## Mark Morris, P.E.

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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 #: 55089 JOB: 24-B431-R01 JOB NAME: LOT 0.0007 CAMPBELL RIDGE Wind Code: ASCE7-16 Wind Speed: Vult= 120mph Exposure Category: B Mean Roof Height (feet): 23 These truss designs comply with IRC 2018 as well as IRC 2021. 22 Truss Design(s)

Trusses:

GR01, GR02, J01, J02, R01, R02, R02A, R03, R04, R05, R06, R07, R08, R09, R12, R13, SP01, SP02, VT01, VT02, VT03, VT04



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



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 Me 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 0.0007 CAMPBELL RIDGE   196 ALDEN W	AY ANGIER, NC
24-B431-R01	GR01	Common Supported Gable	1	1	Job Reference (optional)	# 55089
		Run ID:	8.430 s Feb 1 NI8rkg6BK5	2 2021 Prin SaRYCYG	it: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu E if9_0xywFJ5-q7rjyI49QCSg6gg3FwUMmwz	Dec 12 16:23:30 2024 Page 2 yZL7LmemskqcnGoy9gAh

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 Trustees 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





D'Onofrio Drive, Madison, WI 53719.

Plate Connected Wood Trusse Construction and BCSI 1-03 Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses from Trusse Plate Institute, 583



- 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 15.4 psf on overhangs
- non-concurrent with other live loads.

LOAD CASE(S) Standard

- 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) Refer to girder(s) for truss to truss connections.
- 8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
- 9) 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.





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

## **NOTES-** (9)

- 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; porch left 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); Pg=20.0 psf; Pf=15.4 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) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs
- non-concurrent with other live loads.
- 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) 2, 6.
- 8) 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.

