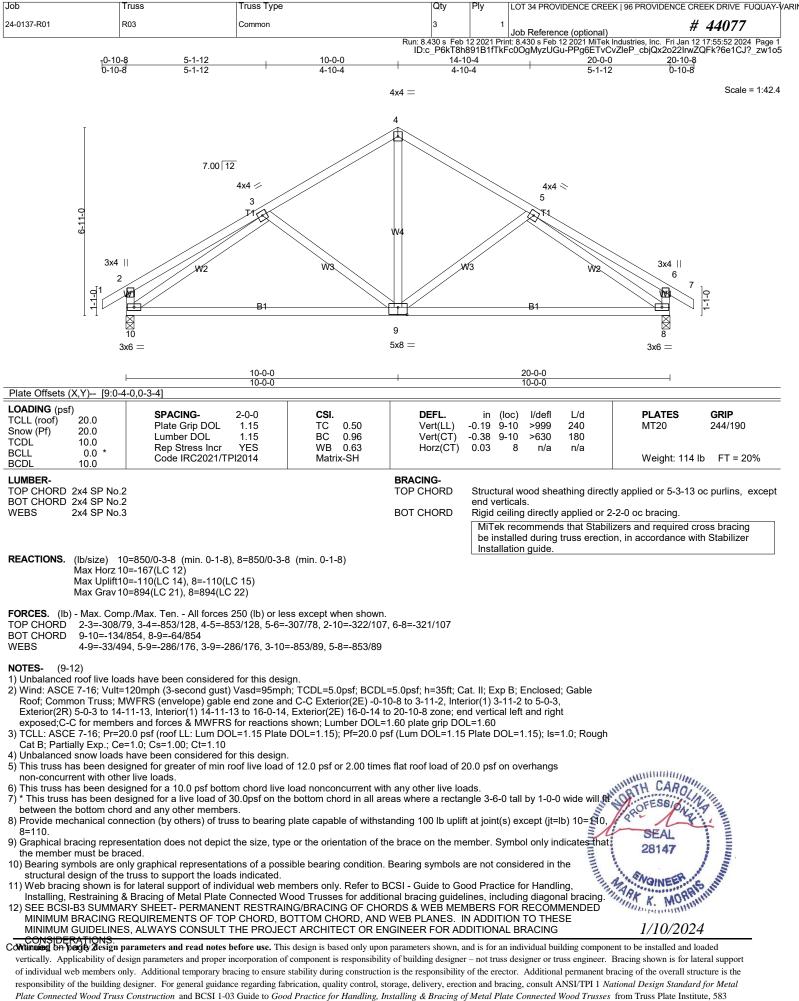
12) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 13) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

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LOAD CASE(S) Standard



1/10/2024



Onofrio	Drive,	Madison,	WI 53	3719.

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Job	Truss	Truss Type	Qty	Ply	LOT 34 PROVIDENCE CREEK 96 PROVIDENCE CREE	EK DRIVE FUQUAY-V	/ARIN
24-0137-R01	R03	Common	3	1	Job Reference (optional) #	44077	

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MITek Industries, Inc. Fri Jan 12 17:55:52 2024 Page 2 ID:c_P6kT8h891B1fTkFc00gMyzUGu-PPg6ETvCvZleP_cbjQx2o22IrwZQFk?6e1CJ?_zw1o5

