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 #: 43967
JOB: 23-B588-F02
JOB NAME: LOT 0.0099 BLAKE POND
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.
22 Truss Design(s)

Trusses:
F2-00, F2-01, F2-02, F2-03, F2-04, F2-05, F2-06, F2-07, F2-08, F2-09, F2-09A, F2-10, F2-11, F2-12, F2-13, F2-14, F2-15, F2-16, F2-16A, F2-17, F2-18, F2-19

1/6/2024
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*

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-00	Floor Supported Gable	1	1	Job Reference (optional) **# 43967**

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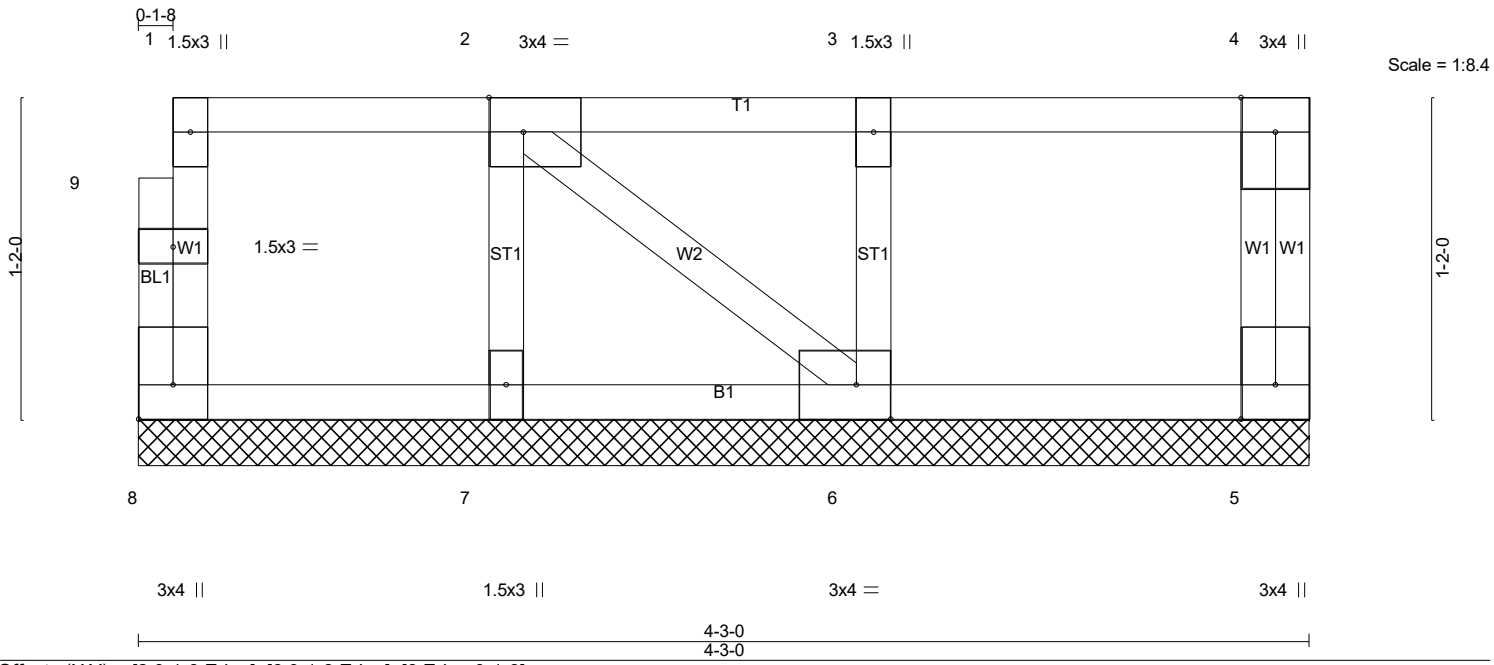

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [6:0-1-8,Edge], [8:Edge,0-1-8]

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	5	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 23 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 4-3-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 4-3-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 8, 5, 7, 6

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

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-01	Floor Supported Gable	1	1	Job Reference (optional) **# 43967**

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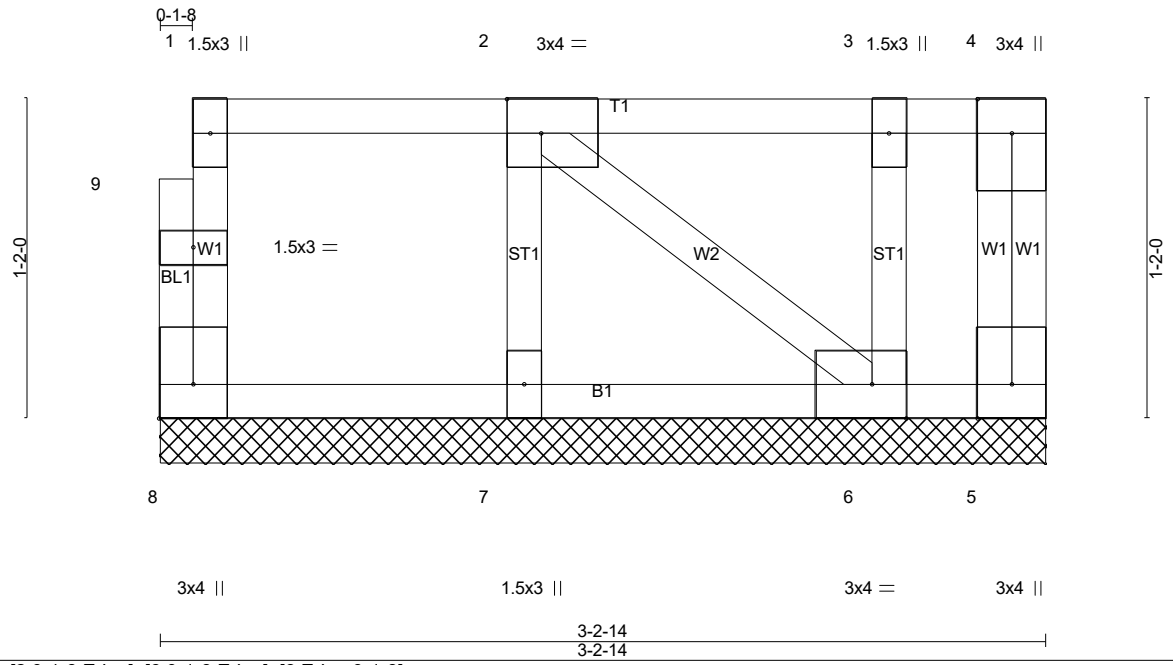

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [6:0-1-8,Edge], [8:Edge,0-1-8]

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	5	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 20 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 3-2-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 8=48/3-2-14 (min. 0-1-8), 5=-1/3-2-14 (min. 0-1-8), 7=155/3-2-14 (min. 0-1-8), 6=121/3-2-14 (min. 0-1-8)
Max Uplift5=-1(LC 1)

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

NOTES- (7)
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 1 lb uplift at joint 5.
5) 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.
6) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-02	Floor Supported Gable	1	1	Job Reference (optional) **# 43967**

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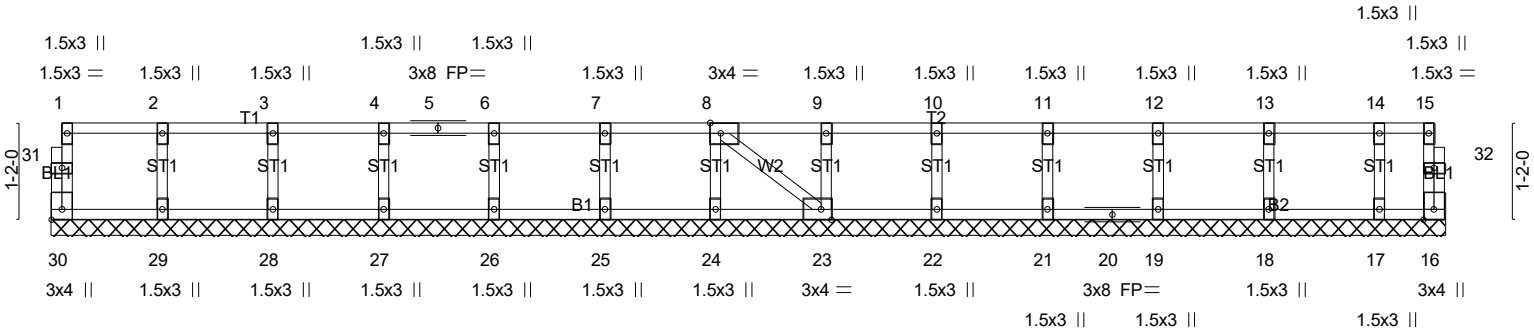

16-9-6
16-9-6

Plate Offsets (X,Y)-- [8:0-1-8,Edge], [23:0-1-8,Edge], [30: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	16	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 73 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 16-9-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 30, 16, 29, 28, 27, 26, 25, 24, 23, 22, 21, 19, 18, 17

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

NOTES- (5)
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.

LOAD CASE(S) Standard

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-03	Floor	6	1	Job Reference (optional) **# 43967**

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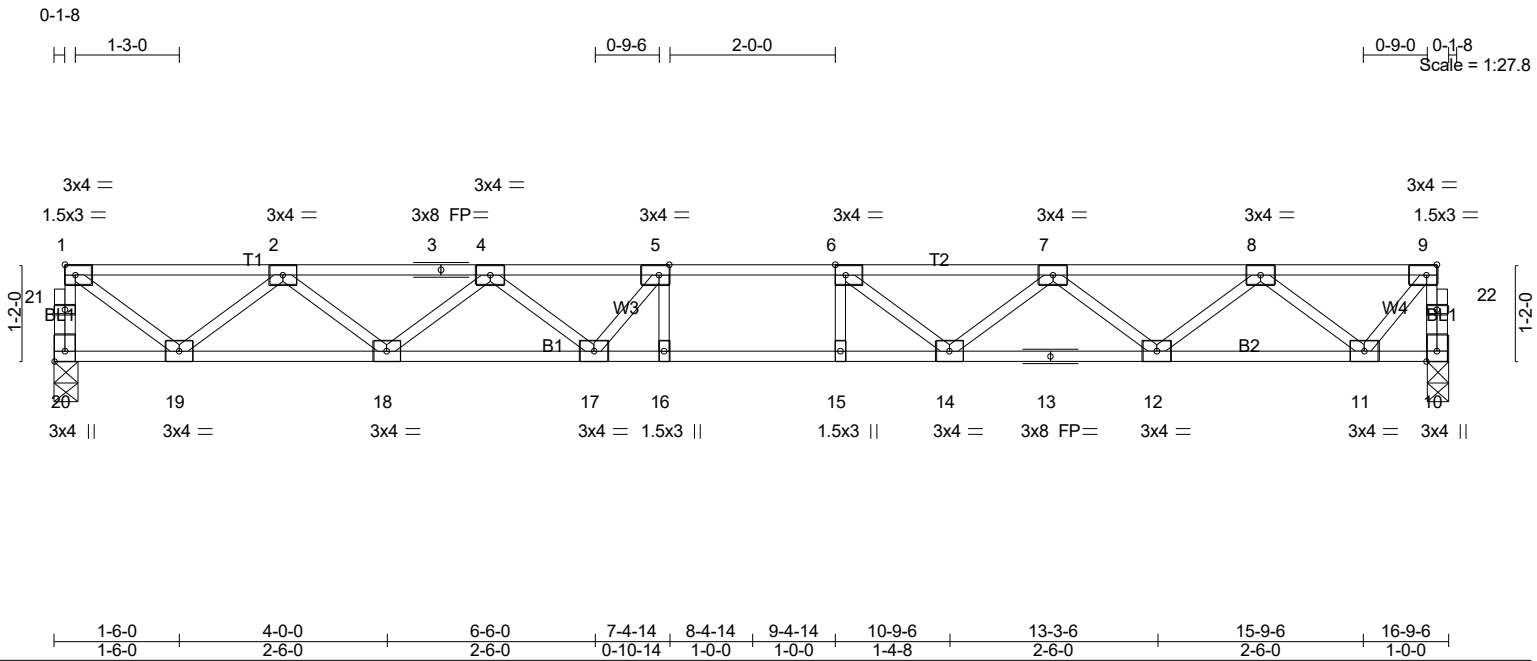

Plate Offsets (X,Y)-- [5:0-1-8,Edge], [6:0-1-8,Edge], [9:0-1-8,Edge], [20:Edge,0-1-8]

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	0.26	Vert(LL)	-0.15	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.60	Vert(CT)	-0.20	15-16	>974	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.04	10	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 10-0-0 oc bracing.

