# 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 #: 44199 JOB: 24-0270-R01 JOB NAME: LOT 90 PROVIDENCE CREEK Wind Code: 37 Wind Speed: Vult= 120mph Exposure Category: B Mean Roof Height (feet): 35 These truss designs comply with IRC 2015 as well as IRC 2018. 24 Truss Design(s)

Trusses:

J01, J02, J03, J04, J05, J06, R01, R02, R02A, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, R14, SP01, SP02, V01



# 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* 



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Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHALL DRIVE FUQUAY-VARINA,
24-0270-R01	J03	Roof Special Girder	1	1	Job Reference (optional) # 44199
		Run: 8.43	30 s Feb 12	2021 Print	:: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20:45:56 2024 Page

ID:P9Fbno1x1NcL\_1BS5\_FittyrTtl-MJ6xE2FtuypM4cyuk4DHZvyUPJy33qO0?z4?cwzv00f 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: 1-3=-60, 3-4=-60, 5-7=-20

Concentrated Loads (lb)

Vert: 3=-4(B) 6=-11(B) 10=-4(B) 11=-4(B) 13=-11(B) 14=-11(B)



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responsionity of the bundling designer. For general guidance regulating norreading, duritely, election and bracing, consult responsional besign statu
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 Ins
D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHALL DR	IVE FUQUAY-VARINA, NC
24-0270-R01	J05	Jack-Closed Girder	2	2	Job Reference (optional)	# 44199
		Run: 8.43 I	0 s Feb 12 D:P9Fbno	2021 Print: 1x1NcL_1	: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 1BS5_FittyrTtl-qVgJROFVfFxDimX4InkW66Vk0	15 20:45:57 2024 Page 2 gjC0oKt9EdqY8Mzv00e

### LOAD CASE(S) Standard

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

Vert: 1-3=-60, 4-5=-20 Concentrated Loads (lb) Vert: 9=-549(F) 10=-549(F)