LOAD CASE(S) Standard



1/10/2024

Job	Truss	Truss Type		Qty Ply	LOT 34 PROVIDENCE	E CREEK 96 PROVIDENCE	CREEK DRIVE FUQUAY-VARI
24-0137-R01	R04	COMMON GIRDE	R	1	3 Job Reference (opt	ional)	# 44077
		5-0-0	10-0-0	Run: 8.430 s Feb 12 202 ID:c_P6kT8h891B1f1 15-0-0	1 Print: 8.430 s Feb 12 2021 kFc0OgMyzUGu-ubEUS	MiTek Industries, Inc. Fri Jan pwqgstV18BnH8SHLGbS 20-0-0	12 17:55:53 2024 Page 1 rKxF_6uFthysXQzw1o4
		5-0-0	5-0-0	5-0-0		5-0-0	
				5x8 =			Scale = 1:43.6
	т			4			
			/				
		7.00 12					
		4x6 📁			4x6 ≈		
	0-11-0 	3 11			Tt,		
	₩ 4x6 // 2		\langle	W3		6 4x6 ≈	
			W2	W2			
		W1	XWX	W2	VV1	HW1 T	
	\bigotimes	11 12 ₁₀ 1		9 15	16 ₈ 17	18	
	6x8 HT	U26 HTU26 _{3x10}	HTU26	7x8 = HTU26	HTU26 _{3x10}	HTU26 6x8	
		HTU		HTU26	HTU26		
		5-0-0 5-0-0	10-0-0 5-0-0	<u> </u>	I	20-0-0 5-0-0	
Plate Offsets (X,Y)		10 0.00	081				
TCLL (roof) 20.0 Snow (Pf) 20.0	SPACIN Plate Gr	rip DOL 1.15	CSI. TC 0.55	Vert(LL) -0.07	n (loc) l/defl L/d 7 9-10 >999 240	PLATES MT20	GRIP 244/190
TCDL 10.0 BCLL 0.0	* Lumber Rep Stro		BC 0.79 WB 0.91 Matrix-SH	Vert(CT) -0.15 Horz(CT) 0.05	5 9-10 >999 180 5 7 n/a n/a	Weight: 43	6 lb FT = 20%
BCDL 10.0		.02021/1712014		BRACING-		Weight. 45	010 F1 - 20%
TOP CHORD 2x6 SF BOT CHORD 2x6 SF				TOP CHORD Stru		directly applied or 6-0-0 d or 10-0-0 oc bracing.	oc purlins.
WEBS 2x4 SF	9 No.3	Right 2x4 SP No.3 -° 2-1	0-5		a coming and day applie	a of to o o oo brading.	
		nin. 0-2-11), 7=6979/0-3-8					
ÌMax H	orz 1=-141(LC 37) plift1=-707(LC 12), 7		(
	rav 1=6829(LC 18),						
		All forces 250 (lb) or less 0/988, 3-4=-7215/728, 4-5					
6-7=-	10031/907 842/8141, 11-12=-	842/8141, 10-12=-842/81	41. 10-13=-842/814	1. 13-14=-842/8141.			
9-14=		01/8289, 15-16=-701/828					
	,	2/326, 5-8=-234/3301, 3-9	=-2373/381, 3-10=	-291/3102			
NOTES- (12-15) 1) 3-ply truss to be co	nnected together wit	th 10d (0.131"x3") nails as	s follows:				
Top chords connec	ted as follows: 2x6 -	2 rows staggered at 0-9- x6 - 2 rows staggered at 0) ос.				
2) All loads are consid		d to all plies, except if note			CASE(S) section. Ply t	o ply	
3) Unbalanced roof liv	e loads have been o	ribute only loads noted as considered for this design					
4) Wind: ASCE 7-16; (envelope) gable e	Vult=120mph (3-sec nd zone; Lumber DC	ond gust) Vasd=95mph; DL=1.60 plate grip DOL=1 : Lum DOL=1.15 Plate D0 Ct=1.10 isidered for this design.	FCDL=5.0psf; BCD .60	L=5.0psf; h=35ft; Cat. II;	Exp B; Enclosed; MWI	RS WINNING CARO	Million .
5) TCLL: ASCE 7-16; Cat B; Partially Exp	Pr=20.0 psf (roof LL b.; Ce=1.0; Cs=1.00;	:: Lum DOL=1.15 Plate D0 Ct=1.10	DL=1.15); Pf=20.0	psf (Lum DOL=1.15 Plate	e DOL=1.15); ls=1.0; R	OFESSION	Ngin
This truss has been	n designed for a 10.0) psf bottom chord live loa	d nonconcurrent w	ith any other live loads.		A CEAL	
between the botton	n chord and any othe			0		28147	
9) Provide mechanica 7=651.	I connection (by oth	ers) of truss to bearing pla I0d Girder, 11-10dx1 1/2 ⁻	ite capable of withs	standing 100 lb uplift at jo	int(s) except (jt=lb) 1=7	197,	
at 2-0-12 from the	left end to 18-0-12	to connect truss(es) R10 (Fruss, Single Ply G 1 ply 2x4 SP), R11	irder) or equivalent space (1 ply 2x4 SP) to back fa	ed at 2-0-0 oc max. sta ace of bottom chord.	rting TARK ONE	ALS INTER
11) Fill all nail holes v	/here hanger is in co	ntact with lumber.				With W. MO	24
A	•					1/10/20	24
Contanuineg on pergify 21e	sign parameters and r	ead notes before use. This de	esign is based only upo	on parameters shown, and is f	or an individual building c	omponent to be installed and	1 loaded

