

# Mark Morris, P.E.

#126, 1317-M, Summerville, SC 29483

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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 #: 55571

JOB: 24-B592-F03

JOB NAME: LOT 0.0017 CAMPBELL RIDGE

Wind Code: N/A

Wind Speed: Vult= N/A

Exposure Category: N/A

Mean Roof Height (feet): N/A

These truss designs comply with IRC 2018 as well as IRC 2021.

*7 Truss Design(s)*

Trusses:

F301, F302, F303, F304, F305, F306, F307



**12/21/2024**

**Mark Morris**

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

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE   231 ALDEN WAY ANGIER, NC
24-B592-F03	F301	Floor Supported Gable	1	1	# 55571

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 21 20:34:46 2024 Page 1  
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0-1-8

0-1-8

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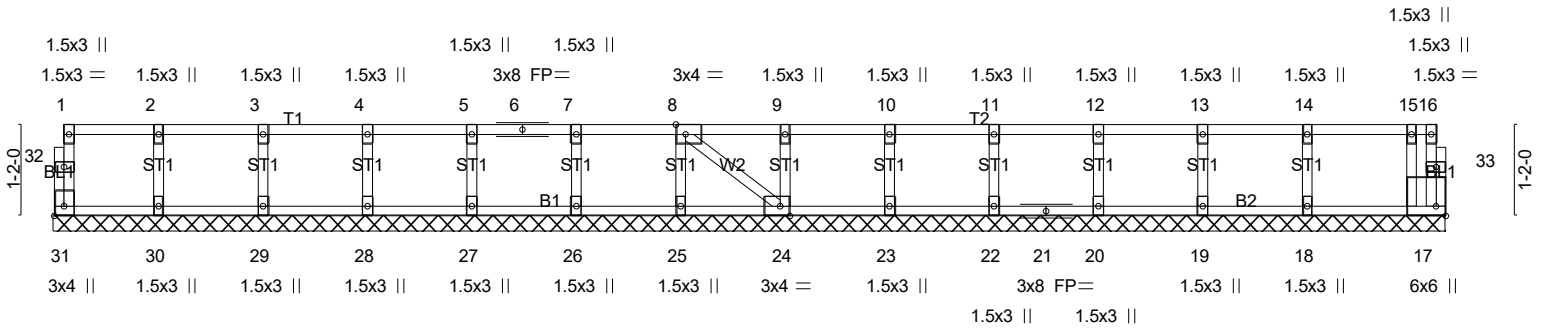


Plate Offsets (X,Y)--	[8:0-1-8,Edge], [17:Edge,0-1-8], [24:0-1-8,Edge], [31:Edge,0-1-8]
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LOADING (psf)	SPACING-	CSL	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.05	Vert(LL) n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00	17	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH						
							Weight: 77 lb	FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS.** All bearings 17-9-4.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 31, 17, 30, 29, 28, 27, 26, 25, 24, 23, 22, 20, 19, 18

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

- NOTES-** (5-8)
- Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 1-4-0 oc.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 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 CONSIDERATIONS.

**LOAD CASE(S)** Standard

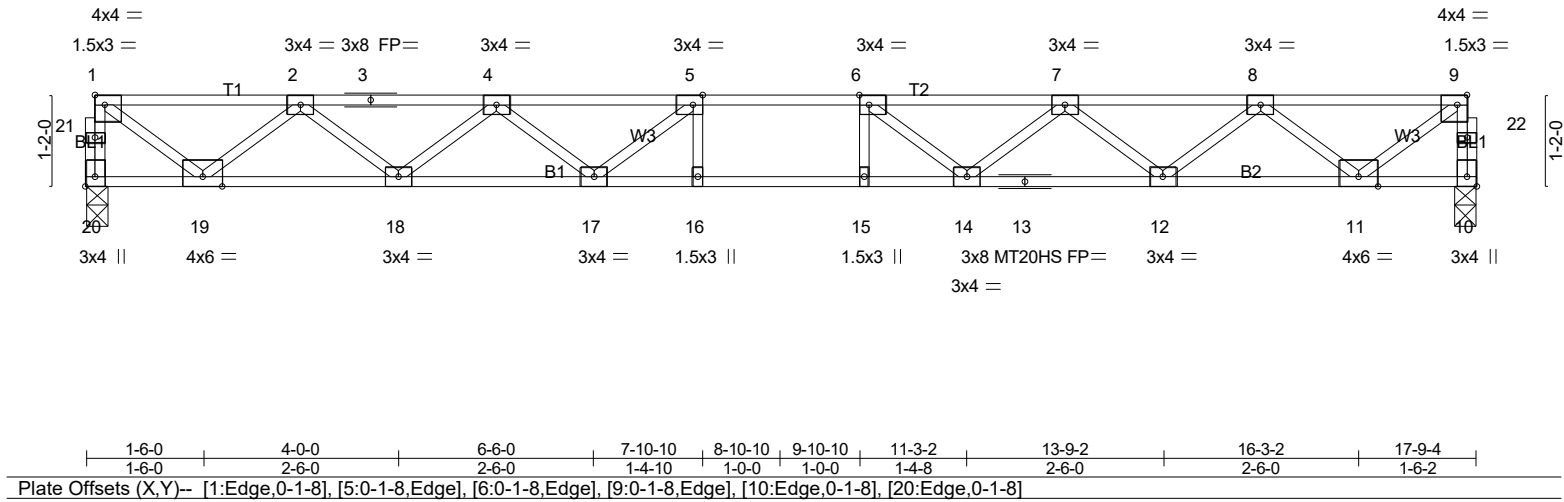
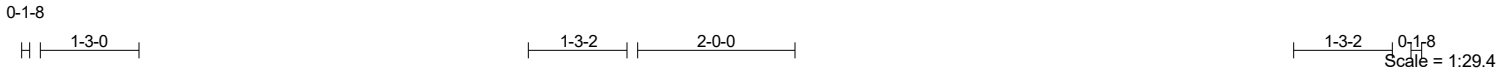