REACTIONS. (lb/size) 20=602/0-3-6 (min. 0-1-8), 10=602/0-3-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 20-21=-598/0, 1-21=-597/0, 10-22=-601/0, 9-22=-600/0, 1-2=-702/0, 2-3=-1706/0, 3-4=-1706/0, 4-5=-2260/0, 5-6=-2381/0, 6-7=-2175/0, 7-8=-1542/0, 8-9=-463/0
BOT CHORD 18-19=0/1321, 17-18=0/2071, 16-17=0/2381, 15-16=0/2381, 14-15=0/2381, 13-14=0/1962, 12-13=0/1962, 11-12=0/1103
WEBS 1-19=0/850, 2-19=-805/0, 2-18=0/502, 4-18=-474/0, 4-17=0/331, 5-17=-369/48, 6-14=-407/0, 7-14=0/331, 7-12=-546/0, 8-12=0/572, 8-11=-833/0, 9-11=0/693

NOTES- (3)
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.

LOAD CASE(S) Standard

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-04	Floor	2	1	# 43967
					Job Reference (optional)

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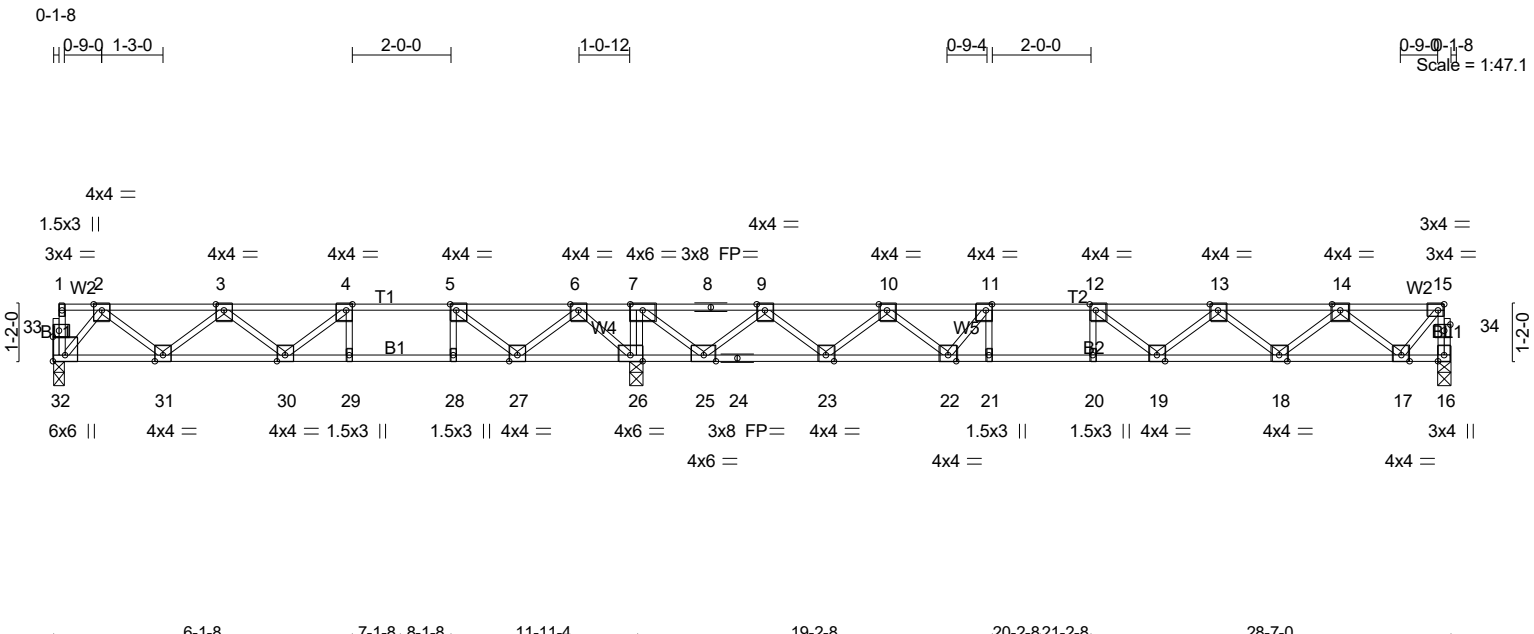

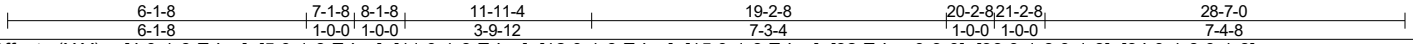

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [15:0-1-8,Edge], [32:Edge,0-3-0], [33:0-1-8,0-1-8], [34:0-1-8,0-1-8]

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	0.62	Vert(LL)	-0.16	20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.22	20	>887	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.04	16	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 142 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) 32=402/0-3-0 (min. 0-1-8), 16=641/0-3-0 (min. 0-1-8), 26=1440/0-3-8 (min. 0-1-8)
Max Grav 32=473(LC 3), 16=654(LC 7), 26=1440(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-34=-654/0, 15-34=-653/0, 2-3=-762/0, 3-4=-1185/75, 4-5=-1123/297, 5-6=-559/652, 6-7=0/1352, 7-8=0/435, 8-9=0/435, 9-10=-1223/0, 10-11=-2061/0, 11-12=-2321/0, 12-13=-2225/0, 13-14=-1631/0, 14-15=-498/0
BOT CHORD 31-32=0/386, 30-31=0/1124, 29-30=-297/1123, 28-29=-297/1123, 27-28=-297/1123, 26-27=-909/109, 25-26=-1352/0, 24-25=0/675, 23-24=0/675, 22-23=0/1738, 21-22=0/2321, 20-21=0/2321, 19-20=0/2321, 18-19=0/2063, 17-18=0/1182
WEBS 4-29=-260/0, 5-28=0/287, 7-26=-869/0, 4-30=0/347, 3-31=-472/7, 2-31=0/489, 2-32=-600/0, 5-27=-927/0, 6-27=0/715, 6-26=-790/0, 7-25=0/1151, 9-25=-1085/0, 9-23=0/743, 10-23=-699/0, 10-22=0/483, 11-22=-571/0, 12-19=-278/103, 13-19=0/264, 13-18=-561/0, 14-18=0/585, 14-17=-890/0, 15-17=0/746

NOTES- (4)
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.

LOAD CASE(S) Standard

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-05	FLOOR GIRDER	1	1	Job Reference (optional) **# 43967**

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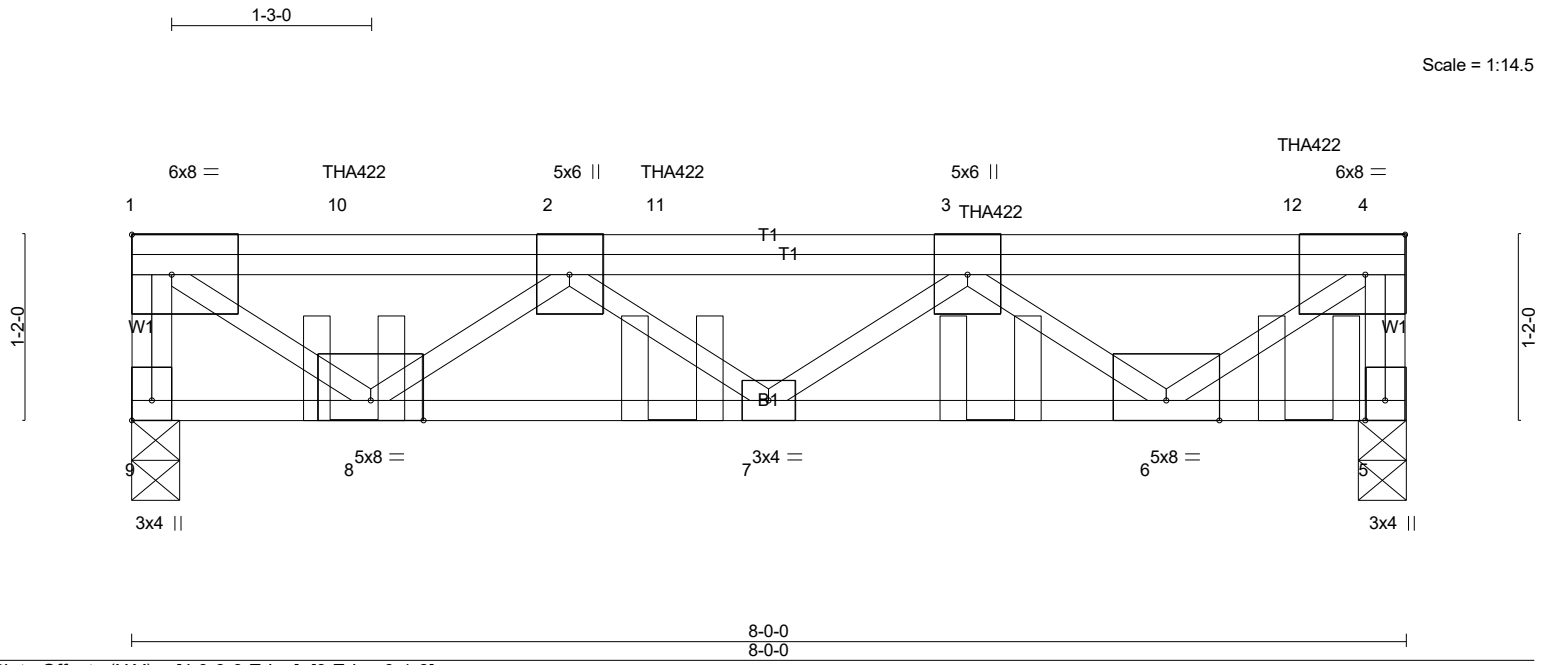

Plate Offsets (X,Y)-- [4:0-3-0,Edge], [9:Edge,0-1-8]