1	Job	Truss	Truss Type	Qty	Ply	LOT 34 PROVIDENCE CREEK 96 PR	ROVIDENCE CREEK DRIVE FUQUAY-VA
	24-0137-R01	R04	COMMON GIRDER	1	3	Job Reference (optional)	# 44077
			Run 8	430 s Feb 1	12 2021 Pri	nt: 8 430 s Eeb 12 2021 MiTek Industries	Inc. Fri Jan 12 17:55:53 2024 Page 2

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LOAD CASE(S) Standard

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

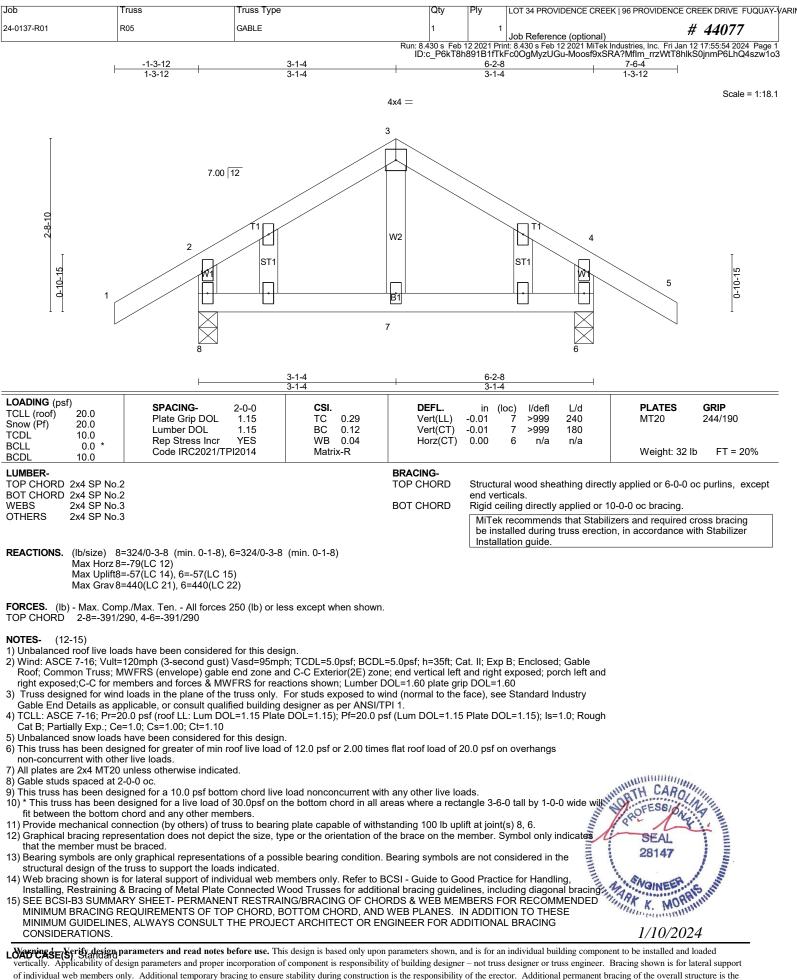
Uniform Loads (plf) Vert: 1-4=-60, 4-7=-60, 1-7=-20

Concentrated Loads (lb)

