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 #: 52307
JOB: 24-7828-F02
JOB NAME: LOT 0.0009 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 2015 as well as IRC 2018.
13 Truss Design(s)

Trusses:
F01, F02, F03, F04, F05, F06, F07, F08, F09, F10, F11, F12, F13

9/16/2024
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 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F01	Floor Supported Gable	1	1	Job Reference (optional) **# 52307**

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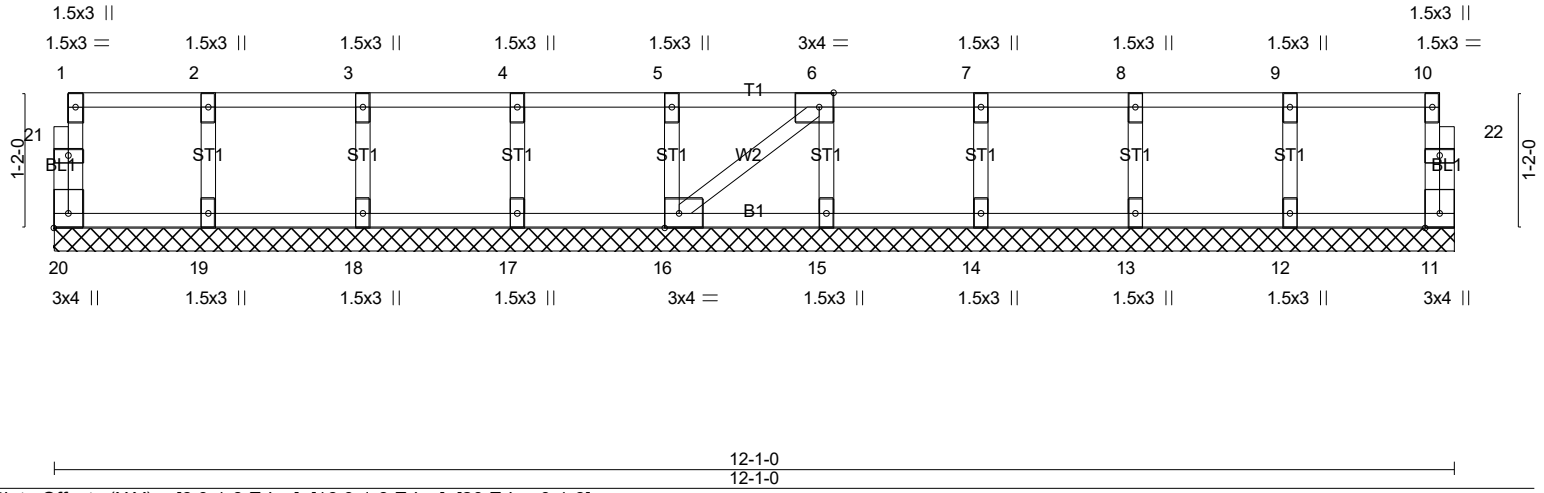

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [16:0-1-8,Edge], [20:Edge,0-1-8]

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)	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	11	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 54 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 12-1-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 20, 11, 19, 18, 17, 16, 15, 14, 13, 12

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

NOTES- (5-8)
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) 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

9/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F02	Floor	5	1	Job Reference (optional) **# 52307**

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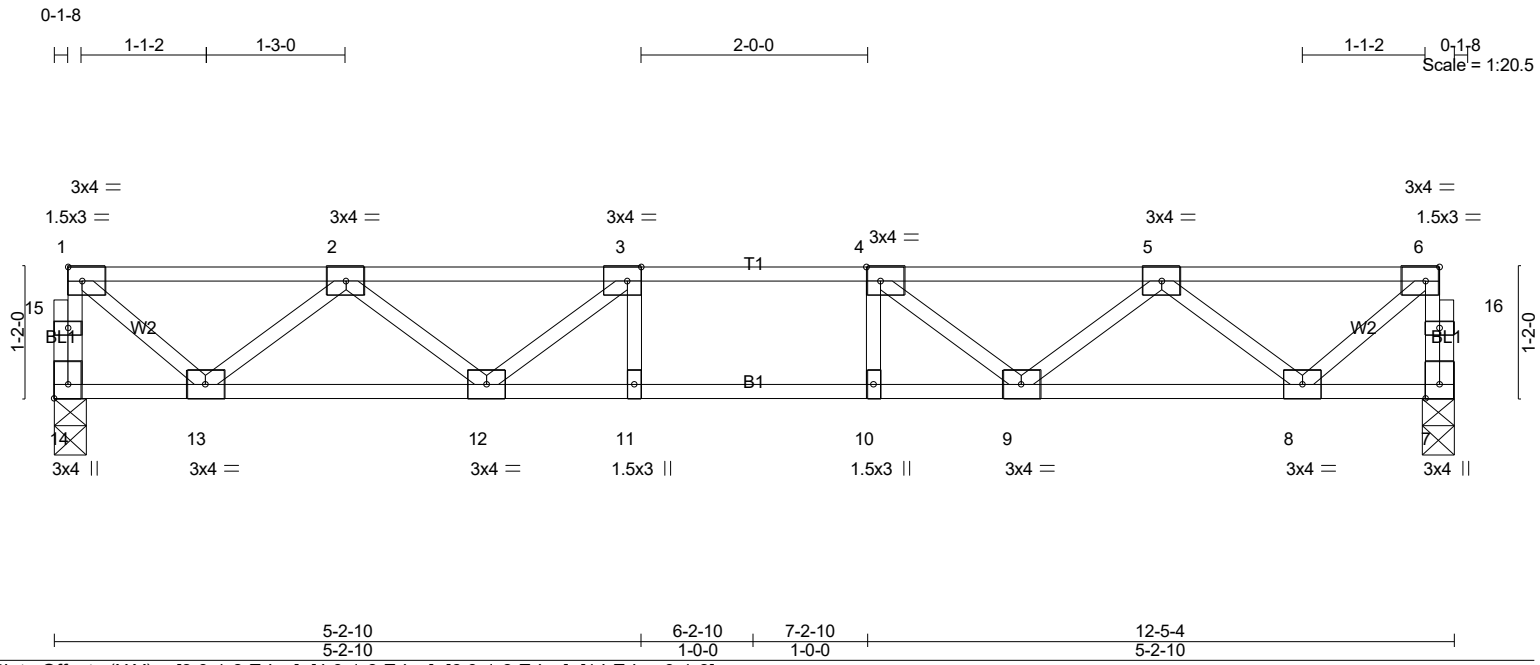

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge], [14:Edge,0-1-8]

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	0.23	Vert(LL)	-0.07	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.09	11	>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: 62 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=531/0-3-6 (min. 0-1-8), 7=531/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 14-15=-528/0, 1-15=-527/0, 7-16=-528/0, 6-16=-527/0, 1-2=-533/0, 2-3=-1304/0, 3-4=-1546/0, 4-5=-1304/0, 5-6=-533/0
BOT CHORD 12-13=0/1055, 11-12=0/1546, 10-11=0/1546, 9-10=0/1546, 8-9=0/1055
WEBS 3-12=-396/0, 2-12=0/335, 2-13=-679/0, 1-13=0/675, 4-9=-396/0, 5-9=0/335, 5-8=-679/0, 6-8=0/675