Job	Truss	Truss Type	Qty	Ply LOT 9	0 PROVIDENCE CREE	K   83 DAVINHALL DRIVE FUQUAY-VARINA, NC
24-0270-R01	J06	Jack-Open	6	1		# 44199
			Run: 8.430 s Feb 12	Job F 2 2021 Print: 8.430	Reference (optional) s Feb 12 2021 MiTek In	dustries, Inc. Mon Jan 15 20:45:58 2024 Page 1
		0.10.8	ID:P9Fb	no1x1NcL_1BS5	_FittyrTtl-IhEhfkG7Q	Z34Jw6GsVFleK1sK7ciXn7JTHZ6gozv00d
	F	0-10-8	5-0-0		—	
						Scale = 1:21 5
					3	00010 - 1.21.0
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		6.75 12	/			
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	с,	214			3-4-	
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			B1			
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		3x4		·	4	
			500			
		ļ	5-0-0			
LOADING (psf)	SPACING-	200 CSI	DEEL	in (loc)	l/defl l/d	
TCLL (roof) 20.0	Plate Grip DOL	1.15 TC 0.52	Vert(LL)	-0.03 4-5 3	>999 240	MT20 244/190
TCDL 10.0	Lumber DOL	1.15 BC 0.26	Vert(CT)	-0.05 4-5	>999 180	
BCLL 0.0 *	Code IRC2021/TP	YES WB 0.00 2014 Matrix-AS	Horz(CT)	0.04 3	n/a n/a	Weight: 18 lb FT = 20%
BCDL 10.0						
LUMBER- TOP CHORD 2x4 SP No	2		TOP CHORD	Structural woo	od sheathing direct	ly applied except end verticals
BOT CHORD 2x4 SP No	0.2		BOT CHORD	Rigid ceiling c	lirectly applied.	
WEBS 2x4 SP No	o.3			MiTek recon	nmends that Stabili	zers and required cross bracing
				be installed	during truss erectic wide	on, in accordance with Stabilizer
REACTIONS. (lb/size)	5=259/0-3-8 (min. 0-1-8), 3	=131/Mechanical, 4=54/Mechanica	I			
Max Horz Max Unlift	5=101(LC 14) 5=-15(LC 14)					
Max Opint Max Grav	5=344(LC 21), 3=207(LC 2	) 1), 4=90(LC 7)				
	mp /Max Tan All foreas ?	EQ (Ib) or loss avaant when shown				
TOP CHORD 2-5=-311	/103	so (ib) of less except when shown.				
1) Wind: ASCE 7-16: Vult	t=120mph (3-second aust)	/asd=95mph: TCDL=5.0psf: BCDL=	=5.0psf: h=35ft: C	at. II: Exp B: En	closed: MWFRS	
(envelope) gable end z	cone and C-C Exterior(2E) z	cone; cantilever left and right expose	ed ; end vertical le	ft and right exp	osed;C-C for	
members and forces &	MWFRS for reactions show	vn; Lumber DOL=1.60 plate grip DC =1 15 Plate DOI =1 15): Pf=20.0 ps	)L=1.60 :f (Lum DOI =1.15	Plate DOI =1 1	5): ls=1 0: Rough	
Cat B; Partially Exp.; C	ce=1.0; Cs=1.00; Ct=1.10	-1.101 hate DOL $-1.10$ , $11-20.0$ pa			o), is=1.0, itougii	
3) Unbalanced snow load	Is have been considered for	this design.	flat roof load of C	0.0 not on over	hanga	
non-concurrent with ot	her live loads.				nanys	
5) This truss has been de	signed for a 10.0 psf bottor	n chord live load nonconcurrent with	any other live loa	ads.		
between the bottom ch	ord and any other members	0.0pst on the bottom chord in all are	as where a rectar	ngle 3-6-0 tall b	y 1-0-0 wide will fit	
7) Refer to girder(s) for tr	russ to truss connections.					
<ol> <li>8) Provide mechanical co</li> <li>9) This truss design requi</li> </ol>	nnection (by others) of trus	s to bearing plate capable of withsta ' structural wood sheathing be appli	inding 100 lb uplif	t at joint(s) 5, 3.	/2" avosum	same in the second s
sheetrock be applied d	lirectly to the bottom chord.	structural wood sheatting be appli			/z gypsun	WINATH CARO
10) Graphical bracing rep	resentation does not depict	the size, type or the orientation of t	he brace on the m	nember. Symbo	l only indicates	SFESSIG Valle
11) Bearing symbols are	only graced.	ons of a possible bearing condition.	Bearing symbols a	are not conside	red in the	and have me
structural design of th	e truss to support the loads	indicated.				SEAL
12) Web bracing shown is Installing Restraining	s tor lateral support of indivi	dual web members only. Refer to B	CSI - Guide to Go	od Practice for	Handling,	28147
13) SEE BCSI-B3 SUMM	ARY SHEET- PERMANEN	T RESTRAING/BRACING OF CHO	RDS & WEB MEN	BERS FOR RE		
MINIMUM BRACING	REQUIREMENTS OF TOP	CHORD, BOTTOM CHORD, AND	WEB PLANES. I		O THESE	AN ANGINEER
MINIMUM GUIDELIN	ES, ALWAYS CONSULT T	HE PROJECT ARCHITECT OR EN	GINEER FOR AD	UTIONAL BRA	ACING M	ARK K MORPHUN
						Man R. MOUNT
LOAD CASE(S) Standard	1					1/15/2024



BCDL 10.0			0
LUMBER-	BRACING-		
TOP CHORD 2x4 SP No.2	TOP CHORD	Structural wood sheathing direct	ly applied or 6-0-0 oc purlins, ex
BOT CHORD 2x4 SP No.3		end verticals.	
WEBS 2x4 SP No.3	BOT CHORD	<ul> <li>Rigid ceiling directly applied or 6</li> </ul>	3-0-0 oc bracing.
OTHERS 2x4 SP No.3	WEBS	1 Row at midpt 13-37,	, 12-38, 11-39, 14-36, 15-35
		MiTek recommends that Stabil	izers and required cross bracing
		be installed during truss erection	on, in accordance with Stabilizer

Installation guide.

All bearings 38-0-0. REACTIONS.

Max Grav All reactions 250 lb or less at joint(s) 48, 26, 40, 42, 43, 45, 46, 47, 34, 32, 31, 29, 28, 27 except 37=314(LC 27), 38=294(LC 5), 39=274(LC 5), 44=252(LC 24), 36=294(LC 6), 35=274(LC 6), 30=252(LC 25)

- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- TOP CHORD 11-12=-159/271, 12-13=-180/306, 13-14=-180/306, 14-15=-159/271

NOTES-(14-17)

- 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=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Exterior(2N) 3-11-2 to 14-2-6, Corner(3R) 14-2-6 to 23-9-10, Exterior(2N) 23-9-10 to 34-0-14, Corner(3E) 34-0-14 to 38-10-8 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) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1. 4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
- Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- Unbalanced snow loads have been considered for this design.
- 6) 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.
- 7) All plates are 2x4 MT20 unless otherwise indicated.
- 8) Gable requires continuous bottom chord bearing.
- 9) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- 10) Gable studs spaced at 2-0-0 oc.
- 11) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.

