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 #: 54274
JOB: 24-9563-F02
JOB NAME: LOT 0.0014 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.
9 Truss Design(s)

Trusses:
F01, F02, F02A, F03, F04, F05, F06, F08, F09

11/12/2024
Mark Morris

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

Job	Truss	Truss Type	Qty	Ply	LOT 0.0014 CAMPBELL RIDGE | 291 ALDEN WAY ANGIER, NC
24-9563-F02	F01	Floor Supported Gable	1	1	# 54274
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Nov 13 10:43:49 2024 Page 1
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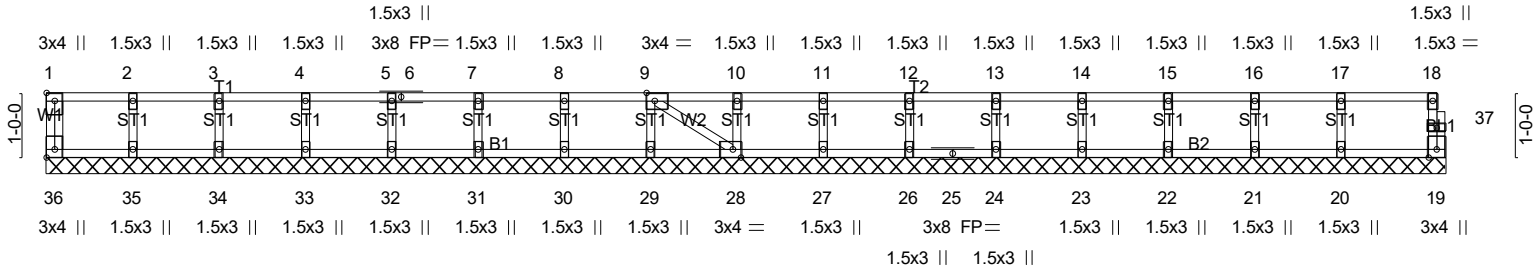

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [9:0-1-8,Edge], [28:0-1-8,Edge], [36:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.08	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	0.04	Horz(CT)	0.00	19	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 87 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 21-7-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 36, 19, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 24, 23, 22, 21, 20

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

NOTES- (6)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) 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.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

11/12/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0014 CAMPBELL RIDGE | 291 ALDEN WAY ANGIER, NC
24-9563-F02	F02	FLOOR	3	1	Job Reference (optional) **# 54274**

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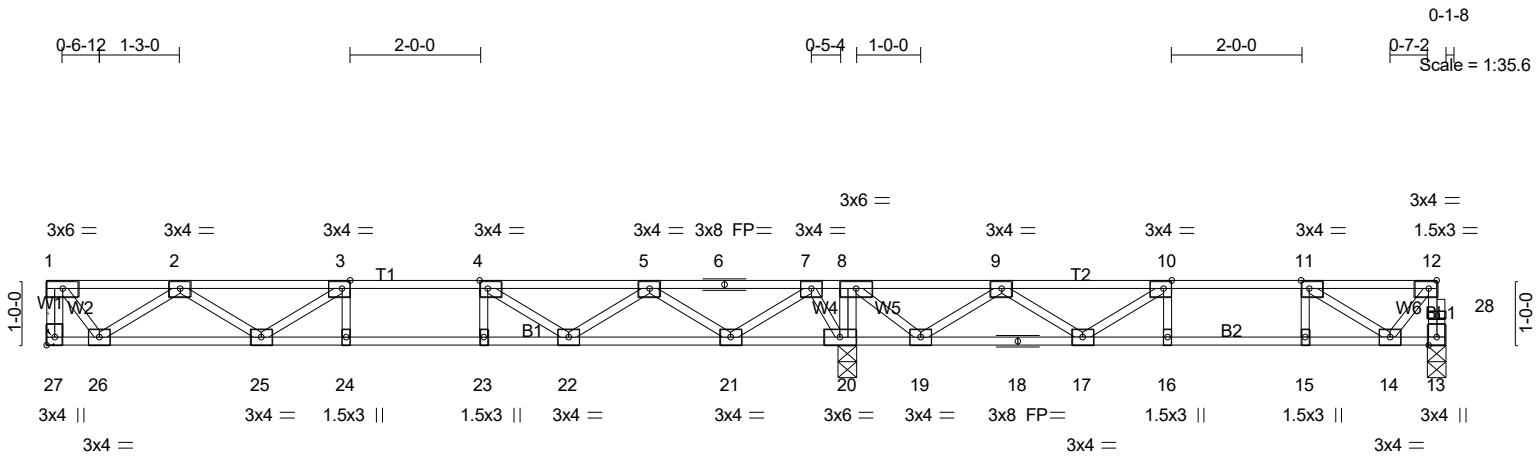
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T2
W1
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W4
W5
W6
B1
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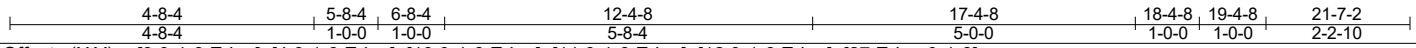