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	0.71	Vert(LL)	-0.05	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.07	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.62	Horz(CT)	0.02	5	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							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.2(flat) *Except*
W1: 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) 9=1651/0-3-8 (min. 0-1-8), 5=1924/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-1642/0, 4-5=-1915/0, 1-10=-1790/0, 2-10=-1790/0, 2-11=-3392/0, 3-11=-3392/0, 3-12=-1771/0, 4-12=-1771/0
BOT CHORD 7-8=0/3394, 6-7=0/3359
WEBS 1-8=0/2197, 2-8=-2038/0, 3-6=-2017/0, 4-6=0/2174

NOTES- (5-8)
1) 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.
2) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-4-12 from the left end to 7-4-12 to connect truss(es) F2-08 (1 ply 2x4 SP) to front face of top chord.
3) Fill all nail holes where hanger is in contact with lumber.
4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
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
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-9=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 3=-674(F) 10=-674(F) 11=-674(F) 12=-700(F)

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-06	Floor	3	1	Job Reference (optional) **# 43967**

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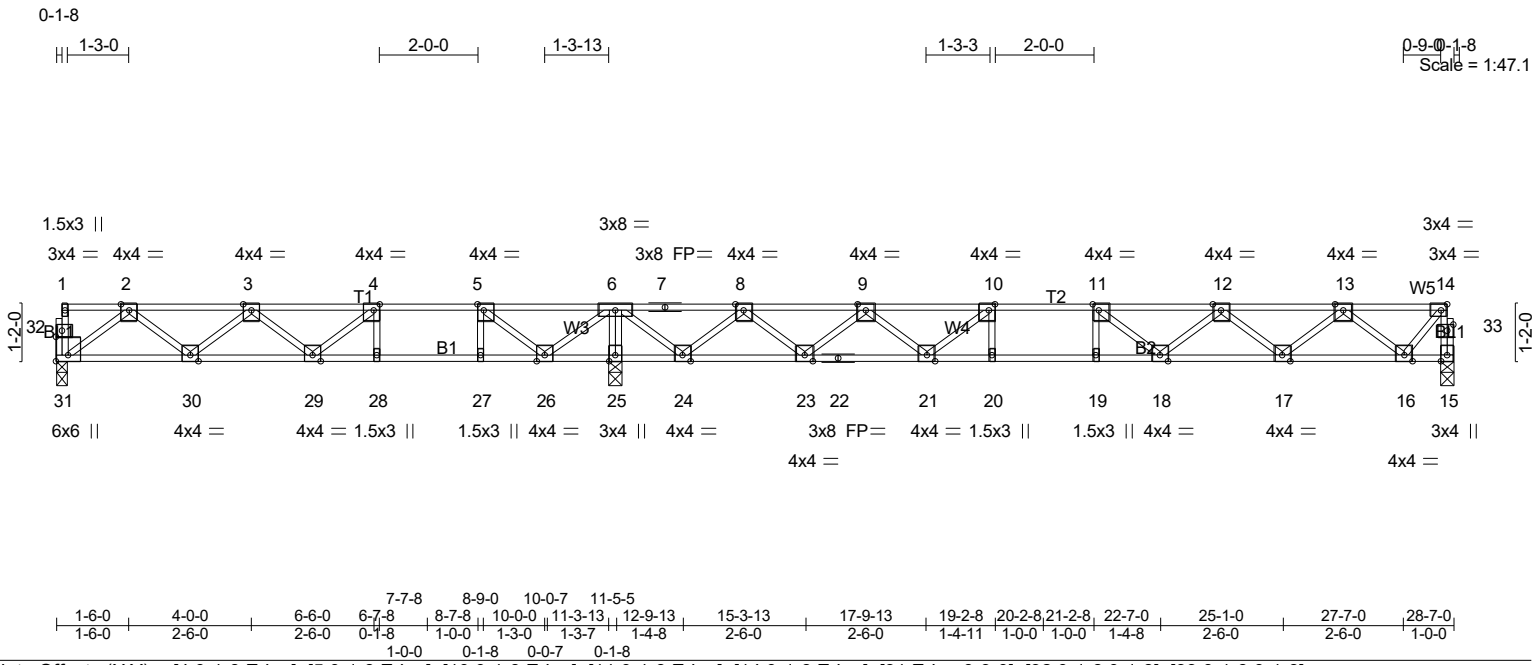

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [14:0-1-8,Edge], [31:Edge,0-3-0], [32:0-1-8,0-1-8], [33:0-1-8,0-1-8]

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	0.60	Vert(LL)	-0.14	19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.81	Vert(CT)	-0.20	19	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.04	15	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 141 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) 31=321/0-3-0 (min. 0-1-8), 15=560/0-3-0 (min. 0-1-8), 25=1188/0-3-8 (min. 0-1-8)
Max Grav 31=389(LC 3), 15=567(LC 7), 25=1188(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 15-33=-567/0, 14-33=-566/0, 2-3=-731/10, 3-4=-979/152, 4-5=-836/389, 5-6=-263/729, 6-7=0/297, 7-8=0/297, 8-9=-1118/0, 9-10=-1825/0, 10-11=-2111/0, 11-12=-1979/0, 12-13=-1431/0, 13-14=-433/0
BOT CHORD 30-31=0/463, 29-30=-39/988, 28-29=-389/836, 27-28=-389/836, 26-27=-389/836, 25-26=-1072/0, 24-25=-1074/0, 23-24=0/645, 22-23=0/1565, 21-22=0/1565, 20-21=0/2111, 19-20=0/2111, 18-19=0/2111, 17-18=0/1814, 16-17=0/1031
WEBS 4-28=-272/0, 5-27=0/307, 6-25=-1120/0, 2-31=-579/0, 2-30=-20/348, 3-30=-334/37, 4-29=0/410, 5-26=-920/0, 6-26=0/688, 6-24=0/979, 8-24=-925/0, 8-23=0/648, 9-23=-611/0, 9-21=0/365, 10-21=-468/0, 11-18=-305/37, 12-18=0/262, 12-17=-498/0, 13-17=0/521, 13-16=-778/0, 14-16=0/650

NOTES- (4)
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.

LOAD CASE(S) Standard

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-07	Floor	1	1	Job Reference (optional) **# 43967**

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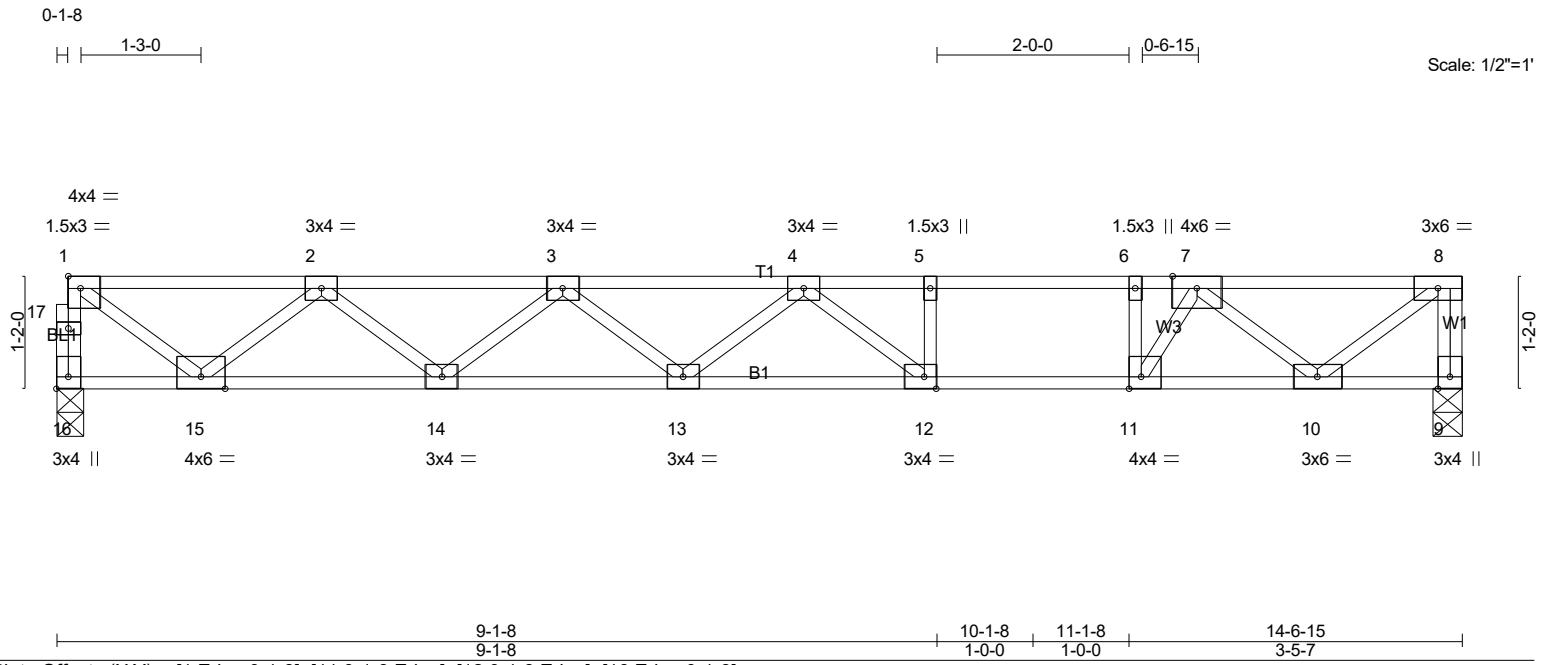

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [11:0-1-8,Edge], [12:0-1-8,Edge], [16:Edge,0-1-8]

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	0.79	Vert(LL)	-0.26	12-13	>671	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.35	12-13	>487	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 73 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP SS(flat)
BOT CHORD 2x4 SP SS(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=782/0-3-8 (min. 0-1-8), 9=788/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-17=-779/0, 1-17=-777/0, 8-9=-752/0, 1-2=-896/0, 2-3=-2102/0, 3-4=-2679/0, 4-5=-2263/0, 5-6=-2263/0, 6-7=-2263/0, 7-8=-841/0
BOT CHORD 14-15=0/1673, 13-14=0/2528, 12-13=0/2706, 11-12=0/2263, 10-11=0/1735
WEBS 6-11=-739/0, 1-15=0/1085, 2-15=-1011/0, 2-14=0/559, 3-14=-554/0, 4-12=-646/8, 8-10=0/1055, 7-10=-1163/0, 7-11=0/1170

NOTES- (4)
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.