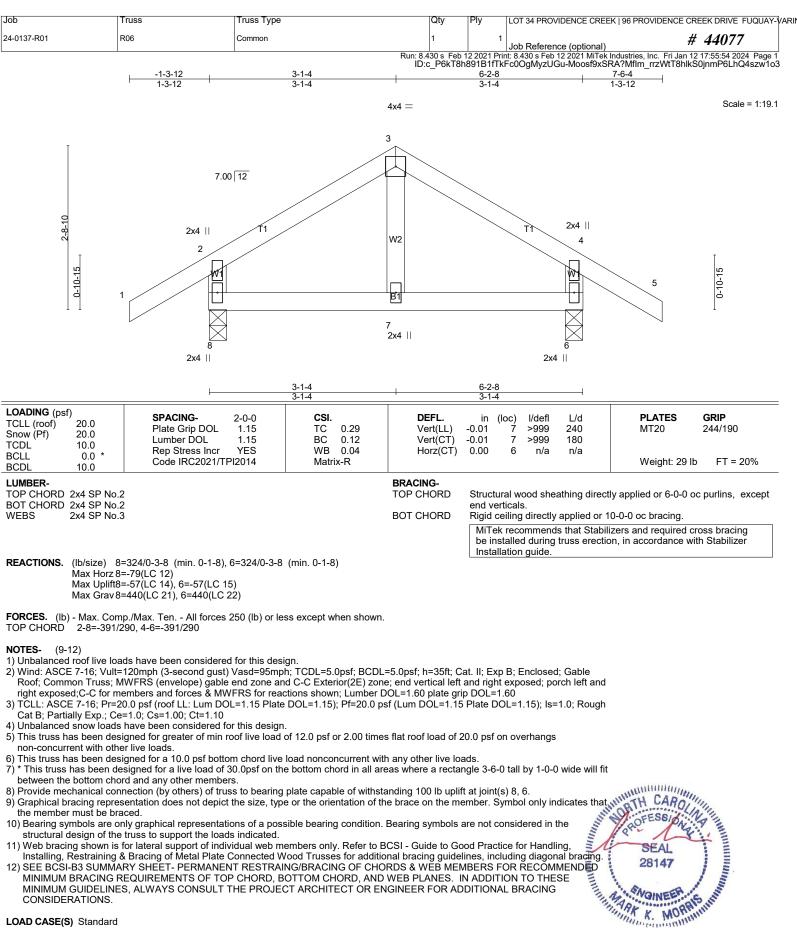
Vert: 9=-1372(B) 11=-1282(B) 12=-1282(B) 13=-1372(B) 14=-1372(B) 15=-1372(B) 16=-1372(B) 17=-1372(B) 18=-1372(B)