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [27:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.07	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.09	24-25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.01	20	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 105 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)

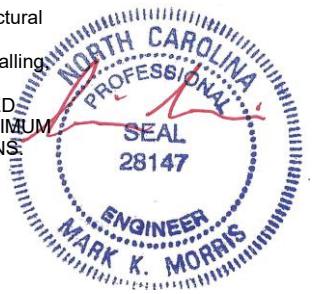
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 27=446/Mechanical, 13=269/0-3-6 (min. 0-1-8), 20=1157/0-3-8 (min. 0-1-8)
Max Grav 27=477(LC 3), 13=318(LC 4), 20=1157(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-27=-477/0, 13-28=-303/0, 12-28=-302/0, 1-2=-331/0, 2-3=-1192/0, 3-4=-1454/0, 4-5=-1131/48, 5-6=-194/421, 6-7=-194/421, 7-8=0/1301, 8-9=0/769, 9-10=-485/244, 10-11=-641/44
BOT CHORD 25-26=0/910, 24-25=0/1454, 23-24=0/1454, 22-23=0/1454, 21-22=-212/811, 20-21=-931/0, 19-20=-1301/0, 18-19=-416/266, 17-18=-416/266, 16-17=-44/641, 15-16=-44/641, 14-15=-44/641
WEBS 8-20=-540/0, 3-25=-315/50, 2-25=0/345, 2-26=-706/0, 1-26=0/536, 4-22=-541/0, 5-22=0/461, 5-21=-809/0, 7-21=0/838, 7-20=-724/0, 10-17=-379/0, 9-17=0/371, 9-19=-729/0, 8-19=0/694, 11-14=-519/67, 12-14=0/313

NOTES- (5-8)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
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) CAUTION, Do not erect truss backwards.
5) 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.
6) 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.
7) 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.
8) 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



11/12/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0014 CAMPBELL RIDGE | 291 ALDEN WAY ANGIER, NC
24-9563-F02	F02A	FLOOR	1	1	Job Reference (optional) **# 54274**

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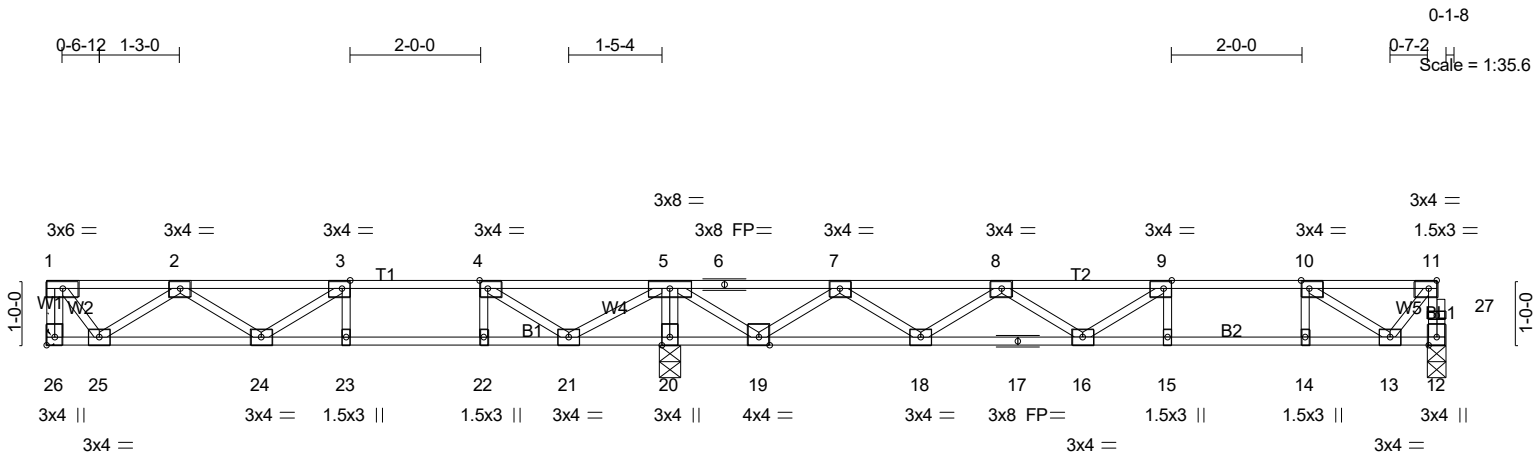