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.
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

9/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F03	Floor	1	1	Job Reference (optional) **# 52307**

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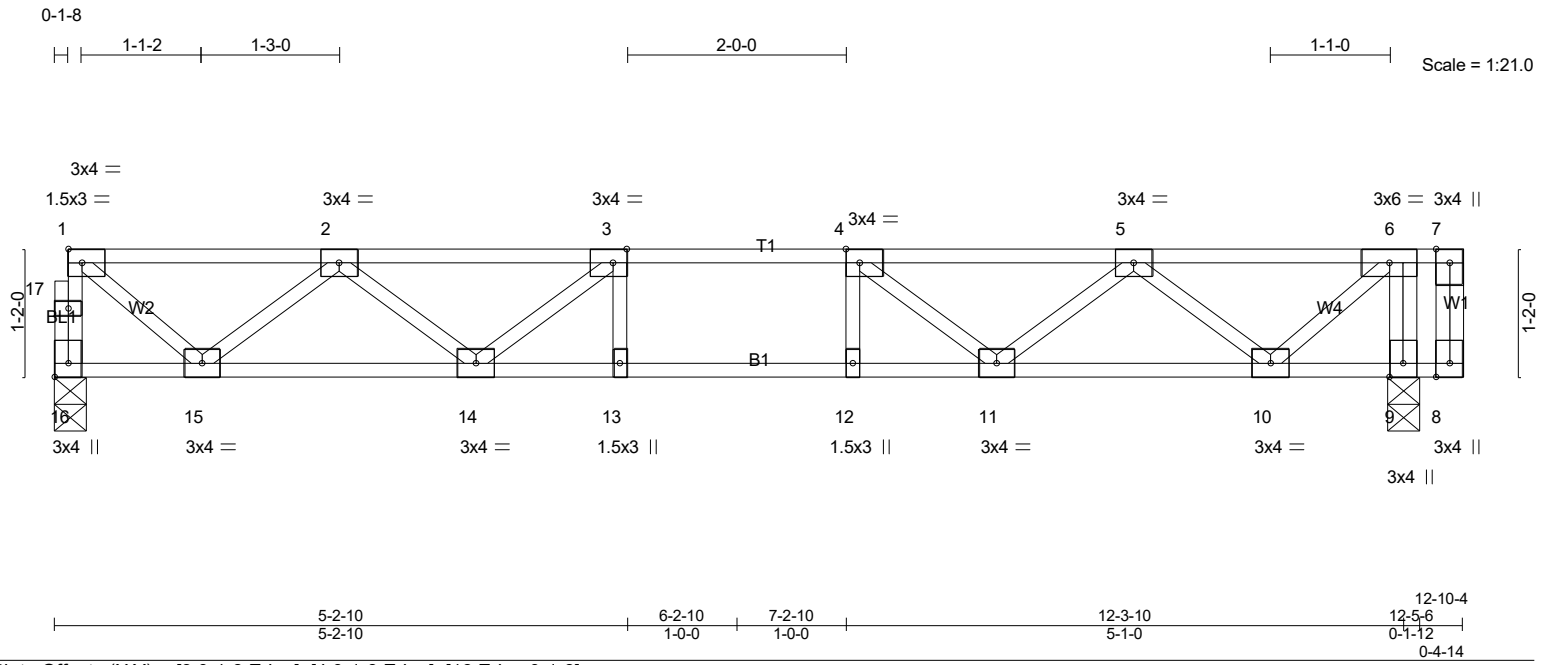


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [16:Edge,0-1-8]

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	0.23	Vert(LL)	-0.07	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.09	13-14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 67 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)

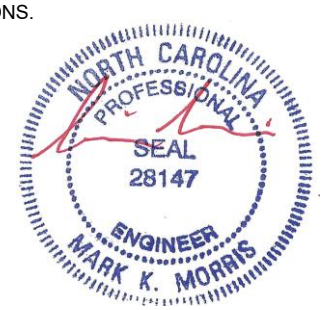
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 16=530/0-3-6 (min. 0-1-8), 9=574/0-3-8 (min. 0-1-8)
Max Grav 16=530(LC 3), 9=574(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-17=-528/0, 1-17=-527/0, 1-2=-532/0, 2-3=-1302/0, 3-4=-1543/0, 4-5=-1297/0, 5-6=-535/0
BOT CHORD 14-15=0/1053, 13-14=0/1543, 12-13=0/1543, 11-12=0/1543, 10-11=0/1046
WEBS 6-9=-615/0, 3-14=-395/0, 2-14=0/334, 2-15=-678/0, 1-15=0/674, 4-11=-400/0, 5-11=0/338, 5-10=-666/0, 6-10=0/707

NOTES- (4-7)
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) CAUTION, Do not erect truss backwards.
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 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



9/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F04	Floor	1	1	Job Reference (optional) **# 52307**

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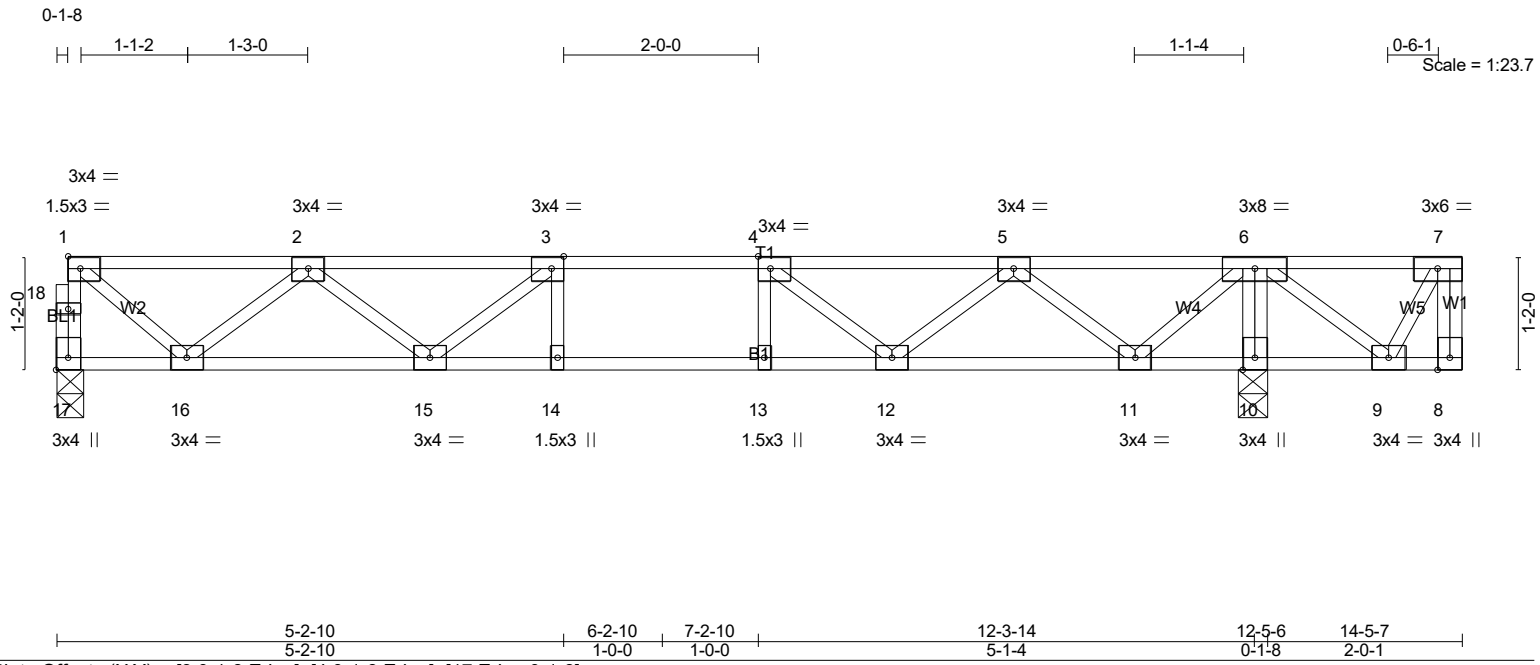