1/10/2024

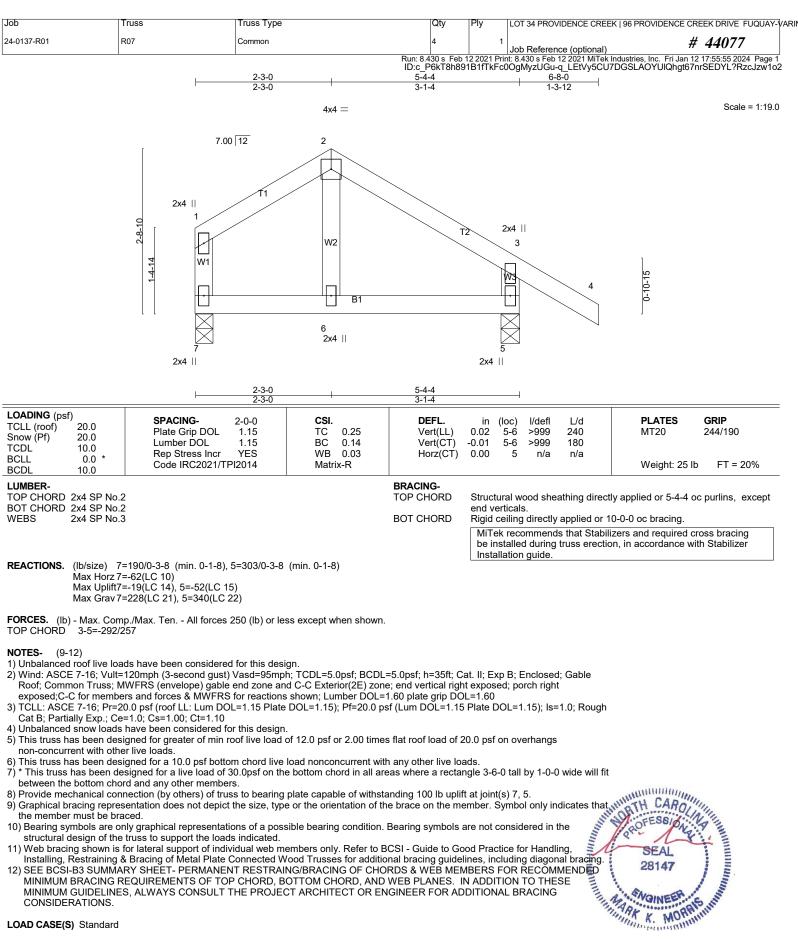


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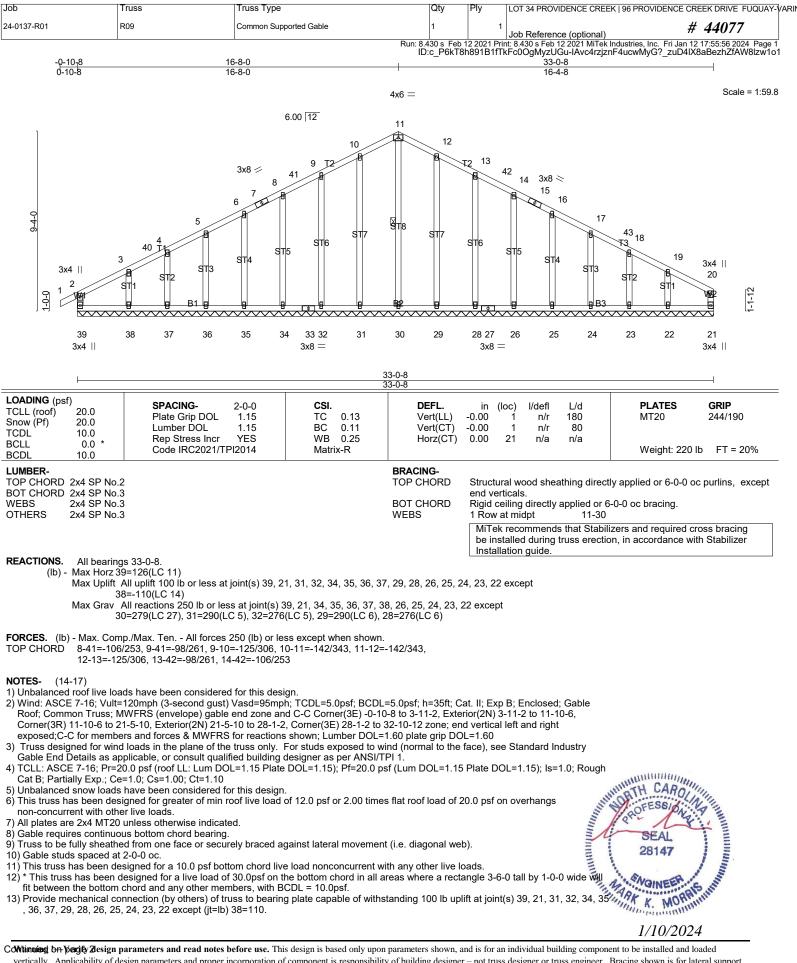
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1/10/2024



[Job	Truss	Truss Type	Qty	Ply	LOT 34 PROVIDENCE CREEK 96 PROVIDEN	CE CREEK DRIVE FUQUAY-	/ARII
	24-0137-R01	R09	Common Supported Gable	1	1	Job Reference (optional)	# 44077	
			Run: 8.4	130 s Feb 1	2 2021 Pri	nt: 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri	Jan 12 17:55:56 2024 Page 2	

ID:c_P6kT8h891B1fTkFc0OgMyzUGu-IAvc4rzjznF4ucwMyG?_zuD4IX8aBezhZfAW8lzw101 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.