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LOAD CASE(S) Standard
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Job	Truss	Truss Type		Qty	Ply LOT 0	.0007 CAMPBELL RIDGE   1	96 ALDEN WAY ANGIER, NC
24 8421 801	B02	Poof Special		6			# 55090
24-0431-R01	RUZ	Rooi Special		0	Job R	Reference (optional)	# 55089
				Run: 8.430 s Feb 12 ID:Wl8rkg6BK5	2 2021 Print: 8.630 5SaRYCYGf9 0>	i s Jul 12 2024 MiTek Industri kywFJ5-bfKkd1AAYfSX3v	es, Inc.  Thu Dec 12 16:23:38 2024  Page HbjbdE5cl9Wae0e6A2a3YCYKy9g/
-0-10 0-10	0 <u>78 2-3-8 7-10-0</u>	13	3-4-8	<u>19-7-3</u>	<u>25-6-14</u> 5-11-10	<u>31-10-0</u> 6-3-2	
0-10	-0 2-3-0 -0-0	5	-0-0	0-2-11	5-11-10	0-3-2	
				6x8 🖘	-		Scale = 1:67
				6			
T			6.00 12				
					$\searrow$		
			3x4    ₂4			9.00   12	
			<sup>5</sup> <sub>12</sub>			25	
	<b>^</b>	10 1	Ø			<sup>20</sup> 4x6 ⊗	
10	6X	10 ⋍				33'	
0-5-		4		/W/3	/	21	
-	/		вз //	vv5	W6		
	23		$\sim \parallel //$		\$		4x4 ≫
	I	vvi	W2   //			w7	8
	2 3	B2g					
8-01	B1 B1	15	14	W4 B4		B4 W8	
- a L		2v4	5x12 =	10	11 28	40	
	10	ZAT	13	12	3x8 =	10	3x4
4	$4x6 = \frac{2x4}{6x8} =$		3x4	4x8	-	4x4 —	
	0.10						
	1-8-52-3-8 7-10-0	1:	3-4-8	19-7-3	25-6-14	31-10-0	
Plate Offsets (X V) [2:0	1-8-50-7-3 5-6-8	1 IG:0 G 0 0 3 (	-6-8	6-2-11	5-11-10	6-3-2	1
		], [0.0-0-0,0-0-0	<u>], [0.0-1-0,0-1-12]</u>				
TCLL (roof) 20.0	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	I/defl L/d	PLATES GRIP
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 1.00	Vert(CT)	-0.26 15-22	>708 180	M120 244/190
BCLL 0.0 *	Rep Stress Incr	YES	WB 0.78	Horz(CT)	) 0.30 9	n/a n/a	
BCDL 10.0		TPI2014	Matrix-AS				vveignt: 208 lb F I = 20%
LUMBER-	0 *F (*			BRACING-	o		
TOP CHORD 2x4 SP No T1: 2x6 SF	D.2 *Except* PIDSS			TOP CHORD	Structural woo Rigid ceiling d	od sheathing directly ap lirectly applied	plied, except end verticals.
BOT CHORD 2x4 SP No	p.2 *Except*			WEBS	1 Row at midp	ot 7-12	
WEBS 2x4 SP No	P No.1 3 *Excent*				MiTek recom	mends that Stabilizers	and required cross bracing
F1: 2x4 SF	P No.2				Installed of Insta	during truss erection, in wide	accordance with Stabilizer
WEDGE					_ notaliation g		
Leit. 234 SF N0.5							
REACTIONS. (lb/size)	2=1168/0-3-8 (min. 0-1-9),	9=1122/Mech	anical				
Max Horz Max Uplift	2=210(LC 11) 2=-120(LC 14), 9=-65(LC 1	5)					
Max Grav	2=1321(LC 2), 9=1268(LC	2)					
FORCES. (lb) - Max Co	mp /Max Ten - All forces 2	250 (lb) or less	except when shown				
TOP CHORD 2-3=-589	9/114, 3-23=-2684/249, 4-23	3=-2633/270, 4	-5=-1907/253, 5-24=	-1893/321,			
6-24=-18	310/345, 6-25=-1193/257, 2	5-26=-1229/23	4, 7-26=-1306/225, 7	-27=-1341/199,			
BOT CHORD 3-15=-31	18/2443, 14-15=-316/2454,	5-14=-349/171	, 11-12=-85/1149, 11	-28=-85/1149,			
10-28=-8	35/1149 228 4 14- 045/182 12 14-	17/050 6 14-	244/1202 6 12- 69	1000 7 10- 074/16	•••		
8-10=-4	7/989	-17/052, 0-14-	-244/1203, 0-1200/	/203, 7-12374/10	з,		
NOTE: (10)							
1) Unbalanced roof live lo	oads have been considered	for this design					
2) Wind: ASCE 7-16; Vul	t=120mph (3-second gust)	Vasd=95mph;	TCDL=5.0psf; BCDL	=5.0psf; h=23ft; Ca	t. II; Exp B; En	closed; MWFRS	
(envelope) gable end z 24-4-13 to 26-10-10 E	zone and C-C Exterior(2E) -	0-8-5 to 4-1-5,	Interior(1) 4-1-5 to 14	4-9-10, Exterior(2R	) 14-9-10 to 24	-4-13, Interior(1)	TH CAP ON
DOL=1.60 plate grip D	OL=1.60	0-4 2011C,0-0 1				, Edinber	ALL STATUS
3) TCLL: ASCE 7-16; Pr=	20.0 psf (roof LL: Lum DOI	_=1.15 Plate D	OL=1.15); Pg=20.0 p	sf; Pf=15.4 psf (Lu	m DOL=1.15 P	late DOL=1.15)	ROFLOWAR
4) Unbalanced snow load	is have been considered fo	r this design.				III	SFAL
5) This truss has been de	esigned for greater of min ro	oof live load of	12.0 psf or 2.00 times	s flat roof load of 15	5.4 psf on overl	hangs	28147
6) This truss has been de	her live loads. esigned for a 10 0 psf bottor	m chord live loa	ad nonconcurrent with	h anv other live loa	ds		
7) * This truss has been o	designed for a live load of 3	0.0psf on the b	ottom chord in all are	eas where a rectan	gle 3-6-0 tall by	/ 1-0-0 wide will fit	ANDINEER
between the bottom ch	ord and any other member	s, with BCDL =	10.0psf.			in A	AL CARE INT
9) Provide mechanical co	onnection (by others) of trus	s to bearing pla	ate capable of withsta	anding 100 lb uplift	at joint(s) 9 ex	cept (jt=lb) 2=120.	Man R. MOUNNIN
10) This truss design req	uires that a minimum of 7/1	6" structural w	ood sheathing be app	blied directly to the	top chord and	1/2" gypsum	12/12/2024
Warning ! Vorify design	unectivito the bottom chord	I. efore use This 4	eción is bacad only man	narameters shown an	nd is for an individ	ual building component to	1 L/ 1 L/ LUL4
Continued on page 2 Vertically. Applicability of	design parameters and proper in	corporation of co	omponent is responsibilit	y of building designer	– not truss design	her or truss engineer. Braci	ng shown is for lateral support
of individual web members	only. Additional temporary bra	cing to ensure sta	bility during construction	n is the responsibility of	of the erector. Ad	ditional permanent bracing	of the overall structure is the
responsibility of the buildin	g designer. For general guidanc	e regarding fabric	cation, quality control, st	orage, delivery, erectio	on and bracing, co	onsult ANSI/TPI 1 Nationa	l Design Standard for Metal
Plate Connected Wood Tru	ss Construction and BCSI 1-03	Guide to Good I	ractice for Handling, In	stalling & Bracing of	Metal Plate Con	nected Wood Trusses from	Truss Plate Institute, 583