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except

<sup>(</sup>lb) - Max Horz 48=-247(LC 12)

Max Uplift All uplift 100 lb or less at joint(s) 26, 38, 39, 40, 42, 43, 44, 45, 46, 36, 35, 34, 32, 31, 30, 29, 28 except 48=-179(LC 10), 47=-203(LC 14), 27=-167(LC 15)

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHALL DF	RIVE FUQUAY-VARINA, NO
24-0270-R01	R01	Common Supported Gable	1	1	Job Reference (optional)	# 44199
		F	Run: 8.430 s Feb 12	2021 Print:	: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan	15 20:45:59 2024 Page 2

ID:P9Fbno1x1NcL\_1BS5\_FittyrTtl-muo3s4HmBtBwx4hTPCm\_BXa7BWzbGCzShxJfDEzv00c 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

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

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

LOAD CASE(S) Standard



1/15/2024



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Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHAL	L DRIVE FUQUAY-VARINA, NC
24-0270-R01	R02	Common	6	1	Job Reference (optional)	# 44199
			Run: 8.430 s Feb 12	2021 Print:	8.430 s Feb 12 2021 MiTek Industries, Inc. Mor	Jan 15 20:46:00 2024 Page 2

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 not considered in the structural design of the truss to support the

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12) Yes blacking shown is to hater support of individual web members only. Telef to boot a back to boot a factor of hatering, instanting, nestanting a blacking of index a factor of hatering of individual web members only. Telef to boot a back to boot a factor of hatering, nestanting a blacking of index a factor of hatering of individual web members only. Telef to boot a back to boot a factor of hatering, nestanting a blacking of index a factor of hatering of individual web members only. Telef to boot a back to boot a factor of hatering, nestanting a blacking of individual web members only. Telef to boot a back to boot a factor of hatering, nestanting, nestanting a blacking of individual web members only. Telef to boot a back to boot a factor of individual web members only. Telef to boot a boot a back to boot a factor of individual web members only. Telef to boot a back to boot a factor of individual web members on a distribution of the boot a back to boo

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHA	LL DRIVE FUQUAY-VARINA, NO
24-0270-R01	R02A	Common	4	1	Job Reference (optional)	# 44199
			Run: 8.430 s Feb 12	2021 Print	: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mo	on Jan 15 20:46:01 2024 Page 2

ID:P9Fbno1x1NcL\_1BS5\_FittyrTtl-jGvpHmI0jUReANqrXdpSGyfGbKSUk0ll9FomH7zv00a 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.

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LOAD CASE(S) Standard



1/15/2024



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Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CRE	EK   83 DAVINHALL DRIVE F	FUQUAY-VARINA, NC
24-0270-R01	R03	Нір	1	1	Job Reference (optional)	, # 4	44199
			Run: 8.430 s Feb 12 ID:P9Fbno1	2021 Print: 1NcL 1B	8.430 s Feb 12 2021 MiTek I S5 FittyrTtl-BTTCU5JeTc	ndustries, Inc. Mon Jan 15 20 ZVoXP25LKhpACS3kpxT	:46:02 2024 Page 2 Q2vNvXJpZzv00Z

NOTES- (11-14)

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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.

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LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHALL DRIVE FUQUAY-VARINA, N
24-0270-R01	R04	Нір	1	1	Job Reference (optional) # 44199
			Run: 8.430 s Feb 12	2021 Print:	: 8,430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20:46:03 2024 Page 2

10:P9Fbn1x1NcL\_1BS5\_FittyrTtI-ff1aiRKGE5hMdh\_Ee2rwLNkeF8ApC242cZHtM0zv00Y 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 not considered in the structural design of the truss to support the

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LOAD CASE(S) Standard





W5

Bá

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19-0-0

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4x4 <

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8x8 ||

38-0-0 6-7-12

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12

41

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d B'