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [17:Edge,0-1-8]

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	0.27	Vert(LL)	-0.07	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.46	Vert(CT)	-0.09	14-15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	10	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 75 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)

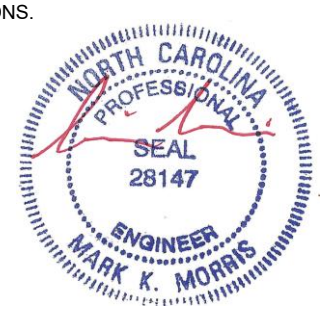
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 10-11,9-10.

REACTIONS. (lb/size) 17=517/0-3-6 (min. 0-1-8), 10=727/0-3-8 (min. 0-1-8)
Max Grav 17=527(LC 3), 10=727(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 17-18=-525/0, 1-18=-524/0, 1-2=-529/0, 2-3=-1292/0, 3-4=-1526/0, 4-5=-1275/0, 5-6=-503/0
BOT CHORD 15-16=0/1047, 14-15=0/1526, 13-14=0/1526, 12-13=0/1526, 11-12=0/1017
WEBS 6-10=-707/0, 3-15=-387/0, 2-15=0/328, 2-16=-674/0, 1-16=0/670, 4-12=-440/0, 5-12=0/366, 5-11=-672/0, 6-11=0/684

NOTES- (4-7)
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) CAUTION, Do not erect truss backwards.
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 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



9/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F05	Floor	1	1	Job Reference (optional) **# 52307**

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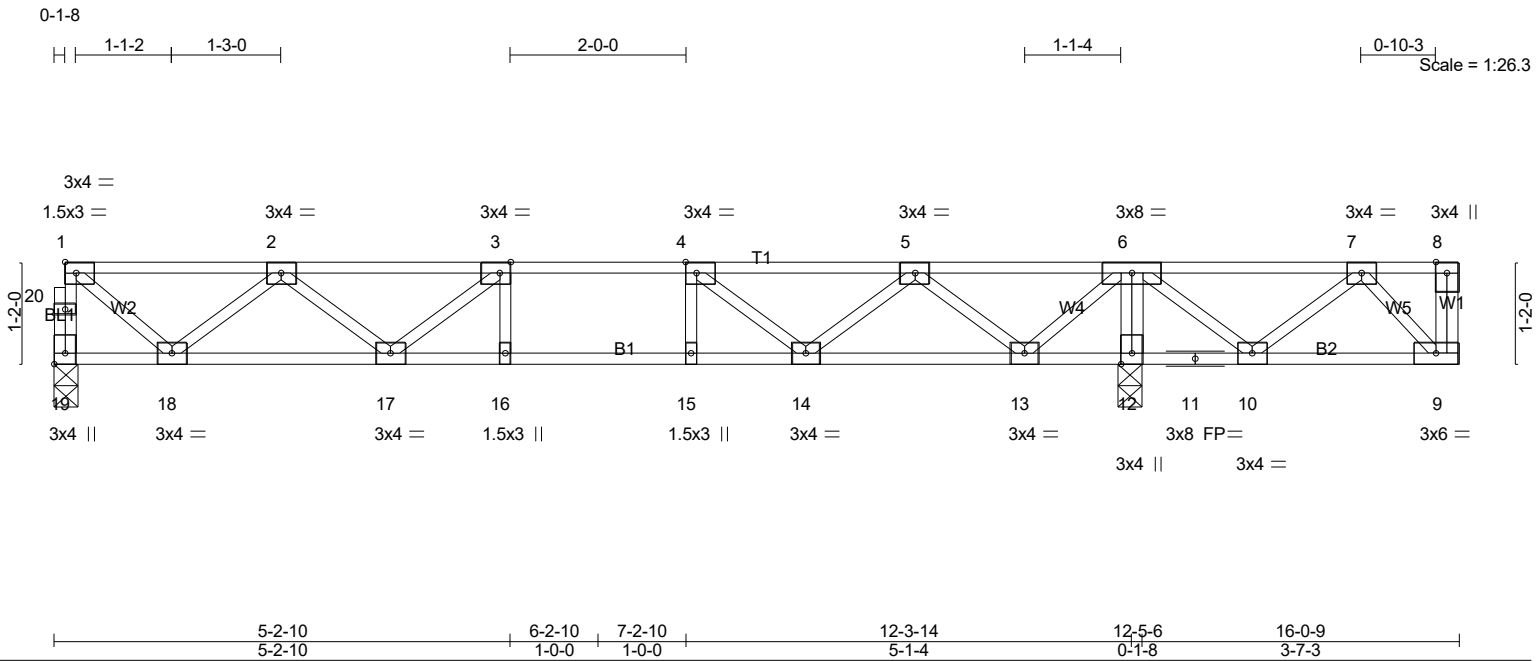

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [19:Edge,0-1-8]

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	0.33	Vert(LL)	-0.08	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.10	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.02	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 83 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) 19=485/0-3-6 (min. 0-1-8), 12=900/0-3-8 (min. 0-1-8)
Max Grav 19=519(LC 3), 12=900(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 19-20=-516/0, 1-20=-515/0, 1-2=-519/0, 2-3=-1260/0, 3-4=-1475/0, 4-5=-1204/19, 5-6=-411/328
BOT CHORD 17-18=0/1028, 16-17=0/1475, 15-16=0/1475, 14-15=0/1475, 13-14=-165/934, 12-13=-511/0, 11-12=-509/0, 10-11=-509/0
WEBS 6-12=-882/0, 3-17=-362/53, 2-17=0/313, 2-18=-662/0, 1-18=0/657, 4-14=-533/0, 5-14=0/425, 5-13=-711/0, 6-13=0/727, 6-10=0/342, 7-10=-301/0

NOTES- (4-7)
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) CAUTION, Do not erect truss backwards.
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 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

9/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F06	Floor	3	1	Job Reference (optional) **# 52307**