12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE   231 ALDEN WAY ANGIER, NC
24-B592-F03	F302	Floor	7	1	# 55571

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Sat Dec 21 20:34:46 2024 Page 1  
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1-6-0	4-0-0	6-6-0	7-10-10	8-10-10	9-10-10	11-3-2	13-9-2	16-3-2	17-9-4
1-6-0	2-6-0	2-6-0	1-4-10	1-0-0	1-0-0	1-4-8	2-6-0	2-6-0	1-6-2
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [9:0-1-8,Edge], [10:Edge,0-1-8], [20:Edge,0-1-8]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	1-7-3	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.39	Vert(LL)	-0.22 15-16	>948	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.78	Vert(CT)	-0.31 15-16	>687	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.05 10	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 88 lb	FT = 20%F, 11%E

**LUMBER-**  
 TOP CHORD 2x4 SP No.1(flat)  
 BOT CHORD 2x4 SP No.1(flat)  
 WEBS 2x4 SP No.3(flat)

**BRACING-**  
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 20=765/0-3-6 (min. 0-1-8), 10=765/0-3-6 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 20-21=-761/0, 1-21=-760/0, 10-22=-761/0, 9-22=-760/0, 1-2=-898/0, 2-3=-2211/0, 3-4=-2211/0, 4-5=-2961/0, 5-6=-3213/0, 6-7=-2964/0, 7-8=-2215/0, 8-9=-904/0  
 BOT CHORD 18-19=0/1690, 17-18=0/2706, 16-17=0/3213, 15-16=0/3213, 14-15=0/3213, 13-14=0/2709, 12-13=0/2709, 11-12=0/1696  
 WEBS 1-19=0/1088, 2-19=-1032/0, 2-18=0/677, 4-18=-645/0, 4-17=0/411, 5-17=-520/0, 6-14=-519/1, 7-14=0/411, 7-12=-643/0, 8-12=0/675, 8-11=-1031/0, 9-11=0/1093

**NOTES-** (4-7)  
 1) Unbalanced floor live loads have been considered for this design.  
 2) All plates are MT20 plates unless otherwise indicated.  
 3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.  
 4) 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.  
 5) 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.  
 6) 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.  
 7) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAINING/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