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [26:Edge,0-1-8]

LOADING (psf)		SPACING-	1-7-3	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.15	15-16	>972	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.73	Vert(CT)	-0.20	15-16	>728	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 104 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 6-0-0 oc bracing.

REACTIONS. (lb/size) 26=311/Mechanical, 12=430/0-3-6 (min. 0-1-8), 20=1131/0-3-8 (min. 0-1-8)
Max Grav 26=382(LC 3), 12=443(LC 7), 20=1131(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-377/0, 12-27=-395/0, 11-27=-394/0, 1-2=-257/0, 2-3=-845/97, 3-4=-861/347, 4-5=-260/738, 5-6=0/458, 6-7=0/458, 7-8=-876/0, 8-9=-1254/0, 9-10=-1084/0, 10-11=-306/0
BOT CHORD 24-25=0/718, 23-24=-347/861, 22-23=-347/861, 21-22=-347/861, 20-21=-1224/0, 19-20=-1232/0, 18-19=0/497, 17-18=0/1241, 16-17=0/1241, 15-16=0/1084, 14-15=0/1084, 13-14=0/1084
WEBS 4-22=0/262, 5-20=-1073/0, 3-24=-18/300, 2-25=-563/0, 1-25=0/415, 4-21=-948/0, 5-21=0/810, 8-18=-491/0, 7-18=0/511, 7-19=-846/0, 5-19=0/916, 10-13=-935/0, 11-13=0/463

NOTES- (5-8)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
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) CAUTION, Do not erect truss backwards.
5) 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.
6) 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.
7) 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.
8) 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

11/12/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0014 CAMPBELL RIDGE | 291 ALDEN WAY ANGIER, NC
24-9563-F02	F03	FLOOR GIRDER	1	1	Job Reference (optional) **# 54274**

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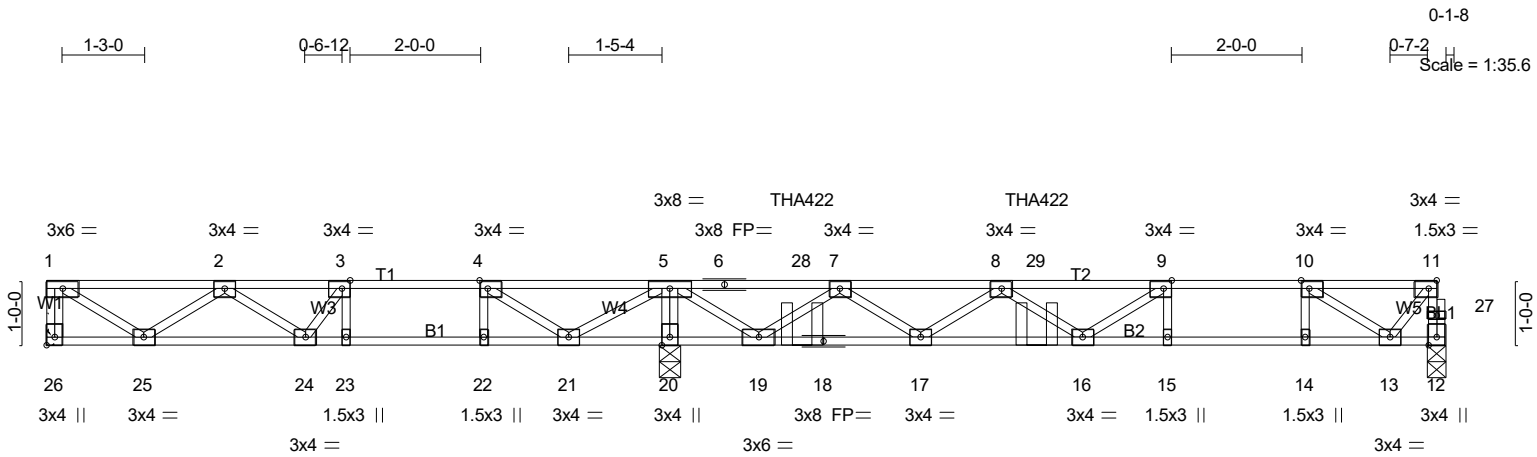