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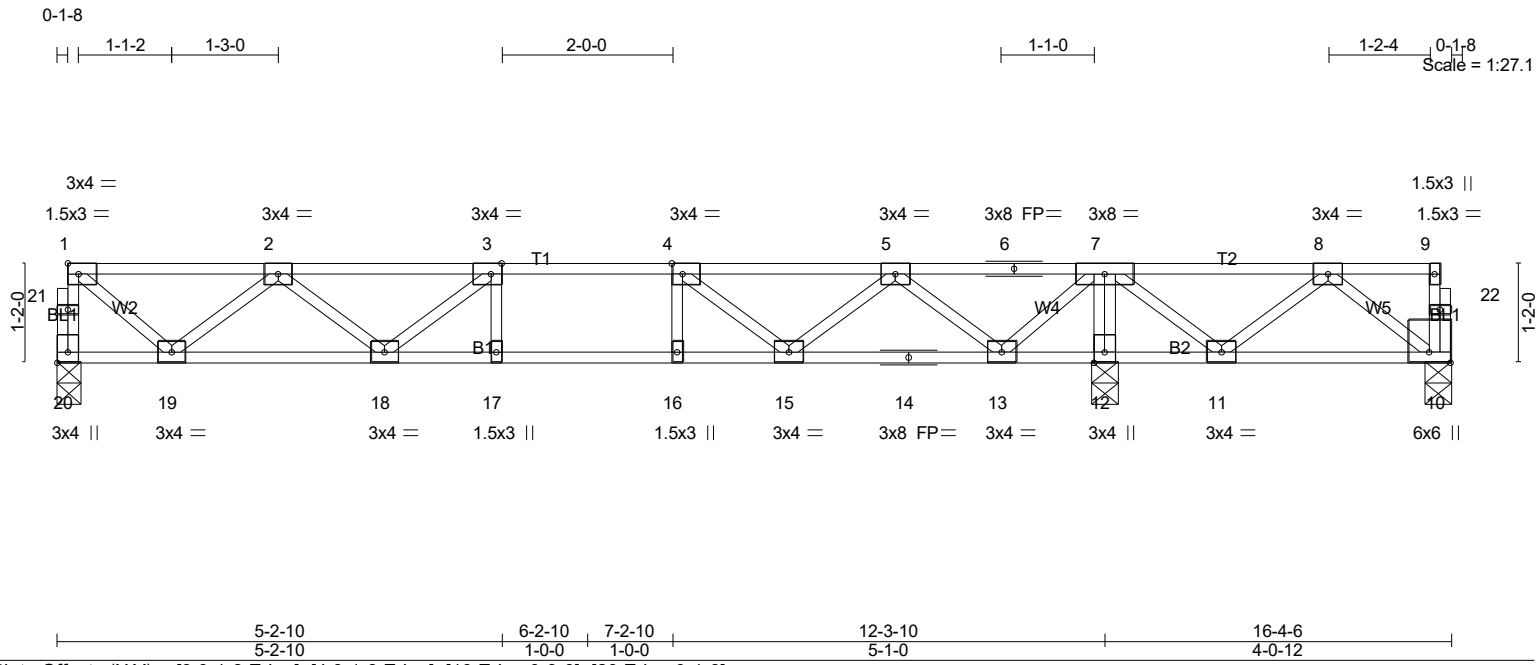

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:Edge,0-3-0], [20:Edge,0-1-8]

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	0.28	Vert(LL)	-0.07	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.10	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 84 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) 20=469/0-3-6 (min. 0-1-8), 12=961/0-3-8 (min. 0-1-8), 10=-22/0-3-8 (min. 0-1-8)
Max Uplift10=-139(LC 3)
Max Grav20=471(LC 3), 12=961(LC 1), 10=111(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 20-21=-466/0, 1-21=-465/0, 1-2=-464/0, 2-3=-1088/0, 3-4=-1195/0, 4-5=-817/0, 5-6=-115/292, 6-7=-115/292, 7-8=0/424
BOT CHORD 18-19=0/921, 17-18=0/1195, 16-17=0/1195, 15-16=0/1195, 14-15=0/480, 13-14=0/480, 12-13=-791/0, 11-12=-787/0
WEBS 7-12=-944/0, 2-19=-596/0, 1-19=0/587, 4-15=-492/0, 5-15=0/445, 5-13=-745/0, 7-13=0/757, 7-11=0/457, 8-11=-411/0, 8-10=-135/252

NOTES- (5-8)
1) Unbalanced floor live loads have been considered for this design.
2) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 139 lb uplift at joint 10.
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

9/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F07	FLOOR	6	1	Job Reference (optional) **# 52307**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Sep 17 10:47:49 2024 Page 1
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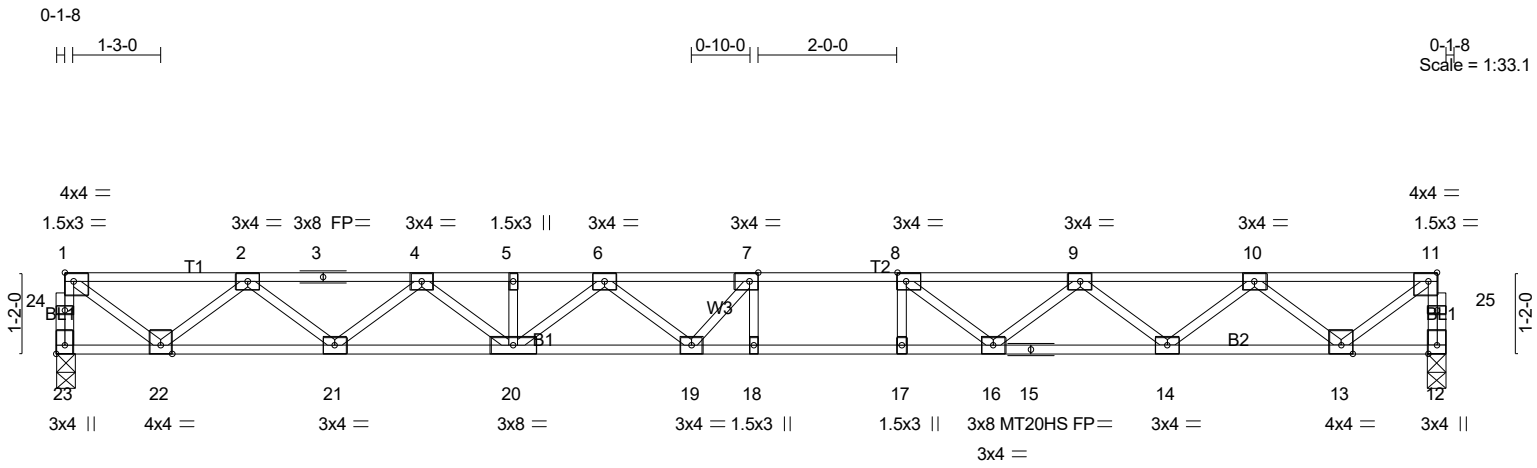

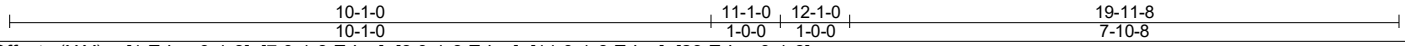

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [11:0-1-8,Edge], [23:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.43	Vert(LL)	-0.32	18	>736	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.99	Vert(CT)	-0.44	18-19	>535	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.06	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 100 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, Except:
2-2-0 oc bracing: 18-19,17-18.