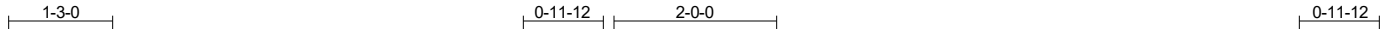


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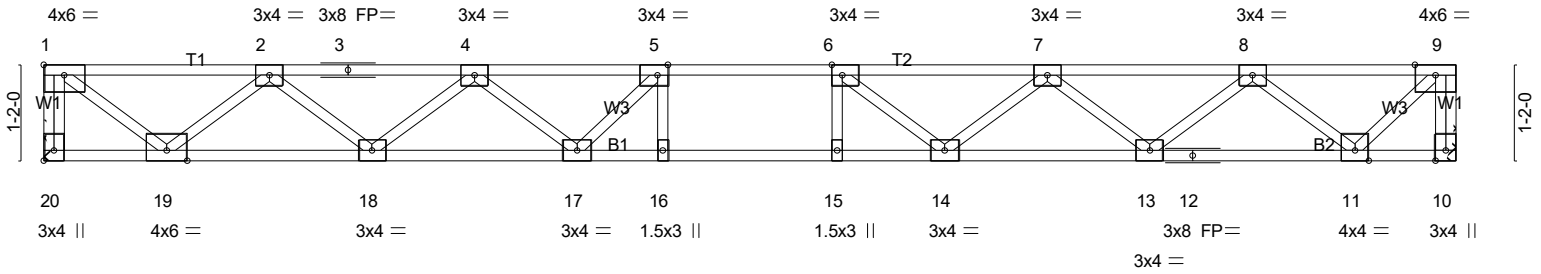
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Job 24-B592-F03	Truss F303	Truss Type Floor	Qty 4	Ply 1	LOT 0.0017 CAMPBELL RIDGE   231 ALDEN WAY ANGIER, NC Job Reference (optional) <b># 55571</b>
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Scale = 1:28.1



1-6-0	4-0-0	6-6-0	7-7-4	8-7-4	9-7-4	10-11-12	13-5-12	15-11-12	17-2-8
1-6-0	2-6-0	2-6-0	1-1-4	1-0-0	1-0-0	1-4-8	2-6-0	2-6-0	1-2-12
Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [20:Edge,0-1-8]									

<b>LOADING</b> (psf)	<b>SPACING-</b>	1-7-3	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.36	Vert(LL)	-0.20 15-16	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.74	Vert(CT)	-0.27 15-16	>754	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.52	Horz(CT)	0.05 10	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 86 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 20=746/Mechanical, 10=746/Mechanical

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

TOP CHORD 1-20=-740/0, 9-10=-742/0, 1-2=-865/0, 2-3=-2118/0, 3-4=-2118/0, 4-5=-2818/0, 5-6=-3007/0, 6-7=-2761/0, 7-8=-2009/0, 8-9=-706/0

BOT CHORD 18-19=0/1632, 17-18=0/2578, 16-17=0/3007, 15-16=0/3007, 14-15=0/3007, 13-14=0/2507, 12-13=0/1487, 11-12=0/1487

WEBS 1-19=0/1085, 2-19=-999/0, 2-18=0/633, 4-18=-599/0, 4-17=0/403, 5-17=-471/31, 6-14=-500/0, 7-14=0/403, 7-13=-648/0, 8-13=0/680, 8-11=-1016/0, 9-11=0/971

- NOTES-** (4-7)
- Unbalanced floor live loads have been considered for this design.
  - Refer to girder(s) for truss to truss connections.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 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 RESTRAINING/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



12/21/2024

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0017 CAMPBELL RIDGE   231 ALDEN WAY ANGIER, NC
24-B592-F03	F306	Floor Supported Gable	1	1	Job Reference (optional) # 55571

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0-1-8

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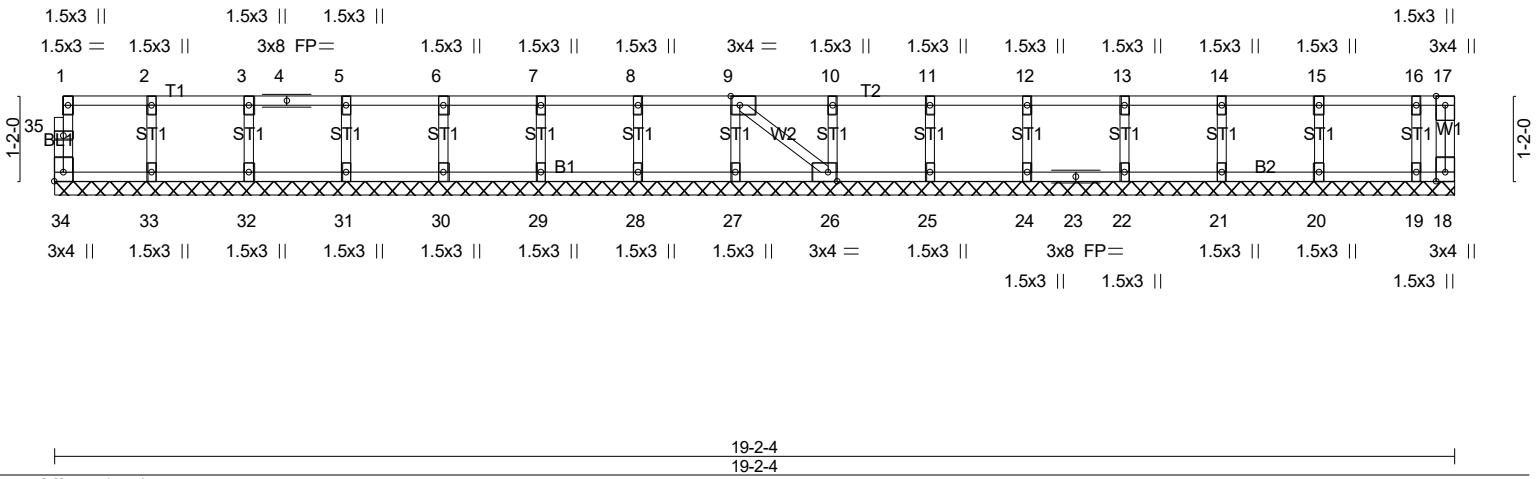