LOAD CASE(S) Standard

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-08	Floor	4	1	Job Reference (optional) **# 43967**

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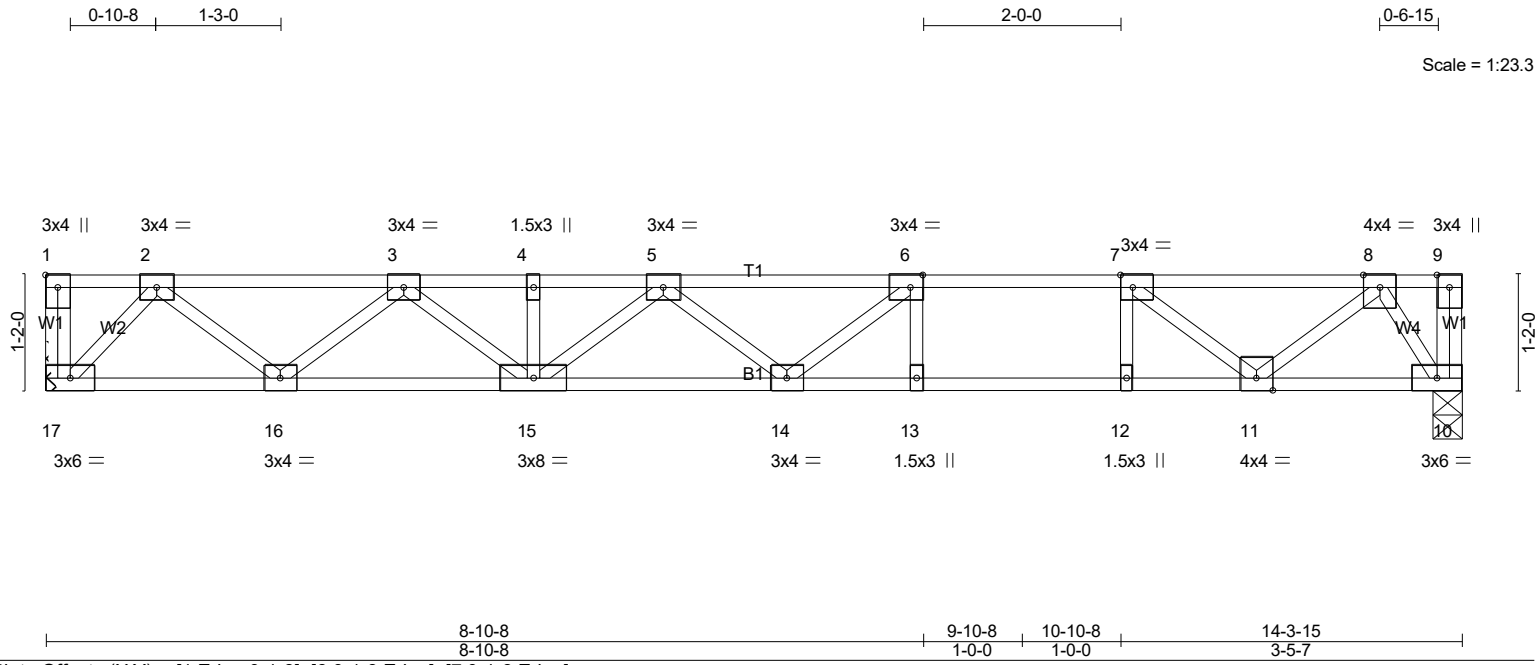

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [7:0-1-8,Edge]

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	0.82	Vert(LL)	-0.27	13-14	>632	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.90	Vert(CT)	-0.36	13-14	>467	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 74 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-2-11 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 17=774/Mechanical, 10=774/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1373/0, 3-4=-2327/0, 4-5=-2327/0, 5-6=-2562/0, 6-7=-2205/0, 7-8=-1212/0
BOT CHORD 16-17=0/725, 15-16=0/1983, 14-15=0/2651, 13-14=0/2205, 12-13=0/2205, 11-12=0/2205, 10-11=0/478
WEBS 6-13=-392/0, 7-12=0/426, 6-14=-25/557, 5-15=-414/0, 3-15=0/439, 3-16=-794/0, 2-16=0/843, 7-11=-1267/0, 8-11=0/956, 8-10=-855/0, 2-17=-1047/0

NOTES- (4)
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.

LOAD CASE(S) Standard

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-09	Floor	4	1	Job Reference (optional) **# 43967**

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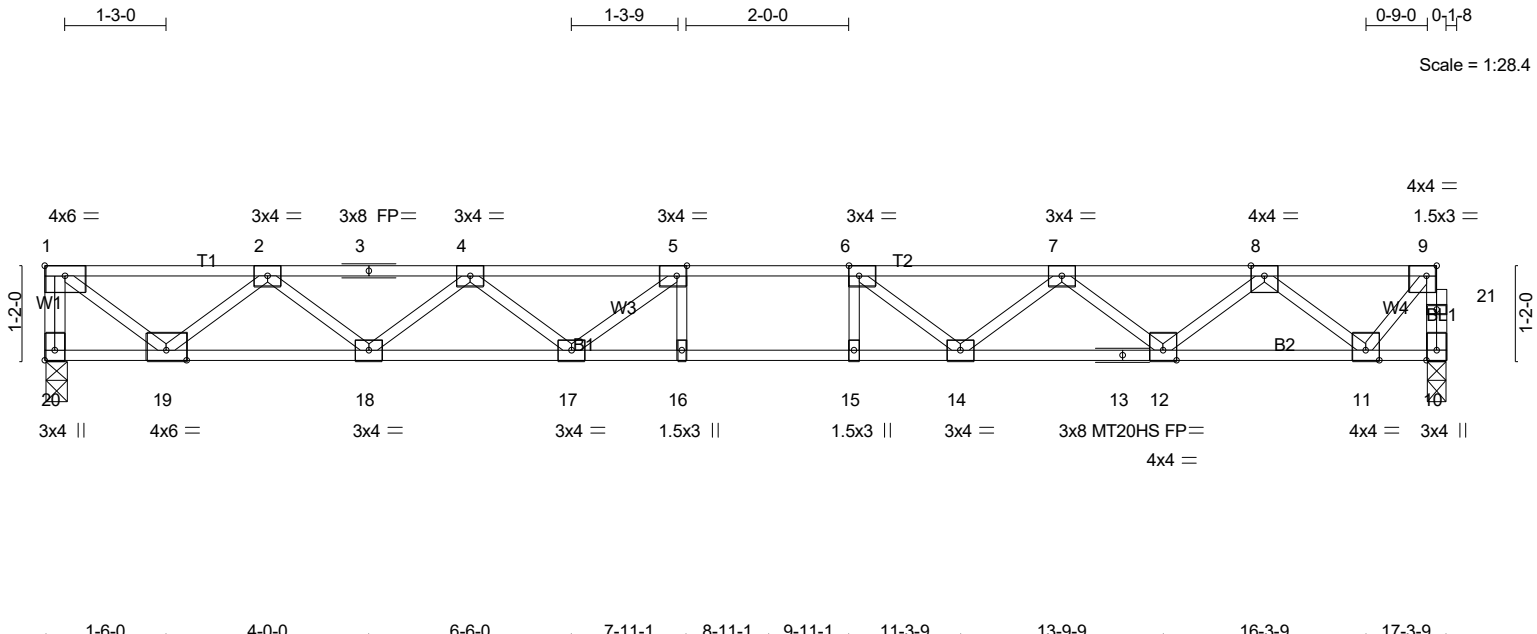

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [9:0-1-8,Edge], [20:Edge,0-1-8]

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	0.55	Vert(LL)	-0.25	16	>833	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.34	16	>606	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.65	Horz(CT)	0.06	10	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 86 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) 20=938/0-3-8 (min. 0-1-8), 10=931/0-3-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-20=-931/0, 10-21=-930/0, 9-21=-929/0, 1-2=-1087/0, 2-3=-2670/0, 3-4=-2670/0, 4-5=-3544/0, 5-6=-3800/0, 6-7=-3421/0, 7-8=-2405/0, 8-9=-717/0
BOT CHORD 18-19=0/2050, 17-18=0/3262, 16-17=0/3800, 15-16=0/3800, 14-15=0/3800, 13-14=0/3064, 12-13=0/3064, 11-12=0/1713
WEBS 1-19=0/1363, 2-19=-1254/0, 2-18=0/807, 4-18=-770/0, 4-17=0/467, 5-17=-588/40, 6-14=-699/0, 7-14=0/539, 7-12=-857/0, 8-12=0/902, 8-11=-1296/0, 9-11=0/1076

NOTES- (5)
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) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-09A	Floor	1	1	Job Reference (optional) **# 43967**

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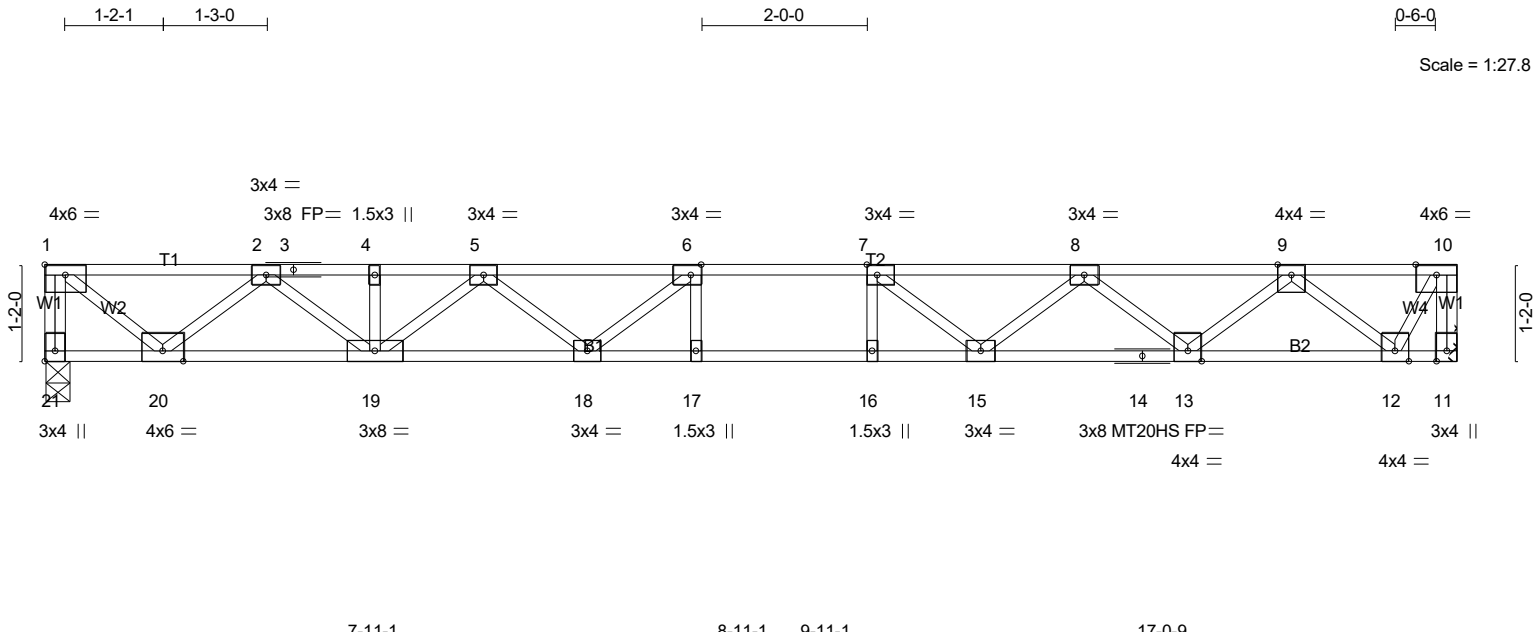

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [7:0-1-8,Edge], [21:Edge,0-1-8]