REACTIONS. (lb/size) 23=718/0-3-8 (min. 0-1-8), 12=718/0-3-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-715/0, 1-24=-714/0, 12-25=-714/0, 11-25=-713/0, 1-2=-855/0, 2-3=-2137/0, 3-4=-2137/0, 4-5=-2994/0, 5-6=-2994/0, 6-7=-3356/0, 7-8=-3344/0, 8-9=-2961/0, 9-10=-2139/0, 10-11=-854/0
BOT CHORD 21-22=0/1614, 20-21=0/2638, 19-20=0/3277, 18-19=0/3344, 17-18=0/3344, 16-17=0/3344, 15-16=0/2637, 14-15=0/2637, 13-14=0/1614
WEBS 1-22=0/1037, 2-22=-987/0, 2-21=0/681, 4-21=-652/0, 4-20=0/455, 6-20=-361/0, 6-19=-49/276, 8-16=-623/0, 9-16=0/468, 9-14=-648/0, 10-14=0/684, 10-13=-988/0, 11-13=0/1036, 7-19=-288/250

NOTES- (4)
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.

LOAD CASE(S) Standard

9/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F08	FLOOR	1	1	Job Reference (optional) **# 52307**

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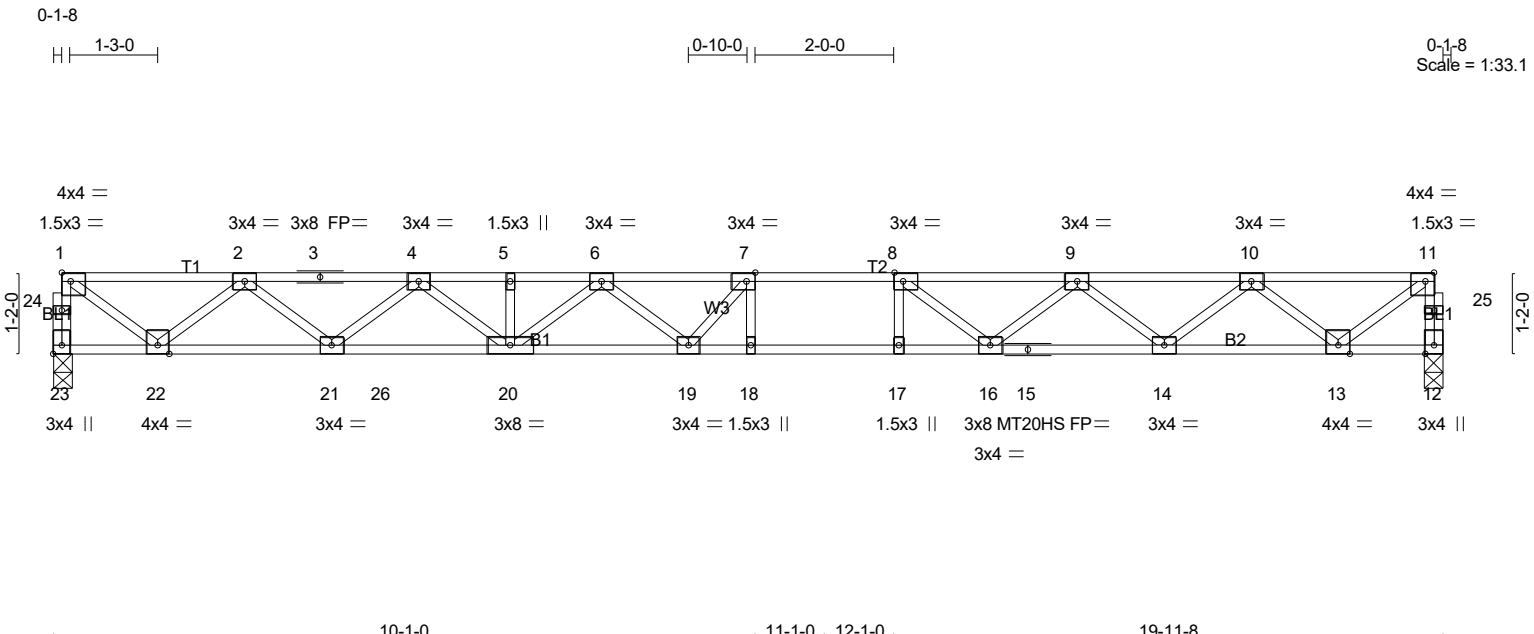

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [11:0-1-8,Edge], [23:Edge,0-1-8]

LOADING (psf)		**SPACING-**	1-4-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.31	18	>774	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.42	18-19	>563	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	NO	WB	0.49	Horz(CT)	0.06	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 100 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP SS(flat) *Except*
B2: 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) 23=718/0-3-8 (min. 0-1-8), 12=718/0-3-0 (min. 0-1-8)
Max Horz 23=26(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-715/0, 1-24=-713/0, 12-25=-714/0, 11-25=-713/0, 1-2=-855/0, 2-3=-2137/0, 3-4=-2137/0, 4-5=-2993/0, 5-6=-2993/0, 6-7=-3357/0, 7-8=-3344/0, 8-9=-2960/0, 9-10=-2140/0, 10-11=-854/0
BOT CHORD 21-22=-34/1613, 21-26=-137/2654, 20-26=-2/2638, 19-20=0/3276, 18-19=-4/3344, 17-18=0/3344, 16-17=0/3344, 15-16=0/2638, 14-15=0/2638, 13-14=0/1614
WEBS 7-18=-330/214, 8-17=-153/281, 1-22=0/1037, 2-22=-987/16, 2-21=-52/710, 4-21=-684/82, 4-20=-121/537, 6-20=-422/106, 6-19=-217/399, 8-16=-776/274, 9-16=-135/551, 9-14=-663/62, 10-14=-47/709, 10-13=-988/22, 11-13=0/1036, 7-19=-487/466

NOTES- (5)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) This truss has been designed for a total drag load of 125 plf. Lumber DOL=(1.33) Plate grip DOL=(1.33) Connect truss to resist drag loads along bottom chord from 4-8-12 to 19-11-8 for 163.8 plf.
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.

LOAD CASE(S) Standard

9/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F09	Floor	1	1	Job Reference (optional) **# 52307**