D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0007 CAMPBELL RIDGE   196 ALDEN WA	AY ANGIER, NC
24-B431-R01	R02	Roof Special	6	1	Job Reference (optional)	# 55089
		Run: 8. ID:V	430 s Feb 1 /l8rkq6BK5	2 2021 Prin	t: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu D Gf9  0xywFJ5-3su6gNBoIzaOh2soGJ8TdpgI	ec 12 16:23:39 2024 Page 2 KGz_FNZQBpjHl4ny9gAY

**NOTES-** (12) 11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard







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.





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 0.0007 CAMPBELL RIDGE   196 ALDEN WAY	ANGIER, NC
24-B431-R01	R07	COMMON GIRDER	1	2	Job Reference (optional)	# 55089
		Run: 8.4 ID	30 s Feb 1 :WI8rkg6B	2 2021 Prin K5SaRYC	t: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Dec CYGf9_0xywFJ5-Ez3G88KijLzqVICvQ6r2a8oE	c 12 16:23:50 2024 Page 2 kPrpSXLpLxSrzey9gAN

LOAD CASE(S) Standard

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

Uniform Loads (plf) Vert: 1-3=-51, 3-5=-51, 9-12=-20

Concentrated Loads (lb)

Vert: 15=-1101(B) 16=-1102(B) 17=-1102(B) 18=-1102(B) 19=-1102(B) 20=-1102(B) 21=-1102(B) 22=-1203(B) 23=-1203(B)







or 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 0.0007 CAMPBELL RIDGE   196 ALD	EN WAY ANGIER, NC
24-B431-R01	R12	Monopitch Structural Gable	1	1	Job Reference (optional)	# 55089
		F	Run: 8.430 s Feb 1:	2 2021 Prin	t: 8.630 s Jul 12 2024 MiTek Industries, Inc.	Thu Dec 12 16:23:54 2024 Page 2

ID:Wi8rkg6BK5SaRYCYG9\_0xywFJ5-7kin\_VNCmatG\_MVgfyv\_k\_yt00Fb0USOGZQ26Py9gJ 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.

 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











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) 1, 5 except (jt=lb) 8=129, 6=129.

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

**NOTES-** (8)

- 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=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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.

LOAD CASE(S) Standard



<sup>1)</sup> Unbalanced roof live loads have been considered for this design.



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

## NOTES- (8)

3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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.

LOAD CASE(S) Standard



<sup>1)</sup> Unbalanced roof live loads have been considered for this design.

<sup>2)</sup> 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



Max Grav 1=85(LC 2), 3=85(LC 2)

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

NOTES-

 Unbalanced roof live loads have been considered for this design.
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=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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.

LOAD CASE(S) Standard