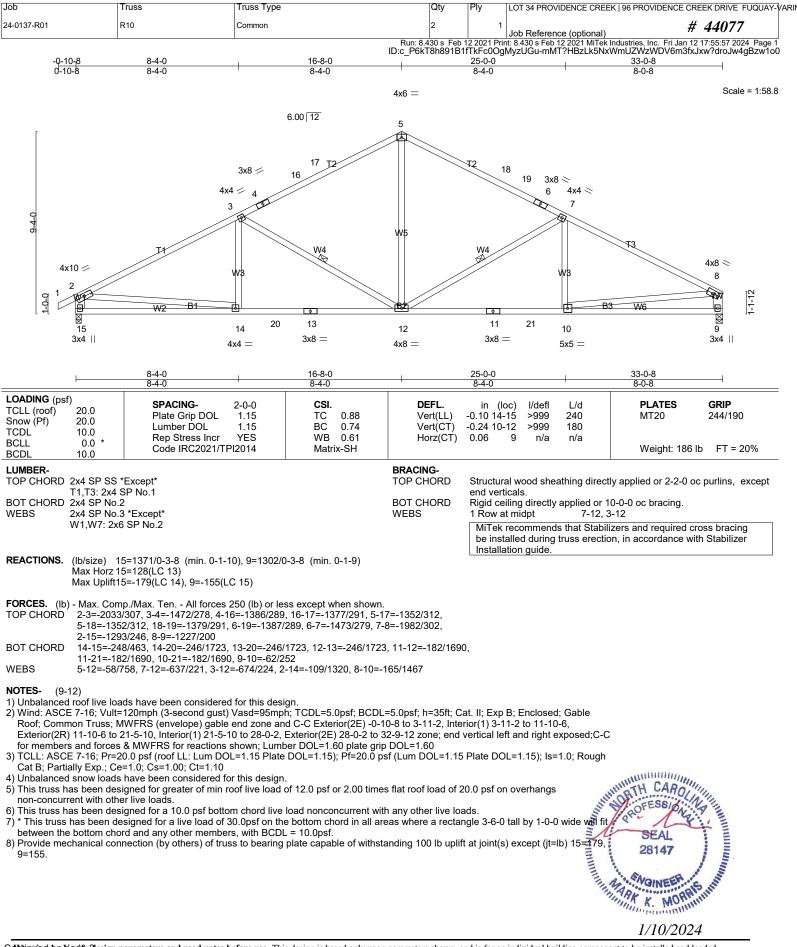
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LOAD CASE(S) Standard



1/10/2024



Job	Truss	Truss Type	Qty	Ply	LOT 34 PROVIDENCE CREEK 96 PRO	VIDENCE CREEK DRIVE FUQUAY-V
24-0137-R01	R10	Common	2	1	Job Reference (optional)	# 44077
		Run:	8.430 s Feb	12 2021 Pri	int: 8.430 s Feb 12 2021 MiTek Industries,	Inc. Fri Jan 12 17:55:57 2024 Page 2

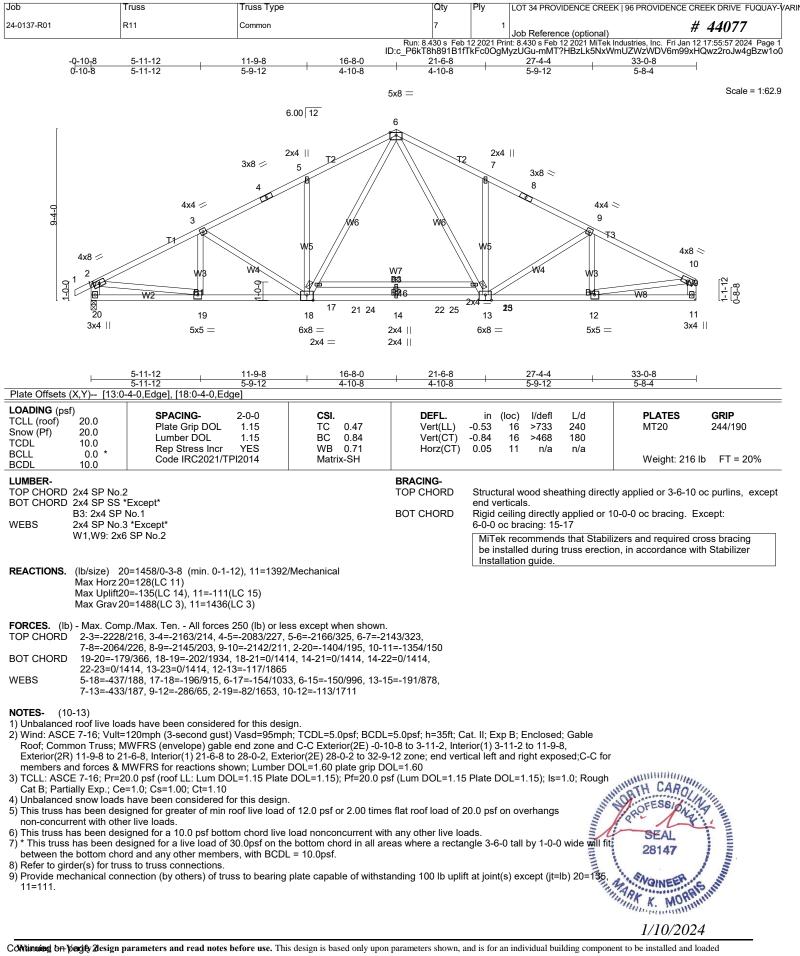
ID:c_P6kT8h891B1fTkFc00gMyzUGu-mMT?HBzLk5NxWmUZWzWDV6m3fxJxw?droJw4gBzw1o0