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	0.52	Vert(LL)	-0.24	17	>847	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.65	Vert(CT)	-0.33	17	>616	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.62	Horz(CT)	0.05	11	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 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) 21=924/0-3-8 (min. 0-1-8), 11=924/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-21=-918/0, 10-11=-923/0, 1-2=-1012/0, 2-3=-2620/0, 3-4=-2620/0, 4-5=-2620/0, 5-6=-3470/0, 6-7=-3684/0, 7-8=-3275/0, 8-9=-2224/0, 9-10=-512/0
BOT CHORD 19-20=0/1962, 18-19=0/3208, 17-18=0/3684, 16-17=0/3684, 15-16=0/3684, 14-15=0/2900, 13-14=0/2900, 12-13=0/1513
WEBS 6-18=-549/70, 5-18=0/451, 5-19=-751/0, 2-19=0/840, 2-20=-1236/0, 1-20=0/1298, 7-15=-718/0, 8-15=0/551, 8-13=-880/0, 9-13=0/926, 9-12=-1304/0, 10-12=0/994

NOTES- (5-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are MT20 plates unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
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

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-10	Floor	1	1	Job Reference (optional) **# 43967**

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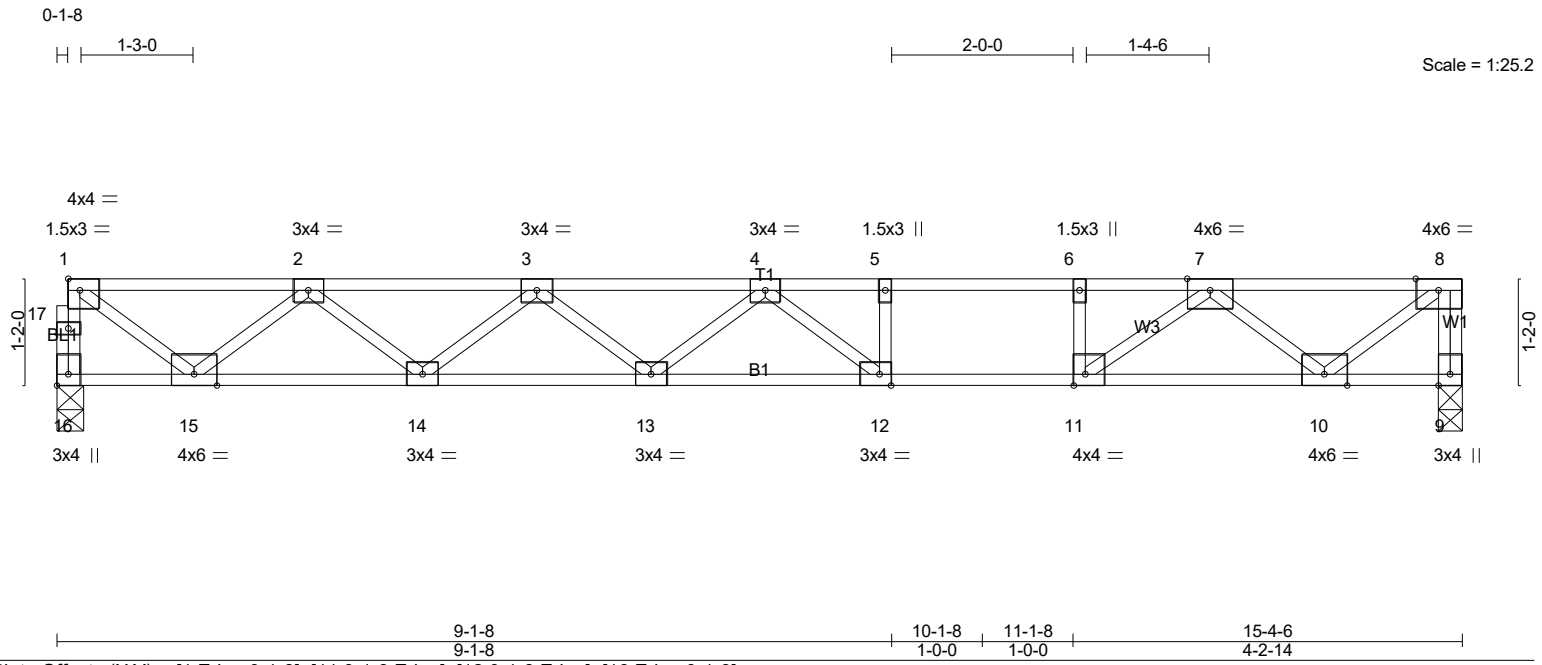

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [11:0-1-8,Edge], [12:0-1-8,Edge], [16:Edge,0-1-8]

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	0.99	Vert(LL)	-0.30	12-13	>609	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.76	Vert(CT)	-0.41	12-13	>445	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.04	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 77 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 16=825/0-3-8 (min. 0-1-8), 9=831/0-3-2 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 16-17=-822/0, 1-17=-821/0, 8-9=-796/0, 1-2=-953/0, 2-3=-2263/0, 3-4=-2943/0, 4-5=-2654/0, 5-6=-2654/0, 6-7=-2654/0, 7-8=-892/0
BOT CHORD 14-15=0/1782, 13-14=0/2741, 12-13=0/3018, 11-12=0/2654, 10-11=0/1786
WEBS 6-11=-452/0, 1-15=0/1154, 2-15=-1078/0, 2-14=0/627, 3-14=-623/0, 3-13=0/262, 4-12=-586/92, 8-10=0/1119, 7-10=-1164/0, 7-11=0/1165

NOTES- (4)
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.

LOAD CASE(S) Standard

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-11	Floor	1	1	Job Reference (optional) **# 43967**

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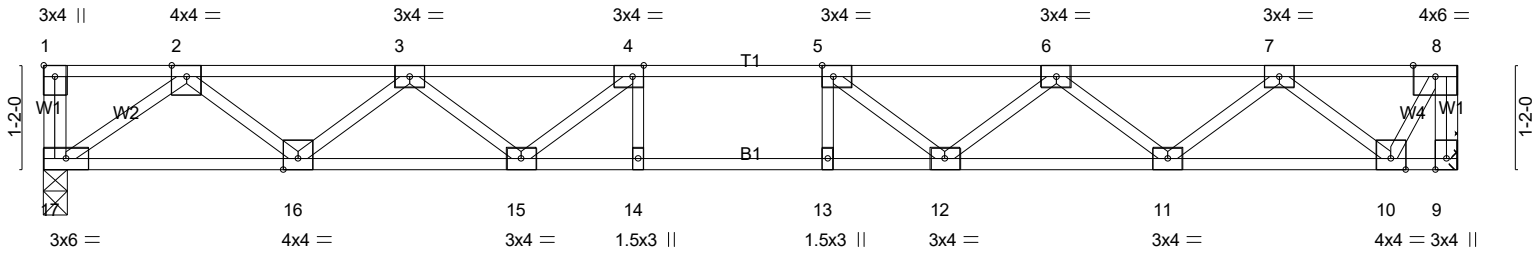

6-8-11 7-8-11 8-8-11 15-10-3
6-8-11 1-0-0 1-0-0 7-1-8

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

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	0.44	Vert(LL)	-0.18	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.25	12-13	>742	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.05	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 80 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) 9=858/Mechanical, 17=858/0-3-2 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-859/0, 2-3=-1822/0, 3-4=-2823/0, 4-5=-3180/0, 5-6=-2921/0, 6-7=-2028/0, 7-8=-473/0
BOT CHORD 16-17=0/1129, 15-16=0/2479, 14-15=0/3180, 13-14=0/3180, 12-13=0/3180, 11-12=0/2635, 10-11=0/1393
WEBS 4-15=-637/0, 3-15=0/506, 3-16=-854/0, 2-16=0/902, 2-17=-1382/0, 5-12=-551/0, 6-12=0/453, 6-11=-790/0, 7-11=0/827, 7-10=-1198/0, 8-10=0/918

NOTES- (4-7)
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) 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

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-12	Floor	1	1	Job Reference (optional) **# 43967**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 9 10:04:16 2024 Page 1
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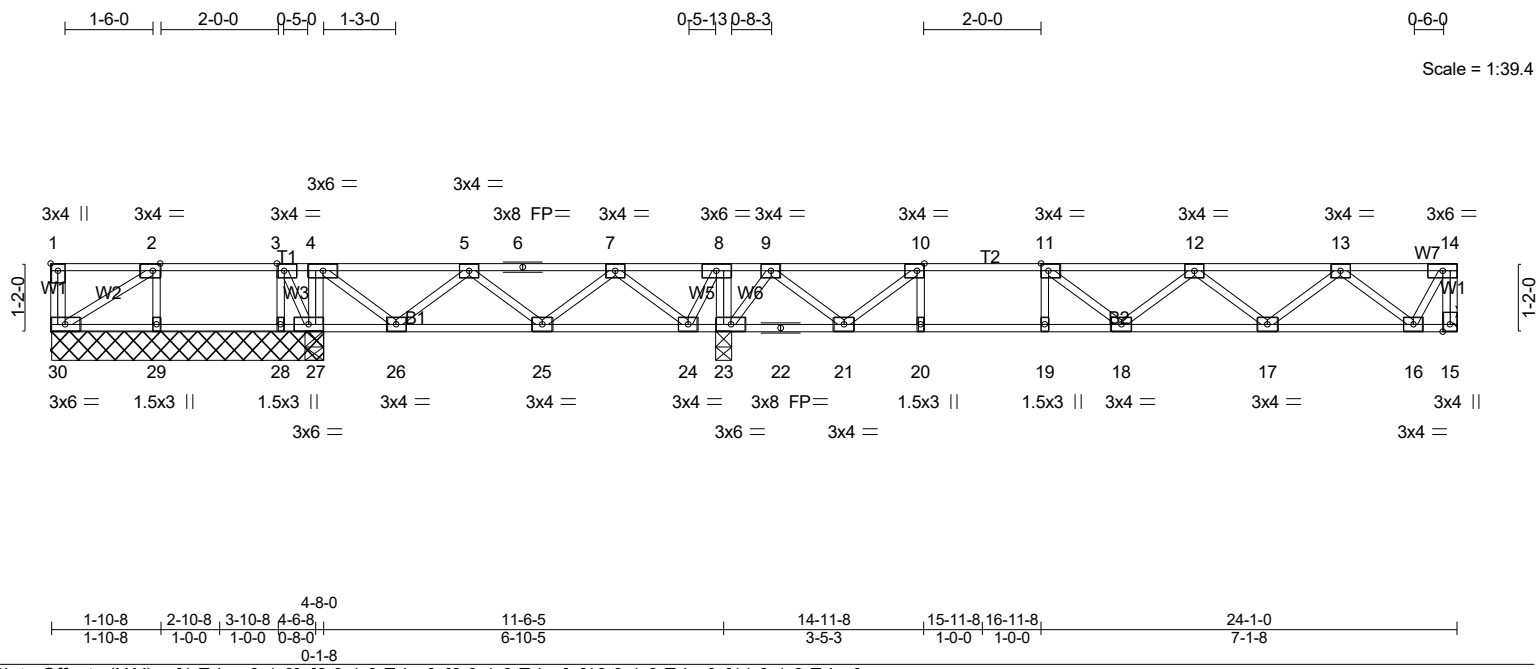


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

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	0.41	Vert(LL)	-0.12	18-19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.17	18-19	>904	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 125 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)

