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 #: 28472 JOB: 21-4053-R01 JOB NAME: LOT 0.0056 OLDE MILL VILLAGE Wind Code: 37 Wind Speed: Vult= 120mph Exposure Category: B Mean Roof Height (feet): 23 These truss designs comply with IRC 2015 as well as IRC 2018. *47 Truss Design(s)*

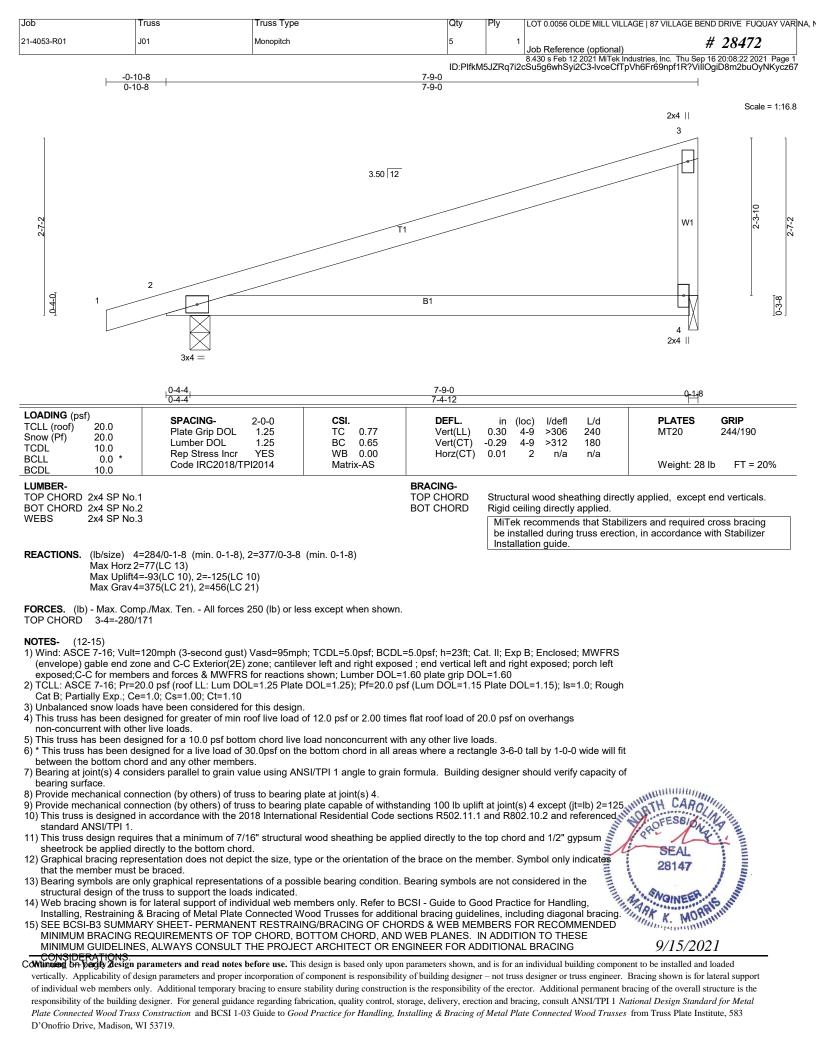
Trusses:

J01, J01A, J02, J03, J04, J05, J06, J07, J08, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R27, R27A, R28, R29, R30, R31, R32, R33, SP01, SP02, V01, V02, V03, V04, V05



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 *Good Practice for Handling*,



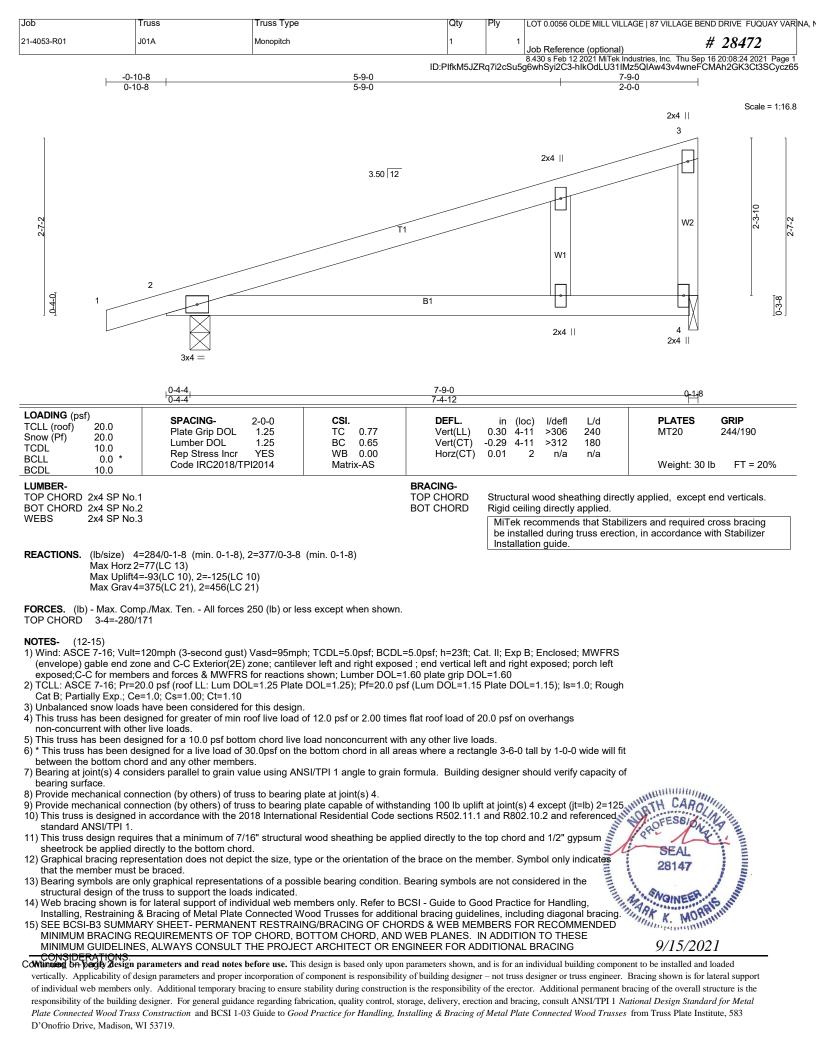
Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE BEND DRIVE FUQUA	Y VARINA, M
21-4053-R01	J01	Monopitch	5	1	Job Reference (optional) # 28472	

8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Sep 16 20:08:23 2021 Page 2 ID:PIfkM5JZRq7i2cSu5g6whSyi2C3-D5A0Q?URG_E6TGk_MNYgYjETVo0xyb0BqY8Wwmycz66

LOAD CASE(S) Standard



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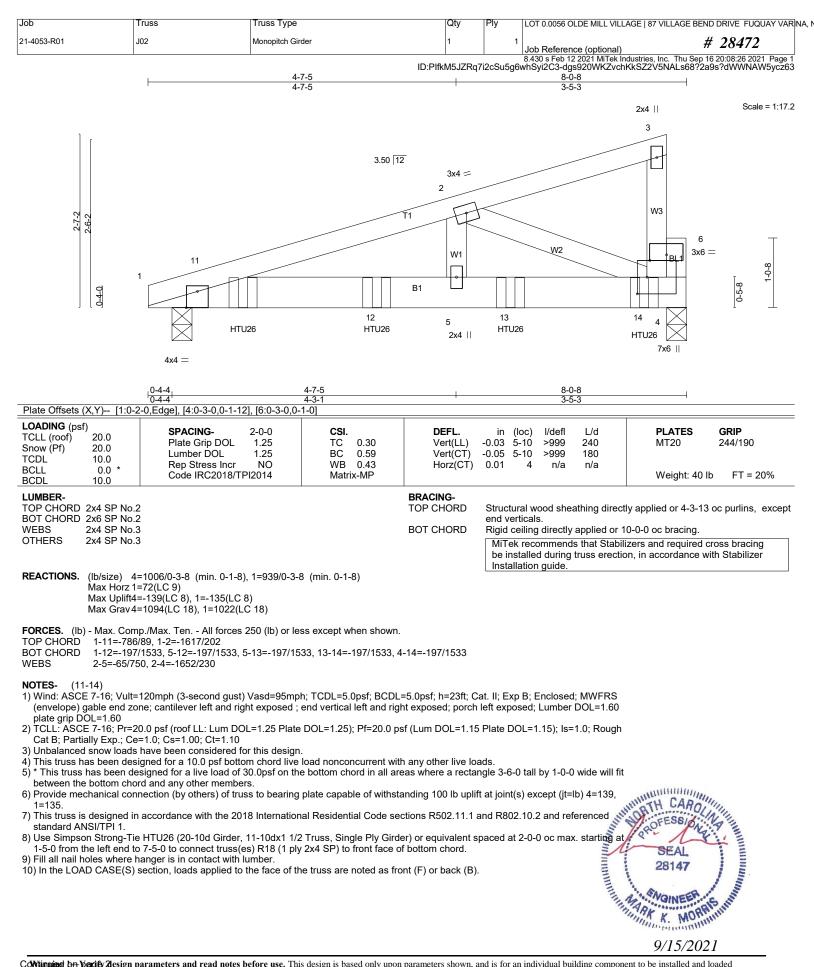
Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE BEND	DRIVE FUQUAY VAR	√A, N
21-4053-R01	J01A	Monopitch	1	1	Job Reference (optional) #	28472	

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LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE BEND DRIVE FUQUAY VA	ARINA, M
21-4053-R01	J02	Monopitch Girder	1	1	Job Reference (optional) # 28472	
					8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Sep 16 20:08:27 2021 Page	2

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- 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.
 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.
- 13) 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.
 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- 14) 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

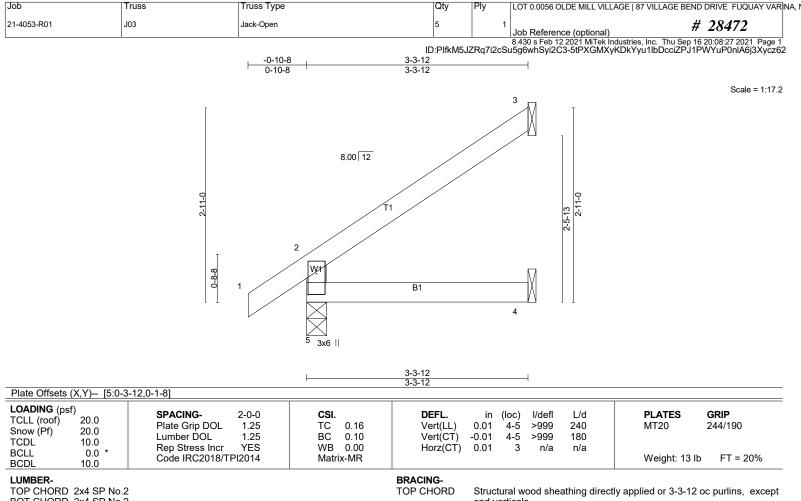
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-3=-60, 1-4=-20

Concentrated Loads (lb)

Vert: 10=-332(F) 12=-332(F) 13=-332(F) 14=-338(F)





BOT CHORD

BOT CHORD 2x4 SP No.2 2x4 SP No 3

WFBS

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

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

9/15/2021

REACTIONS. (Ib/size) 5=195/0-3-8 (min. 0-1-8), 3=80/Mechanical, 4=34/Mechanical Max Horz 5=76(LC 12) Max Uplift5=-4(LC 12), 3=-49(LC 12)

Max Grav 5=195(LC 1), 3=85(LC 20), 4=58(LC 5)

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

NOTES-(9-12)

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); 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
- 3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
- 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 1-0-0 wide will fit between the bottom chord and any other members.

- 6) 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) 5, 3.

- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 3.
 8) 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.
 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
 LOAD CASE(S) Standard

LOAD CASE(S) Standard

Job	russ	Truss Type		Qty	Ply	LOT 0.0056 O	LDE MILL VILLA	GE 87 VILLAGE BEND DRIVE FUQUAY VAR
21-4053-R01 J0)4	Half Hip		1		1	ce (optional)	# 28472
	⊢–	-0-10-8 0-10-8	2-5- 2-5-	-4	1	8.430 s Feb 12 Su5g6whSyi2C 3-3-12 0-10-8	2 2021 MiTek Indi 3-a3zvTiXa5X	ustries, Inc. Thu Sep 16 20:08:28 2021 Page 1 PZ1cx9w8rFmyVRpsgdsyw_qsGbzycz61
		2	x6	4x4 = 	3 W2 6 _{2x4}	4 T2	2-0-8	Scale = 1:14.3
Plate Offsets (X,Y) [7:0-3-	-12.0-1-8]		2-5- 2-5-	4 4		3-3-12 0-10-8		
LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/1	2-0-0 1.25 1.25 YES 'PI2014	CSI. TC 0.12 BC 0.10 WB 0.02 Matrix-MP	DEFL. Vert(LL) Vert(CT) Horz(CT)	in 0.01 -0.01 0.01	(loc) l/defl 6-7 >999 6-7 >999 4 n/a	L/d 240 180 n/a	PLATES GRIP MT20 244/190 Weight: 15 lb FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.2 WEBS 2x4 SP No.3				BRACING- TOP CHORD BOT CHORD	end ve Rigid o MiTe	rticals. ceiling directly k recommend	applied or 6-0 s that Stabiliz	applied or 3-3-12 oc purlins, except)-0 oc bracing. ers and required cross bracing , in accordance with Stabilizer

Installation guide.

REACTIONS. (lb/size) 4=43/Mechanical, 7=195/0-3-8 (min. 0-1-8), 5=71/Mechanical Max Horz 7=60(LC 12) Max Uplift4=-5(LC 9), 7=-14(LC 12), 5=-24(LC 12)

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

NOTES-(11-14)

- 1) Unbalanced roof live loads have been considered for this design.
- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); 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

4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.

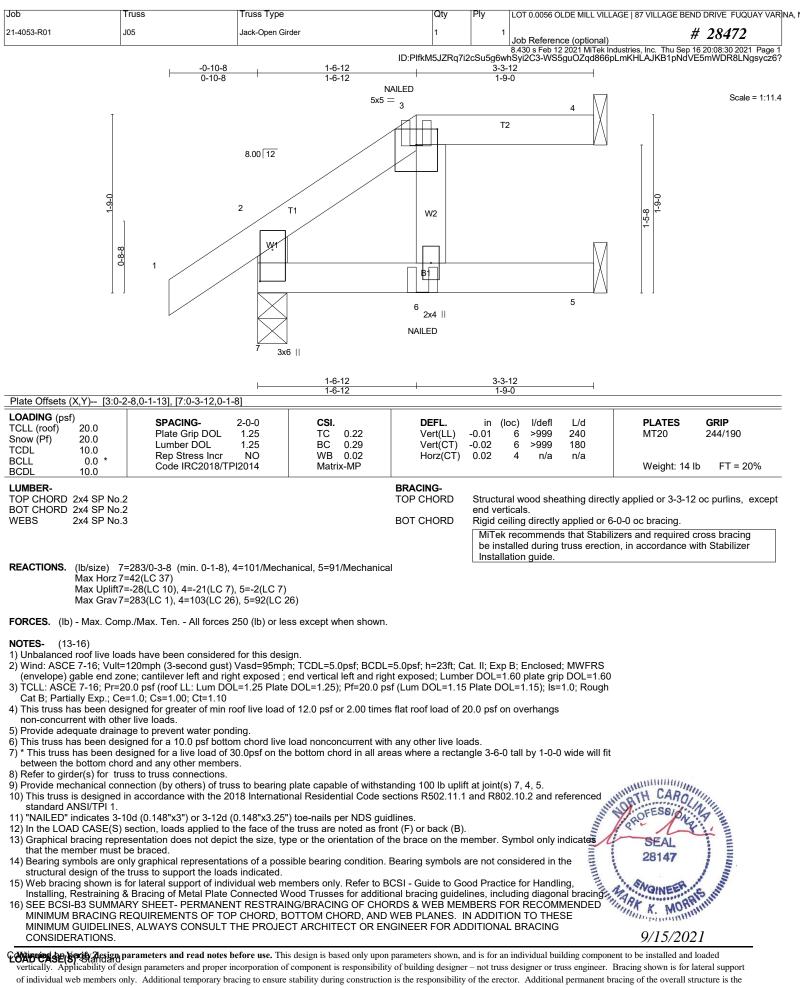
- 5) Provide adequate drainage to prevent water ponding.
- 6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
- between the bottom chord and any other members.
- 8) Refer to girder(s) for truss to truss connections.

- standard ANSI/TPI 1.
 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 only graphical representations of a possible bearing condition. Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are only graphical representations.

- structural design of the truss to support and the support and the support and the support of individual web members only. Refer to boot. Control of the support of individual web members only. Refer to boot. Control of the support of individual web members only. Refer to boot. Control of the support of individual web members only. Refer to boot. Control of the support of the support of individual web members only. Refer to boot. Control of the support of the support of individual web members only. Refer to boot. Control of the support of the s CONSIDERATIONS.

LOAD CASE(S) Standard





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 Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE	EBEND DRIVE FUQUAY VAR
21-4053-R01	J05	Jack-Open Girder	1	1	Job Reference (optional)	# 28472

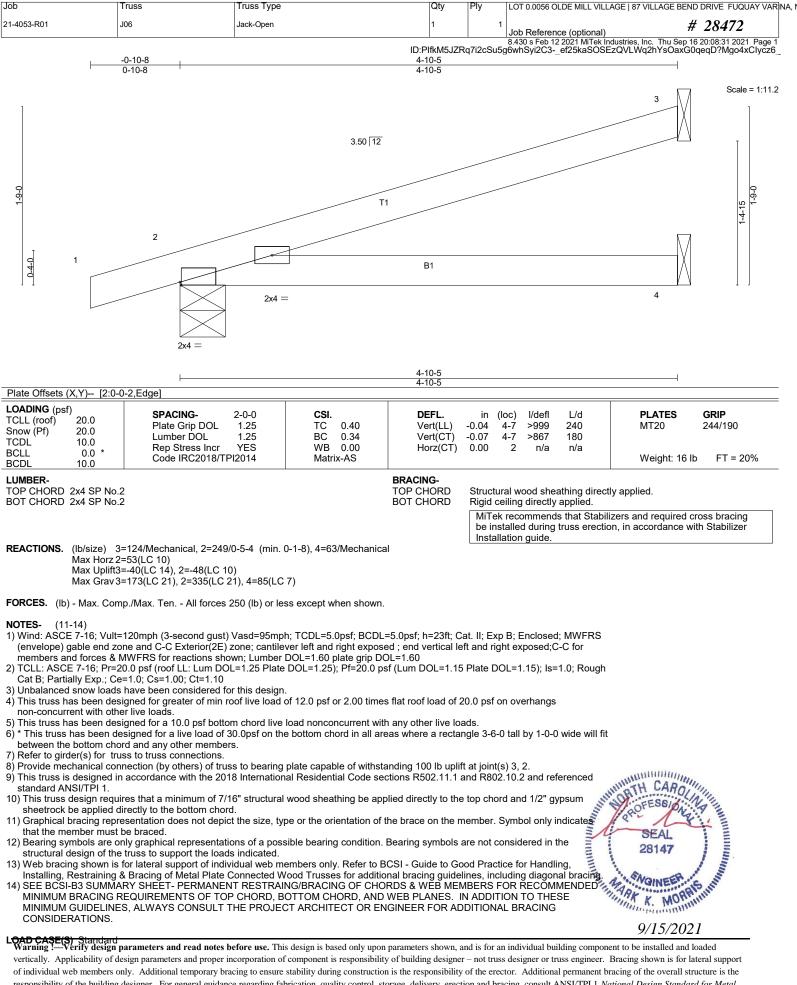
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LOAD CASE(S) Standard

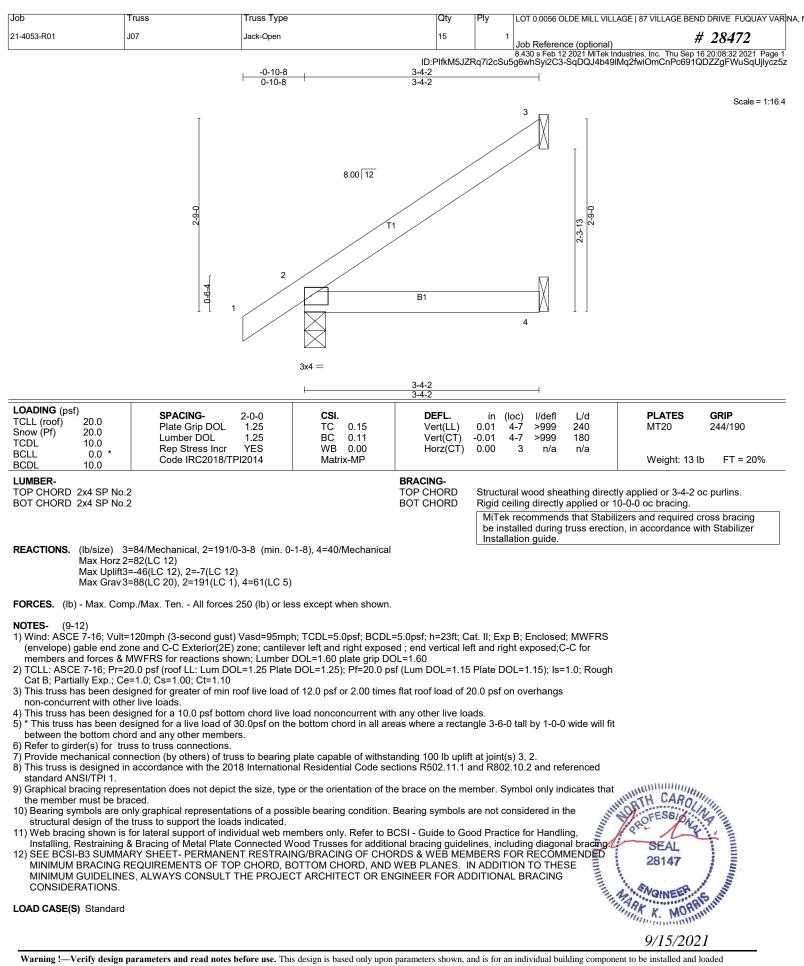
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15 Uniform Loads (plf) Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20 Concentrated Loads (lb) Vert: 3=-113(B) 6=-53(B)