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LOAD CASE(S) Standard



1/10/2024



[Job	Truss	Truss Type	Qty	Ply	LOT 34 PROVIDENCE CREEK 96 PROVIDE	NCE CREEK DRIVE FUQUAY-	/ARII
	24-0137-R01	R11	Common	7	1	Job Reference (optional)	# 44077	
			Run: 8.	430 s Feb '	12 2021 Pri	nt: 8.430 s Feb 12 2021 MiTek Industries. Inc. F	ri Jan 12 17:55:58 2024 Page 2	

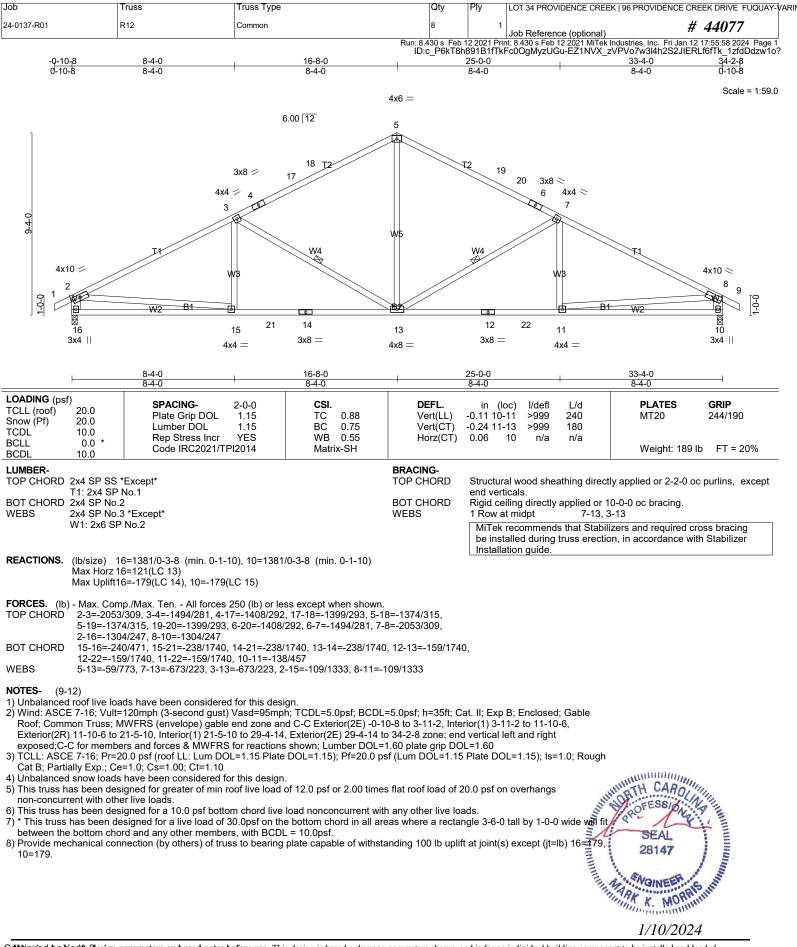
ID:c_P6kT8h891B1fTkFc0OgMyzUGu-EZ1NVX_zVPVo7w3l4h2S2JIKvLdffQH_1zfdDdzw1o?

