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 #: 44209
JOB: 23-B587-F02
JOB NAME: LOT 0.0098 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.
23 Truss Design(s)

Trusses:
F2-00, F2-01, F2-02, F2-03, F2-04, F2-05, F2-06, F2-07, F2-08, F2-09, F2-10, F2-11, F2-12, F2-13, F2-14, F2-15, F2-16, F2-17, F2-18, F2-19, F2-20, F2-21, F2-22

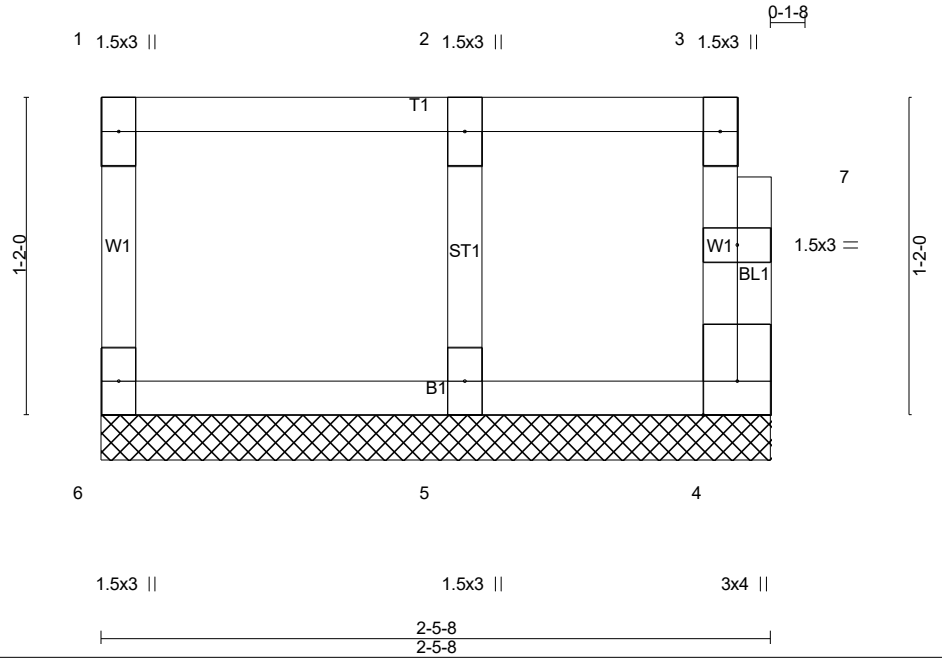
1/16/2024
Mark Morris

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*

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-00	Floor Supported Gable	1	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:04 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-Vxi3WdRsH67KZFwBKHvt_Y03SALtRnJuYfiqG7zuhDH



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	4	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-R							Weight: 12 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 2-5-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=66/2-5-8 (min. 0-1-8), 4=44/2-5-8 (min. 0-1-8), 5=134/2-5-8 (min. 0-1-8)

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

NOTES- (7-8)
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) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

LOAD CASE(S) Standard

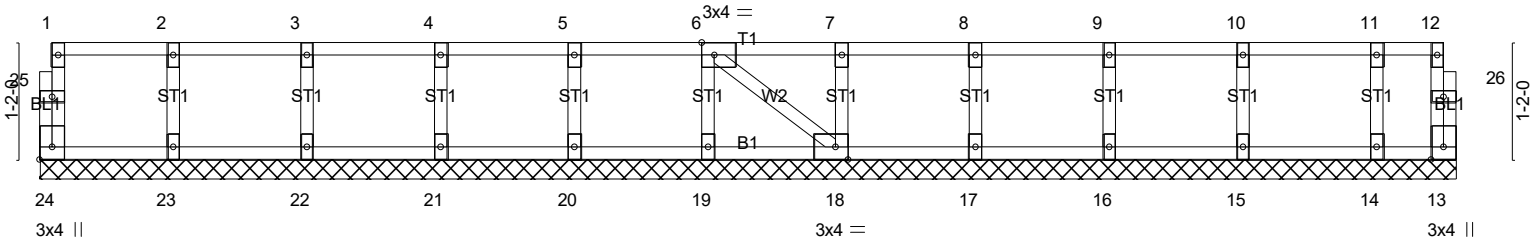
1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-01	Floor Supported Gable	1	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:05 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-z7GSkzRV2QFBBPVNt_Q6XmYFKahAAEW1nJRNoazuhDG

0-1-8 0-1-8

Scale = 1:23.0



1-4-0	2-8-0	4-0-0	5-4-0	6-8-0	8-0-0	9-4-0	10-8-0	12-0-0	13-4-0	14-1-8
1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	1-4-0	0-9-8