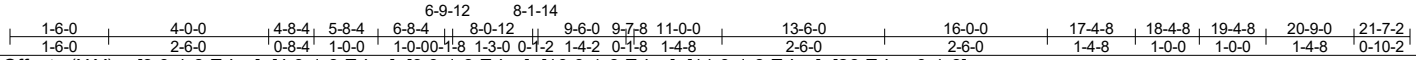

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [26:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.65	Vert(LL)	-0.16	15-16	>881	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.22	15-16	>648	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.50	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 104 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 6-0-0 oc bracing.

REACTIONS. (lb/size) 26=286/Mechanical, 12=452/0-3-6 (min. 0-1-8), 20=1232/0-3-8 (min. 0-1-8)
Max Uplift26=-8(LC 4)
Max Grav 26=349(LC 3), 12=464(LC 7), 20=1232(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-343/13, 12-27=-409/0, 11-27=-408/0, 1-2=-409/40, 2-3=-757/264, 3-4=-632/490, 4-5=0/924, 5-6=0/567, 6-28=0/567, 7-28=0/567, 7-8=-912/0, 8-29=-1371/0, 9-29=-1371/0, 9-10=-1162/0, 10-11=-322/0
BOT CHORD 24-25=-90/766, 23-24=-490/632, 22-23=-490/632, 21-22=-490/632, 20-21=-1437/0, 19-20=-1445/0, 18-19=0/441, 17-18=0/441, 16-17=0/1372, 15-16=0/1162, 14-15=0/1162, 13-14=0/1162
WEBS 3-23=-396/0, 4-22=0/278, 10-14=0/266, 5-20=-1172/0, 1-25=-47/485, 2-25=-436/62, 3-24=0/478, 4-21=-998/0, 5-21=0/857, 5-19=0/1040, 7-19=-963/0, 7-17=0/617, 8-17=-601/0, 9-16=0/251, 10-13=-1010/0, 11-13=0/487

NOTES- (10-13)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 26.
4) 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.
5) CAUTION, Do not erect truss backwards.
6) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 11-8-0 from the left end to connect truss(es) F05 (1 ply 2x4 SP) to front face of top chord.
7) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 15-3-8 from the left end to connect truss(es) F06 (1 ply 2x4 SP) to front face of top chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
8) Fill all nail holes where hanger is in contact with lumber.
9) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
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.

11/12/2024

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LOT 0.0014 CAMPBELL RIDGE | 291 ALDEN WAY ANGIER, NC
24-9563-F02	F03	FLOOR GIRDER	1	1	Job Reference (optional) # 54274

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 12-26=-8, 1-11=-80
Concentrated Loads (lb)
Vert: 28=-19(F) 29=-80(F)

11/12/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0014 CAMPBELL RIDGE | 291 ALDEN WAY ANGIER, NC
24-9563-F02	F04	FLOOR	4	1	Job Reference (optional) **# 54274**