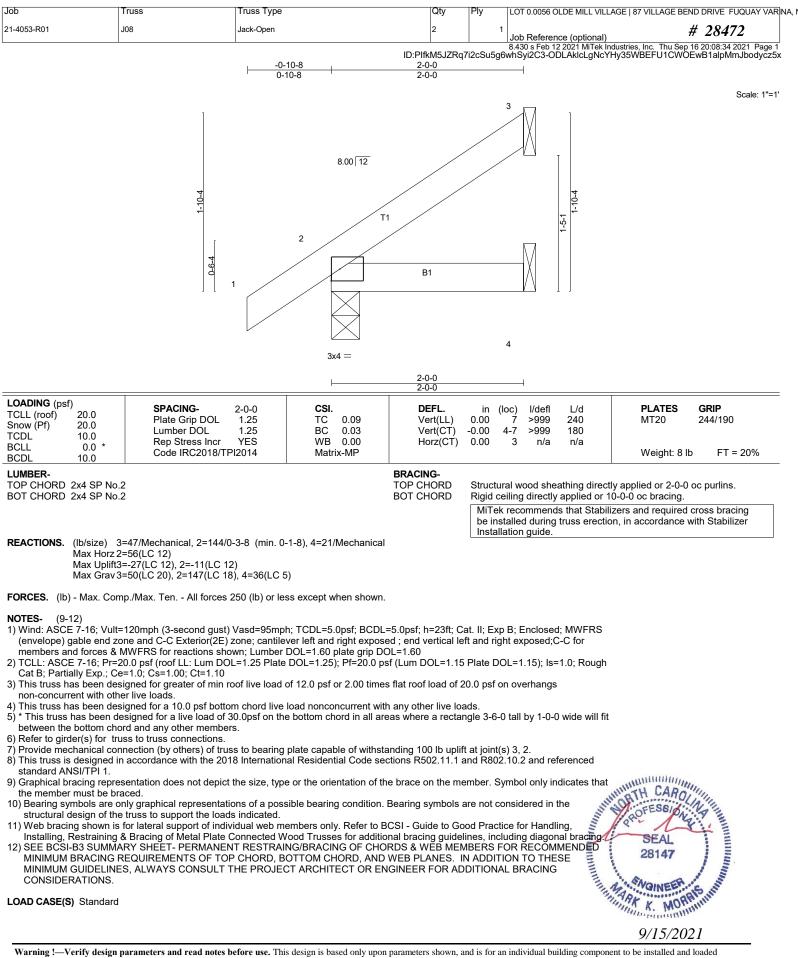


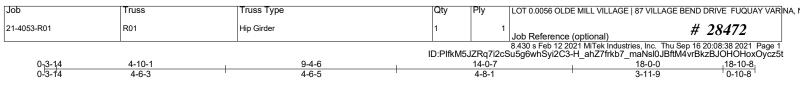
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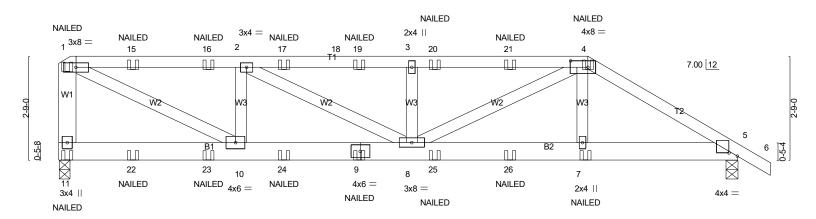
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Scale = 1:30.5



	4-1			9-4-6 4-6-5			14-0-7	7			<u>18-0-0</u> 3-11-9	
Plate Offsets		,0-2-0], [5:0-2-11,0-1-1]	4-0-5			4-0-1				3-11-9	
LOADING (psi TCLL (roof) Snow (Pf) TCDL BCLL BCDL	f) 20.0 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/TF	2-0-0 1.25 1.25 NO 212014		0.63 0.44 0.80 ix-MSH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in -0.09 -0.14 0.02	(loc) 8 8-10 5	l/defl >999 >999 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 106 lb	GRIP 244/190
LUMBER- TOP CHORD BOT CHORD WEBS	2x4 SP No.2					BRACING- TOP CHORD BOT CHORD	end v Rigid MiTe be in	erticals ceiling ek reco nstalleo	s. directly ommend	applied or 1 s that Stabili	ly applied or 3-2-3 oc 10-0-0 oc bracing. izers and required cro on, in accordance with	oss bracing
REACTIONS.	Max Horz 11= Max Uplift11=	962/0-3-8 (min. 0-1-8) -77(LC 10) -191(LC 8), 5=-129(LC 1250(LC 33), 5=1006(13)	(min. 0-1-	8)				•			
FORCES. (Ib TOP CHORD BOT CHORD WEBS	1-15=-1791/2 18-19=-2252 4-5=-1694/22 10-24=-255/ 7-26=-158/14	Max. Ten All forces 254, 15-16=-1791/254, /321, 3-19=-2252/321, 29, 1-11=-1139/220 1791, 9-24=-255/1791, 452, 5-7=-161/1443 322, 2-10=-759/196, 2-	2-16=-1791/2 3-20=-2252/3 8-9=-255/179	254, 2-17=- 321, 20-21= 91, 8-25=-1	2252/321, 1 =-2252/321, 58/1452, 25	7-18=-2252/321, 4-21=-2252/321, 5-26=-158/1452,						
(envelope) 2) TCLL: ASC Cat B; Parti 3) Unbalanced 4) This truss h non-concur 5) Provide ade	E 7-16; Vult=12 gable end zone E 7-16; Pr=20.0 ally Exp.; Ce=1 d snow loads ha has been design rent with other l equate drainage	Omph (3-second gust) ; cantilever left and rig) psf (roof LL: Lum DO .0; Cs=1.00; Ct=1.10 ave been considered for led for greater of min r ive loads. to prevent water pond and for a 10.0 psf botto gned for a live load of (and any other member ction (by others) of trus ccordance with the 201 I (0.148"x3") or 3-12d (ction, loads applied to	ht exposed ; e L=1.25 Plate or this design. oof live load c ling	end vertical DOL=1.25) f 12.0 psf o	l left and rig); Pf=20.0 p or 2.00 time	ht exposed; Lumb of (Lum DOL=1.15 s flat roof load of 2	er DÓL 5 Plate I 20.0 psf	=1.60 DOL=1	olate griț .15); ls= erhangs	DOL=1.60 1.0; Rough	TH CARO	HILL A CONTRACT OF THE OWNER
											0/15/2021	1

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VIL	LAGE BEND DRIVE FUQUAY VAR NA
21-4053-R01	R01	Hip Girder	1	1	Job Reference (optional)	# 28472
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- 12) 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. 13) 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.
- 14) 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. 15) 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) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

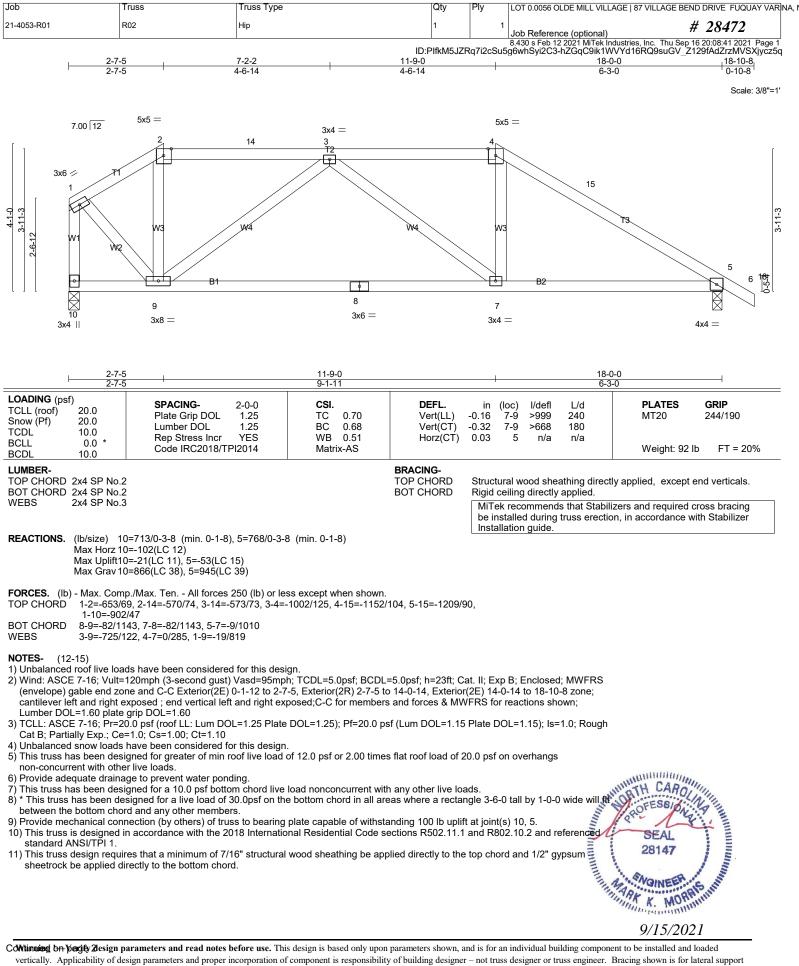
Uniform Loads (plf) Vert: 1-4=-60, 4-6=-60, 11-12=-20

Concentrated Loads (lb)

Vert: 1=-50(B) 4=-24(B) 11=-28(B) 9=-20(B) 7=-20(B) 15=-24(B) 16=-24(B) 17=-24(B) 19=-24(B) 20=-24(B) 21=-24(B) 22=-20(B) 23=-20(B) 24=-20(B) 25=-20(B) 25=-26=-20(B)



9/15/2021



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87	VILLAGE BEND DRIVE FUQUAY VAR NA,
21-4053-R01	R02	Hip	1		1 Job Reference (optional)	# 28472
					8 430 s Eeb 12 2021 MiTek Industries	Inc. Thu Sep 16 20:08:41 2021 Page 2

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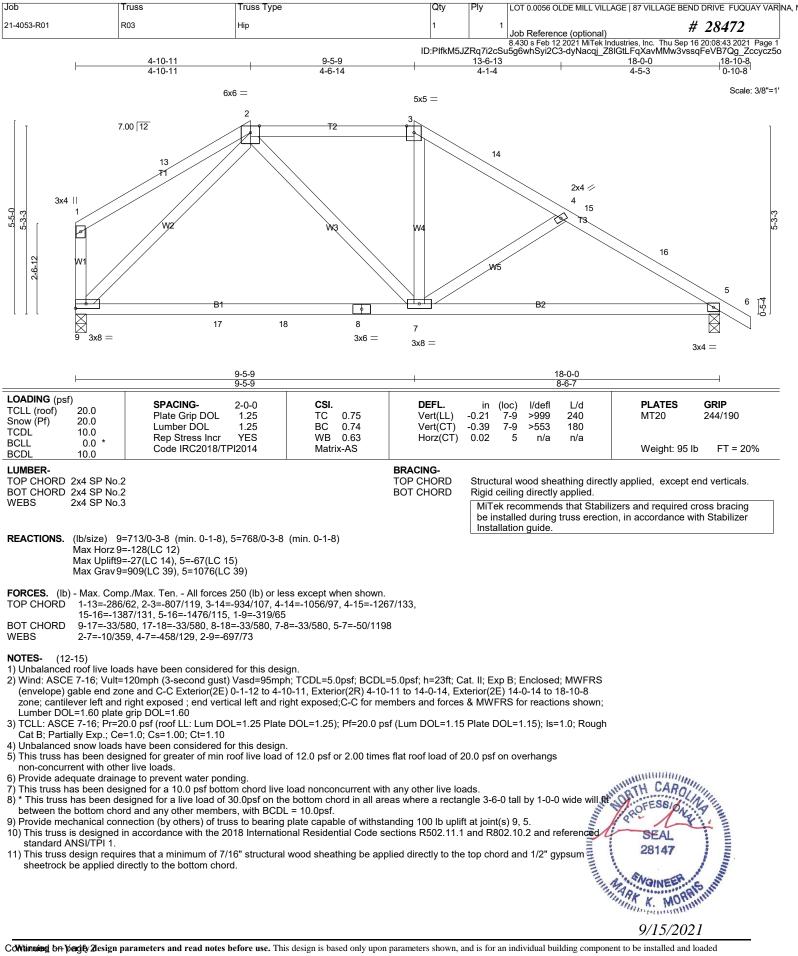
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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VIL	LAGE BEND DRIVE FUQUAY VAR NA,
21-4053-R01	R03	Нір	1	1	Job Reference (optional)	# 28472
					8 430 s Feb 12 2021 MiTek Industries Inc.	Thu Sep 16 20:08:44 2021 Page 2

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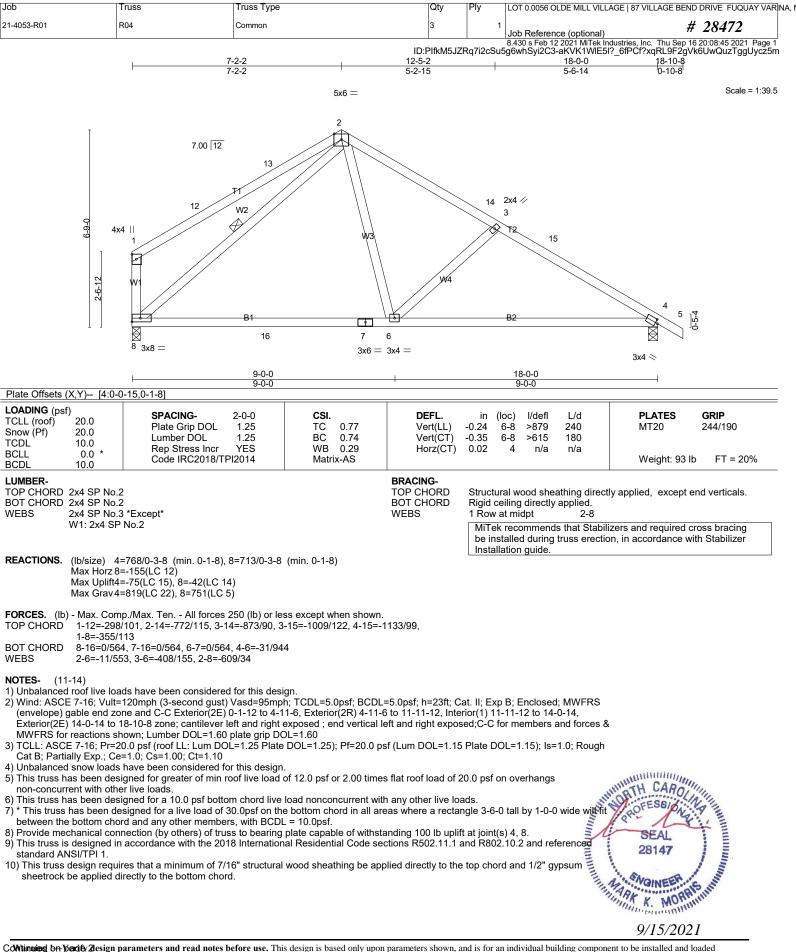
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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE BEND DRIVE FUQUAY VAR
21-4053-R01	R04	Common	3	1	Job Reference (optional) # 28472
					8,430 s Feb 12 2021 MiTek Industries, Inc. Thu Sep 16 20:08:45 2021 Page 2

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 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.
 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

14) 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



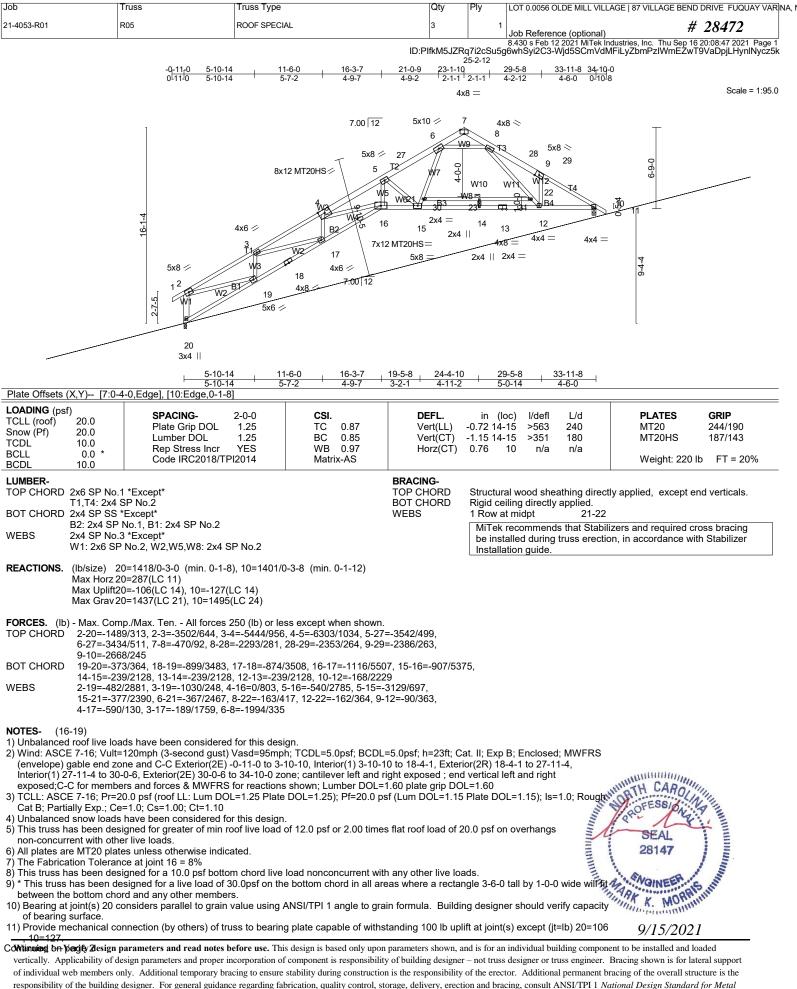
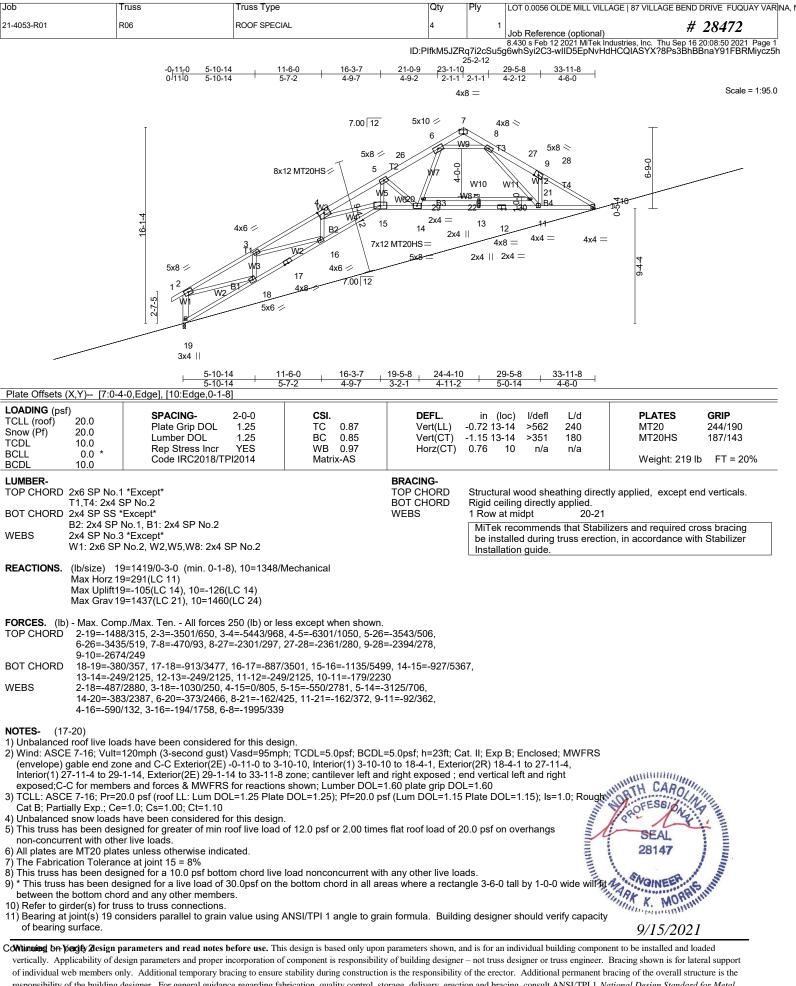


Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL V	ILLAGE 87 VILLAGE	BEND DRIVE FUQUAY VAR NA,
21-4053-R01	R05	ROOF SPECIAL	3	1	lob Reference (anticas	al)	# 28472
	1			IZRa7i2a	Job Reference (optiona 8.430 s Feb 12 2021 MiTel Su5g6wbSvi2C3- vBTg	k Industries, Inc. Thu S	ep 16 20:08:48 2021 Page 2 (3_njgtVkJg2taxiKHpycz5j
NOTES- (16-19)				-		-	
		018 International Residential Code sections , 29, 30, 31, 36, 37 has/have been modified					
use of this truss. 14) This truss design re	equires that a minimum of 7/	16" structural wood sheathing be applied di	rectly to the	ton chore	d and 1/2" gypsum she	etrock be applied	directly to the bottom
chord.		0			gypoun one		
16) Graphical bracing r	representation does not depi	the face of the truss are noted as front (F) on the size, type or the orientation of the brain the size.	ce on the m				
 Bearing symbols and loads indicated. 	re only graphical representat	ons of a possible bearing condition. Bearing	g symbols a	re not co	nsidered in the structu	iral design of the ti	uss to support the
		vidual web members only. Refer to BCSI - 0 guidelines, including diagonal bracing.	Guide to Goo	d Practio	ce for Handling, Install	ling, Restraining &	Bracing of Metal Plate
19) SEE BCSI-B3 SUM	IMARY SHEET- PERMANE	NT RESTRAING/BRACING OF CHORDS &					
	ADDITIONAL BRACING CON	B PLANES. IN ADDITION TO THESE MIN SIDERATIONS.		ELINES,	, ALWAYS CONSULT	THE PROJECT A	RCHITECTOR
LOAD CASE(S) Stand	ard						
	nced): Lumber Increase=1.15	, Plate Increase=1.15					
Vert: 1-2=-6	0, 2-7=-60, 7-11=-60, 16-20=						
3) Dead + 0.75 Root Li Uniform Loads (plf)	ive (balanced) + 0.75 Uninha	b. Attic Storage: Lumber Increase=1.25, Pla	ate Increase	=1.25			
		-20, 16-24=-20, 30-31=-45(F) ttic Storage: Lumber Increase=1.15, Plate I	ncrease=1 1	5			
Uniform Loads (plf)	,			-			
5) Dead + 0.75 Snow (-20, 16-24=-20, 30-31=-45(F) Attic Storage: Lumber Increase=1.15, Plate	e Increase=1	.15			
Uniform Loads (plf) Vert: 1-2=-5	0, 2-27=-50, 7-27=-77, 7-11=	-29, 16-20=-20, 16-24=-20, 30-31=-45(F)					
6) Dead + 0.75 Snow (Uniform Loads (plf)	Unbal. Right) + 0.75 Uninhal	o. Attic Storage: Lumber Increase=1.15, Pla	te Increase=	1.15			
Vert: 1-2=-2		-50, 16-20=-20, 16-24=-20, 30-31=-45(F)					
Uniform Loads (plf)	Ū.	hber Increase=1.25, Plate Increase=1.25					
		-40, 16-24=-40, 30-31=-60(F) crease=0.90, Plate Increase=0.90 Plt. metal	I=0.90				
Uniform Loads (plf)		=-20, 16-24=-20, 30-31=-60(F)					
24) Dead + 0.75 Snow	(bal.) + 0.75 Uninhab. Attic	Storage + 0.75(0.6 MWFRS Wind (Neg. Int)	Left): Lumb	er Increa	ise=1.60, Plate Increa	se=1.60	
	, 55, 2-7=-58, 7-10=-44, 10-11	=-40, 16-20=-20, 16-24=-20, 30-31=-45(F)					
	=16, 1-2=5, 2-7=8, 7-10=6, 1 (bal.) + 0.75 Uninhab. Attic \$	0-11=10 Storage + 0.75(0.6 MWFRS Wind (Neg. Int)	Right): Lum	ber Incre	ease=1.60, Plate Incre	ase=1.60	
Uniform Loads (plf)	/	=-55, 16-20=-20, 16-24=-20, 30-31=-45(F)	0,				
Horz: 2-20=	=-5, 1-2=-10, 2-7=-6, 7-10=-8	, 10-11=-5	1 at Darallal	. Lumbo	r Increase 1 60 Dicto		
Uniform Loads (plf))`´´	Storage + 0.75(0.6 MWFRS Wind (Neg. Int)	ISt Parallel). Lumbe	i increase-1.00, Plate	mcrease=1.60	
	30, 2-7=-34, 7-10=-44, 10-11 =14, 1-2=-20, 2-7=-16, 7-10=	=-40, 16-20=-20, 16-24=-20, 30-31=-45(F) 6, 10-11=10					
27) Dead + 0.75 Snow Uniform Loads (plf)		Storage + 0.75(0.6 MWFRS Wind (Neg. Int)	2nd Paralle	l): Lumbe	er Increase=1.60, Plat	e Increase=1.60	
Vert: 1-2=-	, 40, 2-7=-44, 7-10=-34, 10-11	=-30, 16-20=-20, 16-24=-20, 30-31=-45(F)					
28) Dead + 0.75 Roof I	=-5, 1-2=-10, 2-7=-6, 7-10=1 Live (bal.) + 0.75 Uninhab. A	tic Storage + 0.75(0.6 MWFRS Wind (Neg.	Int) Left): L	umber In	crease=1.60, Plate		
Increase=1.60 Uniform Loads (plf)							
	, 55, 2-7=-58, 7-10=-44, 10-11 =16, 1-2=5, 2-7=8, 7-10=6, 1	=-40, 16-20=-20, 16-24=-20, 30-31=-45(F) 0-11=10					
		tic Storage + 0.75(0.6 MWFRS Wind (Neg.	Int) Right):	_umber I	ncrease=1.60, Plate		
Uniform Loads (plf)		55 40 00 00 40 C					
Horz: 2-20=	=-5, 1-2=-10, 2-7=-6, 7-10=-8						
30) Dead + 0.75 Roof I Plate Increase=1.6	Live (bal.) + 0.75 Uninhab. A 60	tic Storage + 0.75(0.6 MWFRS Wind (Neg.	Int) 1st Par	allel): Lui	mber Increase=1.60,		
Uniform Loads (plf)) 30 2-7=-34 7 10- 44 10 14	=-10 16-20=-20 16 21- 20 20 21- 45/5				WINNING CAD	Chillen Chillen
Horz: 2-20:	=14, 1-2=-20, 2-7=-16, 7-10=	40, 10-2020, 10-2420, 30-3145(F) 6, 10-11=10				THE FESSIO	N. HIL
31) Dead + 0.75 Roof I Plate Increase=1.6	Live (bal.) + 0.75 Uninhab. A 60	tic Storage + 0.75(0.6 MWFRS Wind (Neg.	int) 2nd Pa	allel): Lu	Imper Increase=1.60	Por 1	A REAL PROPERTY AND A REAL
Uniform Loads (plf) Vert· 1-2=-) 40. 2-7=-44 7-10=-34 10-11	=-30, 16-20=-20, 16-24=-20, 30-31=-45(F)			Inter	SEAL	
Horz: 2-20:	=-5, 1-2=-10, 2-7=-6, 7-10=1	5, 10-11=20			1.05	28147	/ <u>Ē</u>
Uniform Loads (plf	oor Live (undalanced) + 0.75	Unimad. Auto Storage: Lumber Increase=1	i.∠o, Piate li	icrease=	1.20	ANDINE	
Vert: 1-2=-3 37) 4th Dead + 0.75 Ro	50, 2-7=-50, 7-11=-20, 16-20 oof Live (unbalanced) + 0.75	=-20, 16-24=-20, 30-31=-45(F) Uninhab. Attic Storage: Lumber Increase=1	1.25, Plate Ir	crease=	1.25	ARK Y NAC	RALININ
Uniform Loads (plf)) 20 2-7=-20 7-11=-50 16 20	=-40, 16-20=-20, 16-24=-20, 30-31=-45(F) 6, 10-11=10 tic Storage + 0.75(0.6 MWFRS Wind (Neg. =-30, 16-20=-20, 16-24=-20, 30-31=-45(F) 5, 10-11=20 Uninhab. Attic Storage: Lumber Increase=7 =-20, 16-24=-20, 30-31=-45(F) Uninhab. Attic Storage: Lumber Increase=7 =-20, 16-24=-20, 30-31=-45(F)	,			Although and	HILD.
vent. 1-2	20, 2-120, 1-1130, 10-20					9/15/2	021



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 Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

b	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILI	LAGE BEND DRIVE FUQUAY VA
-4053-R01	R06	ROOF SPECIAL	4	1	Job Reference (optional)	# 28472
				a7i2cSu5	8.430 s Feb 12 2021 MiTek Industries, Inc. g6whSyi2C3-OUsclap?gbl8qatM?F2E	Thu Sep 16 20:08:51 2021 Page
) This truss is designe) Load case(s) 3, 4, 5, use of this truss.	d in accordance with the 20 6, 7, 23, 24, 25, 26, 27, 28	18 International Residential Coc 29, 30, 31, 36, 37 has/have bee	rithstanding 100 lb upli le sections R502.11.1 en modified. Building d	t at joint(and R802 esigner n	s) except (jt=lb) 19=105, 10=126. 2.10.2 and referenced standard AN nust review loads to verify that they d and 1/2" gypsum sheetrock be ap	SI/TPI 1. are correct for the intende
chord.		C C	,		and 1/2 gypsum sheetrook be ap	plied directly to the bottom
) Graphical bracing rep) Bearing symbols are loads indicated.	presentation does not depic only graphical representati	ons of a possible bearing conditi	of the brace on the mo on. Bearing symbols a	re not co	ymbol only indicates that the memb nsidered in the structural design of ce for Handling, Installing, Restraini	the truss to support the
Connected Wood Tru SEE BCSI-B3 SUMM OF TOP CHORD, BC	usses for additional bracing	guidelines, including diagonal b IT RESTRAING/BRACING OF C 3 PLANES. IN ADDITION TO T	racing. CHORDS & WEB MEM	BERS FO	OR RECOMMENDED MINIMUM BI ALWAYS CONSULT THE PROJE	RACING REQUIREMENTS
AD CASE(S) Standar Dead + Snow (balance Uniform Loads (plf)	d ed): Lumber Increase=1.15	Plate Increase=1.15				
Vert: 1-2=-60,	2-7=-60, 7-10=-60, 15-19= e (balanced) + 0.75 Uninha	20, 15-23=-20). Attic Storage: Lumber Increas	e=1.25, Plate Increase	=1.25		
Vert: 1-2=-50,		20, 15-23=-20, 29-30=-45(F) tic Storage: Lumber Increase=1	15, Plate Increase=1.1	5		
Vert: 1-2=-50,		20, 15-23=-20, 29-30=-45(F) Attic Storage: Lumber Increase=	1.15, Plate Increase=1	.15		
Vert: 1-2=-50,		29, 15-19=-20, 15-23=-20, 29-3 . Attic Storage: Lumber Increase		1.15		
Vert: 1-2=-29, Dead + Uninhabitable Uniform Loads (plf)	Attic Without Storage: Lun	50, 15-19=-20, 15-23=-20, 29-3 ber Increase=1.25, Plate Increa				
) Dead + Uninhabitable Uniform Loads (plf)	e Attic Storage: Lumber Inc	40, 15-23=-40, 29-30=-60(F) rease=0.90, Plate Increase=0.9(- 20, 45, 22= 20, 20, 20, 20= 60(F)) Plt. metal=0.90			
) Dead + 0.75 Snow (b Uniform Loads (plf)	oal.) + 0.75 Uninhab. Attic S	=-20, 15-23=-20, 29-30=-60(F) torage + 0.75(0.6 MWFRS Winc =-20, 15-23=-20, 29-30=-45(F)	l (Neg. Int) Left): Lumb	er Increa	se=1.60, Plate Increase=1.60	
Horz: 2-19=1	6, 1-2=5, 2-7=8, 7-10=6	torage + 0.75(0.6 MWFRS Wind	l (Neg. Int) Right): Lum	ber Incre	ease=1.60, Plate Increase=1.60	
Vert: 1-2=-40 Horz: 2-19=-{	5, 1-2=-10, 2-7=-6, 7-10=-8	=-20, 15-23=-20, 29-30=-45(F)	(Neg. Int) 1st Parallel). Lumba	r Increase=1.60, Plate Increase=1.	60
Uniform Loads (plf) Vert: 1-2=-30	,	=-20, 15-23=-20, 29-30=-45(F)	i (Neg. III) ist Faranei	. Lumbe	1 increase - 1.00, Flate increase - 1.	
) Dead + 0.75 Snow (b Increase=1.60		torage + 0.75(0.6 MWFRS Wind	l (Neg. Int) 2nd Paralle	l): Lumbe	er Increase=1.60, Plate	
Horz: 2-19=-	5, 1-2=-10, 2-7=-6, 7-10=16	=-20, 15-23=-20, 29-30=-45(F) tic Storage + 0.75(0.6 MWFRS \	Wind (Neg. Int) Left): L	umber In	crease=1.60 Plate	
Í Increase=1.60 Uniform Loads (plf)	、	=-20, 15-23=-20, 29-30=-45(F)	vind (Neg. int) Leit). L		1.00, Flate	
Horz: 2-19=1	6, 1-2=5, 2-7=8, 7-10=6	tic Storage + 0.75(0.6 MWFRS \	Vind (Neg. Int) Right):	Lumber I	ncrease=1.60, Plate	
Uniform Loads (plf) Vert: 1-2=-40), 2-7=-44, 7-10=-58, 15-19 5, 1-2=-10, 2-7=-6, 7-10=-8	20, 15-23=-20, 29-30=-45(F)				
) Dead + 0.75 Roof Liv Plate Increase=1.60 Uniform Loads (plf)	ve (bal.) + 0.75 Uninhab. At	tic Storage + 0.75(0.6 MWFRS \ 20, 15-23=-20, 29-30=-45(F)	Vind (Neg. Int) 1st Par	allel): Lur	uning TH	CAROLINA SEIDN
Horz: 2-19=1 Dead + 0.75 Roof Liv Plate Increase=1.60	4, 1-2=-20, 2-7=-16, 7-10=		Vind (Neg. Int) 2nd Pa	allel): Lu	Imber Increase=1.60	AL 147 MORAS 5/2021
Horz: 2-19=-{	5, 1-2=-10, 2-7=-6, 7-10=16				1.25	NEERS
Uniform Loads (plf)	· · · · ·	Uninhab. Attic Storage: Lumber =-20, 15-23=-20, 29-30=-45(F)	increase=1.25, Plate li	icrease=	1.20 CHARK K.	MORALIN
					0/1	5/2021

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE BEND D	RIVE FUQUAY VAR	INA, N
21-4053-R01	R06	ROOF SPECIAL	4	1	Job Reference (optional) #	28472	
					9 420 a Eab 12 2021 MiTak Industrias Inc. Thu San 16 2	0.00.E1 0001 Dama 2	

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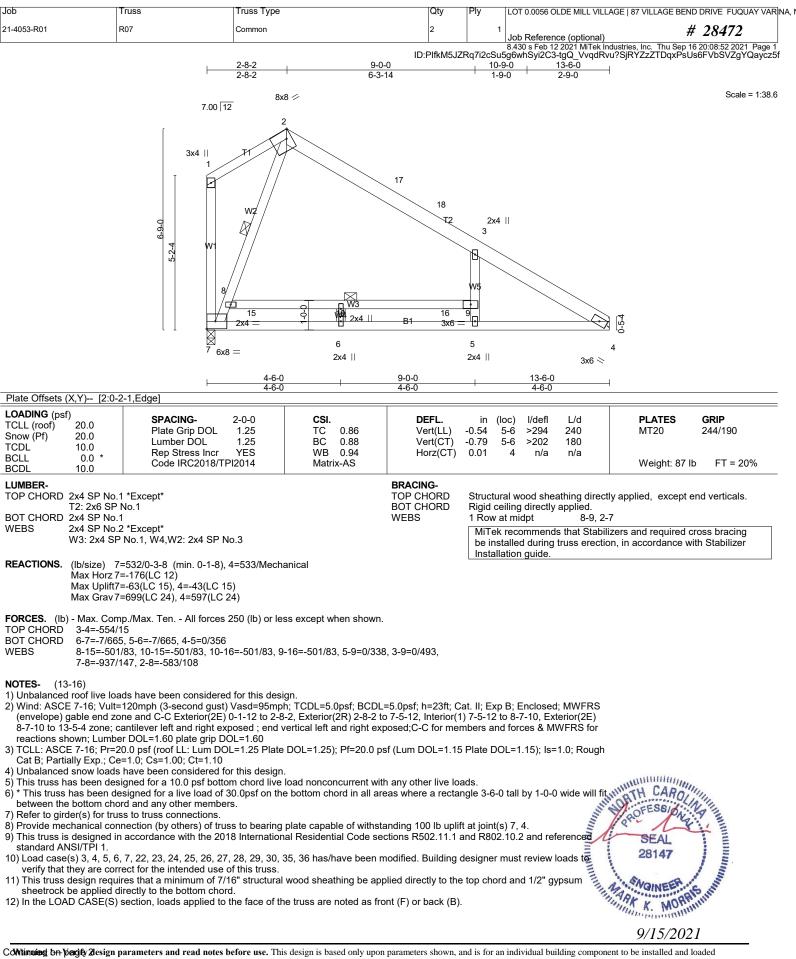
LOAD CASE(S) Standard

37) 4th Dead + 0.75 Roof Live (unbalanced) + 0.75 Uninhab. Attic Storage: Lumber Increase=1.25, Plate Increase=1.25

Uniform Loads (plf) Vert: 1-2=-20, 2-7=-20, 7-10=-50, 15-19=-20, 15-23=-20, 29-30=-45(F)