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [18:0-1-8,Edge], [24: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	13	n/a	n/a		
BCDL	5.0	Code IRC2018/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)
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 14-1-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 23, 22, 21, 20, 19, 18, 17, 16, 15, 14

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

NOTES- (7-8)
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) 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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-02	Floor	5	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:06 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-RJqqxJS7pjN2pZ3ZRixL4z5LC_uUvaUB0zBxK0zuhDF

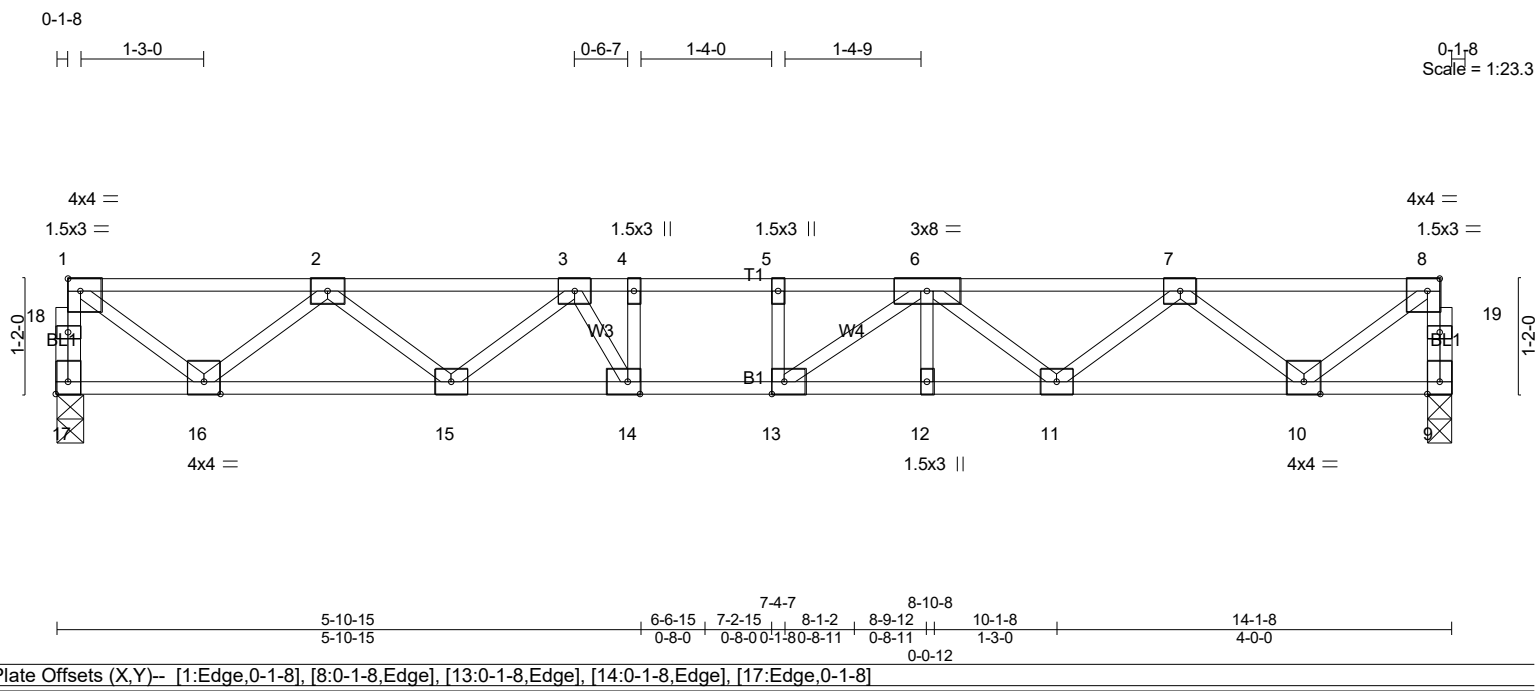


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [8:0-1-8,Edge], [13:0-1-8,Edge], [14:0-1-8,Edge], [17:Edge,0-1-8]

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	0.37	Vert(LL)	-0.12	13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.58	Vert(CT)	-0.17	13	>995	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code IRC2018/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)

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) 17=757/0-3-8 (min. 0-1-8), 9=757/0-3-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 17-18=-753/0, 1-18=-752/0, 9-19=-752/0, 8-19=-751/0, 1-2=-864/0, 2-3=-2010/0, 3-4=-2503/0, 4-5=-2503/0, 5-6=-2503/0, 6-7=-2014/0, 7-8=-863/0
BOT CHORD 15-16=0/1615, 14-15=0/2394, 13-14=0/2503, 12-13=0/2411, 11-12=0/2411, 10-11=0/1615
WEBS 4-14=-298/41, 1-16=0/1045, 2-16=-978/0, 2-15=0/515, 3-15=-500/0, 3-14=-86/469, 8-10=0/1044, 7-10=-980/0, 7-11=0/519, 6-11=-507/0, 6-13=-143/393