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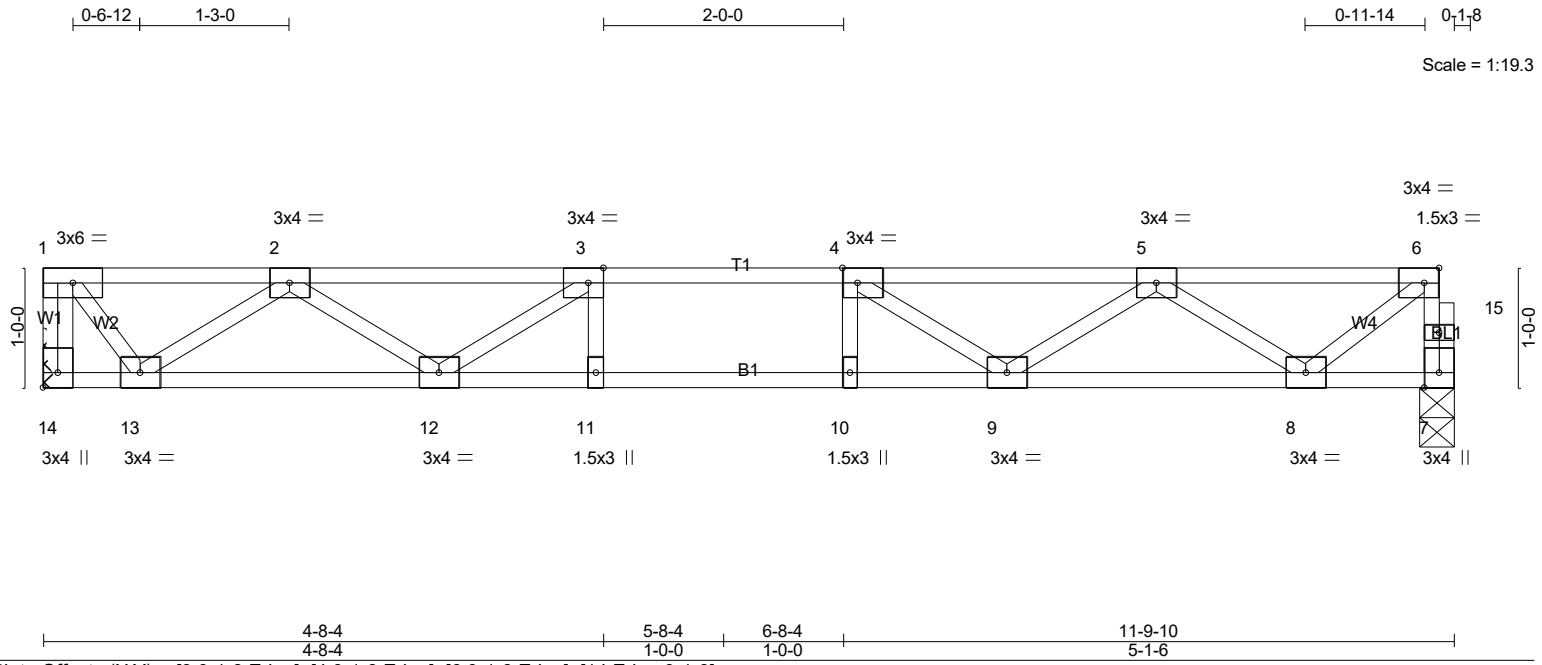


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-7-3	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.25	Vert(LL)	-0.08	9-10	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.11	9-10	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 58 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)

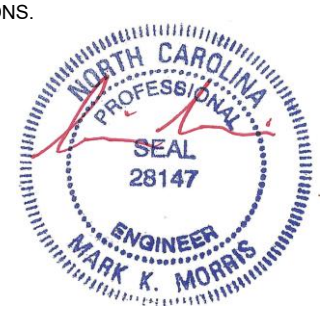
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 14=508/Mechanical, 7=503/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-510/0, 7-15=-500/0, 6-15=-499/0, 1-2=-355/0, 2-3=-1305/0, 3-4=-1648/0, 4-5=-1407/0, 5-6=-550/0
BOT CHORD 12-13=0/972, 11-12=0/1648, 10-11=0/1648, 9-10=0/1648, 8-9=0/1140
WEBS 3-12=-472/0, 2-12=0/406, 2-13=-753/0, 1-13=0/575, 4-9=-387/0, 5-9=0/337, 5-8=-720/0, 6-8=0/670

NOTES- (5-8)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
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) CAUTION, Do not erect truss backwards.
5) 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.
6) 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.
7) 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.
8) 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



11/12/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0014 CAMPBELL RIDGE | 291 ALDEN WAY ANGIER, NC
24-9563-F02	F05	Floor	1	1	Job Reference (optional) **# 54274**