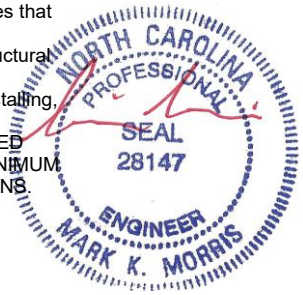
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 4-8-0 except (jt=length) 15=Mechanical, 23=0-3-8.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 30 except 28=-149(LC 6)
Max Grav All reactions 250 lb or less at joint(s) 30, 29, 28 except 15=442(LC 5), 27=495(LC 14), 27=430(LC 1), 23=744(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 14-15=-445/0, 5-6=-308/0, 6-7=-308/0, 8-9=-4/372, 9-10=-585/0, 10-11=-1125/0, 11-12=-1241/0, 12-13=-964/0
BOT CHORD 25-26=0/307, 24-25=-39/287, 23-24=-372/4, 20-21=0/1125, 19-20=0/1125, 18-19=0/1125, 17-18=0/1231, 16-17=0/690
WEBS 4-27=-317/0, 8-23=-298/0, 4-26=0/313, 5-26=-281/0, 7-24=-357/0, 8-24=0/262, 10-21=-706/0, 9-21=0/544, 9-23=-533/0, 12-17=-347/0, 13-17=0/357, 13-16=-589/0, 14-16=0/461

NOTES- (6-9)
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 100 lb uplift at joint(s) 30 except (jt=lb) 28=149.
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) 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.
7) 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.
8) 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.
9) 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



1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-13	Floor	2	1	Job Reference (optional) **# 43967**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 9 10:04:16 2024 Page 1
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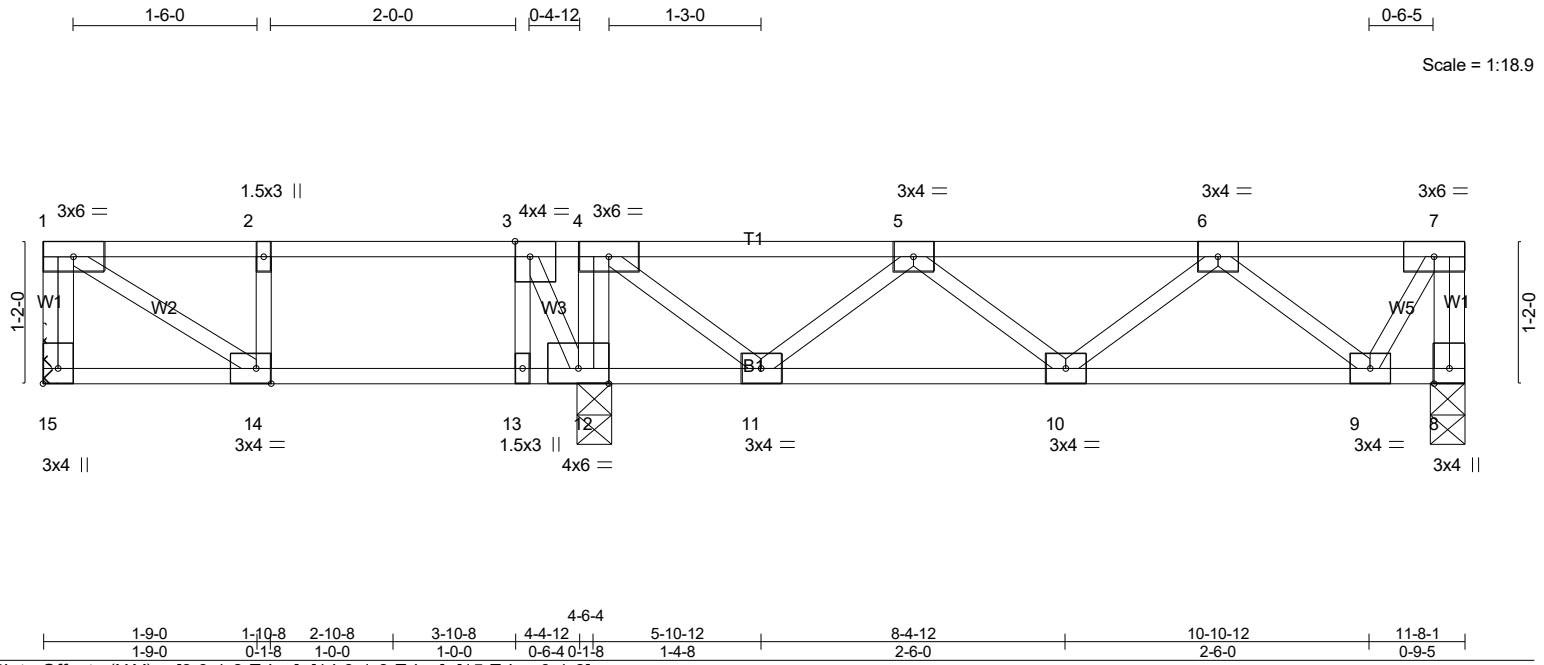

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [14:0-1-8,Edge], [15:Edge,0-1-8]

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	0.14	Vert(LL)	-0.01	14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.11	Vert(CT)	-0.01	14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.13	Horz(CT)	0.00	8	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 63 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=182/Mechanical, 8=271/0-3-8 (min. 0-1-8), 12=384/0-3-8 (min. 0-1-8)
Max Grav 15=189(LC 3), 8=272(LC 7), 12=395(LC 8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-273/0, 4-5=-330/0, 5-6=-458/0
BOT CHORD 10-11=0/500, 9-10=0/395
WEBS 4-12=-294/0, 1-14=0/255, 4-11=0/279, 6-9=-331/0, 7-9=0/265

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

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-14	Floor	1	1	Job Reference (optional) **# 43967**

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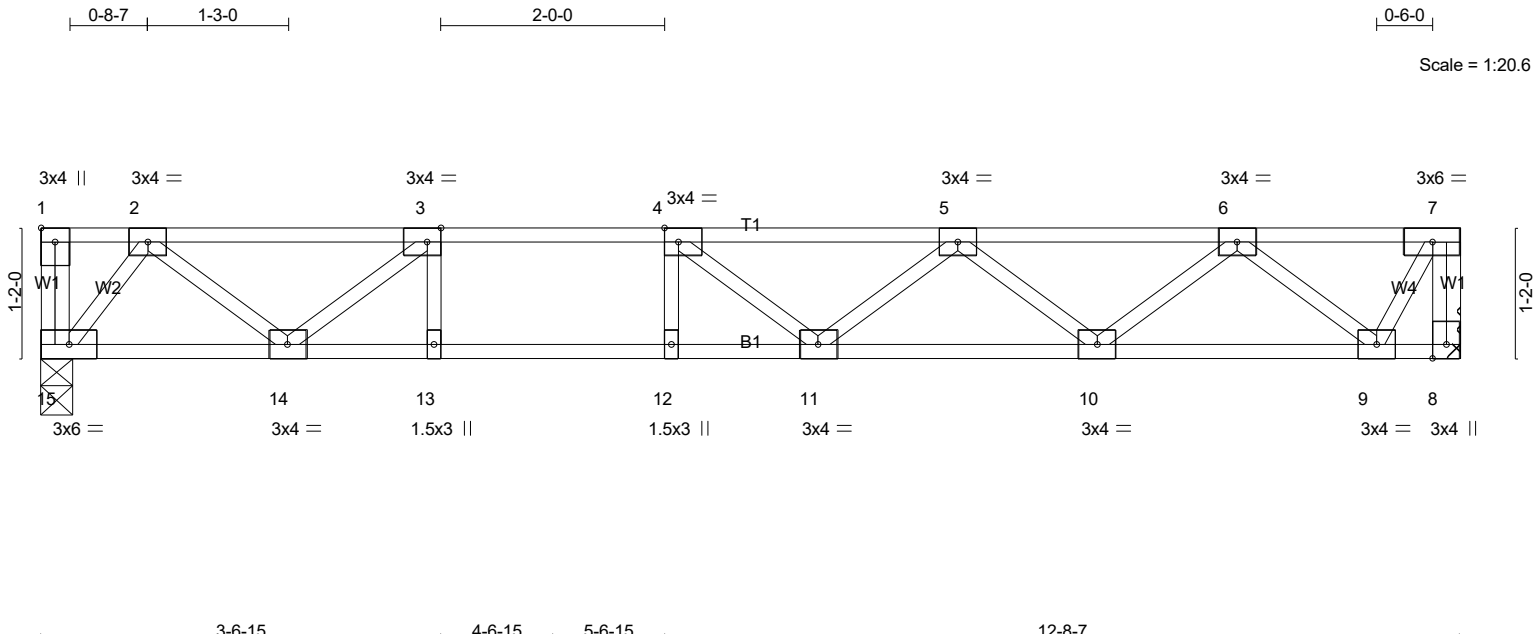

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge]

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	0.41	Vert(LL)	-0.12	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.16	11-12	>907	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.25	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 65 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) 8=457/Mechanical, 15=457/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 7-8=-460/0, 2-3=-738/0, 3-4=-1239/0, 4-5=-1323/0, 5-6=-1009/0
BOT CHORD 14-15=0/339, 13-14=0/1239, 12-13=0/1239, 11-12=0/1239, 10-11=0/1292, 9-10=0/717
WEBS 3-14=-641/0, 2-14=0/519, 2-15=-544/0, 5-10=-368/0, 6-10=0/380, 6-9=-613/0, 7-9=0/479

NOTES- (4-7)
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) 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

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-15	Floor	1	1	Job Reference (optional) **# 43967**

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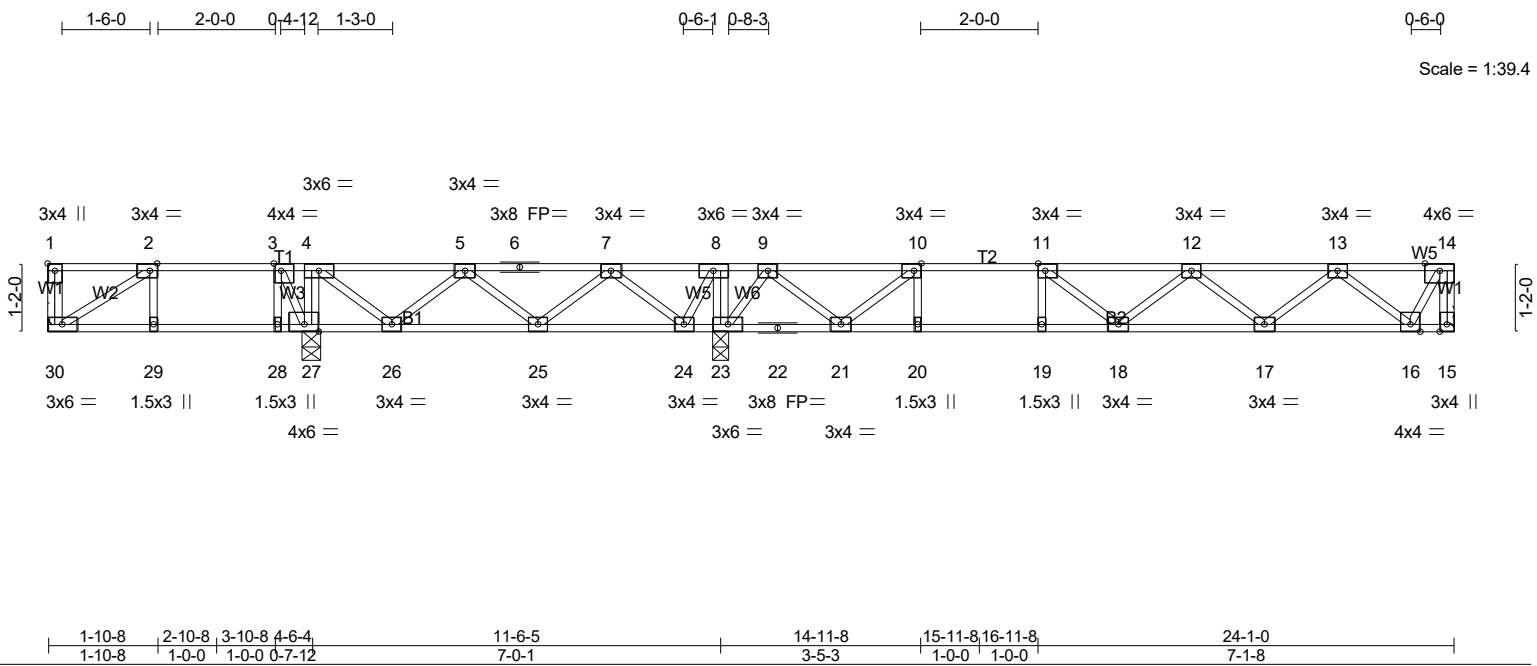