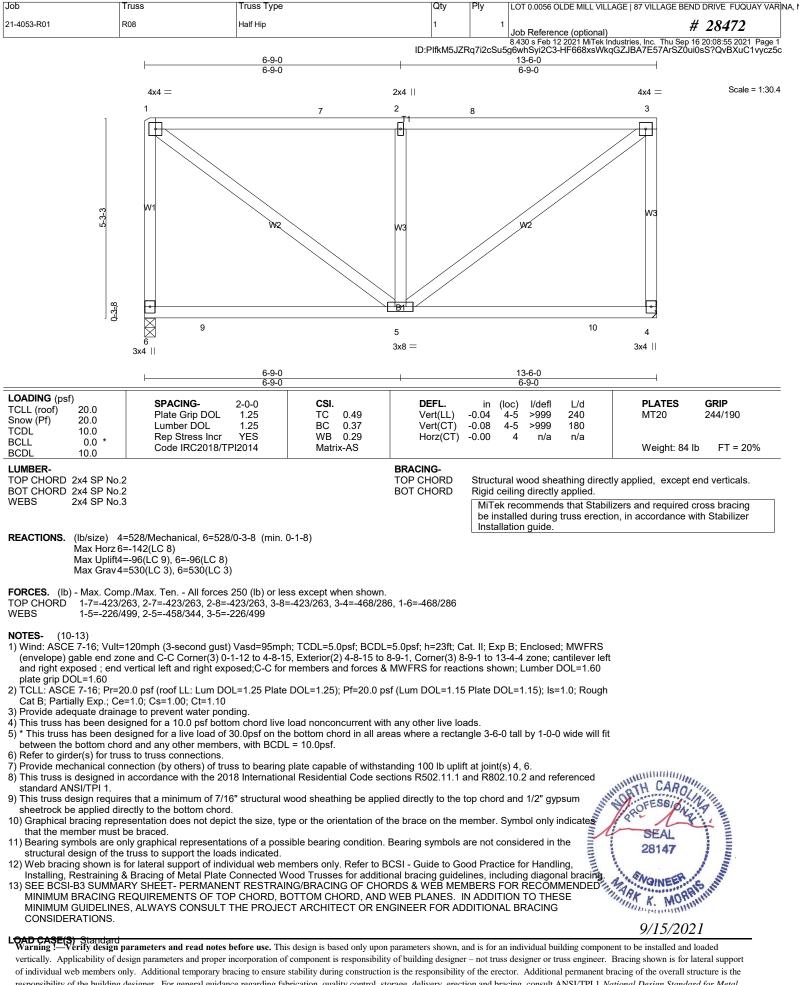
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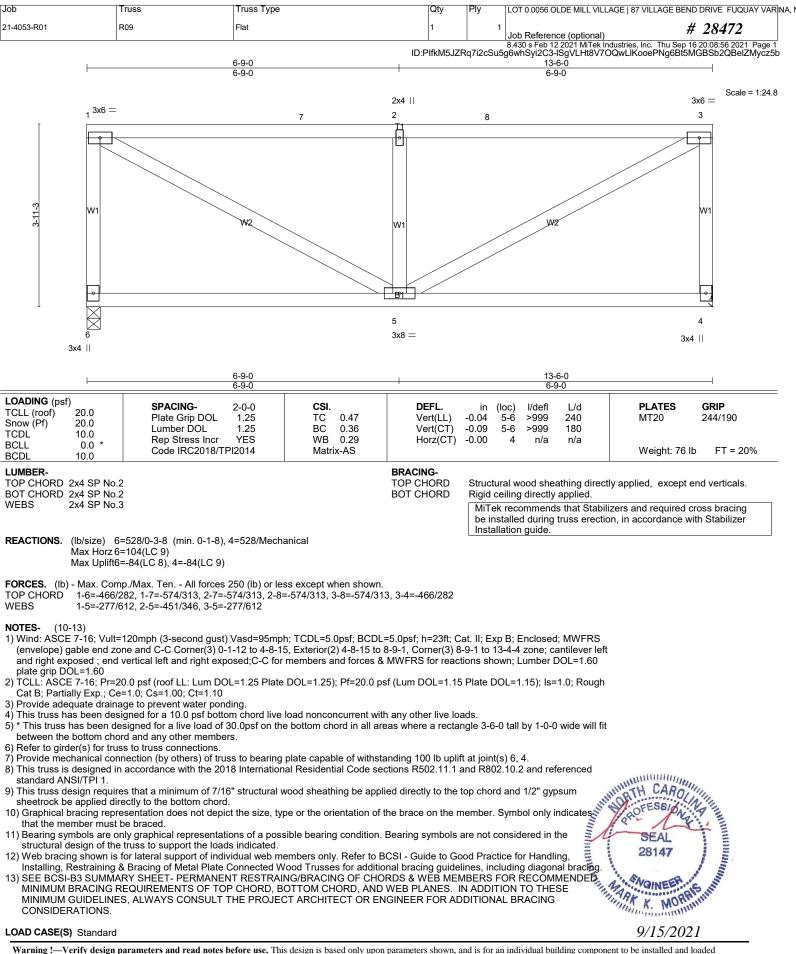
Job	Truss	Truss Type	Qty	Ply		E 87 VILLAGE BEND DRIVE FUQUAY VAR NA, N
			-			
21-4053-R01	R07	Common	2	1	Job Reference (optional)	# 28472
14) Bearing symbols are loads indicated.	only graphical representation	t the size, type or the orientation of the br ons of a possible bearing condition. Beari idual web members only. Refer to BCSI -	race on the m ing symbols a	ember. S re not co	2CSu5g6whSyi2C3-Lt_MjFrFC ymbol only indicates that th nsidered in the structural de	esign of the truss to support the
16) SEE BCSI-B3 SUMM OF TOP CHORD, BC ENGINEER FOR ADI	ARY SHEET- PERMANEŇ DTTOM CHORD, AND WEB DITIONAL BRACING CON	guidelines, including diagonal bracing. T RESTRAING/BRACING OF CHORDS 3 PLANES. IN ADDITION TO THESE MI SIDERATIONS.				
Úniform Loads (plf)	1 :d): Lumber Increase=1.15, 4-7=-20, 2-13=-60	Plate Increase=1.15				
Uniform Loads (plf) Vert: 1-2=-50, 4	4-7=-20, 15-16=-45(F), 2-1					
Uniform Loads (plf) Vert: 1-2=-50, 4	4-7=-20, 15-16=-45(F), 2-1					
Uniform Loads (plf) Vert: 1-2=-77, 4	, 4-7=-20, 15-16=-45(F), 2-1	Attic Storage: Lumber Increase=1.15, Pla 3=-29 . Attic Storage: Lumber Increase=1.15, Pl				
Uniform Loads (plf) Vert: 1-2=-29, 4	4-7=-20, 15-16=-45(F), 2-1	C		1.10		
Úniform Loads (plf) Vert: 1-2=-20, 4 22) Dead + Uninhabitable	4-7=-40, 15-16=-60(F), 2-1		tal=0.90			
23) Dead + 0.75 Snow (b	, 4-7=-20, 15-16=-60(F), 2- al.) + 0.75 Uninhab. Attic S	13=-20 torage + 0.75(0.6 MWFRS Wind (Neg. In	nt) Left): Lumb	er Increa	se=1.60, Plate Increase=1.	60
Horz: 1-2=8, 1	, 4-7=-20, 15-16=-45(F), 2- 1-7=16, 2-13=6					1.00
Uniform Loads (plf) Vert: 1-2=-44	al.) + 0.75 Oninnab. Aluc S , 4-7=-20, 15-16=-45(F), 2- 1-7=-5, 2-13=-8	torage + 0.75(0.6 MWFRS Wind (Neg. In 13=-58	it) Right): Lun	ider incre	ase=1.00, Plate increase=	1.60
25) Dead + 0.75 Snow (b Uniform Loads (plf)		torage + 0.75(0.6 MWFRS Wind (Neg. In 13=-44	nt) 1st Paralle): Lumbe	r Increase=1.60, Plate Incre	ease=1.60
26) Dead + 0.75 Snow (b Uniform Loads (plf) Vert: 1-2=-44	, 4-7=-20, 15-16=-45(F), 2-	torage + 0.75(0.6 MWFRS Wind (Neg. In 13=-34	nt) 2nd Paralle	el): Lumbe	er Increase=1.60, Plate Incr	ease=1.60
27) Dead + 0.75 Roof Liv Uniform Loads (plf)	1-7=-5, 2-13=16 e (bal.) + 0.75 Uninhab. At , 4-7=-20, 15-16=-45(F), 2-	ic Storage + 0.75(0.6 MWFRS Wind (Ne 13=-44	g. Int) Left): L	umber Ind	crease=1.60, Plate Increase	e=1.60
28) Dead + 0.75 Roof Liv Increase=1.60	1-7=16, 2-13=6 e (bal.) + 0.75 Uninhab. At	ic Storage + 0.75(0.6 MWFRS Wind (Ne	g. Int) Right):	Lumber I	ncrease=1.60, Plate	
Horz: 1-2=-6,	, 4-7=-20, 15-16=-45(F), 2- 1-7=-5, 2-13=-8 e (bal.) + 0, 75 Lipinbab. At	13=-58 ic Storage + 0.75(0.6 MWFRS Wind (Ne	a Int) 1st Pa	عالما). ا س	mber Increase=1.60	
Plate Increase=1.60 Uniform Loads (plf)	, 4-7=-20, 15-16=-45(F), 2-		g. mity i stri ai			
Horz: 1-2=-16 30) Dead + 0.75 Roof Liv Plate Increase=1.60	5, 1-7=14, 2-13=6	ic Storage + 0.75(0.6 MWFRS Wind (Ne	g. Int) 2nd Pa	rallel): Lu	mber Increase=1.60,	
Horz: 1-2=-6,	, 4-7=-20, 15-16=-45(F), 2- 1-7=-5, 2-13=16				4.05	
Uniform Loads (plf) Vert: 1-2=-50	, 4-7=-20, 15-16=-45(F), 2-	Uninhab. Attic Storage: Lumber Increase: 13=-20 Jninhab. Attic Storage: Lumber Increase:			1.25	OFESSION ANT
Uniform Loads (plf)	, 4-7=-20, 15-16=-45(F), 2-	C C	- 1.23, Piale i	icrease-	1.25 1.25	SEAL 28147
						At K. MORA

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 *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

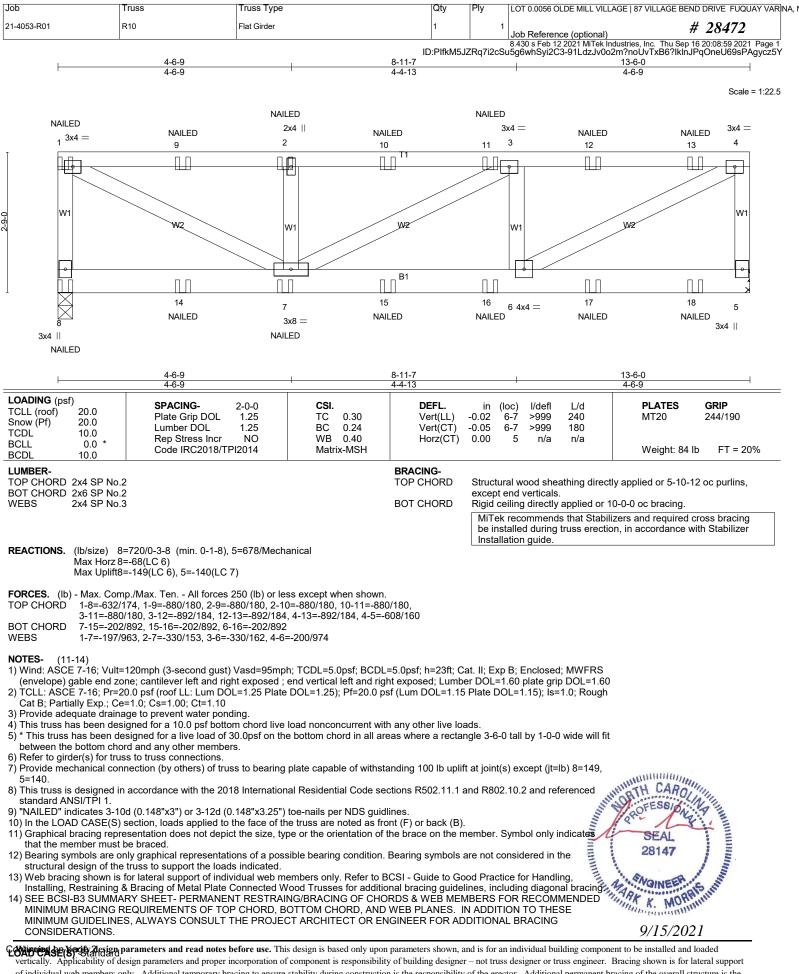
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responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Trusse Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



vertically. Applicability of design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be instanted and loaded vertically. Applicability of design parameters and read notes before use. This design is obsed only upon parameters shown, and is for an individual component to be instanted and loaded of individual web members only. Additional permanents are read notes before use. This design is obsed only upon parameters shown, and is for an individual component to be instanted and loaded of individual web members only. Additional permanents are read notes before use. This design is obsed only upon parameters shown, and is for an individual veb members only. Additional permanent 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 Trusse Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



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 Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE BEND DRIVE FUQUAY VAR	NA, M
21-4053-R01 R	۲10	Flat Girder	1	1	Job Reference (optional) # 28472	

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LOAD CASE(S) Standard

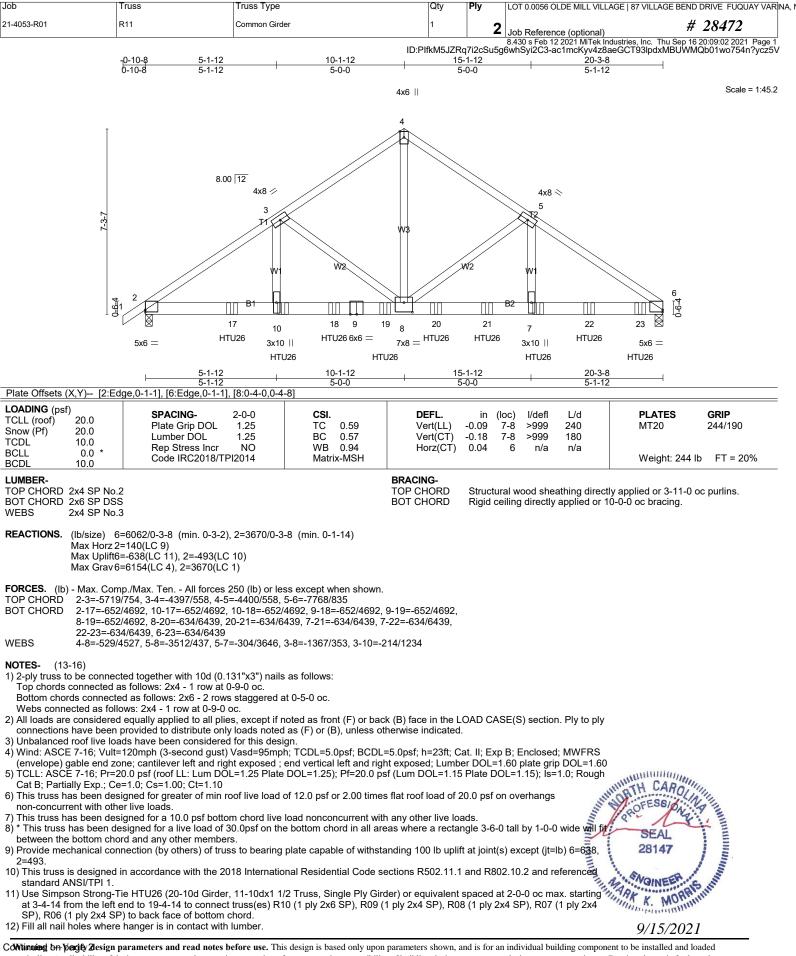
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-60, 5-8=-20

Concentrated Loads (lb)

Vert: 8=-27(F) 7=-20(F) 1=-46(F) 2=-24(F) 9=-24(F) 10=-24(F) 11=-24(F) 12=-24(F) 13=-27(F) 14=-20(F) 15=-20(F) 16=-20(F) 17=-20(F) 18=-21(F)





vertically. Applicability of design parameters and read notes before user instance and toaced only upon parameters shown, and is for an individual boliculing component is responsibility of building designer – not truss designer or truss engineer. 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 Trusse S Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VI	LLAGE BEND DRIVE FUQUAY VAR NA,
21-4053-R01	R11	Common Girder	1	2	Job Reference (optional)	# 28472
					8 /30 s Eeb 12 2021 MiTek Industries Inc	Thu Sep 16 20:00:02 2021 Page 2

ID:PlfkM5JZRq7i2cSu5g6whSyi2C3-ac1mcKyv4z8aeGCT93lpdxMBUWMQb01wo754n?ycz5V

- 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
- 16) SEE BCSI-B3 SUMMARY SHEET- PERMANEŇŤ RESTRÁING/BRĂCINĞ OF CHORĎS & 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

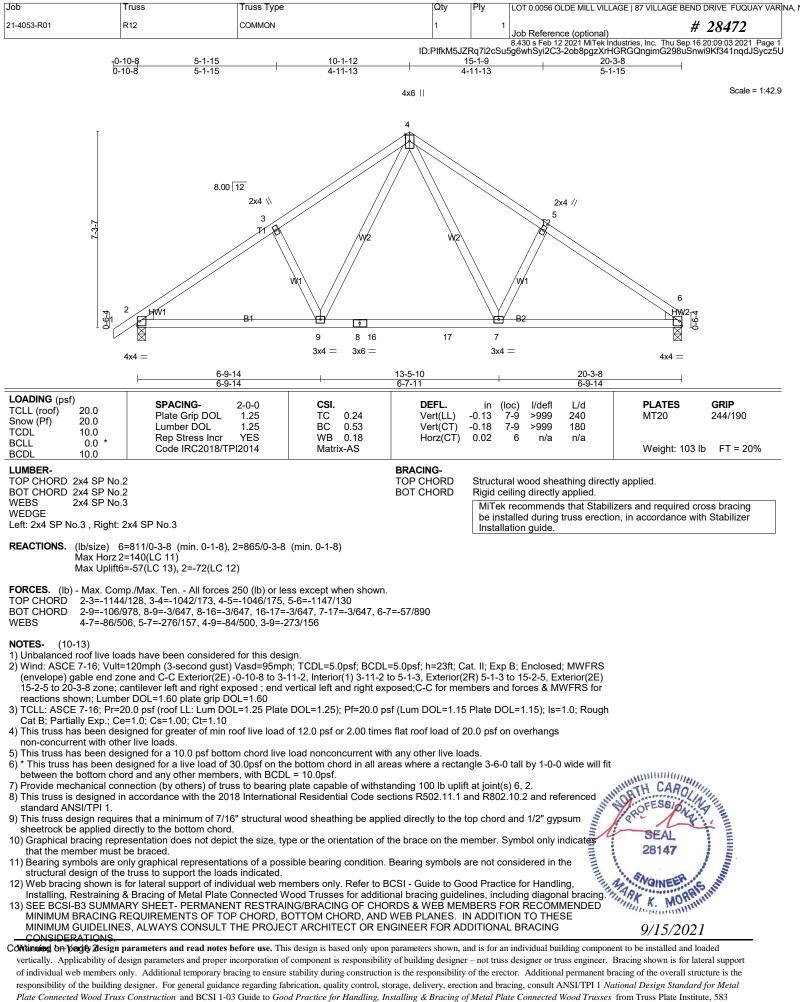
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf) Vert: 1-4=-60, 4-6=-60, 11-14=-20

Concentrated Loads (lb)

Vert: 7=-1328(B) 10=-508(B) 17=-658(B) 18=-508(B) 19=-534(B) 20=-534(B) 21=-1328(B) 22=-1328(B) 23=-1329(B)





D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE BEI	ND DRIVE FUQUAY VAR	NA, N
21-4053-R01	R12	COMMON	1	1	Job Reference (optional)	# 28472	

8.430 s Feb 12 2021 MITek Industries, Inc. Thu Sep 16 20:09:04 2021 Page 2 ID:PIfkM5JZRq7i2cSu5g6whSyi2C3-W_9W10z9cbOluZMsGUnHiMRcXK1036JDFRaAruycz5T

LOAD CASE(S) Standard



9/15/2021

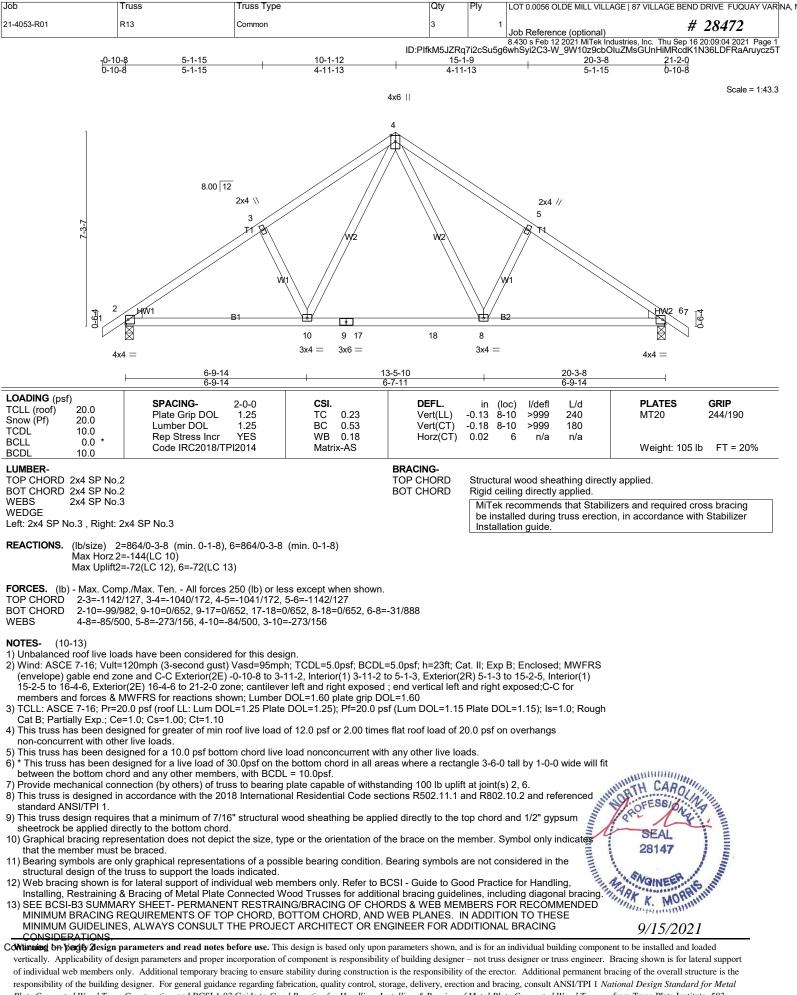
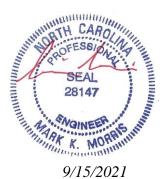


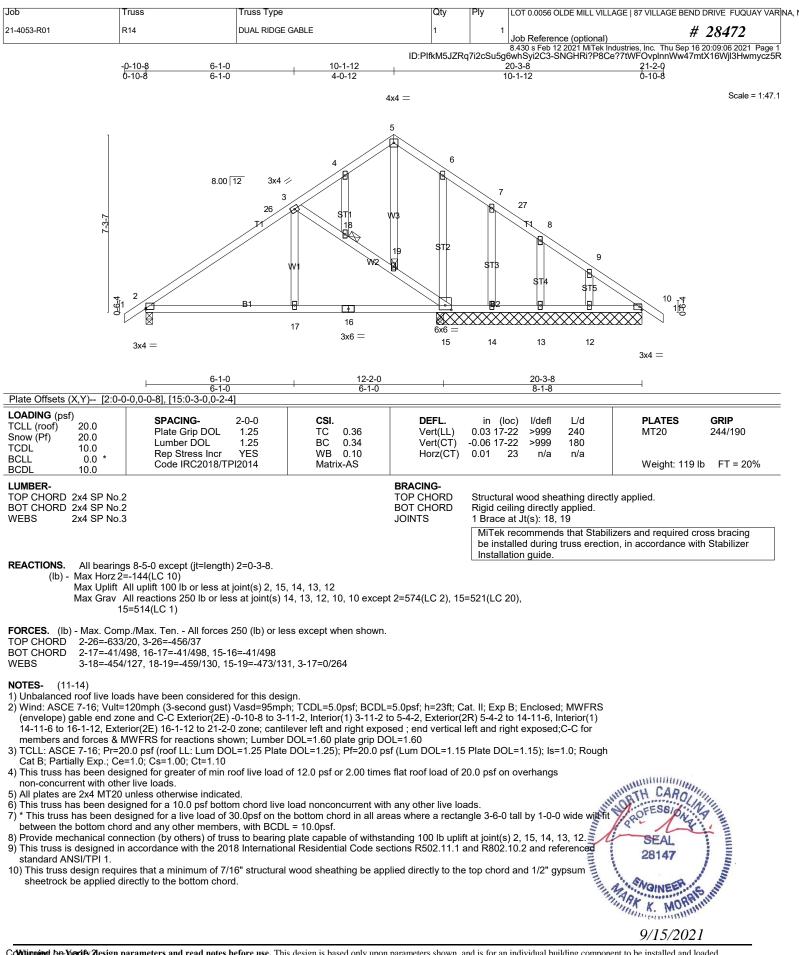
Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE BEND DRIVE FUQUAY VAR	NA, N
21-4053-R01	R13	Common	3	1	Job Reference (optional) # 28472	