Plate Offsets (X,Y)-- [9:0-1-8,Edge], [26:0-1-8,Edge], [34:Edge,0-1-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 1-7-3	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.05	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.03	Horz(CT) 0.00 18 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH			
				Weight: 83 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	
OTHERS 2x4 SP No.3(flat)	

**REACTIONS.** All bearings 19-2-4.  
 (lb) - Max Uplift All uplift 100 lb or less at joint(s) 18  
 Max Grav All reactions 250 lb or less at joint(s) 34, 18, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 22, 21, 20, 19

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

- NOTES-** (7-10)
- Gable requires continuous bottom chord bearing.
  - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
  - Gable studs spaced at 1-4-0 oc.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 18.
  - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - CAUTION, Do not erect truss backwards.
  - 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 CONSIDERATIONS.

**LOAD CASE(S)** Standard

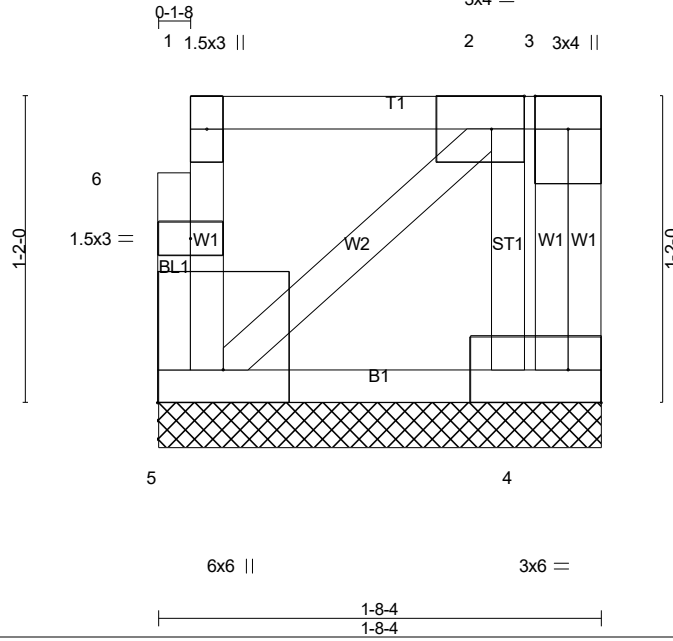


12/21/2024

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Job 24-B592-F03	Truss F307	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 0.0017 CAMPBELL RIDGE   231 ALDEN WAY ANGIER, NC Job Reference (optional) <b># 55571</b>
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Scale = 1:8.8

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [5:Edge,0-3-0]

<b>LOADING</b> (psf)	<b>SPACING-</b> 1-7-3	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.04	Vert(LL) n/a - n/a 999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.01	Vert(CT) n/a - n/a 999		
BCLL 0.0	Rep Stress Incr YES	WB 0.02	Horz(CT) 0.00 4 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-P			
				Weight: 13 lb	FT = 20%F, 11%E

**LUMBER-**  
TOP CHORD 2x4 SP No.1(flat)  
BOT CHORD 2x4 SP No.1(flat)  
WEBS 2x4 SP No.3(flat)  
OTHERS 2x4 SP No.3(flat)

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 1-8-4 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

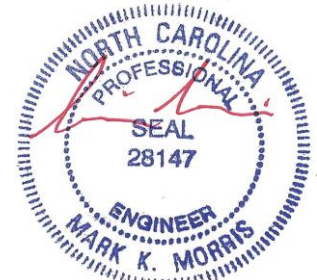
**REACTIONS.** (lb/size) 4=66/1-8-4 (min. 0-1-8), 5=54/1-8-4 (min. 0-1-8)

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

**NOTES-** (6-9)

- Gable requires continuous bottom chord bearing.
- Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
- Gable studs spaced at 1-4-0 oc.
- Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
- CAUTION, Do not erect truss backwards.
- Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
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**LOAD CASE(S)** Standard



12/21/2024

**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.