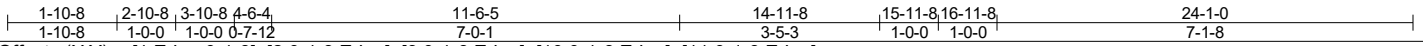

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [2:0-1-8,Edge], [3:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

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	0.60	Vert(LL)	-0.17	18-19	>861	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.23	18-19	>638	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.02	15	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 125 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP No.1(flat) *Except*
B2: 2x4 SP SS(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: 24-25,23-24,21-23.

REACTIONS. All bearings Mechanical except (jt=length) 27=0-3-8, 23=0-3-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) except 30=287(LC 5), 15=660(LC 5), 27=559(LC 14), 23=1186(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 14-15=-665/0, 2-3=-333/0, 4-5=-471/0, 5-6=-627/0, 6-7=-627/0, 7-8=-132/348, 8-9=0/588, 9-10=-853/0, 10-11=-1671/0, 11-12=-1853/0, 12-13=-1439/0, 13-14=-355/0
BOT CHORD 29-30=0/333, 28-29=0/333, 27-28=0/333, 25-26=0/711, 24-25=-13/510, 23-24=-588/0, 20-21=0/1671, 19-20=0/1671, 18-19=0/1671, 17-18=0/1836, 16-17=0/1031
WEBS 10-20=0/324, 11-19=-287/0, 4-27=-407/0, 8-23=-508/0, 2-30=-391/0, 3-27=-282/0, 4-26=0/361, 5-26=-312/22, 7-25=0/277, 7-24=-626/0, 8-24=0/465, 10-21=-1074/0, 9-21=0/816, 9-23=-805/0, 11-18=0/306, 12-17=-517/0, 13-17=0/531, 13-16=-880/0, 14-16=0/690

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

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-16	Floor	3	1	Job Reference (optional) **# 43967**

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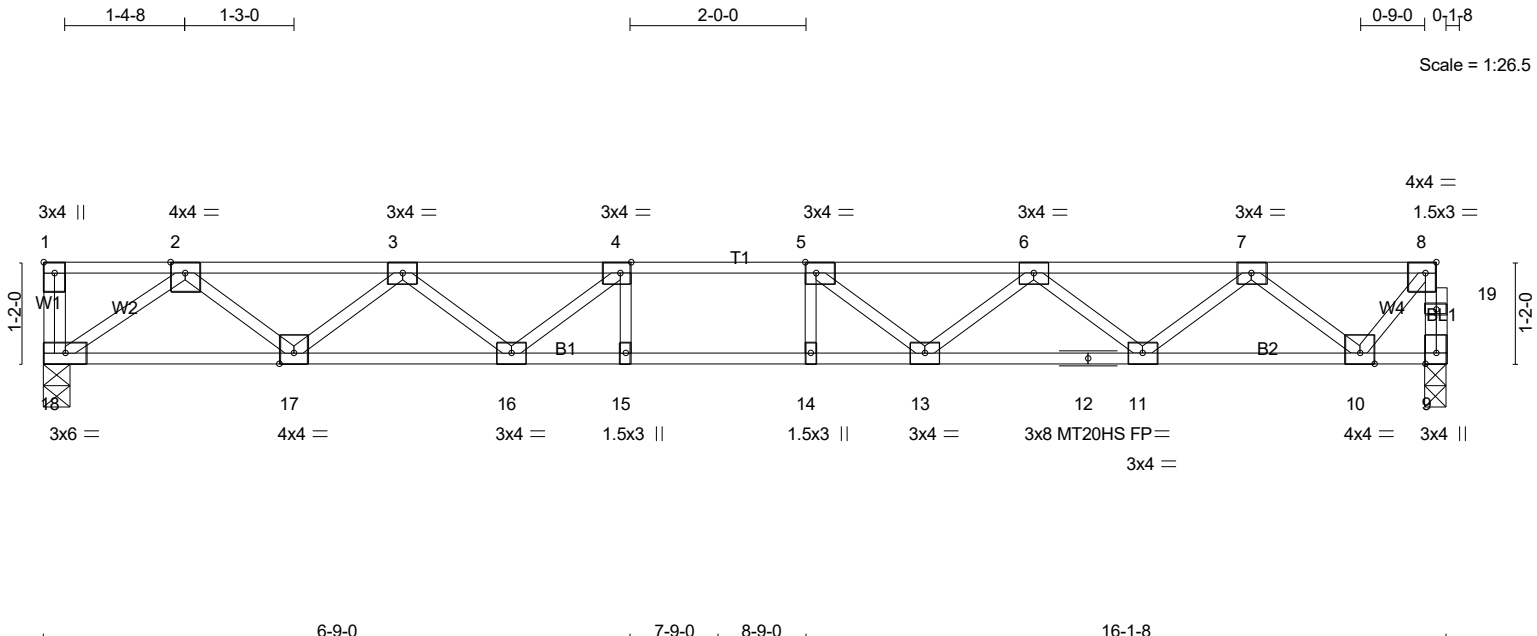

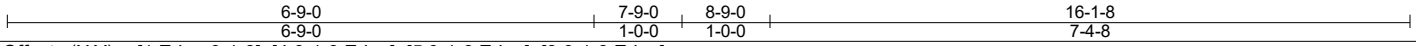

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge], [8:0-1-8,Edge]

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	0.48	Vert(LL)	-0.20	14	>950	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.92	Vert(CT)	-0.28	14	>691	360	MT20HS	187/143
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.05	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 81 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: 14-15.

REACTIONS. (lb/size) 18=873/0-3-8 (min. 0-1-8), 9=867/0-3-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 9-19=-866/0, 8-19=-865/0, 2-3=-1875/0, 3-4=-2905/0, 4-5=-3290/0, 5-6=-3058/0, 6-7=-2198/0, 7-8=-664/0
BOT CHORD 17-18=0/1167, 16-17=0/2544, 15-16=0/3290, 14-15=0/3290, 13-14=0/3290, 12-13=0/2789, 11-12=0/2789, 10-11=0/1579
WEBS 4-16=-669/0, 3-16=0/527, 3-17=-871/0, 2-17=0/921, 2-18=-1421/0, 5-13=-535/26, 6-13=0/443, 6-11=-769/0, 7-11=0/805, 7-10=-1192/0, 8-10=0/994

NOTES- (5)
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) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-16A	Floor	5	1	Job Reference (optional) **# 43967**

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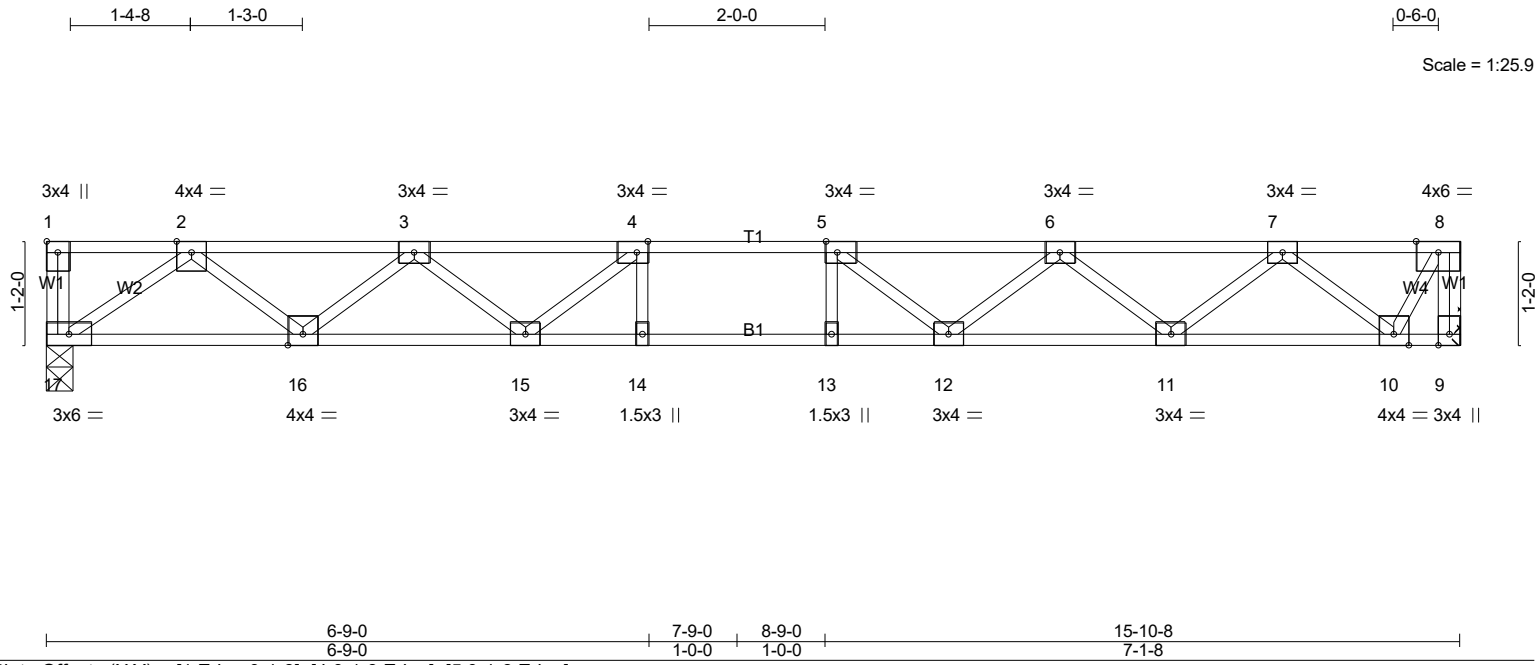

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge]