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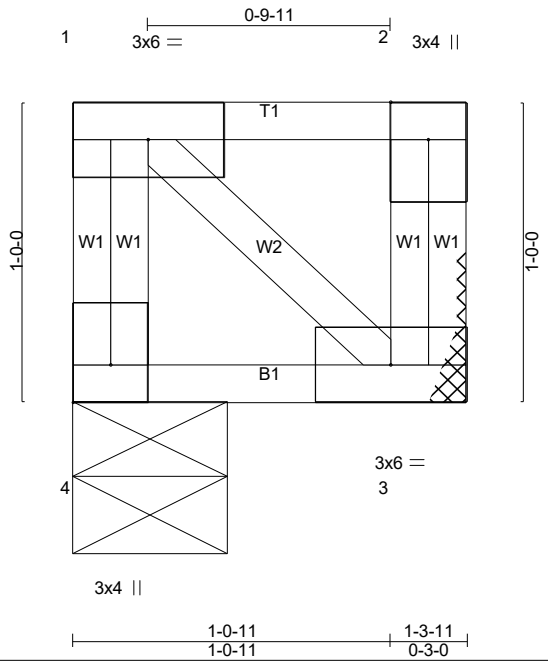

Plate Offsets (X,Y)-- [4:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	0.00	4	****	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	-0.00	4	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00		n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 10 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 1-3-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 4=58/0-6-3 (min. 0-1-8), 3=58/Mechanical

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

NOTES- (3-6)
1) Refer to girder(s) for truss to truss connections.
2) 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.
3) 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.
4) 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.
5) 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.
6) 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

11/12/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0014 CAMPBELL RIDGE | 291 ALDEN WAY ANGIER, NC
24-9563-F02	F06	Floor Girder	1	1	Job Reference (optional) **# 54274**

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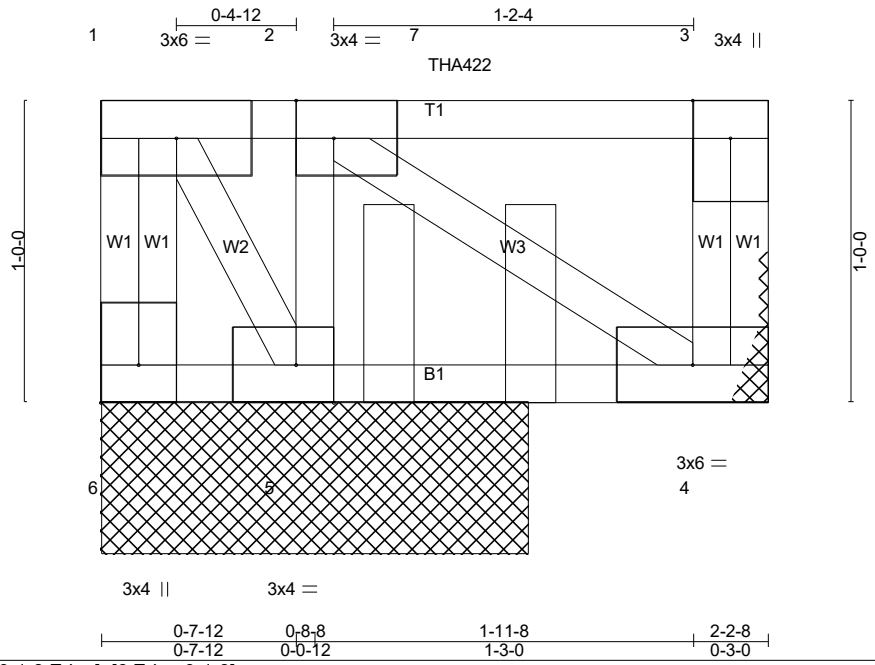

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [5:0-1-8,Edge], [6:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	0.00	5	****	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	-0.00	5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.08	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 15 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 2-2-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=-24/1-5-0 (min. 0-1-8), 4=132/Mechanical, 5=338/1-5-0 (min. 0-1-8)
Max Uplift6=-49(LC 4)
Max Grav 4=137(LC 4), 5=338(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-5=-369/0

NOTES- (9-12)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 49 lb uplift at joint 6.
4) 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.
5) CAUTION, Do not erect truss backwards.
6) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 1-2-4 from the left end to connect truss(es) F08 (1 ply 2x4 SP) to front face of top chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
7) Fill all nail holes where hanger is in contact with lumber.
8) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
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) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-6=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 7=-230(F)

11/12/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0014 CAMPBELL RIDGE | 291 ALDEN WAY ANGIER, NC
24-9563-F02	F08	Floor	1	1	Job Reference (optional) **# 54274**