B.430 s Feb 12 2021 MiTek Industries, Inc. Thu Sep 16 20:09:05 2021 Page 2 ID:PIfkM5JZRq7i2cSu5g6whSyi2C3-_BiuEM_nNuW9Vjx2qBIWFZ_nNkNcoZbNU5JkOKycz5S

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILL	AGE BEND DRIVE FUQUAY VAR
21-4053-R01	R14	DUAL RIDGE GABLE	1	1	Job Reference (optional)	# 28472
					8.430 s Feb 12 2021 MiTek Industries, Inc.	Thu Sep 16 20:09:07 2021 Page 2

ID:PlfkM5JZRq7i2cSu5g6whSyi2C3-xZqff201vWmsl15RxcK_K_35pX66GULgyOorSDycz5Q

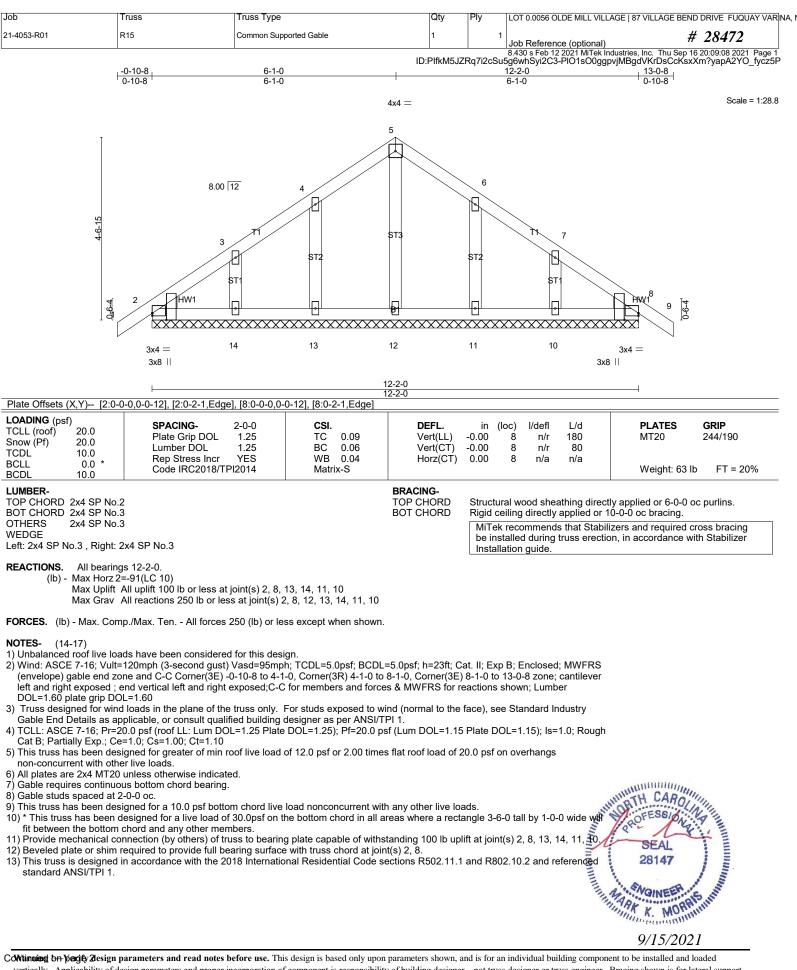
Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural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

 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.
 SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

14) 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





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Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILL	AGE BEND DRIVE FUQUAY VAR NA
21-4053-R01	R15	Common Supported Gable	1	1	Job Reference (optional)	# 28472
					8.430 s Feb 12 2021 MiTek Industries, Inc.	Thu Sep 16 20:09:08 2021 Page 2

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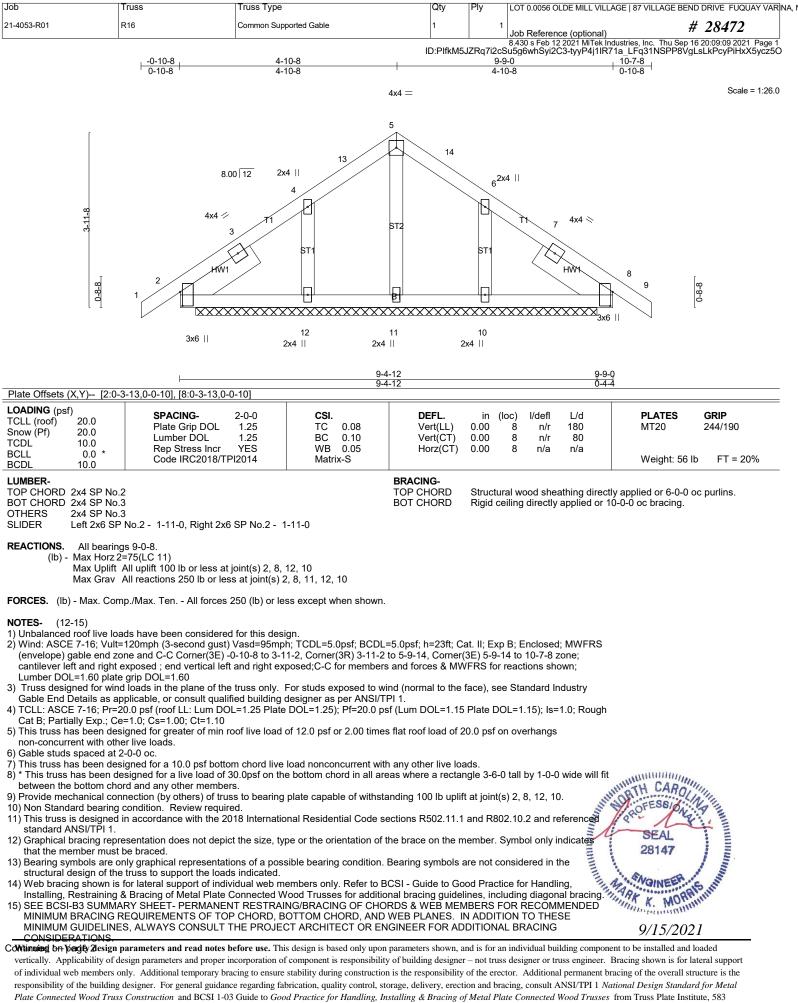
14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural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

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LOAD CASE(S) Standard



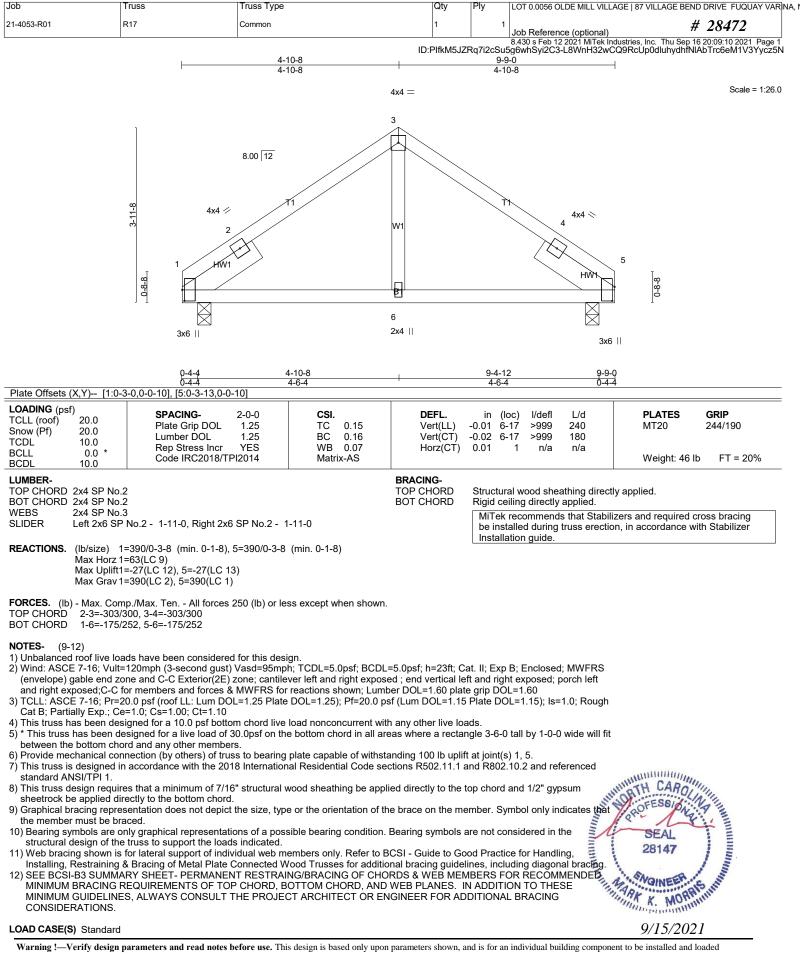


D'Onofrio Drive, Madison, WI 53719.

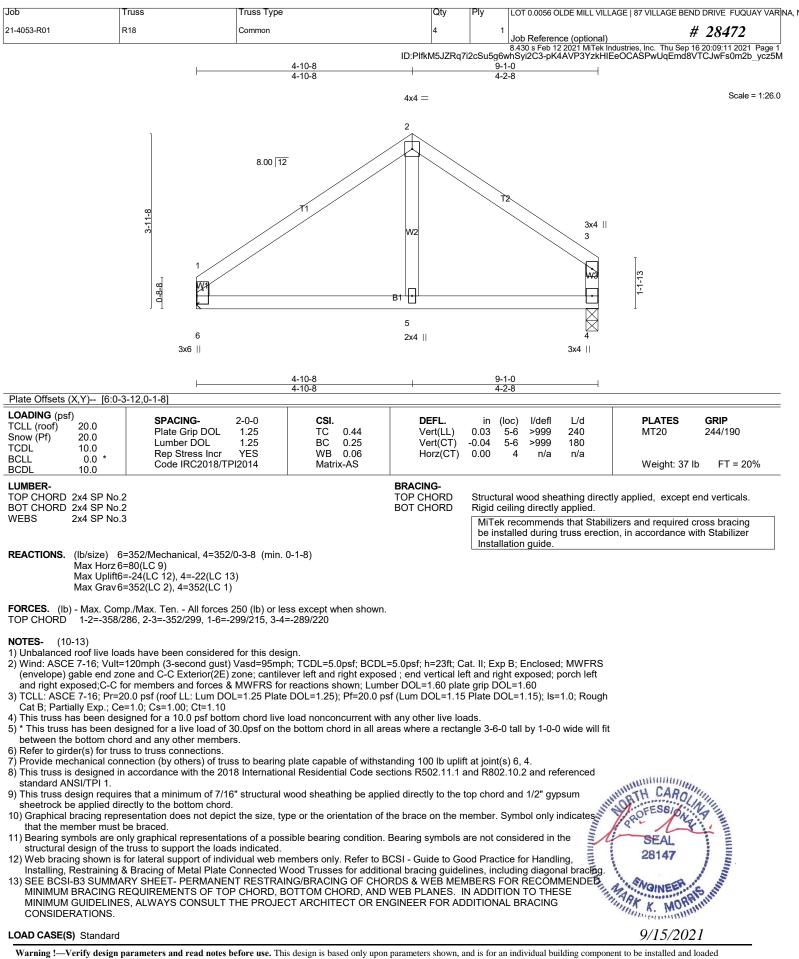
[Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE BEND DRIVE FUQUAY VAR	RNA, M
	21-4053-R01	R16	Common Supported Gable	1	1	Job Reference (optional) # 28472	
			ID:P	fkM5JZR	q7i2cSu5g	8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Sep 16 20:09:10 2021 Page 2 g6whSyi2C3-L8WnH32wCQ9RcUp0dluhydhgQlBaTss6eM1V3Yycz5l	2 N

LOAD CASE(S) Standard

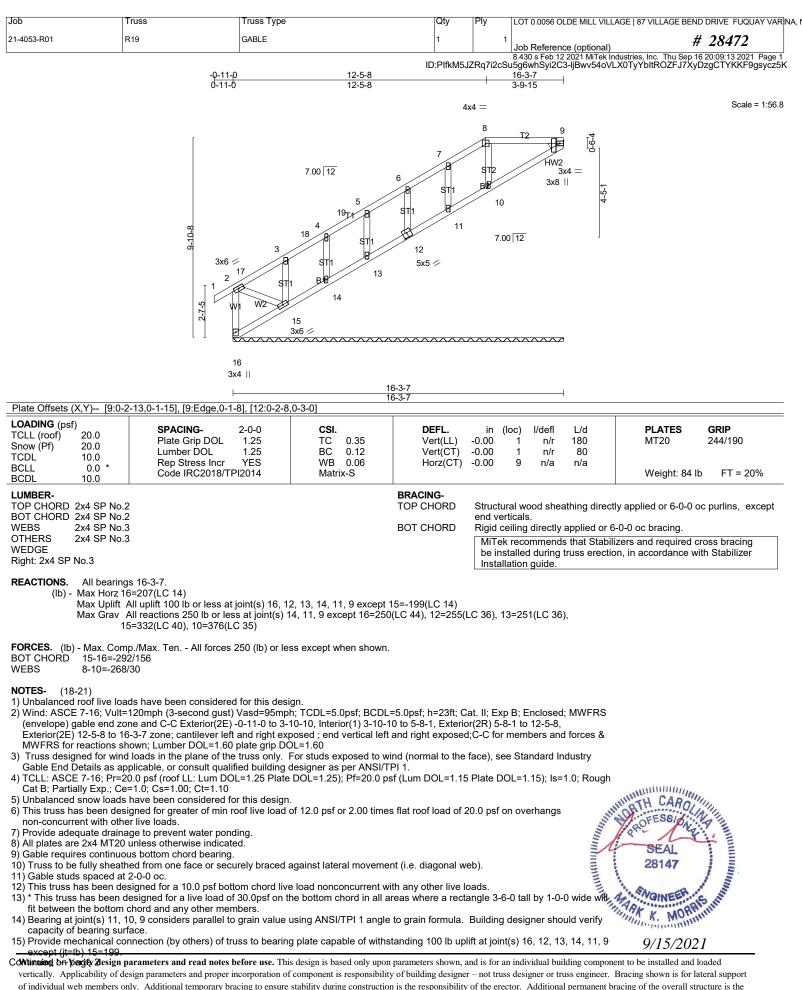
SEAL 28147 9/15/2021



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vertically. Applicability of design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be instance and loaded vertically. Applicability of design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component is of a individual vertically. Applicability of design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component is of a individual vertically. Applicability of design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual vertical shown is for a for a sequence 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 Trusses Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



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Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE BEND DRIVE FUQUAY VAR NA,
21-4053-R01	R19	GABLE	1	1	Job Reference (optional) # 28472
			ID:Plfk		8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Sep 16 20:09:14 2021 Page 2 2cSu5g6whSyi2C3-DvII7R5QGfft567nsayd6TsIGMZCPfjiZ_?iCJycz5J

NOTES- (18-21)

16) Beveled plate or shim required to provide full bearing surface with truss chord at joint(s) 12, 13, 14, 15, 11, 10, 9.

17) 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.

(a) 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.
 (a) Graphical bracing 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.

 20) 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.
 21) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

21) 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



ob 1-4053-R01	Truss R20	Truss Type Half Hip Girder	Qty 1	Ply LOT 0.0056 OLDE MILL VILL 1 Job Reference (optional)	AGE 87 VILLAGE BEND DRIVE FUQUAY VAF # 28472
				8.430 s Feb 12 2021 MiTek In ZRq7i2cSu5g6whSyi2C3-Alt3Y77hnC	dustries, Inc. Thu Sep 16 20:09:16 2021 Page 1 SvbKPHAz??5BuxYr92QtLU_0IUpHBycz5I
	-0 <u>-11-</u> 0 0-11-0	4-11-9 9-9-6 4-11-9 4-9-13		6-3-7 20-9-0 -6-8 4-5-9	
			5x6 —	NAILED 2x4 NAILED ⁴ x10 =	Scale = 1:67.3
	_	7.0	0 12 6	⁷ 18 19 8	
			W1		
		4x6 3x6 ≠ 5	12		
		4 17	W2 .	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
	8	4x6 = 11	W1 B2 4	NAILED NAILED	
	11-2-8	16 It W2	12	00 44	
	6x6 🛩	W1 11 13	4x6 ≈ 7.00 12	റ	
		W2 B1 14 3x6 =			
	2-7-5 K	6x6 ⋍			
				l	
	15	;3x4			
	F	<u>4-11-9 9-9-6</u> 4-11-9 4-9-13		<u>6-3-7 20-9-0</u> -6-8 4-5-9	
	Y) [2:0-2-5,0-3-0], [6:0-3-0,0		4-11-3	-0-0 4-0-3	
	20.0 SPACING- Plate Grip DO	2-0-0 CSI. DL 1.25 TC 0.73	DEFL. Vert(LL)	in (loc) l/defl L/d -0.19 12 >999 240	PLATES GRIP MT20 244/190
CDL`´ 1	10.0 Lumber DOL Rep Stress II	1.25 BC 0.84	Vert(CT)	-0.31 11-12 >800 180 0.19 9 n/a n/a	
	0.0 * Code IRC20	18/TPI2014 Matrix-MS	H í í		Weight: 118 lb FT = 20%
UMBER- OP CHORD 2x			BRACING- TOP CHORD	Structural wood sheathing direct	ly applied or 2-10-11 oc purlins,
OT CHORD 2x VEBS 2x	k4 SP No.2 k4 SP No.3		BOT CHORD	except end verticals. Rigid ceiling directly applied or 7	-7-3 oc bracing.
				be installed during truss erection	izers and required cross bracing on, in accordance with Stabilizer
		-1-8), 9=821/0-3-8 (min. 0-1-8)		Installation guide.	
M	1ax Horz 15=228(LC 12) 1ax Uplift15=-45(LC 12), 9=-14 1ax Crov15=1167(LC 24), 9=0				
	1ax Grav15=1167(LC 34), 9=9 Max_Comp./Max_Ten All fo	rces 250 (lb) or less except when s	hown		
OP CHORD 2	2-15=-1138/210, 2-16=-2255/3	36, 3-16=-2168/349, 3-4=-3063/47 6, 6-7=-2200/390, 7-18=-2202/393	3, 4-17=-2916/475,		
8	8-19=-2202/393, 8-9=-873/166		, , ,	0	
EBS 2		64, 5-11=-652/229, 6-11=-85/437, 6		•	
OTES- (13-1)		,			
(envelope) gal	ble end zone; cantilever left ar	gust) Vasd=95mph; TCDL=5.0psf; id right exposed ; end vertical left a	nd right exposed; Lumb	er DOL=1.60 plate grip DOL=1.60	
Cat B; Partially	y Exp.; Ce=1.0; Cs=1.00; Ct=1		20.0 psf (Lum DOL=1.15	5 Plate DOL=1.15); ls=1.0; Rough	
) This truss has		ed for this design. min roof live load of 12.0 psf or 2.00) times flat roof load of 2	20.0 psf on overhangs	multip
Provide adequ	nt with other live loads. Jate drainage to prevent water		nt with one at a line l	sho	INTERTH CAROLINI
* This truss has	as been designed for a 10.0 pst as been designed for a live loa	bottom chord live load nonconcurre d of 30.0psf on the bottom chord in	all areas where a recta	aus. ngle 3-6-0 tall by 1-0-0 wide will fit	ROFESSION OF THE
Bearing at join	nt(s) 15 considers parallel to gr	ain value using ANSI/TPI 1 angle to	o grain formula. Buildin	g designer should verify capacity	SEAL
Provide mecha 9=147	anical connection (by others) of	of truss to bearing plate capable of	withstanding 100 lb upli	ft at joint(s) 15 except (jt=lb)	28147
0) This truss is standard AN	designed in accordance with t	he 2018 International Residential C	ode sections R502.11.1	and R802.10.2 and referenced	1 ANGINEER C
1) "NAILED" inc 2) In the I OAD	dicates 3-10d (0.148"x3") or 3- CASE(S) section loads applie	bottom chord live load nonconcurred d of 30.0psf on the bottom chord in mbers. ain value using ANSI/TPI 1 angle to of truss to bearing plate capable of the e 2018 International Residential C 12d (0.148"x3.25") toe-nails per NE ed to the face of the truss are noted otes before use. This design is based on oper incorporation of component is respo)S guidlines. as front (F) or back (B)	3	K. MORRAN
-,					
					9/15/2021

vertically. Applicability of design parameters and read notes before use. This design is backed only dopin parameters shown, and is for an individual building component to be instance and roaced only dopin parameters shown, and is for an individual building component to be instance and roaced only dopin parameters shown, and is for an individual building component to be instance and roaced only dopin parameters shown, and is for an individual building component to be instanced and roaced only dopin parameters shown, and is for an individual building component to be instanced and roaced of individual web members only. 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 *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILL	AGE BEND DRIVE FUQUAY VAR
21-4053-R01	R20	Half Hip Girder	1	1	Job Reference (optional)	# 28472
					8.430 s Feb 12 2021 MiTek Industries, Inc.	Thu Sep 16 20:09:16 2021 Page 2

ID:PlfkM5JZRq7i2cSu5g6whSyi2C3-Alt3Y77hnGvbKPHAz??5BuxYr92QtLU_0IUpHBycz5H

- 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.
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- 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: 1-2=-60, 2-6=-60, 6-8=-60, 10-15=-20, 9-10=-20

Concentrated Loads (Ib) Vert: 20=-2(F) 21=-2(F)