14

4x6 =

be installed during truss erection, in accordance with Stabilizer

47

31-4-4

7-4-4

48

18<sub>15</sub>

4x8 =

Installation guide

16

4x6 =

2x4 =

LOADING (ps TCLL (roof) Snow (Pf) TCDL BCLL BCDL	f) 20.0 20.0 10.0 0.0 * 10.0	SPACING-2-0-0Plate Grip DOL1.15Lumber DOL1.15Rep Stress IncrYESCode IRC2021/TPI2014	CSI. TC 0.86 BC 0.87 WB 0.40 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) -0.29 19 -0.50 19 0.10 12	l/defl >999 >917 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 268 lb	<b>GRIP</b> 244/190 FT = 20%
LUMBER- TOP CHORD BOT CHORD	2x4 SP No.1 T3: 2x4 SP I 2x6 SP No.1 B3: 2x4 SP I	*Except* No.2 *Except* No.2		BRACING- TOP CHORD BOT CHORD WEBS	Structural v Rigid ceilin 6-0-0 oc bra 1 Row at m	vood she g directly acing: 18 idpt	athing direc applied. Ex 3-20 6-23, 1	tly applied. xcept: 7-20, 7-18, 8-14	
WEBS	2x4 SP No.3	8			MiTek rec	ommend	ls that Stabil	lizers and required cros	ss bracing

- SLIDER Left 2x6 SP No.2 -° 1-11-0, Right 2x6 SP No.2 -° 1-11-0
- REACTIONS. (lb/size) 2=1667/0-3-8 (min. 0-2-7), 12=1667/0-3-8 (min. 0-2-7) Max Horz 2=156(LC 13) Max Uplift2=-109(LC 14), 12=-109(LC 15) Max Grav 2=2088(LC 45), 12=2088(LC 45)
- FORCES. (Ib) Max. Comp./Max. Ten. All forces 250 (Ib) or less except when shown.
- 2-32=-1032/0, 3-32=-1030/0, 3-33=-3134/219, 33-34=-3011/231, 34-35=-2945/243, TOP CHORD 4-35=-2920/245, 4-5=-3144/333, 5-6=-3016/361, 6-36=-2427/260, 7-36=-2427/260, 7-37=-2427/260, 8-37=-2427/260, 8-9=-3016/361, 9-10=-3144/333, 10-38=-2920/245 38-39=-2945/242, 39-40=-3011/231, 11-40=-3134/219, 11-41=-1030/0, 12-41=-1032/0

42

14-0-0

7-4-4

23

4x6 =

22

4x8 =

BOT CHORD  $2\text{-}23\text{-}142/2624, \ 23\text{-}42\text{-}-39/2343, \ 22\text{-}42\text{-}-39/2343, \ 22\text{-}43\text{-}-39/2343, \ 21\text{-}43\text{-}-39/2343, \ 23\text{-}43\text{-}-39/2343, \ 23\text{-$ 21-44=-56/2577, 44-45=-56/2577, 17-45=-56/2577, 17-46=-56/2577, 16-46=-56/2577, 16-47=-39/2343, 15-47=-39/2343, 15-48=-39/2343, 14-48=-39/2343, 12-14=-128/2624 WEBS 4-23=-610/240, 6-23=-260/689, 6-21=0/983, 20-21=-441/149, 7-20=-413/176, 7-18=-413/176, 16-18=-441/147, 8-16=0/983, 8-14=-260/689, 10-14=-610/240, 17-19=-288/0

#### (11-14) NOTES-

4x4 🥢

8x8 ||

0-0-1

BC

3

32

6-7-12

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

- 1) Unbalanced roof live loads have been considered for this design.
- SEAL 28147 5/202 1 2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 6-2-9, Exterior(2R) 6-2-9 to 31-9-7, Interior(1) 31-9-7 to 34-0-14, Exterior(2E) 34-0-14 to 38-10-8 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=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10

- (at B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
  (4) Unbalanced snow loads have been considered for this design.
  (5) 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.
  (6) Provide adequate drainage to prevent water ponding.
  (7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
  (8) \* This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will find the bottom chord and any other members. with BCDL = 10.0psf. between the bottom chord and any other members, with BCDL = 10.0psf.
- 9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=109, 12=109

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHALL DRIVE	FUQUAY-VARINA, NC
24-0270-R01	R05	Hip	1	1	Job Reference (optional) # 4	44199
	·	Run: 8.43	0 s Feb 12 P9Fbno1	2021 Print x1NcL 1	: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20 BS5 FittyrTtl-7rbyvnLu?PpD2rZQCIM9ubHpPXWqx	0:46:04 2024 Page 2 PLBrD0QuSzv00X