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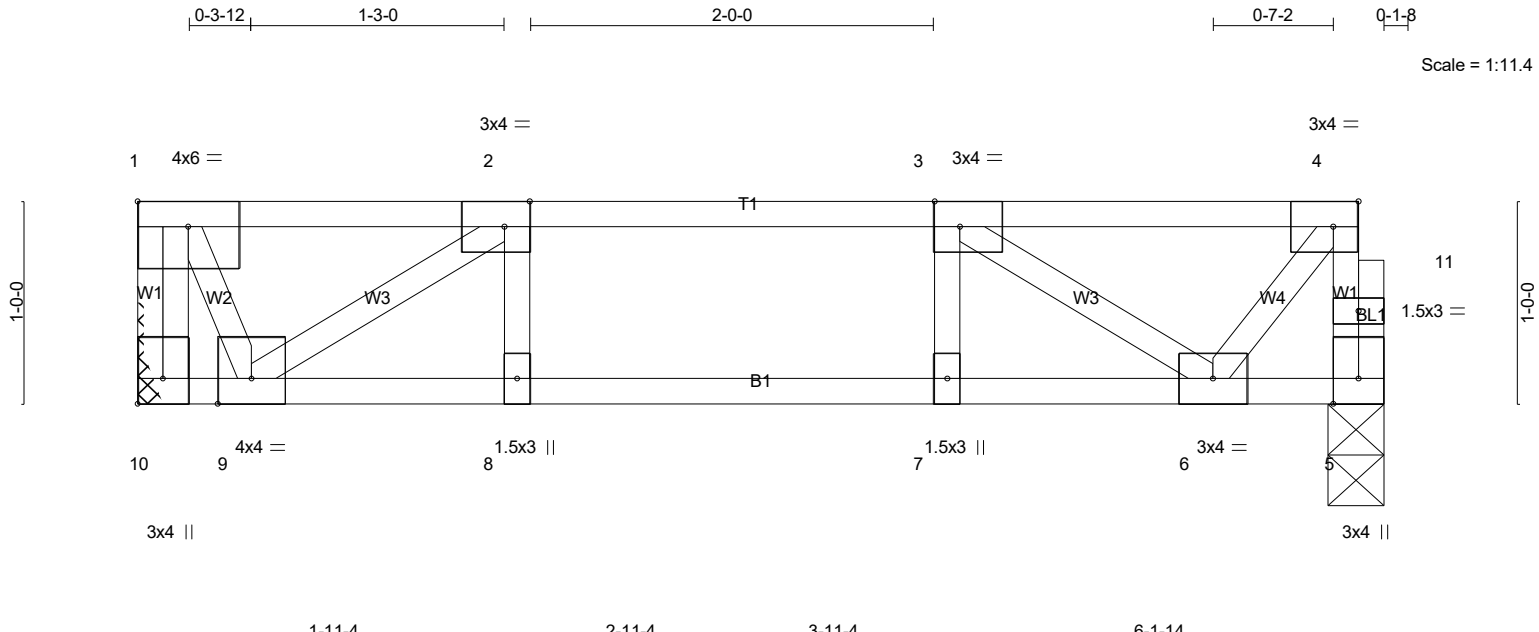


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [4:0-1-8,Edge], [10:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.19	Vert(LL)	-0.02	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.22	Vert(CT)	-0.02	7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.14	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 32 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)

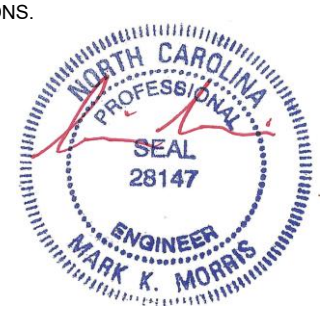
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 10=325/Mechanical, 5=319/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-10=-315/0, 5-11=-322/0, 4-11=-321/0, 2-3=-519/0
BOT CHORD 8-9=0/519, 7-8=0/519, 6-7=0/519
WEBS 2-9=-473/0, 1-9=0/282, 3-6=-381/0, 4-6=0/299

NOTES- (5-8)
1) Unbalanced floor live loads have been considered for this design.
2) Refer to girder(s) for truss to truss connections.
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) CAUTION, Do not erect truss backwards.
5) 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.
6) 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.
7) 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.
8) 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