9/15/2021

bb I-4053-R01	Truss R21	Truss Type Half Hip	Qty 1	1	LAGE 87 VILLAGE BEND DRIVE FUQUAY VAP # 28472
			ID:PlfkM5	Job Reference (optional) 8.430 s Feb 12 2021 MiTek Ir IZRq7i2cSu5g6whSyi2C3-6h?pzo8xJ	ndustries, Inc. Thu Sep 16 20:09:18 2021 Page Iu9IZjRY5Q1ZGJ0qDzk0LHJHTczwL4ycz5
	-0-11- 0-11-	0 8-2-9 D 8-2-9	16-5-1 8-2-9	<u>20-9-0</u> 4-3-15	.,,,,
				5x6 =	Scale = 1:70.
			7.00 12	3x8 = 5 6	
				W3 W/ m	
			4x8 - T2 W2	W1 W4 8. B3 F	
		4x6 ≠ 1.	4 ¹⁵	$\frac{1}{8}$ $\frac{1}{5x8} = 3x4 $	
		3	62	5x8 =	
	<u>12-2-4</u> 12-0-7	12 13 I1 W1	T		
	5x6 ¢		9 7.00 4x6 ∕∕	12	2 4 4
	1 2	10 W2 B1 5x5			
	2-7-5				
	5-1				
		1			
		4			
ata Offaata (X.X	ا) [2:0-3-0,0-1-8], [4:0-4-0,Edg	8-2-9 8-2-9	16-3-7 8-0-14	<u>20-9-0</u> 4-5-9	
DADING (psf)	SPACING	2-0-0 CSI .	DEFL.	in (loc) l/defl L/d	PLATES GRIP
now (Pf) 20	0.0 Plate Grip DOL	1.25 TC 0.99 1.25 BC 0.90	Vert(LL) Vert(CT)	-0.23 8-10 >999 240 -0.41 8-10 >598 180	MT20 244/190
CLL C	0.0 * Rep Stress Incr	YES WB 0.79	Horz(CT)	0.16 7 n/a n/a	Weight: 116 lb FT = 20%
DL 10 JMBER-	0.0 Code into2010/		BRACING-		
OP CHORD 2x4 T3:	SP SS *Except* 2x4 SP No.2, T1: 2x4 SP No.1		TOP CHORD BOT CHORD	Structural wood sheathing direct Rigid ceiling directly applied.	tly applied, except end verticals.
	SP No.3 *Except*		WEBS	1 Row at midpt 3-8	lizers and required cross bracing
W2	2x4 SP No.2				on, in accordance with Stabilizer
	size) 11=884/0-3-0 (min. 0-1- x Horz 11=242(LC 14)	8), 7=817/0-3-8 (min. 0-1-8)		<u>J</u>	
	x Uplift11=-38(LC 14), 7=-139(l x Grav11=1130(LC 36), 7=978				
		s 250 (lb) or less except when sho			
14	-15=-2079/257, 4-15=-2034/26	, 12-13=-3078/464, 3-13=-2921/48 1, 4-5=-1951/287, 5-6=-1670/295,			
)-11=-339/321, 9-10=-684/2996 10=-322/2631, 3-10=-551/175,	, 8-9=-661/3055 3-8=-956/323, 5-8=-27/460, 6-8=-3	22/1906		
)TES- (13-16)					
Wind: ASCE 7-		st) Vasd=95mph; TCDL=5.0psf; BC			
Exterior(2E) 16-	5-1 to 20-7-4 zone; cantilever le	E) -0-11-0 to 3-10-10, Interior(1) 3-1 eft and right exposed ; end vertical			
TCLL: ASCE 7-	ctions shown; Lumber DOL=1.6 16; Pr=20.0 psf (roof LL: Lum E Exp.; Ce=1.0; Cs=1.00; Ct=1.10	OL=1.25 Plate DOL=1.25); Pf=20.0	0 psf (Lum DOL=1.15	Plate DOL=1.15); Is=1.0; Rough	
Unbalanced sno	w loads have been considered		maa flat roof load of t	20.0 not on overhende	antennin antenne
non concurrent	with other live leads	•			WALL LADO
This truss has b	been designed for a 10.0 psf bo	tom chord live load nonconcurrent	with any other live lo	ads.	POFESSION A THE
between the bot	ttom chord and any other members) 11 considers parallel to grain	9 55.0ps on the bottom chord In all PERS. 1 value using ANSI/TPL 1 angle to a		ngie 3-0-0 tail by 1-0-0 wide will lit	SEAL
of bearing surfa	ce.	trues to bearing plate conchest	ithetanding 100 lb	lift at joint(s) 11 excent (it-th)	28147
7=139.	anical connection (by others) of	2018 International Residential Cod	e sections PEO2 11 4	and R802 10 2 and referenced	A MOINEER C
standard ANS	/TPI 1.		applied directly to the		ARK K. MORPHUM
sheetrock be a	applied directly to the bottom ch	nding. ttom chord live load nonconcurrent f 30.0psf on the bottom chord in all pers. a value using ANSI/TPI 1 angle to g truss to bearing plate capable of w 2018 International Residential Cod 7/16" structural wood sheathing be ord. s before use. This design is based only u r incorporation of component is responsil bracing to ensure stability during constru ance regarding fabrication, quality contro	applied directly to the	- τορ σποτα anα τ/z gypsum	0/15/2021
					7/1.)/2021

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 Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILL	LAGE BEND DRIVE FUQUAY VAR NA
21-4053-R01	R21	Half Hip	1	1	Job Reference (optional)	# 28472
					8.430 s Feb 12 2021 MiTek Industries, Inc.	Thu Sep 16 20:09:18 2021 Page 2

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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



Job	Truss	Truss Type	Ohy		
21-4053-R01	R22	Half Hip	Qty 1	Ply LOT 0.0056 OLDE MILL V	VILLAGE 87 VILLAGE BEND DRIVE FUQUAY VAR NA, I # 29/77
21-4003-R01	R22		!	Job Reference (option	al) # 28472
	0.1	11 ₁ 0 8-3-7	ID:PIfkM5JZF 16-3-7		ek Industries, Inc. Thu Sep 16 20:09:20 2021 Page 1 BrVP0p1axCr31Mk5AanQspEJaxwS1Qzycz5D
	-0 <u>-1</u> 0-1		7-11-15	<u>18-8-8 20-9-0</u> 2-5-1 2-0-8	
				6x6 =	Scale = 1:77.9
			7.00 12	3x4	
	Γ				
				5	
		4	x8 = 16T2	W6 C- W3 W4 W6 4	
			4 15W2	ВЗ	
		4x6 🖉	B2	$9_{7x8} = 8_{3x4} =$	
	13-6-4 3-4-7	14		3x4 =	
	13-6-4 13-4-7	Tł W1	T		
	5.0	13	10 4x6 ∕ 7.00		
	5x6	2 W2 B1 5x5		ත 	
	2-7-5	wi			
				1	
		12			
		3x4			
		8-3-7 8-3-7	16-3-7 7-11-15	20-9-0 4-5-9	
	0-3-0,0-1-8], [4:0-4-0,Edge],	, [9:0-5-8,Edge]			
LOADING (psf) TCLL (roof) 20.0	SPACING-	2-0-0 CSI .	DEFL.	in (loc) l/defl L/d	PLATES GRIP
Snow (Pf) 20.0 TCDL 10.0	Plate Grip DOL Lumber DOL	1.25 TC 0.94 1.25 BC 0.87	Vert(LL) Vert(CT)	-0.23 9-11 >999 240 -0.41 9-11 >594 180	MT20 244/190
BCLL 0.0 *	Rep Stress Incr Code IRC2018/TF	YES WB 0.63 Pl2014 Matrix-AS	Horz(CT)	0.17 8 n/a n/a	Weight: 124 lb FT = 20%
BCDL 10.0					
LUMBER- TOP CHORD 2x4 SP N			BRACING- TOP CHORD		ectly applied, except end verticals.
T3: 2x4 S BOT CHORD 2x4 SP N			BOT CHORD WEBS	Rigid ceiling directly applied. 1 Row at midpt 3-9	
WEBS 2x4 SP N	lo.3 *Except*		WEBC	MiTek recommends that Sta	abilizers and required cross bracing
VV2,VV4:2	2x4 SP No.2			be installed during truss ere Installation guide.	ction, in accordance with Stabilizer
	12=884/0-3-0 (min. 0-1-8)	, 8=817/0-3-8 (min. 0-1-8)			
	z 12=278(LC 11) ft12=-30(LC 14), 8=-177(LC	; 14)			
Max Grav	v 12=1081(LC 36), 8=1092(I	LC 36)			
		250 (lb) or less except when showr			
		13-14=-2973/477, 3-14=-2858/499, 5-16=-1998/328, 5-6=-2296/452	3-4=-2334/290,		
		9-10=-696/2957, 8-9=-69/508 9=-757/297, 5-9=-730/209, 6-9=-49	98/2520		
6-8=-11			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
NOTES- (13-16)					
	loads have been considered ult=120mph (3-second gust)	d for this design. Vasd=95mph; TCDL=5.0psf; BCD	l =5 0psf h=23ft C	at II: Exp B: Enclosed: MWFR	s
(envelope) gable end	zone and C-C Exterior(2E)	-0-11-0 to 3-10-10, Interior(1) 3-10-	-10 to 11-11-1, Exte	erior(2R) 11-11-1 to 18-8-8,	
	shown; Lumber DOL=1.60	and right exposed ; end vertical let plate grip DOL=1.60	it and right exposed		
	=20.0 psf (roof LL: Lum DO Ce=1.0; Cs=1.00; Ct=1.10	L=1.25 Plate DOL=1.25); Pf=20.0	psf (Lum DOL=1.15	Plate DOL=1.15); Is=1.0; Rou	gh
4) Unbalanced snow loa	ds have been considered fo				gh THE CAROL OPESSION A
 I his truss has been d non-concurrent with o 		oof live load of 12.0 psf or 2.00 time	es flat roof load of 2	20.0 pst on overhangs	INTO TH CANOL
	inage to prevent water pond	ding. om chord live load nonconcurrent w	ith any other live lo	ade	CROPESS ON A THE
8) * This truss has been	designed for a live load of 3	30.0psf on the bottom chord in all a		ngle 3-6-0 tall by 1-0-0 wide 👼	LAL SEAL
	hord and any other member considers parallel to grain v	rs. /alue using ANSI/TPI 1 angle to gra	ain formula. Buildin	g designer should verify capaci	ty 28147
of bearing surface.		uss to bearing plate capable of with		lift at ioint(s) 12 event (it-lb)	A NOINEER G
[^] 8=177.		U			NOINEE BE
 This truss is designer standard ANSI/TPI 1 		018 International Residential Code	sections R502.11.1	and R802.10.2 and referenced	K. MORTHUM
12) This truss design red	quires that a minimum of 7/1	16" structural wood sheathing be ap	pplied directly to the	e top chord and 1/2" gypsum	SEAL 28147 9/15/2021
	d directly to the bottom chore	d. before use. This design is based only upo	an paramatara shawe	and is for an individual building	7/1J/2U21
	-	ncorporation of component is responsibil	-		-
		acing to ensure stability during constructi ce regarding fabrication, quality control,		•	0
		3 Guide to <i>Good Practice for Handling</i> ,		2.	0
D'Onofrio Drive, Madison	1 WI 53719				

D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VIL	LAGE BEND DRIVE FUQUAY VAR N
21-4053-R01	R22	Half Hip	1	1	Job Reference (optional)	# 28472
					8 430 s Eeb 12 2021 MiTek Industries Inc.	Thu Sep 16 20:09:21 2021 Page 2

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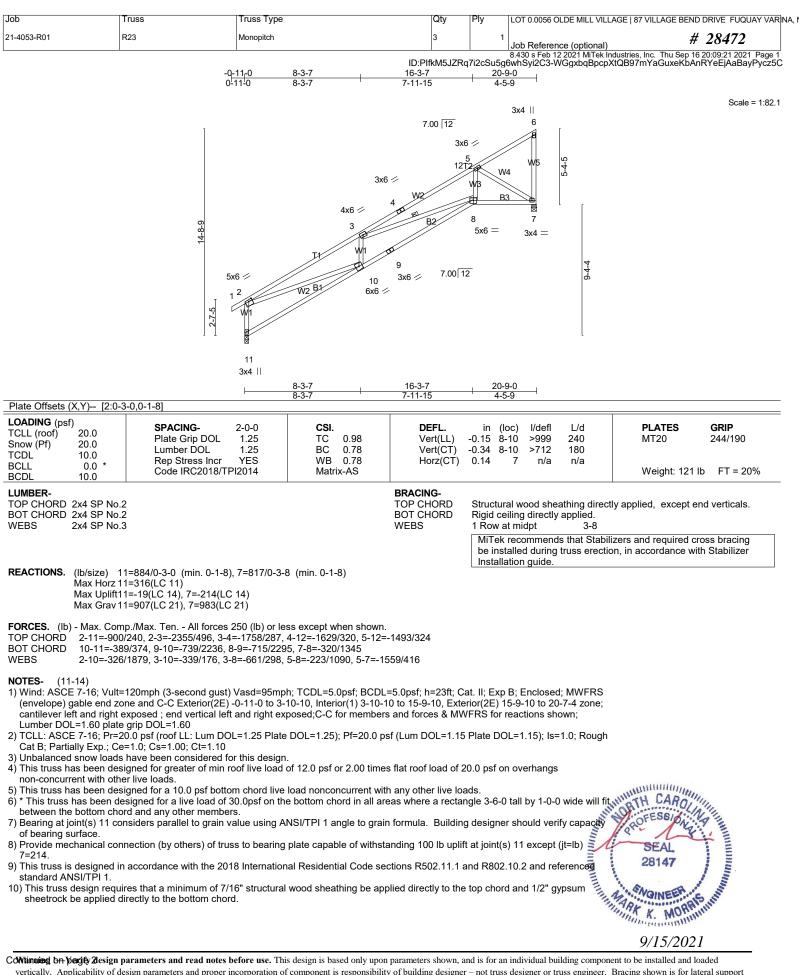
13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural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

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





vertically. Applicability of design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be instance and baded or vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. 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 Trusse Construction* and BCSI 1-03 Guide to *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 V	ILLAGE BEND DRIVE FUQUAY VAR NA, M
21-4053-R01	R23	Monopitch	3		1 Job Reference (optional)	# 28472
					8 430 s Feb 12 2021 MiTek Industries In	c Thu Sep 16 20:09:22 2021 Page 2

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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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Connected Wood Trustees for additional bracing guidelines, including diagonal bracing. 14) 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



Job	Truss	Truss Type	Qty	Ply		AGE 87 VILLAGE BEND DRIVE FUQUAY VAR NA
21-4053-R01	R27	Monopitch	1	1	Job Reference (optional)	# 28472
			ID:PlfkM5J	ہ IZRq7i2cSu	3.430 s Feb 12 2021 MiTek In 5g6whSyi2C3-Teoi0WC48	dustries, Inc. Thu Sep 16 20:09:23 2021 Page 1 QnbgUJWtzdkzMjiRt0cD0dugh0Hycz5A
		-0 <u>-11₁0 7-11-8</u> 0-11-0 7-11-8		5-11-8 8-0-0		
			7.00	10	4x6 🚧	Scale: 3/16"=1'
	Ţ		7.00 [12	5	
				T2		
			3x6 / 10			
		2	2x4 4 3			
	11-11-0		B	W4 //	W5	
	÷	9 T1		1/		
		5x5 🖘				
		1 2	W3			
	2-7-5	W1 W2				
	1.		B1		3x4 = 6	
		⁸ 3x4	7 11 4x8 =		6	
		⊢7-11-8 7-11-8		5-11-8 8-0-0		
Plate Offsets (X,Y) [2:0 LOADING (psf))-2-0,0-1-12], [5:0-2-14,0-2-					
TCLL (roof) 20.0 Snow (Pf) 20.0	SPACING- Plate Grip DOL	2-0-0 CSI . 1.25 TC 0.86	DEFL. Vert(LL)	in (loc -0.29 6-	7 >641 240	PLATES GRIP MT20 244/190
TCDL 10.0 BCLL 0.0 *	Lumber DOL Rep Stress Incr Code IRC2018/TF	1.25 BC 0.85 YES WB 0.55 Pl2014 Matrix-AS	Vert(CT) Horz(CT)	-0.38 6- -0.01	-7 >493 180 6 n/a n/a	Weight: 115 lb FT = 20%
BCDL 10.0		12014 Matrix-AS	BRACING-			
TOP CHORD 2x4 SP No BOT CHORD 2x4 SP No			TOP CHORD BOT CHORD		l wood sheathing directl ing directly applied.	y applied, except end verticals.
WEBS 2x4 SP No W5: 2x4 S	o.3 *Except* P No.2		WEBS	1 Řow at MiTek r	1 ,	7 zers and required cross bracing
				be insta		n, in accordance with Stabilizer
Max Hórz	6=625/Mechanical, 8=693/ 8=348(LC 13)					
Max Uplift Max Grav	6=-143(LC 14), 8=-39(LC 2 6=865(LC 24), 8=718(LC 2	14) 21)				
		250 (lb) or less except when shown				
2-9660 2-8=-644 BOT CHORD 7-8=-329	l/124	93/203, 4-10=-599/214, 5-10=-528/2	230, 3-0090/100,			
	5/256, 5-7=-246/862, 2-7=-9	9/469				
NOTES- (11-14) 1) Wind: ASCE 7-16; Vult	t=120mph (3-second gust)	Vasd=95mph; TCDL=5.0psf; BCDL	_=5.0psf; h=23ft; C	at. II; Exp E	3; Enclosed; MWFRS	
cantilever left and right	t exposed ; end vertical left	-0-11-0 to 3-10-10, Interior(1) 3-10- and right exposed;C-C for member				
	=20.0 psf (roof LL: Lum DO	L=1.25 Plate DOL=1.25); Pf=20.0 p	osf (Lum DOL=1.15	Plate DOL	.=1.15); ls=1.0; Rough	
3) Unbalanced snow load	Ce=1.0; Cs=1.00; Ct=1.10 Is have been considered fo	··· · · · · · · · · · · · ·				
 4) This truss has been de non-concurrent with ott 5) This truss has been de 	her live loads.	oof live load of 12.0 psf or 2.00 time		20.0 psi on	overnangs	ANNUM CAR
 6) * This truss has been de between the bottom ch 	designed for a live load of 3	oof live load of 12.0 psf or 2.00 time m chord live load nonconcurrent wi 30.0psf on the bottom chord in all ar 's, with BCDL = 10.0psf. ss to bearing plate capable of withst 8 International Residential Code se	eas where a rectain	ngle 3-6-0 t	all by 1-0-0 wide will fit	OFESSION
7) Refer to girder(s) for tra 8) Provide mechanical co	uss to truss connections.	ss to bearing plate capable of withst	anding 100 lb uplif	t at ioint(s)	8 except (it=lb) 6=143	art la
9) This truss is designed standard ANSI/TPI 1.	in accordance with the 201	8 International Residential Code se	ections R502.11.1	and R802.1	0.2 and referenced	28147
10) This truss design req sheetrock be applied	uires that a minimum of 7/1 directly to the bottom chore	I6" structural wood sheathing be ap d.	plied directly to the	e top chord	and 1/2" gypsum	MANDON A
		30.0psf on the bottom chord in all ar rs, with BCDL = 10.0psf. ss to bearing plate capable of withst 8 International Residential Code se 16" structural wood sheathing be ap d.			in the second seco	APA & MORRIGHT
						0/15/2021
						9/15/2021

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILL	AGE BEND DRIVE FUQUAY VAR
21-4053-R01	R27	Monopitch	1	1	Job Reference (optional)	# 28472
					8.430 s Feb 12 2021 MiTek Industries, Inc.	Thu Sep 16 20:09:23 2021 Page 2

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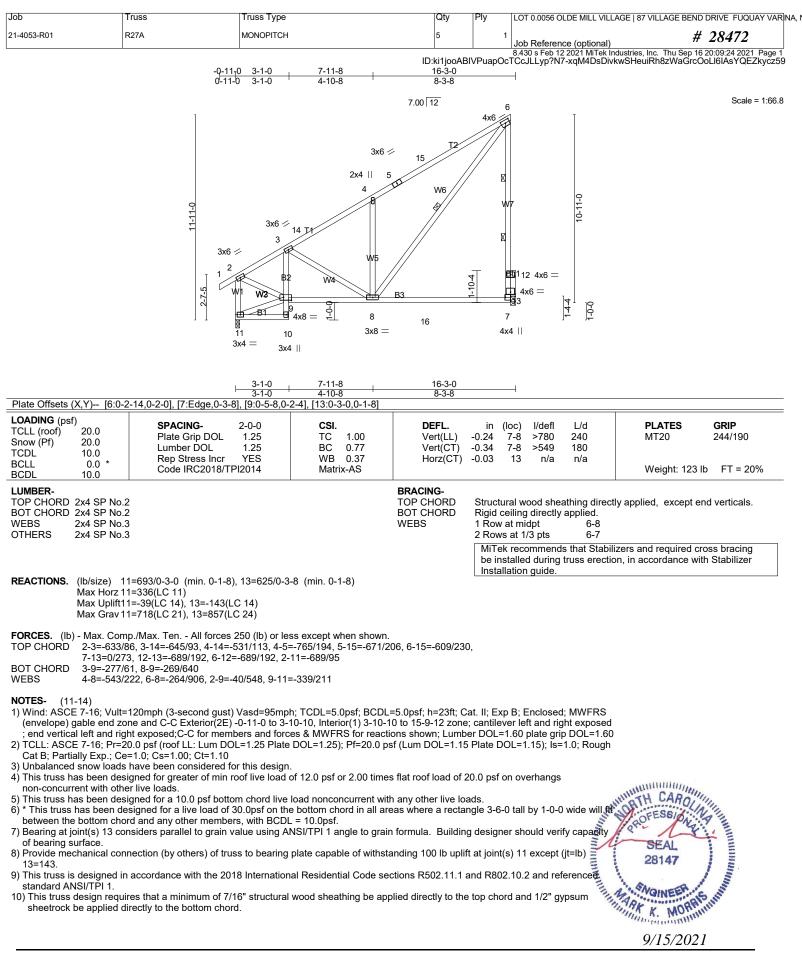
11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural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