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LOAD CASE(S) Standard



1/10/2024



Job	Truss	Truss Type	Qty Ply LOT 34 PF	ROVIDENCE CREEK 96 PROVIDENCE CREEK DRIVE FUQUAY-VARIN
24-0137-R01	R12	Common	8 1 Job Refe	rence (optional) # 44077
-		·	Run: 8.430 s Feb 12 2021 Print: 8.430 s F	eb 12 2021 MiTek Industries, Inc. Fri Jan 12 17:55:58 2024 Page 2

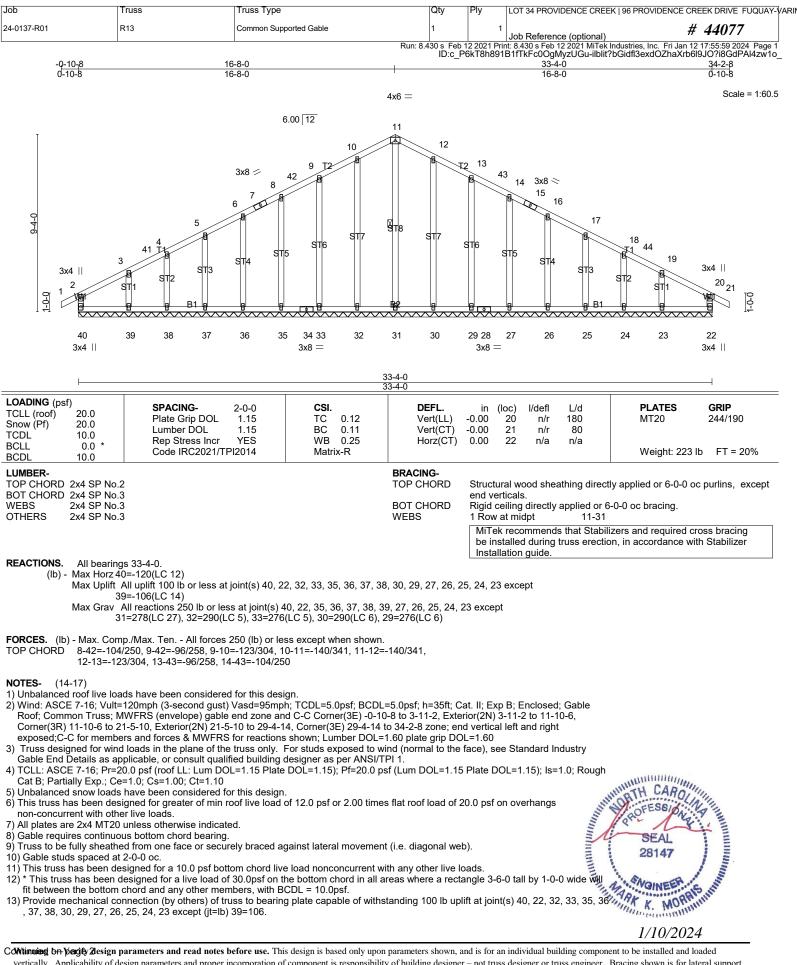
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- 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 10) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.
- 11) 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. 12) 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	LOT 34 PROVIDENCE CREEK 96 PROVIDENCE CREEK DRIVE FUQUAY-	/ARIN
	24-0137-R01	R13	Common Supported Gable	1	1	Job Reference (optional) # 44077	
			Run: 8.4	130 s Feb 1	2 2021 Prir	nt: 8.430 s Feb 12 2021 MiTek Industries, Inc. Fri Jan 12 17:55:59 2024 Page 2	

ID:c_P6kT8h891B1fTkFc0OgMyzUGu-ilblit?bGidfl3exdOZhaXrb6l9JO?i8GdPAl4zw1o_ 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 Trustees 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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