NOTES- (11-14)

10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

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 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





Scale = 1:65.1



H	7-1-12	14-0-0	19-0-0	24-0-0	30-10-4		38-0-0			
Plate Offsets (X	(,Y) [5:0-5-0,0	0-1-12], [7:0-5-0,0-1-12]	5-0-0	5-0-0	0-10-4		7-1-12			
LOADING (psf) TCLL (roof) Snow (Pf) TCDL BCLL BCDL	20.0 20.0 10.0 0.0 * 10.0	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES Code IRC2021/TPI2014	<b>CSI.</b> TC 0.96 BC 0.84 WB 0.71 Matrix-AS	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/defi -0.27 17 >999 -0.49 17 >934 0.10 10 n/a	L/d 240 180 n/a	PLATES MT20 Weight: 255 lb	<b>GRIP</b> 244/190 FT = 20%		
LUMBER- TOP CHORD 2 BOT CHORD 2 WEBS 2 SLIDER L	2x4 SP No.2 *E 72: 2x4 SP No. 2x6 SP No.1 *E 33: 2x4 SP No. 2x4 SP No.3 _eft 2x6 SP No.	ixcept* 1 ixcept* 2 .2 -° 1-11-0, Right 2x6 SP No.2 -°	I-11-0	BRACING- TOP CHORD BOT CHORD	Structural wood sheat Rigid ceiling directly a MiTek recommends be installed during tr Installation guide.	thing directly ap applied. that Stabilizers russ erection, in	plied. and required cross accordance with	ss bracing Stabilizer		
REACTIONS. (     	REACTIONS. (Ib/size) 2=1666/0-3-8 (min. 0-2-5), 10=1666/0-3-8 (min. 0-2-5) Max Horz 2=-133(LC 12) Max Uplift2=-92(LC 14), 10=-92(LC 15) Max Grav 2=1963(LC 39), 10=1963(LC 39)									
FORCES. (lb) - Max. Comp./Max. Ten All forces 250 (lb) or less except when shown.         TOP CHORD       2-3=-916/0, 3-30=-2830/252, 30-31=-2785/261, 4-31=-2679/272, 4-5=-2694/315, 5-32=-2775/251, 6-32=-2775/251, 6-33=-2775/251, 7-33=-2775/251, 7-8=-2694/315, 8-34=-2679/272, 34-35=-2785/261, 9-35=-2830/252, 9-10=-916/0         BOT CHORD       2-21=-155/2367, 21-36=-107/2354, 20-36=-107/2354, 19-20=-107/2354, 19-37=-84/2945, 15-37=-84/2945, 15-38=-84/2945, 38-39=-84/2945, 14-39=-84/2945, 13-14=-66/2354, 13-40=-66/2354, 12-40=-66/2354, 10-12=-155/2367         WEBS       4-21=-406/174, 5-21=-183/378, 5-19=-15/1045, 18-19=-557/156, 6-18=-595/198, 6-16=-595/198, 14-16=-557/155, 7-14=-15/1045, 7-12=-183/378, 8-12=-406/174, 15-17=-251/0										
NOTES- (11- 1) Unbalanced (1) 2) Wind: ASCE (envelope) ga Exterior(2R) (1) exposed;C-C 3) TCLL: ASCE Cat B; Partial 4) Unbalanced (1) 5) This truss ha non-concurred 6) Provide aded 7) This truss ha between the 9) Provide mecl 10) This truss d sheetrock b	14) roof live loads l 7-16; Vult=120 able end zone a 20-2-9 to 34-0- for members a 7-16; Pr=20.0 Ily Exp.; Ce=1.1 snow loads hav is been designent with other lin quate drainage is been design bottom chord a hanical connec lesign requires e applied direc	have been considered for this desi Omph (3-second gust) Vasd=95mp and C-C Exterior(2E) -0-10-8 to 3- 14, Exterior(2E) 34-0-14 to 38-10- and forces & MWFRS for reactions psf (roof LL: Lum DOL=1.15 Plate o; Cs=1.00; Ct=1.10 ve been considered for this design ed for greater of min roof live load ve loads. to prevent water ponding. ed for a 10.0 psf bottom chord live ned for a live load of 30.0psf on th and any other members, with BCDI tion (by others) of truss to bearing that a minimum of 7/16" structural ity to the bottom chord.	gn. n; TCDL=5.0psf; BCDL 11-2, Exterior(2R) 3-11- 3 zone; cantilever left a shown; Lumber DOL= DOL=1.15); Pf=20.0 p of 12.0 psf or 2.00 time load nonconcurrent wit bottom chord in all an . = 10.0psf. plate capable of withst wood sheathing be app	=5.0psf; h=35ft; C -2 to 17-9-7, Interio nd right exposed ; 1.60 plate grip DC sf (Lum DOL=1.15 s flat roof load of 2 h any other live lo eas where a recta anding 100 lb uplit olied directly to the	at. II; Exp B; Enclosed; or(1) 17-9-7 to 20-2-9, end vertical left and rig L=1.60 Plate DOL=1.15); Is=1 20.0 psf on overhangs ads. ngle 3-6-0 tall by 1-0-0 v t at joint(s) 2, 10. e top chord and 1/2" gyp	MWFRS ht .0; Rough wide willPit	TH CARO OFESSION SEAL 28147 K. MORE 1/15/2024	HITTHINKIN MINIMUM		