13) 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. 14) 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





Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILL	AGE BEND DRIVE FUQUAY VAR	NA, N
21-4053-R01	R27A	MONOPITCH	5	1	Job Reference (optional)	# 28472	
					8 430 c Eeb 12 2021 MiTek Industries Inc.	Thu Son 16 20:00:25 2021 Page 2	

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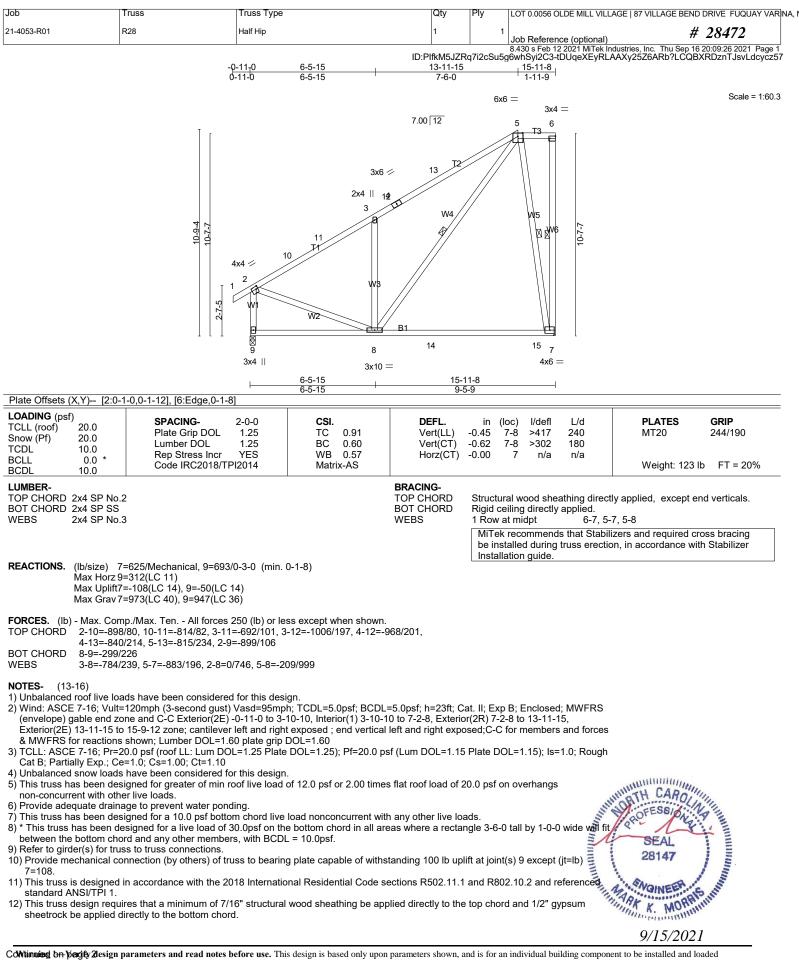
Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
 Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural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

 13) 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.
 14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS

14) 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





Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE BEND DRIVE FUQUAY VAR NA
21-4053-R01	R28	Half Hip	1	1	Job Reference (optional) # 28472
					8.430 s Feb 12 2021 MiTek Industries, Inc. Thu Sep 16 20:09:26 2021 Page 2

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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 Trustees 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



b	Trus	s Truss Type		Qty	Ply LOT 0.0056 OLDE MILL VILL	LAGE 87 VILLAGE BEND DRIVE FUQUAY VA
4053-R01	R29	Half Hip Supp	orted	1	Job Reference (optional)	# 28472
		0.44.0 0.7.4	4		q7i2cSu5g6whSyi2C3-pcbb3DGDzy0	ndustries, Inc. Thu Sep 16 20:09:28 2021 Page QumFCTgWCvgQRZN?GrhykInAOSiVycz
		-0 <mark>-11-0 2-7-4</mark> 0-11-0 2-7-4		<u>2-5-8</u> -10-4	<u>15-11-8</u> 3-6-0	
				4	x4 =	Scale = 1:59
					3x4 = 89 10	
		Ţ		7		
			7.00 12	ł		
			22	6		
			5 ²² It B			
		6 - 0- 3	4 21			
		d 3 3x6 ≠		Вт5	S16 S16	
		2 20	ST3	ST4		
			ST2 T1			
		2W 1W 25-7-5				
		19 3x4 3x	18 17 16 4 =	15 14	13 12 11 3x4 =	
		<u>2-7-4</u> 2-7-4	1	15-11-8 13-4-4		
ate Offsets () ADING (psf)		e,0-1-8], [11:Edge,0-1-8]				
LL (roof)	20.0	SPACING- 2-0-0 Plate Grip DOL 1.25	CSI. TC 0.88	DEFL. Vert(LL)	in (loc) l/defl L/d 0.00 1 n/r 180	PLATES GRIP MT20 244/190
ow (Pf) :DL	20.0 10.0	Lumber DOL 1.25 Rep Stress Incr YES	BC 0.42 WB 0.22	Vert(CT) Horz(CT)	-0.00 1 n/r 80 -0.00 11 n/a n/a	
EL DL	0.0 * 10.0	Code IRC2018/TPI2014	Matrix-S	11012(01)	0.00 11 1/4 1/4	Weight: 145 lb FT = 20%
	2x4 SP No.2			BRACING- TOP CHORD	Structural wood shoothing direct	tly applied or 6-0-0 oc purlins, except
DT CHORD	2x4 SP No.2 2x4 SP No.3 2x4 SP No.3			BOT CHORD	end verticals.	
	2x4 SP No.3 2x4 SP No.3				Rigid ceiling directly applied or 1 6-0-0 oc bracing: 18-19.	
				WEBS		, 7-14, 8-13, 9-12 lizers and required cross bracing
					be installed during truss erection Installation guide.	on, in accordance with Stabilizer
	All bearings 1 Max Horz 19=2				metanation garact	
(13)	Max Uplift All u	uplift 100 lb or less at joint(s) 11, 1 127(LC 10), 18=-209(LC 11)	5, 16, 17, 14, 13, 12 e	except		
	Max Grav All r	reactions 250 lb or less at joint(s)			A A A A A A A A A A A A A A A A A A A	
		20(LC 40), 16=319(LC 40), 17=31 58(LC 39)	6(LC 40), 18=414(LC	40), 14=321(LC 40),	
		/lax. Ten All forces 250 (lb) or le	ss except when show	n.		
P CHORD T CHORD	2-19=-313/130 18-19=-278/18					
BS	2-18=-199/290	0				
DTES- (15- Wind: ASCE)mph (3-second gust) Vasd=95mp	h' TCDI =5 Opef RCC) =5 ()psf· h=23ff· ()	at II: Exp B: Enclosed: MWERS	
(envelope) g	able end zone a	and C-C Corner(3E) -0-11-0 to 3-1 2 zone; cantilever left and right ex	0-10, Exterior(2N) 3-1	0-10 to 7-7-14, Cor	ner(3R) 7-7-14 to 12-5-8,	
						annihilliter.
Gable End D	Details as applic	able, or consult qualified building	lesigner as per ANSI	wind (normal to the	ace), see Standard Industry	WINNATH CARO
CLL: ASCE Cat B; Partia	= 7-16; Pr=20.0 ally Exp.; Ce=1.(psr (roor LL: Lum DOL=1.25 Plate 0; Cs=1.00; Ct=1.10	DOL=1.25); Pf=20.0	pst (Lum DOL=1.18	Plate DOL=1.15); Is=1.0; Rough	OFESSION 9
Jnbalanced This truss ha	snow loads hav as been designe	n; Lumber DOL=1.60 plate grip D0 ads in the plane of the truss only. able, or consult qualified building psf (roof LL: Lum DOL=1.25 Plate 0; Cs=1.00; Ct=1.10 ve been considered for this design ad for greater of min roof live load ve loads. to prevent water ponding. ess otherwise indicated. bottom chord bearing. com one face or securely braced a -0 oc. ned for a 10.0 psf bottom chord liv- gned for a live load of 30.0psf on t	of 12.0 psf or 2.00 tim	es flat roof load of 2	20.0 psf on overhangs	SEAL
non-concurr Provide ade	ent with other liv	ve loads. to prevent water bonding				28147
All plates are	e 2x4 MT20 unle	ess otherwise indicated.			1111	No. 1
Truss to be f	fully sheathed fr	rom one face or securely braced a	gainst lateral moveme	ent (i.e. diagonal we	b).	A NOINEER G
) Gable stud) This truss I	s spaced at 2-0 has been desigr	-u oc. ned for a 10.0 psf bottom chord liv	e load nonconcurrent	with any other live I	oads.	Mark K. MOrmun
	s has been desid	gned for a live load of 30.0psf on t	ne bottom chord in all	areas where a rect	angle 3-6-0 tall by 1-0-0 wide will	
		rd and any other members, with B	CDL = 10.0psf		o y	9/15/2021

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 *Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

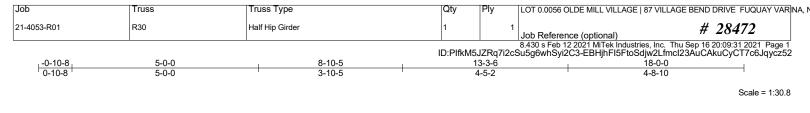
Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAG	GE BEND DRIVE FUQUAY VAR	NA, M
21-4053-R01	R29	Half Hip Supported	1	1	Job Reference (optional)	# 28472	
		ID:F	PlfkM5JZF		8.430 s Feb 12 2021 MiTek Industries, Inc. Th g6whSyi2C3-Ho9zGZHrjGYIOPmgEEk8[

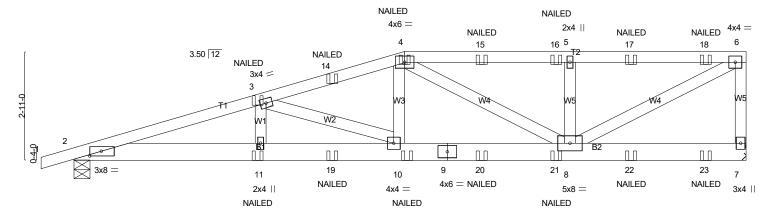
NOTES- (15-18)

- 13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11, 15, 16, 17, 14, 13, 12 except (jt=lb) 19=127, 18=209. 14) 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.
- 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.
 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.
- 16) 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.
- 17) 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.
 18) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS
- 18) 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







		<u>5-0-0</u> 5-0-0		8-10-5 3-10-5		13-3-6 4-5-2	1	18-0-0 4-8-10		
Plate Offsets ((X,Y) [2:0-3-1	12,0-1-8]								
LOADING (psf TCLL (roof) Snow (Pf) TCDL BCLL BCDL	f) 20.0 20.0 10.0 0.0 * 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr Code IRC2018/T	2-0-0 1.25 1.25 NO PI2014	CSI. TC 0.48 BC 0.85 WB 0.63 Matrix-MSH	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defl -0.10 11 >999 -0.18 10-11 >999 0.04 7 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 102 II	GRIP 244/190 D FT = 20%	
LUMBER- TOP CHORD BOT CHORD	2x4 SP No.2				BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 3-1-11 oc purlins, exercise end verticals. Rigid ceiling directly applied or 10-0-0 oc bracing. MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.				
REACTIONS.	Max Horz 2=8 Max Uplift7=-	391/Mechanical, 2=931 38(LC 9) 196(LC 8), 2=-180(LC 1015(LC 33), 2=1114(L	8)	0-1-8)		v				
	2-3=-2796/4 5-16=-1383/	./Max. Ten All forces .66, 3-14=-1876/368, 4 /291, 5-17=-1383/291,	-14=-18́22/3 17-18=-1383	74, 4-15–1383/291, 1 9/291, 6-18=-1383/291	5-16=-1383/291,					
2) Wind: ASCI	20-21=-328/ 3-10=-974/1 4-17) d roof live loads E 7-16; Vult=12	'1719, 8-21=-328/1719 40, 4-10=-31/524, 4-8= s have been considere 20mph (3-second gust	572/95, 5-8 d for this des) Vasd=95mp	sign. bh; TCDL=5.0psf; BCI	1534 DL=5.0psf; h=23ft; C					
WEBS NOTES- (14 1) Unbalanced 2) Wind: ASCI (envelope) (3) TCLL: ASCI Cat B; Parti 4) Unbalanced 5) This truss h pon-concur	20-21=-328/ 3-10=-974/1 4-17) d roof live loads E 7-16; Vult=11 gable end zone E 7-16; Pr=20. ially Exp.; Ce=' d snow loads h has been desig rent with other	1719, 8-21=-328/1719 40, 4-10=-31/524, 4-8 s have been considere 20mph (3-second gust e; cantilever left and rig 0 psf (roof LL: Lum DC 1.0; Cs=1.00; Ct=1.10 ave been considered f ned for greater of min i live loads	- 572/95, 5-8 d for this des Vasd=95mp yht exposed ; DL=1.25 Plate or this design roof live load	8=-490/180, 6-8=-298/ sign. bh; TCDL=5.0psf; BCI e DOL=1.25); Pf=20.0 n. of 12.0 psf or 2.00 tir	1534 DL=5.0psf; h=23ft; C ight exposed; Lumb psf (Lum DOL=1.15 nes flat roof load of 2	er DOL=1.60 plate gr 5 Plate DOL=1.15); ls 20.0 psf on overhangs	p DOL=1.60 =1.0; Rough	BTH CAROLIN	1111.	
WEBS NOTES- (14 1) Unbalanced 2) Wind: ASCI (envelope) (3) TCLL: ASCI Cat B; Parti 4) Unbalanced 5) This truss h pon-concur	20-21=-328/ 3-10=-974/1 4-17) d roof live loads E 7-16; Vult=11 gable end zone E 7-16; Pr=20. ially Exp.; Ce=' d snow loads h has been desig rent with other	1719, 8-21=-328/1719 40, 4-10=-31/524, 4-8 s have been considere 20mph (3-second gust e; cantilever left and rig 0 psf (roof LL: Lum DC 1.0; Cs=1.00; Ct=1.10 ave been considered f ned for greater of min i live loads	- 572/95, 5-8 d for this des Vasd=95mp yht exposed ; DL=1.25 Plate or this design roof live load	8=-490/180, 6-8=-298/ sign. bh; TCDL=5.0psf; BCI e DOL=1.25); Pf=20.0 n. of 12.0 psf or 2.00 tir	1534 DL=5.0psf; h=23ft; C ight exposed; Lumb psf (Lum DOL=1.15 nes flat roof load of 2	er DOL=1.60 plate gr 5 Plate DOL=1.15); ls 20.0 psf on overhangs	p DOL=1.60 =1.0; Rough	SEAL 28147	ALL A A	
WEBS NOTES- (14 1) Unbalanced 2) Wind: ASCI (envelope) (3) TCLL: ASCI Cat B; Parti 4) Unbalanced 5) This truss h pon-concur	20-21=-328/ 3-10=-974/1 4-17) d roof live loads E 7-16; Vult=11 gable end zone E 7-16; Pr=20. ially Exp.; Ce=' d snow loads h has been desig rent with other	1719, 8-21=-328/1719 40, 4-10=-31/524, 4-8= s have been considere 20mph (3-second gust e; cantilever left and rig 0 psf (roof LL: Lum DC 1.0; Cs=1.00; Ct=1.10 ave been considered f	- 572/95, 5-8 d for this des Vasd=95mp yht exposed ; DL=1.25 Plate or this design roof live load	8=-490/180, 6-8=-298/ sign. bh; TCDL=5.0psf; BCI e DOL=1.25); Pf=20.0 n. of 12.0 psf or 2.00 tir	1534 DL=5.0psf; h=23ft; C ight exposed; Lumb psf (Lum DOL=1.15 nes flat roof load of 2	er DOL=1.60 plate gr 5 Plate DOL=1.15); ls 20.0 psf on overhangs	p DOL=1.60 =1.0; Rough	SEAL 28147		

Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VIL	LAGE BEND DRIVE FUQUAY VAR NA,
21-4053-R01	R30	Half Hip Girder	1	1	Job Reference (optional)	# 28472
					8 430 s Feb 12 2021 MiTek Industries Inc.	Thu Sep 16 20:09:31 2021 Page 2

ID:PlfkM5JZRq7i2cSu5g6whSyi2C3-EBHjhFl5FtoSdjw2Lfmcl23AuCAkuCyCT7c6Jqycz52

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.

LOAD CASE(S) Standard

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

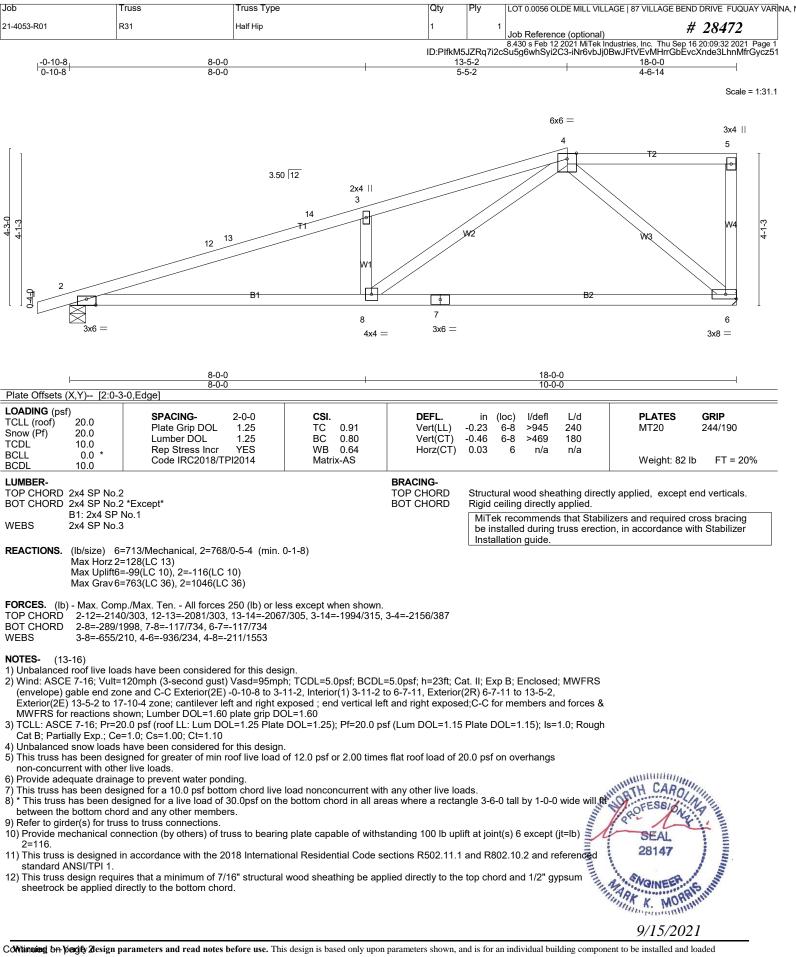
Uniform Loads (plf) Vert: 1-4=-60, 4-6=-60, 2-7=-20

Concentrated Loads (lb)

Vert: 3=-43(F) 11=-72(F) 10=-14(F) 4=-20(F) 14=-3(F) 15=-20(F) 16=-20(F) 17=-20(F) 18=-22(F) 19=-51(F) 20=-14(F) 21=-14(F) 22=-14(F) 23=-15(F)



9/15/2021



Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLAGE BEND DRIVE FUQUAY VAR
21-4053-R01	R31	Half Hip	1	1	Job Reference (optional) # 28472
					8,430 s Feb 12 2021 MiTek Industries, Inc. Thu Sep 16 20:09:33 2021 Page 2

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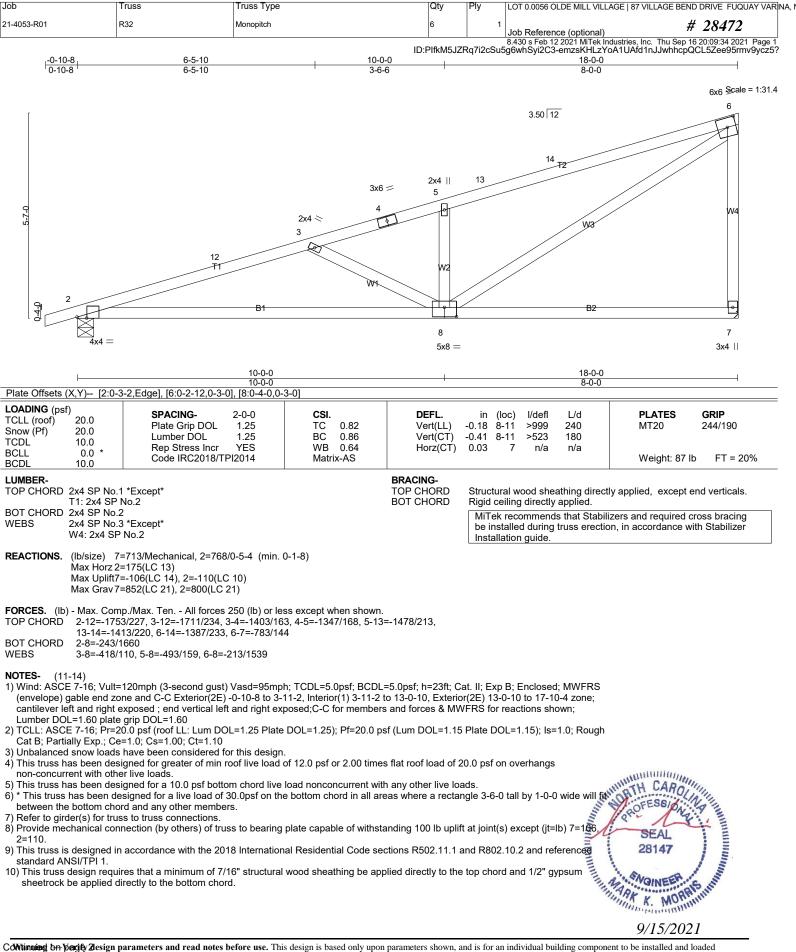
13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 14) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural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





Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87 VILLA	GE BEND DRIVE FUQUAY VAR
21-4053-R01	R32	Monopitch	6	1	Job Reference (optional)	# 28472
					8.430 s Feb 12 2021 MiTek Industries, Inc. T	hu Sep 16 20:09:34 2021 Page 2

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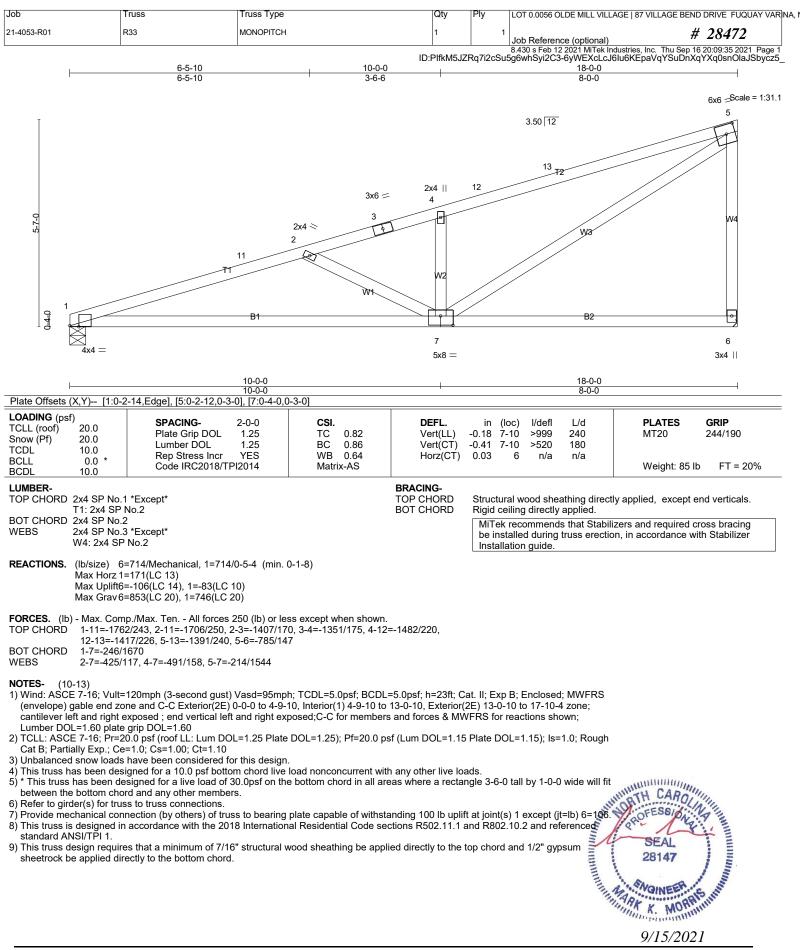
11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 12) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural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

13) 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. 14) 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





Job	Truss	Truss Type	Qty	Ply	LOT 0.0056 OLDE MILL VILLAGE 87	VILLAGE BEND DRIVE FUQUAY VAR NA, N
21-4053-R01	R33	MONOPITCH	1		1 Job Reference (optional)	# 28472
<u>.</u>					8 430 s Feb 12 2021 MiTek Industries	Inc. Thu Sep 16 20:09:35 2021 Page 2

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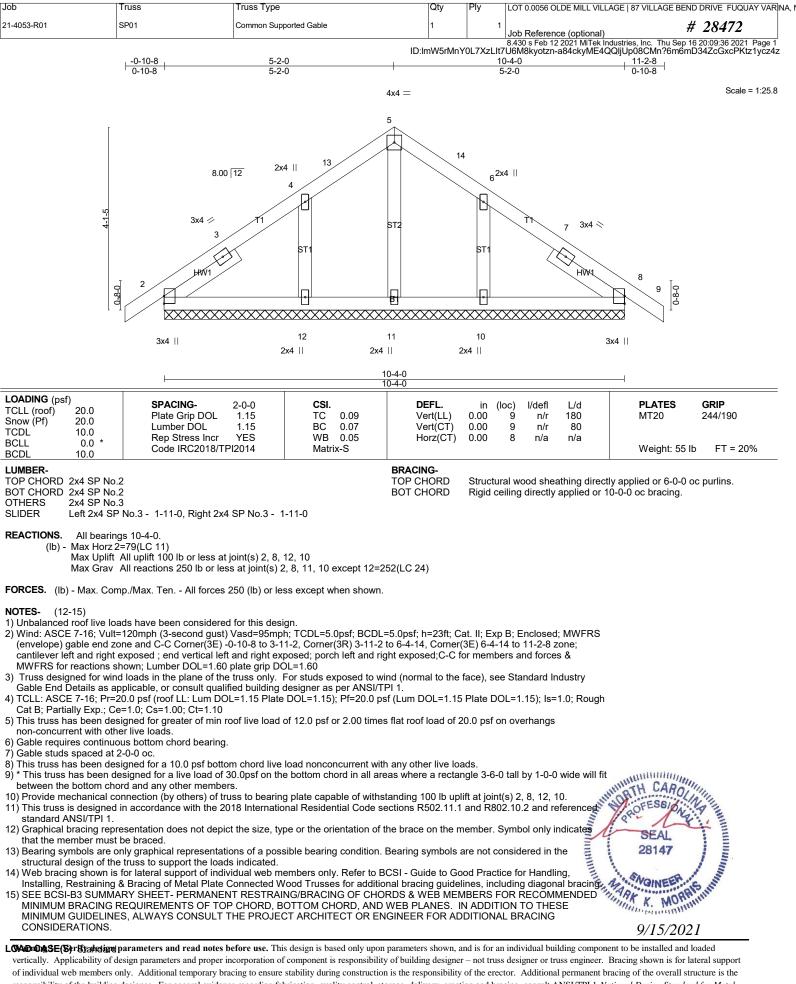
10) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 11) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural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

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

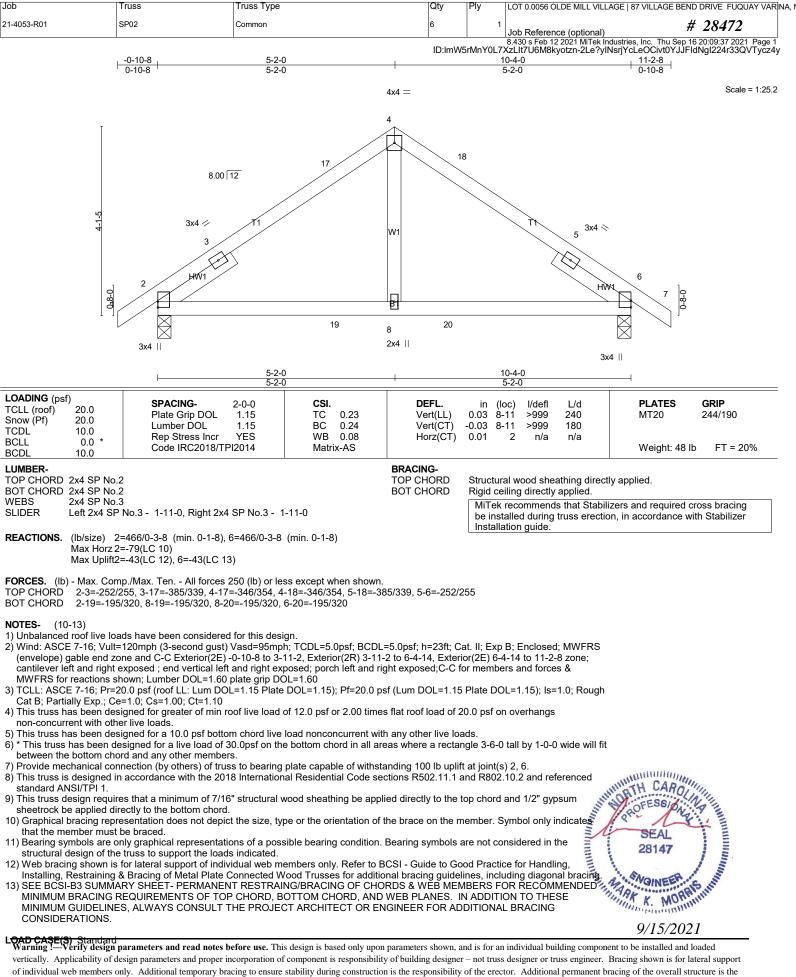
Connected Wood Trusses for additional bracing guidelines, including diagonal bracing. 13) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

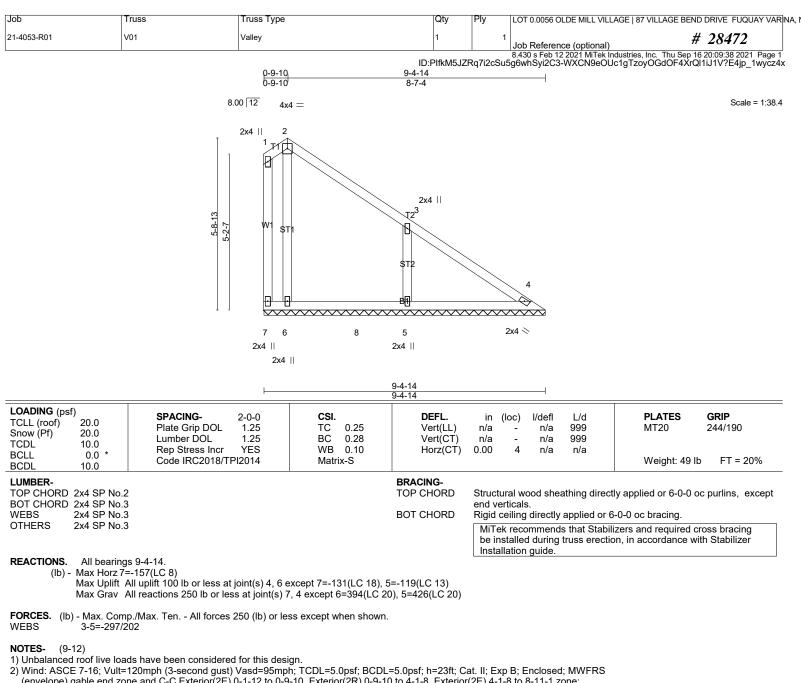




responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 National Design Standard for Metal Plate Connected Wood Truss Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



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 Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.



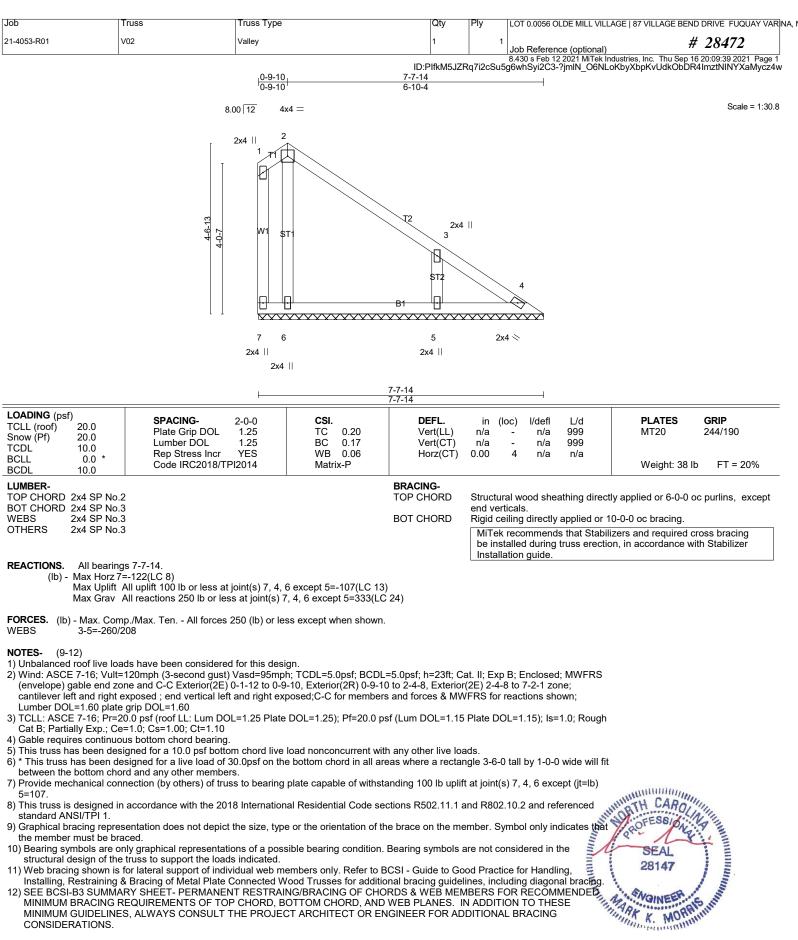
- (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 0-9-10, Exterior(2R) 0-9-10 to 4-1-8, Exterior(2E) 4-1-8 to 8-11-1 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); 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
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
- 7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 6 except (jt=lb)

- Divide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 6 except (jt=lb) 7=131, 5=119.
 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.
 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.
 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.
 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.
 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

LOAD CASE(S) Standard

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 Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

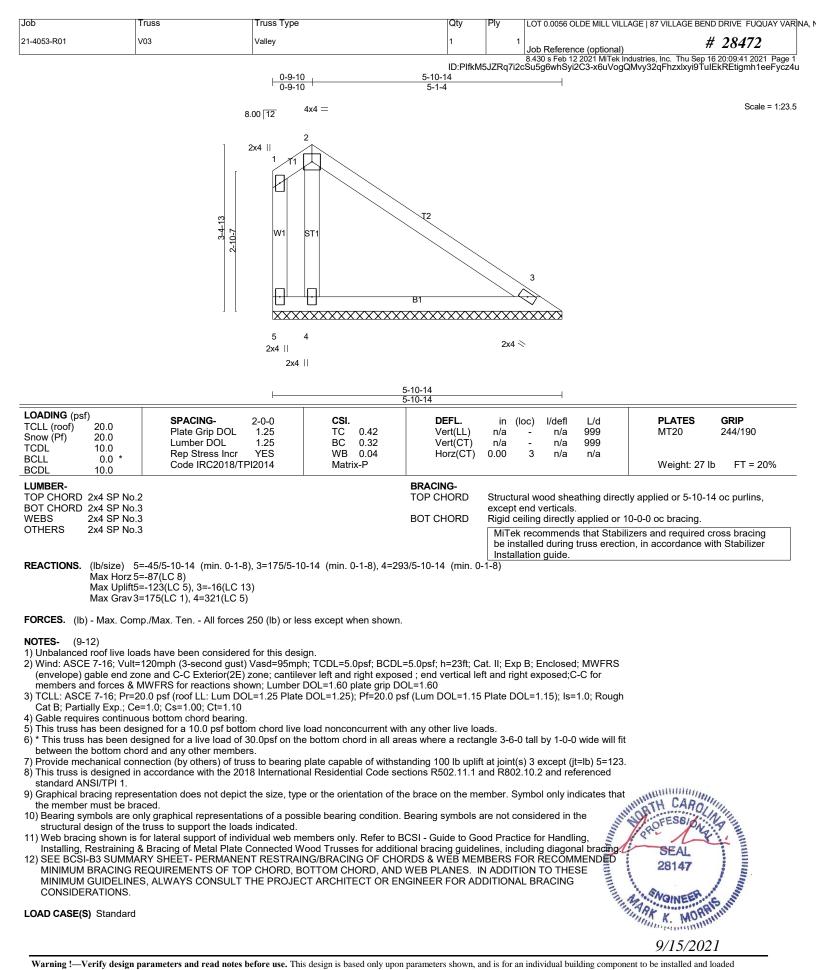
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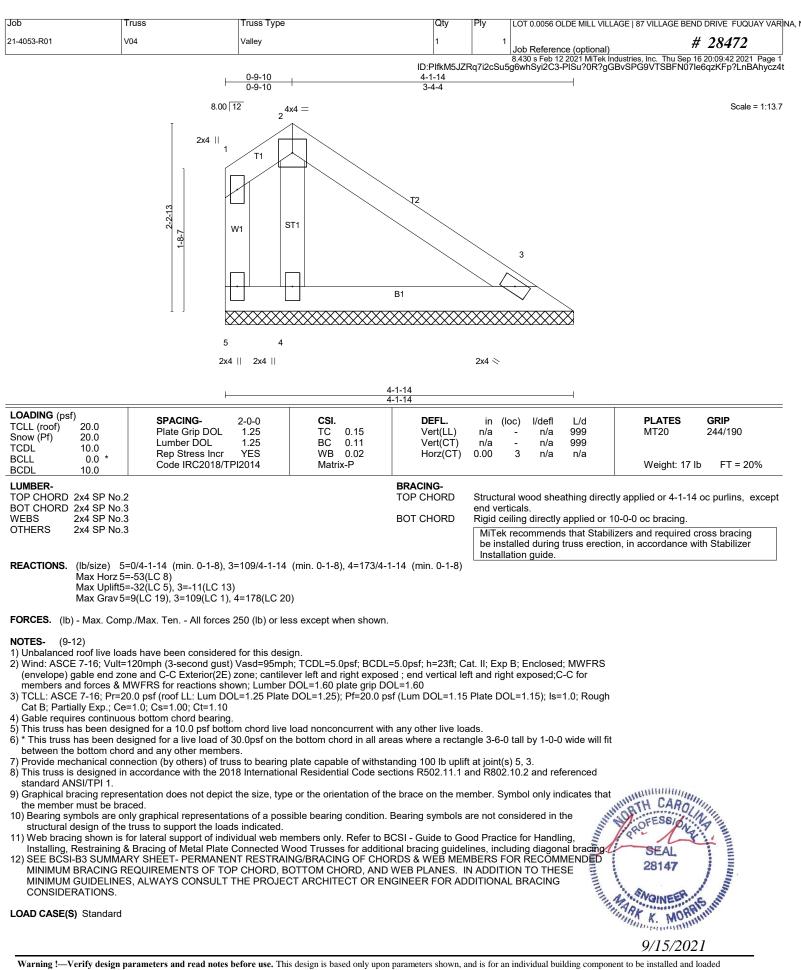


LOAD CASE(S) Standard

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 Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

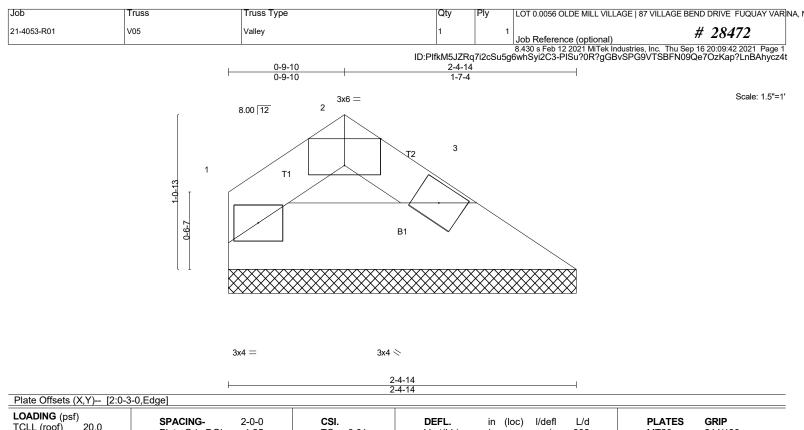
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- 9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
- 10) Bearing symbols are only graphical representations of a possible bearing 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 BČŠI-B3 SUMMĂRY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WĔB MEMBERS FOR ŘECŎMMENDED
- ANNIHIT ANA AK 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



LOADING (psf) TCLL (roof) 20.0 Snow (Pf) 20.0 TCDL 10.0 BCLL 0.0 * BCDL 10.0	SPACING-2-0-0Plate Grip DOL1.25Lumber DOL1.25Rep Stress IncrYESCode IRC2018/TPI2014	CSI. TC 0.01 BC 0.01 WB 0.00 Matrix-P	DEFL. Vert(LL) Vert(CT) Horz(CT)		L/d 999 999 n/a	PLATES MT20 Weight: 9 lb	GRIP 244/190 FT = 20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x6 SP No.2			BRACING- TOP CHORD BOT CHORD	Structural wood sheathing directly applied or 2-4-14 oc purlins. Rigid ceiling directly applied or 10-0-0 oc bracing.			
				MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.			

REACTIONS. (lb/size) 1=69/2-4-14 (min. 0-1-8), 3=69/2-4-14 (min. 0-1-8) Max Horz 1=-13(LC 10) Max Uplift1=-4(LC 12), 3=-5(LC 13)

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

NOTES- (9-12)

- 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.25 Plate DOL=1.25); 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
- 4) Gable requires continuous bottom chord bearing.
- 5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- 6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 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) 1, 3.
- 8) 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.
- 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.

LOAD CASE(S) Standard

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