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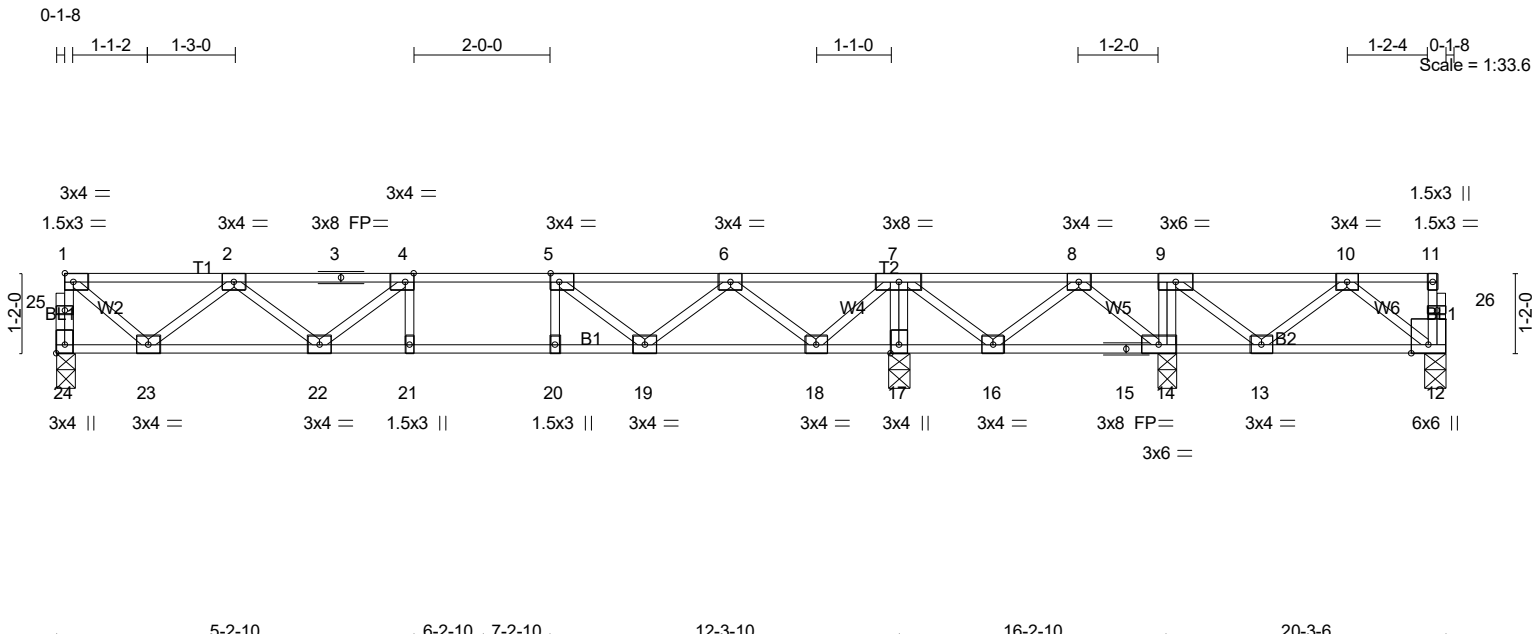

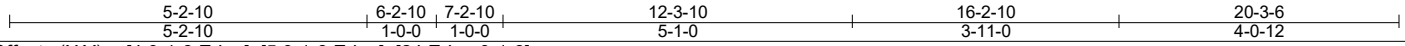

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [24:Edge,0-1-8]

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	0.28	Vert(LL)	-0.07	21-22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.47	Vert(CT)	-0.10	21-22	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	Horz(CT)	0.01	17	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. All bearings 0-3-8 except (jt=length) 24=0-3-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12 except 24=471(LC 5), 17=940(LC 3), 14=350(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-466/0, 1-25=-465/0, 1-2=-464/0, 2-3=-1088/0, 3-4=-1088/0, 4-5=-1196/0, 5-6=-818/0, 6-7=-117/290, 7-8=0/468
BOT CHORD 22-23=0/921, 21-22=0/1196, 20-21=0/1196, 19-20=0/1196, 18-19=0/481, 17-18=-788/0, 16-17=-784/0, 15-16=-255/58, 14-15=-255/58
WEBS 7-17=-922/0, 9-14=-256/0, 2-23=-596/0, 1-23=0/587, 5-19=-491/0, 6-19=0/445, 6-18=-744/0, 7-18=0/755, 7-16=0/398, 8-16=-359/0, 8-14=-155/267

NOTES- (4-7)
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) CAUTION, Do not erect truss backwards.
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 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

9/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F10	Floor	1	1	Job Reference (optional) **# 52307**

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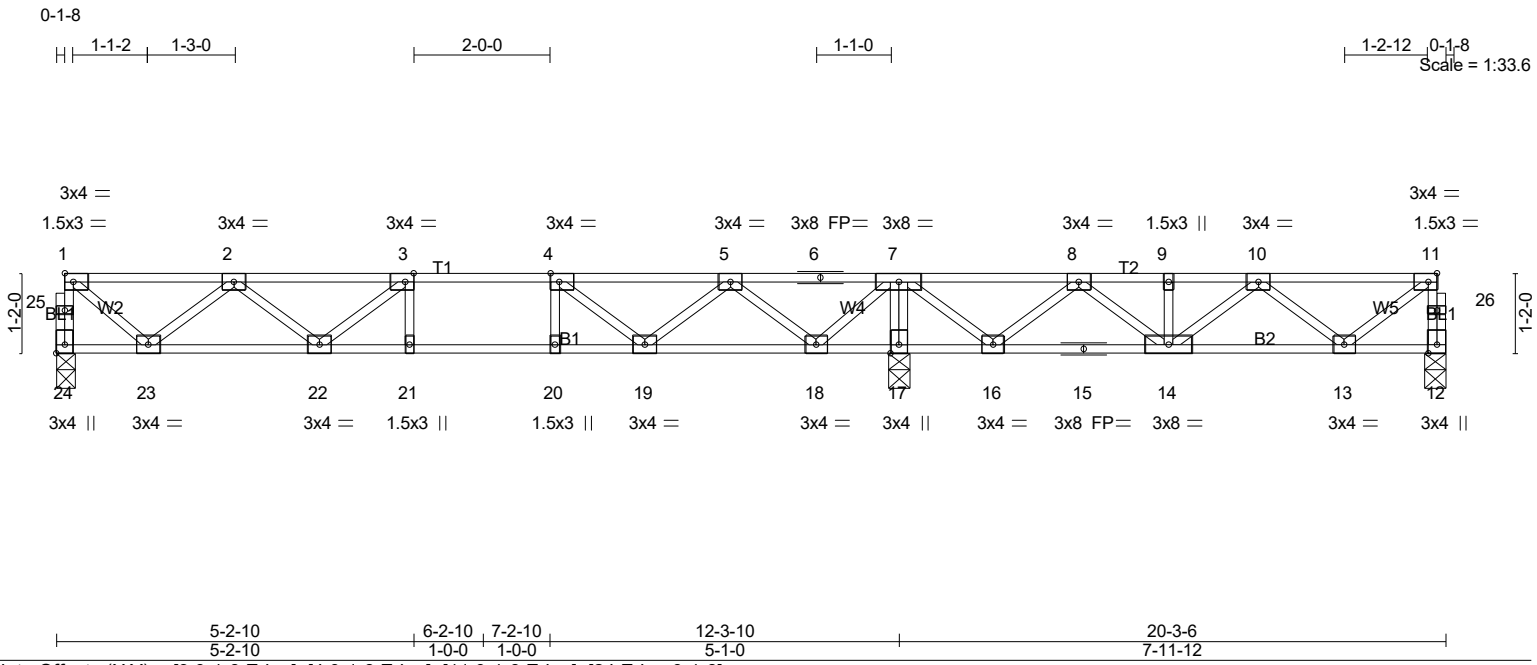

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [24:Edge,0-1-8]