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHALL DRIVE FUQUAY-VARINA	NC
24-0270-R01	R06	Hip	1	1	Job Reference (optional) # 44199	
		Run	: 8.430 s Feb 12	2021 Print:	t: 8,430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20:46:04 2024 Page	2

ID:P9Fbno1x1NcL\_1BS5\_FittyrTtl-7rbyvnLu?PpD2rZQCIM9ubHoxXW9xKXBrD0QuSzv00X

- 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



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L		9-0-0		19-0-0		29-0-0		38-0-0	
	(	9-0-0		10-0-0	1	10-0-0	1	9-0-0	
Plate Offsets	(X,Y) [2:0-2	-0,0-1-12], [4:0-3-0,0-2	-5], [8:0-3-0,0-	2-5], [10:0-2-0,0-1-12]					
LOADING (ps TCLL (roof) Snow (Pf) TCDL	sf) 20.0 20.0 10.0	SPACING- Plate Grip DOL Lumber DOL Rep Stress Incr	2-0-0 1.15 1.15 YES	<b>CSI.</b> TC 0.80 BC 0.76 WB 0.92	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/def -0.33 13-15 >999 -0.55 13-15 >827 0 14 12 n/a	l L/d 240 180 n/a	<b>PLATES</b> MT20	<b>GRIP</b> 244/190
BCLL BCDI	0.0 *	Code IRC2021/	TPI2014	Matrix-AS		0		Weight: 213 lb	FT = 20%
	10.0								
TOP CHORE BOT CHORE	) 2x4 SP No.2 ) 2x4 SP No.1 B2: 2x4 SP S	*Except* SS			BRACING- TOP CHORD BOT CHORD WEBS	Structural wood sł Rigid ceiling direc 1 Row at midpt	neathing directly tly applied. 5-17, 7-	y applied, except end	d verticals.
WEBS       2x4 SP No.3 *Except* W2: 2x4 SP No.1       MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.							ss bracing Stabilizer		
REACTIONS.	REACTIONS. (lb/size) 18=1570/0-3-8 (min. 0-2-1), 12=1570/0-3-8 (min. 0-2-1) Max Horz 18=-136(LC 12) Max Uplift18=-121(LC 14), 12=-121(LC 15) Max Grav 18=1732(LC 38), 12=1732(LC 38)								
FORCES. (II TOP CHORE	b) - Max. Comp 2-19=-444/ 6-7=-3321/ 2-18=-488/	o./Max. Ten All force 37, 3-19=-354/39, 3-4= 315, 7-8=-2331/284, 8 81, 10-12=-488/81	s 250 (lb) or les 2662/286, 4-{ -9=-2662/286,	ss except when shown. 5=-2331/284, 5-6=-332 9-20=-354/39, 10-20=-4	1/315, 444/37,				
BOT CHORD	) 17-18=-260	)/2084, 16-17=-335/32	63, 16-21=-335	5/3263, 21-22=-335/326	3, 15-22=-335/32	63,			
WEBS	15-23=-302 3-17=-183/ 8-13=-10/8	2/3263, 23-24=-302/32 328, 4-17=-10/883, 5-´ 83, 9-13=-183/329, 3-´	63, 14-24=-302 17=-1245/232, 18=-2238/270,	2/3263, 13-14=-302/326 5-15=0/290, 7-15=0/29 9-12=-2238/270	3, 12-13=-165/20 0, 7-13=-1245/232	84 2,			
NOTES- (1 1) Unbalance 2) Wind: ASC (envelope) Exterior(2f exposed;C 3) TCLL: ASC Cat B; Par 4) Unbalance 5) This truss non-concu 6) Provide ac 7) This truss 8) * This truss between tt 9) Provide mu 12=121. 10) This truss sheetrock	1-14) ad roof live load CE 7-16; Vult= 9 gable end zor R) 22-2-9 to 34 C for member CE 7-16; Pr=20 titally Exp.; Ce= ad snow loads has been desig rrent with othe lequate draina, has been desig s has been desig s has been desig s has been desig s bas bas bas been desig s bas bas bas been desig s bas bas bas bas bas bas bas bas bas ba	ds have been consider 120mph (3-second gus he and C-C Exterior(2E -0-14, Exterior(2E) 34- rs and forces & MWFR 0.0 psf (roof LL: Lum D -1.0; Cs=1.00; Ct=1.10 have been considered gned for greater of mir r live loads. ge to prevent water po gned for a live load o d and any other memb tection (by others) of tr es that a minimum of 7 rectly to the bottom cho	ed for this desi t) Vasd=95mpl 2) -0-10-8 to 3- 0-14 to 38-10-4 (S for reactions OL=1.15 Plate ) for this design roof live load nding. tom chord live f 30.0psf on that ers, with BCDL uss to bearing 7/16" structural prd.	gn. n; TCDL=5.0psf; BCDL 11-2, Exterior(2R) 3-11- 3 zone; cantilever left a shown; Lumber DOL= DOL=1.15); Pf=20.0 p of 12.0 psf or 2.00 time load nonconcurrent wit bottom chord in all an = 10.0psf. plate capable of withst wood sheathing be app	=5.0psf; h=35ft; C -2 to 15-8-0, Interia nd right exposed ; 1.60 plate grip DC sf (Lum DOL=1.15 s flat roof load of 2 h any other live load eas where a rectar anding 100 lb uplif plied directly to the	at. II; Exp B; Enclos or(1) 15-8-0 to 22-2- end vertical left and L=1.60 Plate DOL=1.15); I 20.0 psf on overhang ads. ngle 3-6-0 tall by 1-0 t at joint(s) except (j e top chord and 1/2"	ed; MWFRS 9, I right s=1.0; Rough gs 0-0 wide will fit t=lb) 18=121, gypsum	SEAL 28147	HILIAN MANAGEMENT
								1/15/2024	

Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHALL DRIVE FUQUAY	'-VARINA, NC
24-0270-R01	R07	Нір	1	1	Job Reference (optional) # 4419	9
			Run: 8.430 s Feb 12	2021 Print:	t: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20:46:05 2	024 Page 2

ID:P9Fbno1x1NcL\_1BS5\_FittyrTtl-b29K77MXmjy4f?8dmTtORoq\_5xtcgjZL4tmzQuzv00W 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 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.

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Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHALL DRIVE FUQUAY-VARINA, N
24-0270-R01	R08	Нір	1	1	Job Reference (optional) # 44199
			Run: 8,430 s Feb 12	2021 Print:	8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20:46:06 2024 Page 2

ID:P9Fbno1x1NcL\_1BS5\_FittyrTtl-3EjiKTM9X04xH9jpKAOdz0M8LLCbPAyUIXVXyKzv00V

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 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





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 90 PROVIDENCE CREEK   83 DAVINHALL DRIVE FUQUAY-VARINA, NO
24-0270-R01	R09	Hip Girder	1	2	Job Reference (optional) # 44199
	·	Run: 8.4 I	30 s Feb 12 D:P9Fbno	2021 Print: x1NcL_1	: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20:46:09 2024 Page 2 BS5_FittyrTtl-UpOryVP1qxSW8cSO?JyKbe_euYCscbhx?VkBZfzv00S

## NOTES- (15-18)

- 10) \* 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.
- 11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=443, 12=447.
- 12) Use Simpson Strong-Tie HHUS26-2 (14-10d Girder, 4-10d Truss) or equivalent spaced at 13-0-12 oc max. starting at 12-9-10 from the left end to 25-10-6 to connect truss(es) J05 (2 ply 2x6 SP) to back face of bottom chord.
- 13) Fill all nail holes where hanger is in contact with lumber.
- 14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
- 15) 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.
- 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
- 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, 4-10=-60, 10-13=-60, 22-26=-20

Concentrated Loads (lb)