11/12/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0014 CAMPBELL RIDGE | 291 ALDEN WAY ANGIER, NC
24-9563-F02	F09	Floor	8	1	Job Reference (optional) **# 54274**

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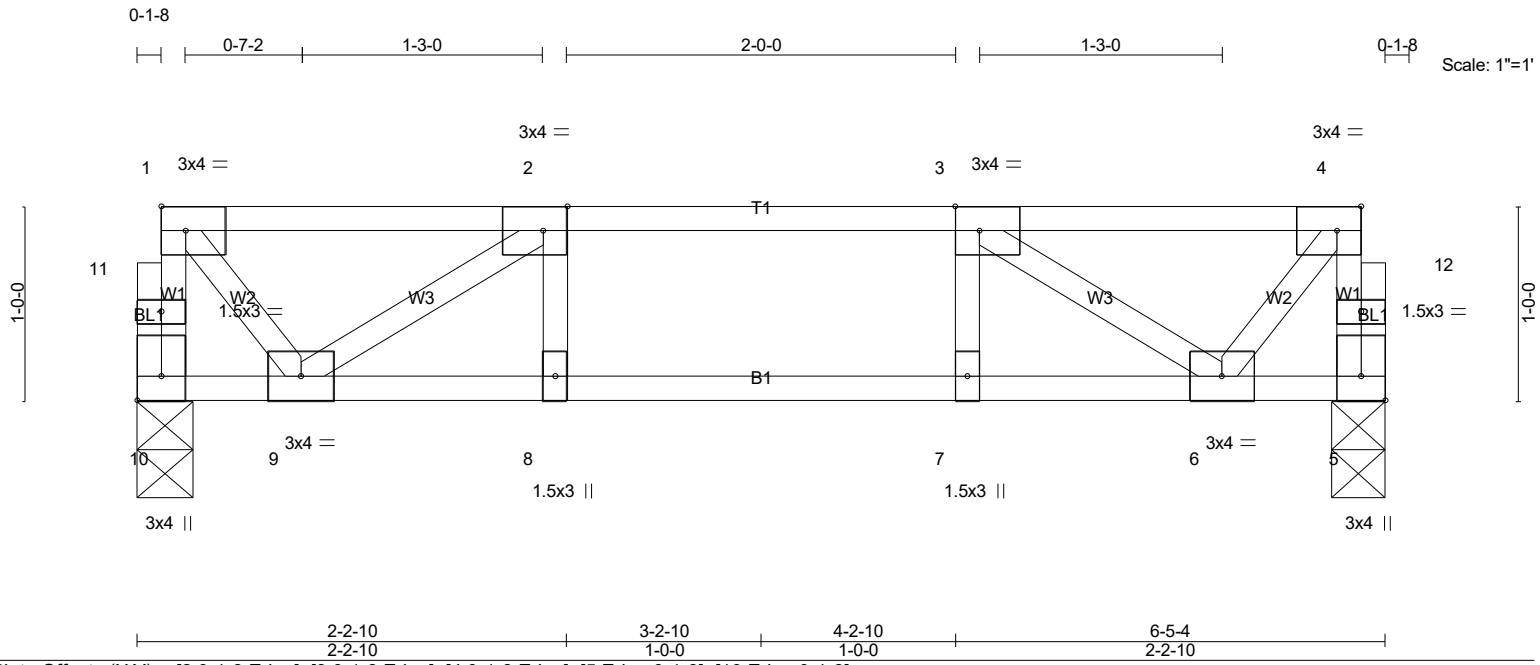

2-2-10	3-2-10	4-2-10	6-5-4
2-2-10	1-0-0	1-0-0	2-2-10

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [4:0-1-8,Edge], [5:Edge,0-1-8], [10:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.17	Vert(LL)	-0.02	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.20	Vert(CT)	-0.02	7	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 32 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) 10=334/0-3-6 (min. 0-1-8), 5=334/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-11=-332/0, 1-11=-332/0, 5-12=-332/0, 4-12=-332/0, 2-3=-575/0
BOT CHORD 8-9=0/575, 7-8=0/575, 6-7=0/575
WEBS 2-9=-435/0, 1-9=0/316, 3-6=-435/0, 4-6=0/316

NOTES- (3-6)
1) Unbalanced floor live loads have been considered for this design.
2) 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.
3) 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

11/12/2024