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	0.30	Vert(LL)	-0.07	21-22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.49	Vert(CT)	-0.10	21-22	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.36	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) 24=462/0-3-6 (min. 0-1-8), 12=234/0-3-8 (min. 0-1-8), 17=1055/0-3-8 (min. 0-1-8)
Max Grav 24=473(LC 3), 12=295(LC 4), 17=1055(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-468/0, 1-25=-467/0, 12-26=-291/0, 11-26=-291/0, 1-2=-466/0, 2-3=-1096/0, 3-4=-1208/0, 4-5=-835/0, 5-6=-1/353, 6-7=-1/353, 7-8=-64/449, 8-9=-477/152, 9-10=-477/152, 10-11=-275/20
BOT CHORD 22-23=0/926, 21-22=0/1208, 20-21=0/1208, 19-20=0/1208, 18-19=-4/501, 17-18=-857/0, 16-17=-852/0, 15-16=-292/385, 14-15=-292/385, 13-14=-59/505
WEBS 7-17=-1035/0, 2-23=-599/0, 1-23=0/590, 4-19=-511/0, 5-19=0/458, 5-18=-742/0, 7-18=0/754, 7-16=0/568, 8-16=-523/0, 10-13=-299/51, 11-13=-25/331

NOTES- (4-7)
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) CAUTION, Do not erect truss backwards.
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 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

9/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F11	Floor	3	1	Job Reference (optional) **# 52307**

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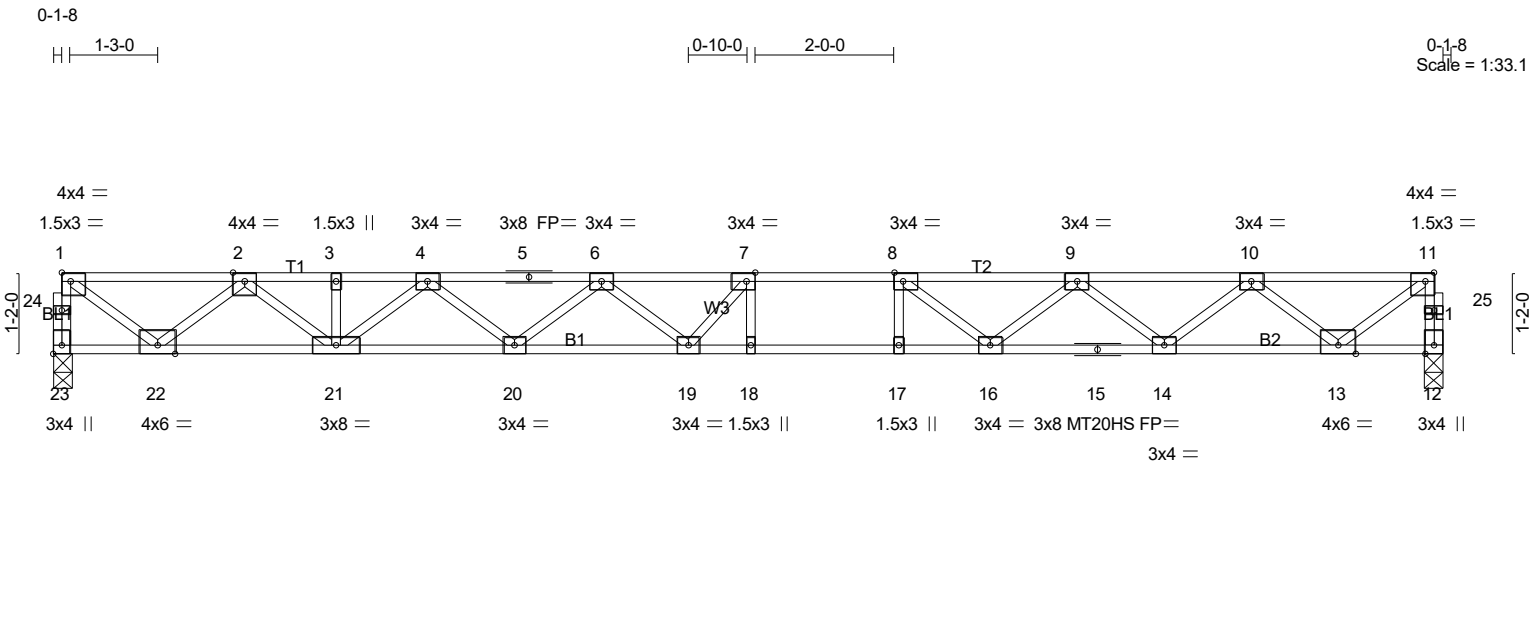

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [11:0-1-8,Edge], [23:Edge,0-1-8]

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	0.59	Vert(LL)	-0.37	18	>648	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.50	18-19	>471	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.59	Horz(CT)	0.07	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 100 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP SS(flat) *Except*
B2: 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) 23=862/0-3-8 (min. 0-1-8), 12=862/0-3-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-857/0, 1-24=-856/0, 12-25=-857/0, 11-25=-855/0, 1-2=-1022/0, 2-3=-2609/0, 3-4=-2609/0, 4-5=-3586/0, 5-6=-3586/0, 6-7=-4028/0, 7-8=-4009/0, 8-9=-3550/0, 9-10=-2566/0, 10-11=-1025/0
BOT CHORD 21-22=0/1928, 20-21=0/3215, 19-20=0/3940, 18-19=0/4009, 17-18=0/4009, 16-17=0/4009, 15-16=0/3163, 14-15=0/3163, 13-14=0/1935
WEBS 7-18=-286/122, 1-22=0/1240, 2-22=-1179/0, 2-21=0/870, 4-21=-774/0, 4-20=0/483, 6-20=-460/0, 6-19=-61/322, 7-19=-345/309, 8-16=-750/0, 9-16=0/557, 9-14=-777/0, 10-14=0/821, 10-13=-1185/0, 11-13=0/1243

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 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

9/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F12	Floor	2	1	Job Reference (optional) **# 52307**

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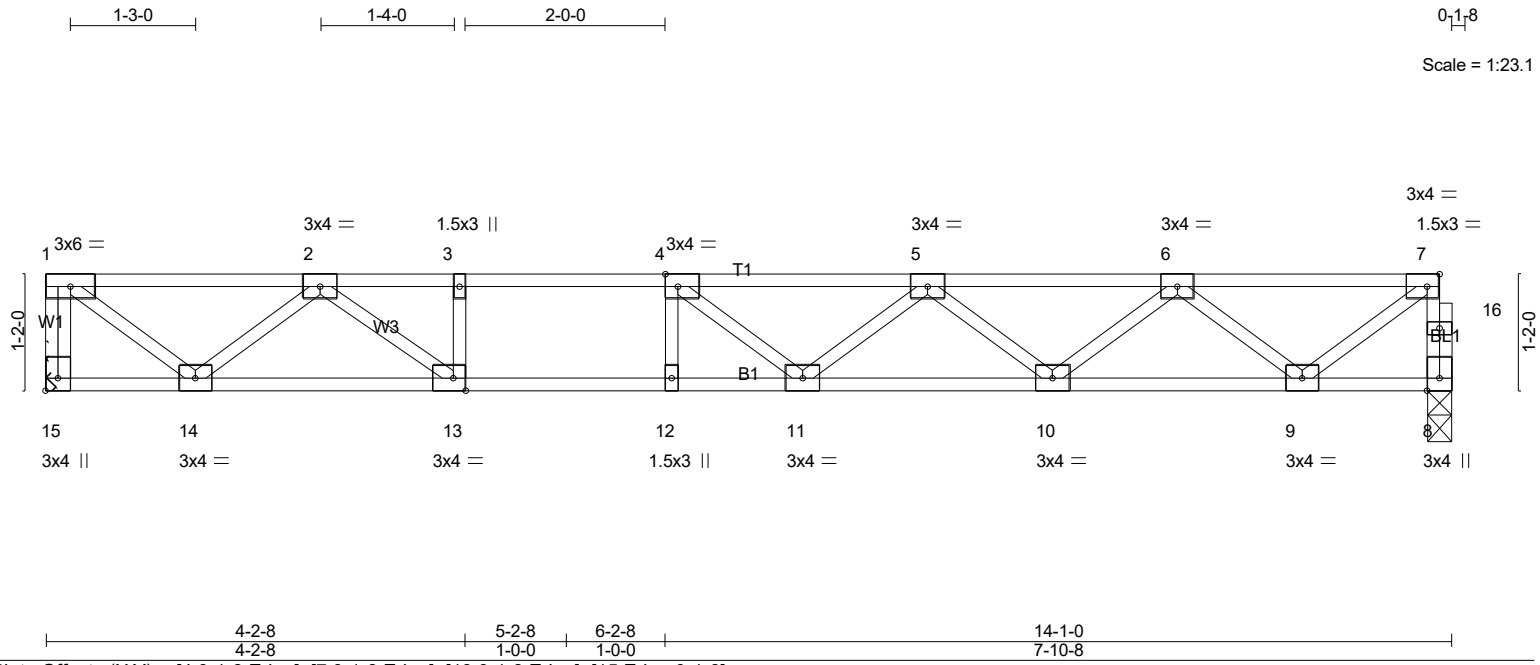