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	0.44	Vert(LL)	-0.18	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.86	Vert(CT)	-0.25	13	>741	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.05	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 80 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) 9=859/Mechanical, 17=859/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-860/0, 2-3=-1839/0, 3-4=-2836/0, 4-5=-3190/0, 5-6=-2928/0, 6-7=-2032/0, 7-8=-473/0
BOT CHORD 16-17=0/1147, 15-16=0/2493, 14-15=0/3190, 13-14=0/3190, 12-13=0/3190, 11-12=0/2640, 10-11=0/1395
WEBS 4-15=-635/0, 3-15=0/505, 3-16=-852/0, 2-16=0/901, 2-17=-1396/0, 5-12=-554/0, 6-12=0/455, 6-11=-791/0, 7-11=0/829, 7-10=-1200/0, 8-10=0/920

NOTES- (4-7)
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) 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

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-17	Floor Supported Gable	1	1	Job Reference (optional) **# 43967**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 9 10:04:18 2024 Page 1
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0-1-8

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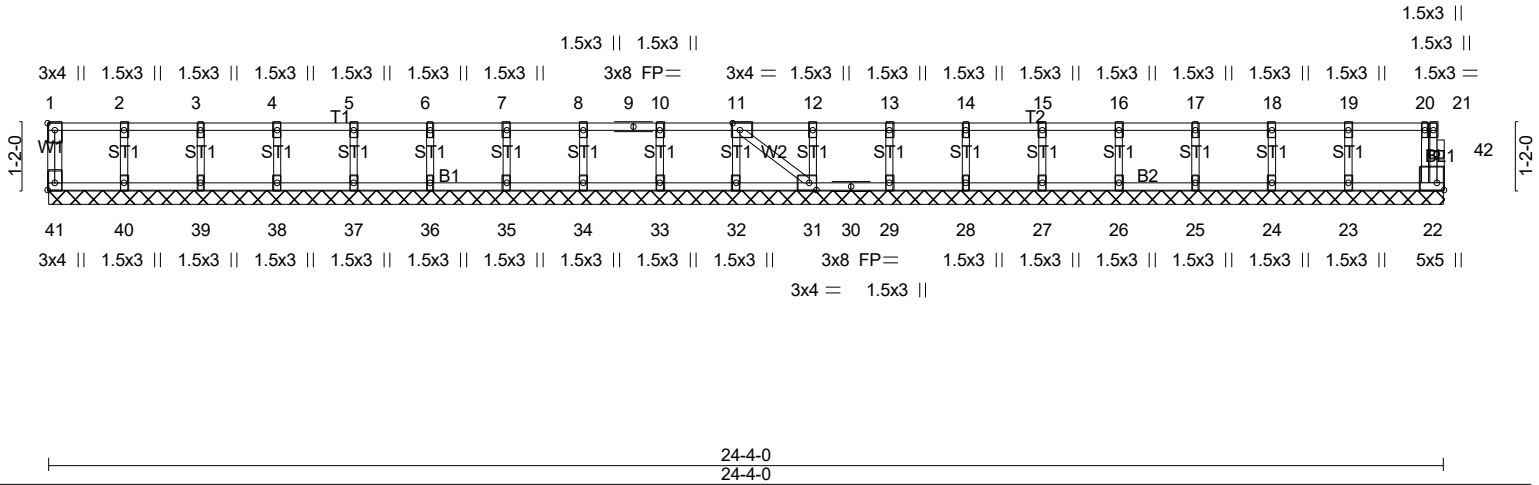

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [11:0-1-8,Edge], [22:Edge,0-1-8], [31:0-1-8,Edge], [41:Edge,0-1-8]

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	22	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)
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 24-4-0.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 41, 22, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 29, 28, 27, 26, 25, 24, 23

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

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-18	Floor	11	1	Job Reference (optional) **# 43967**

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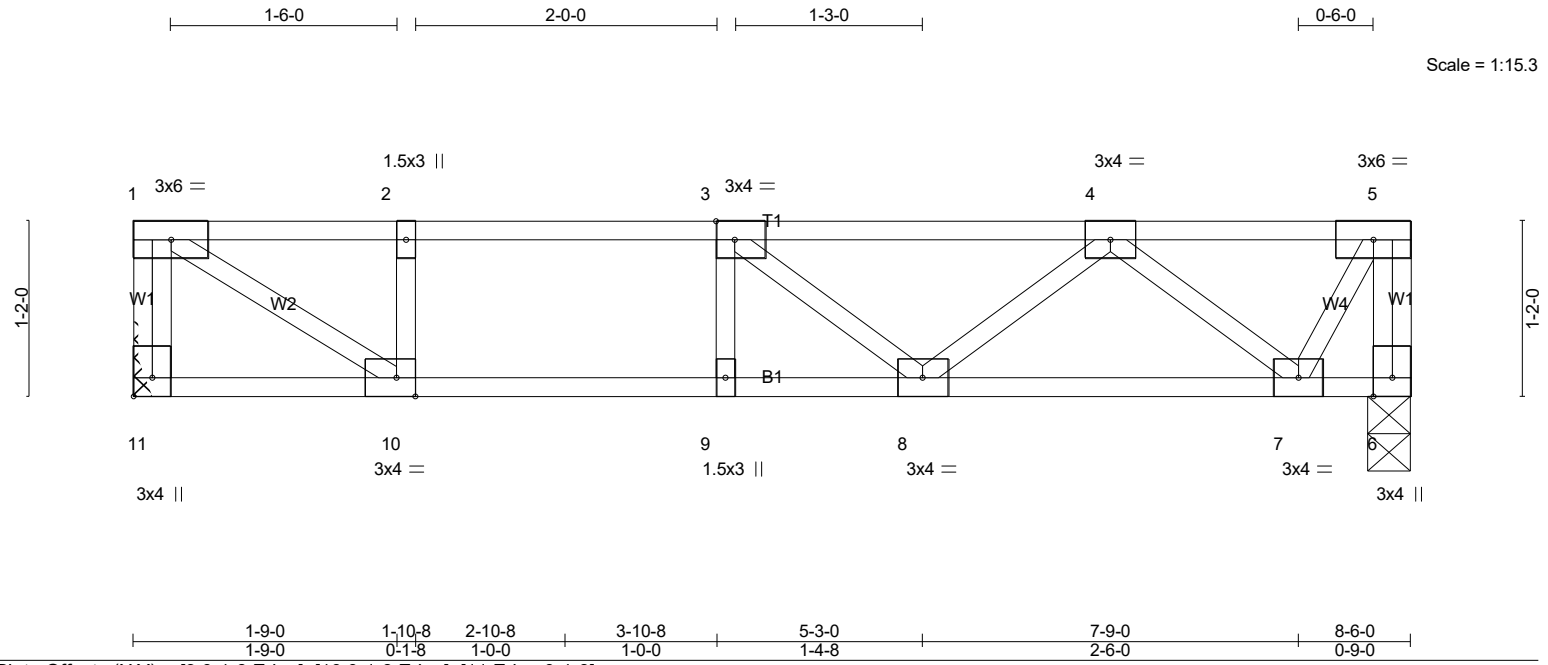

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [10:0-1-8,Edge], [11:Edge,0-1-8]

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	0.32	Vert(LL)	-0.07	8-9	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.09	8-9	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.00	6	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 45 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) 11=302/Mechanical, 6=302/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-11=-331/0, 5-6=-296/0, 1-2=-516/0, 2-3=-516/0, 3-4=-539/0
BOT CHORD 9-10=0/516, 8-9=0/516, 7-8=0/466
WEBS 1-10=0/607, 4-7=-404/0, 5-7=0/301

NOTES- (4)
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.

LOAD CASE(S) Standard

1/6/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND | 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F2-19	Floor Supported Gable	1	1	Job Reference (optional) **# 43967**

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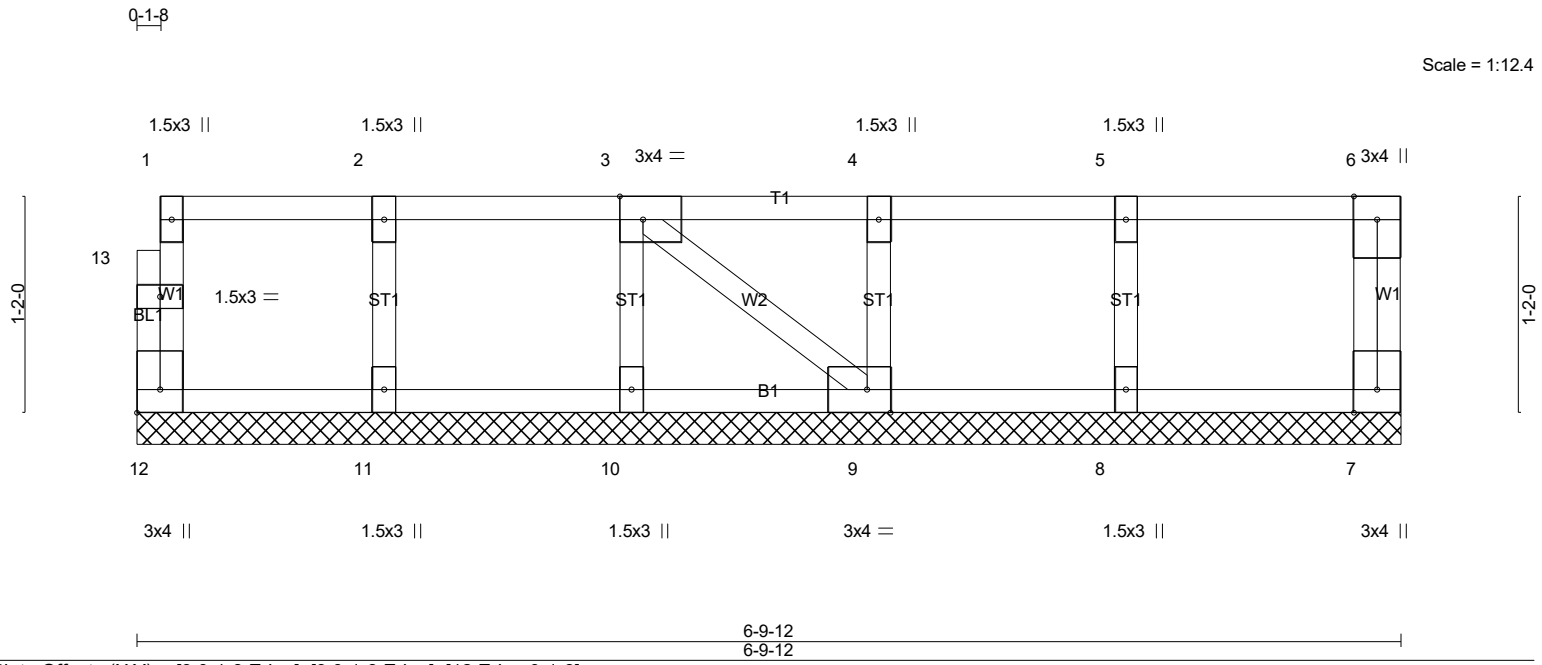

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [9:0-1-8,Edge], [12:Edge,0-1-8]

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	0.07	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	7	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 33 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 6-9-12.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 12, 7, 11, 10, 9, 8

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

1/6/2024