Vert: 19=-43(B) 18=-43(B) 6=-147(B) 8=-147(B) 17=-43(B) 16=-43(B) 31=-147(B) 33=-147(B) 34=-147(B) 36=-147(B) 38=-726(B) 39=-43(B) 40=-43(B) 41=-726(B) 40=-43(B) 40=-





24-0270-R01 R10 Common	2	1	Job Reference (optional)	# 44199

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LOAD CASE(S) Standard



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Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINH	ALL DRIVE FUQUAY-VARINA, NC
24-0270-R01	R11	Common Supported Gable	1	1	Job Reference (optional)	# 44199
		Rur	n: 8.430 s Feb 12	2021 Print:	: 8.430 s Feb 12 2021 MiTek Industries, Inc. N	Ion Jan 15 20:46:09 2024 Page 2

ID:P9Fbno1x1NcL\_1BS5\_FittyrTtl-UpOryVP1qxSW8cSO?JyKbe\_rmYQYcl2x?VkBZfzv00S 14) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced. 15) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

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

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

LOAD CASE(S) Standard





Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHALL DRIVE	FUQUAY-VARINA, NC
24-0270-R01	R12	Common	2	1	Job Reference (optional) #	44199
Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20:46:10 2024 Page 2						

ID:P9Fbno1x1NcL\_1BS5\_FittyrTtl-y?yDArPfbFaNmm0aZ0TZ8sXo8yhVLBC4D9Tk56zv00R 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.

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Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHAL	L DRIVE FUQUAY-VARINA, N
24-0270-R01	R13	Common	3	1	Job Reference (optional)	# 44199
· · · · · · · · · · · · · · · · · · ·		·	0 5 1 10	0004 8 1		1 45 00 40 40 0004 D

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Mon Jan 15 20:46:10 2024 Page 2 ID:P9Fbno1x1NcL\_1BS5\_FittyrTtl-y?yDArPfbFaNmm0aZ0TZ8sXo3yhVLBI4D9Tk56zv00R

LOAD CASE(S) Standard



1/15/2024



Job	Truss	Truss Type	Qty	Ply	LOT 90 PROVIDENCE CREEK   83 DAVINHALL	DRIVE FUQUAY-VARINA, NC
24-0270-R01	R14	Common Supported Gable	1	1	Job Reference (optional)	# 44199
		F	Run: 8.430 s Feb 12	2021 Print:	8.430 s Feb 12 2021 MiTek Industries, Inc. Mon J	lan 15 20:46:11 2024 Page 2

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 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









LOADING (psf)           TCLL (roof)         20.0           Snow (Pf)         20.0           TCDL         10.0           BCLL         0.0 *	SPACING- 2-0-0 Plate Grip DOL 1.15 Lumber DOL 1.15 Rep Stress Incr YES	CSI. TC 0.13 BC 0.10 WB 0.00 Matrix D	DEFL. Vert(LL) Vert(CT) Horz(CT)	in (loc) l/d n/a - r n/a - r 0.00 3 r	defl L/d n/a 999 n/a 999 n/a n/a	PLATES MT20	<b>GRIP</b> 244/190
BCDL 10.0	Code IRC2021/1912014	Maurix-P				weight. To b	FI-20%
LUMBER- TOP CHORD 2x4 SP No.2 BOT CHORD 2x4 SP No.3 WEBS 2x4 SP No.3	2		BRACING- TOP CHORD BOT CHORD	Structural wood end verticals. Rigid ceiling dire	l sheathing directl ectly applied or 1	y applied or 3-0-0 o 0-0-0 oc bracing.	c purlins, except
				MiTek recomm be installed du Installation gui	nends that Stabili uring truss erectio ide.	zers and required cr n, in accordance wit	ross bracing th Stabilizer

REACTIONS. (lb/size) 1=92/3-0-0 (min. 0-1-8), 3=92/3-0-0 (min. 0-1-8) Max Horz 1=44(LC 11) Max Uplift1=-10(LC 14), 3=-23(LC 14) Max Grav 1=120(LC 20), 3=120(LC 20)

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

NOTES-(8-11)

- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=35ft; 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=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
- 3) Unbalanced snow loads have been considered for this design.
- 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) 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.
- 9) 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.
- 10) Web bracing shown is for lateral support of individual web members only. Refer to BCSI Guide to Good Practice for Handling,
- View pracing 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. 11) SEE BČŠI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR ŘECOMMENDED CONSIDERATIONS.

LOAD CASE(S) Standard

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