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [7:0-1-8,Edge], [13:0-1-8,Edge], [15:Edge,0-1-8]

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	0.63	Vert(LL)	-0.18	11-12	>918	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.88	Vert(CT)	-0.24	11-12	>679	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 70 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) 15=608/Mechanical, 8=603/0-3-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-15=-584/0, 8-16=-600/0, 7-16=-599/0, 1-2=-647/0, 2-3=-1848/0, 3-4=-1848/0, 4-5=-1966/0, 5-6=-1613/0, 6-7=-684/0
BOT CHORD 13-14=0/1288, 12-13=0/1848, 11-12=0/1848, 10-11=0/1937, 9-10=0/1278
WEBS 3-13=-291/0, 1-14=0/812, 2-14=-834/0, 2-13=0/782, 4-11=-129/255, 5-10=-423/0, 6-10=0/436, 6-9=-772/0, 7-9=0/828

NOTES- (5)
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.

LOAD CASE(S) Standard

9/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0009 CAMPBELL RIDGE | ANGIER, NC
24-7828-F02	F13	Floor	1	1	Job Reference (optional) **# 52307**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Sep 17 10:47:52 2024 Page 1
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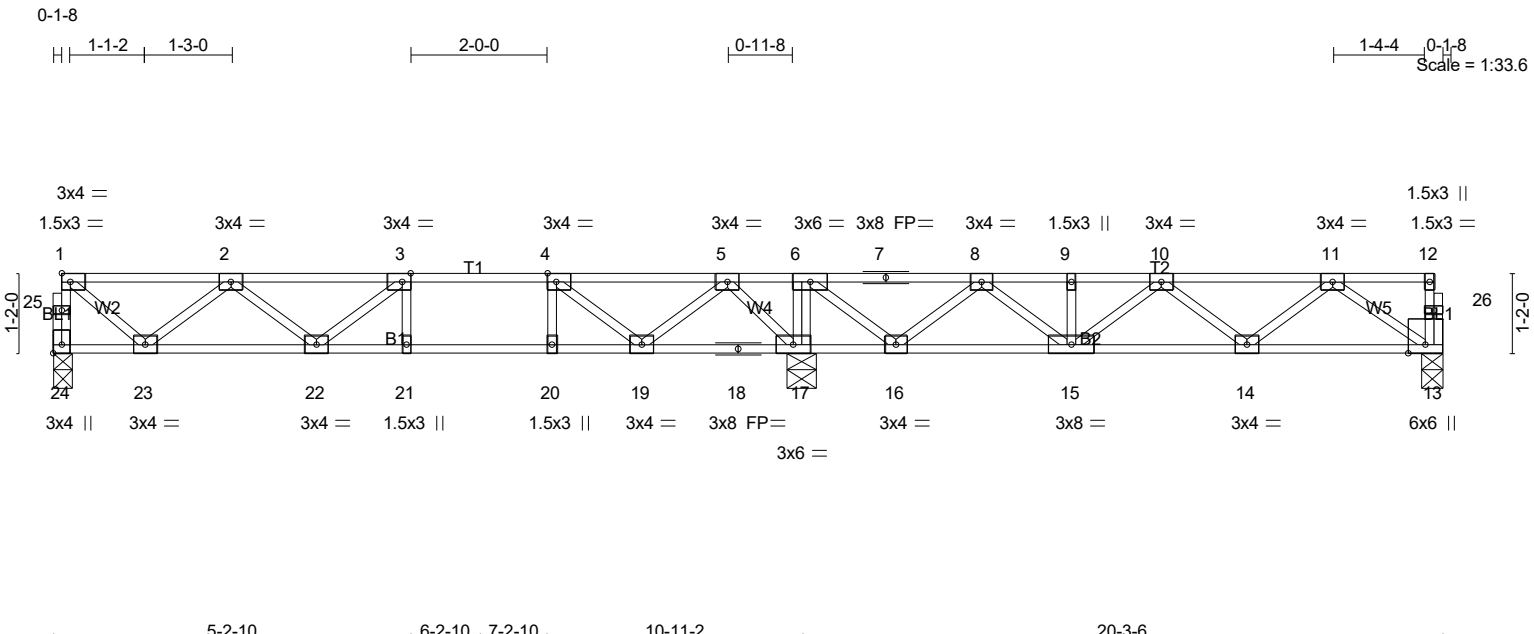

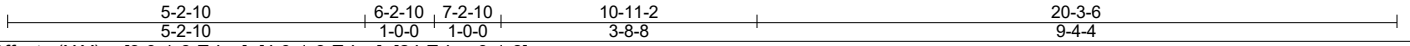

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [24:Edge,0-1-8]

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	0.35	Vert(LL)	-0.08	21-22	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.10	21-22	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	13	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 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 17-19,16-17.

REACTIONS. (lb/size) 24=425/0-3-6 (min. 0-1-8), 17=979/0-5-8 (min. 0-1-8), 13=348/0-3-8 (min. 0-1-8)
Max Grav 24=443(LC 3), 17=979(LC 1), 13=379(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 24-25=-438/0, 1-25=-437/0, 1-2=-432/0, 2-3=-989/0, 3-4=-1037/0, 4-5=-588/25, 5-6=0/602, 6-7=-262/124, 7-8=-262/124, 8-9=-767/0, 9-10=-767/0, 10-11=-666/0
BOT CHORD 22-23=0/860, 21-22=0/1037, 20-21=0/1037, 19-20=0/1037, 16-17=-602/0, 15-16=0/622, 14-15=0/826, 13-14=0/479
WEBS 6-17=-526/0, 2-23=-557/0, 1-23=0/546, 4-19=-629/0, 5-19=0/529, 5-17=-650/0, 6-16=0/599, 8-16=-551/0, 8-15=0/266, 11-13=-584/0

NOTES- (4-7)
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) CAUTION, Do not erect truss backwards.
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 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

9/16/2024