NOTES- (5-6)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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 web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-03	Floor	4	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:07 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-vVOC9eTla1VvQjem?PSacBdWOOGqe2eKFdwUtSzuhDE

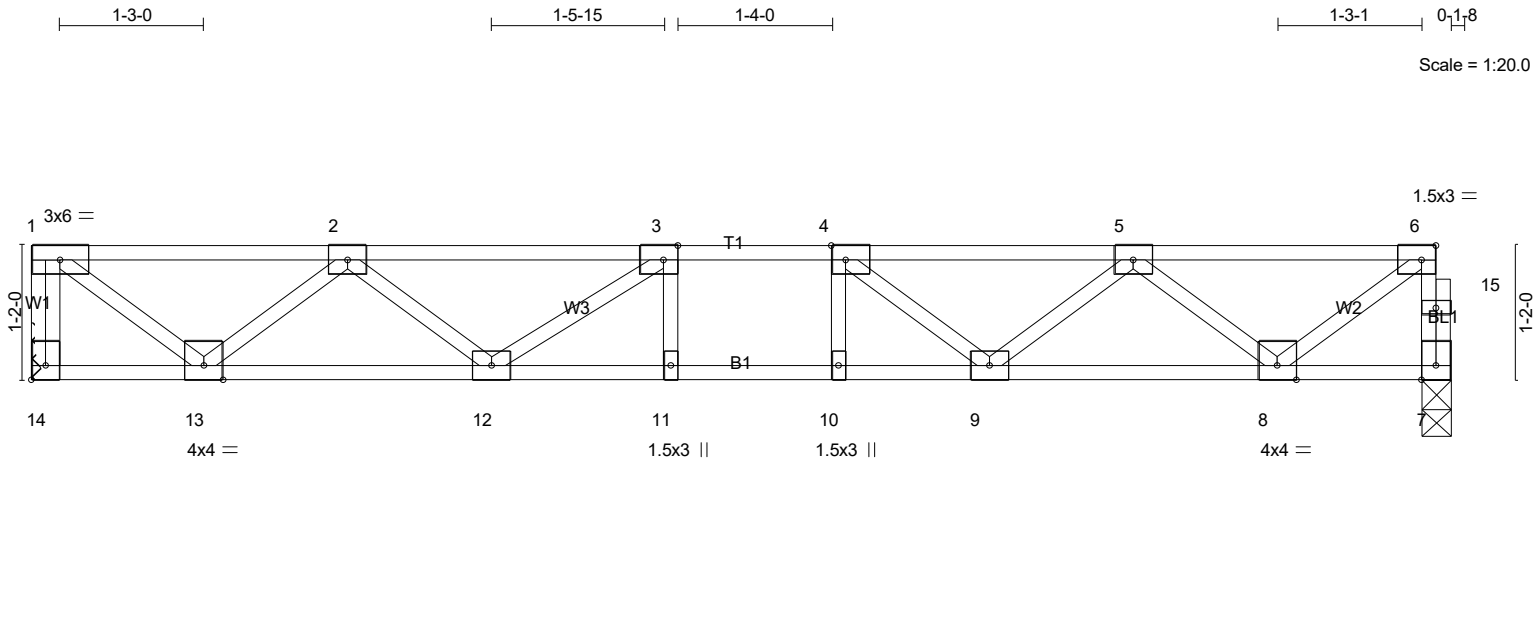


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [6:0-1-8,Edge], [14:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.34	Vert(LL)	-0.07	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.10	11-12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	7	n/a	n/a		
BCDL	5.0	Code IRC2018/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) 14=665/Mechanical, 7=658/0-3-0 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-14=-658/0, 7-15=-654/0, 6-15=-653/0, 1-2=-735/0, 2-3=-1643/0, 3-4=-1924/0, 4-5=-1648/0, 5-6=-736/0
BOT CHORD 12-13=0/1380, 11-12=0/1924, 10-11=0/1924, 9-10=0/1924, 8-9=0/1371
WEBS 1-13=0/922, 2-13=-840/0, 2-12=0/354, 3-12=-434/0, 4-9=-448/0, 5-9=0/379, 5-8=-826/0, 6-8=0/889

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-04	Floor	1	1	**# 44209**
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:08 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-NiyaM_UNLLdm2tDyZ7_p9OAgXnYuNUMUTHg1PuzuhDD

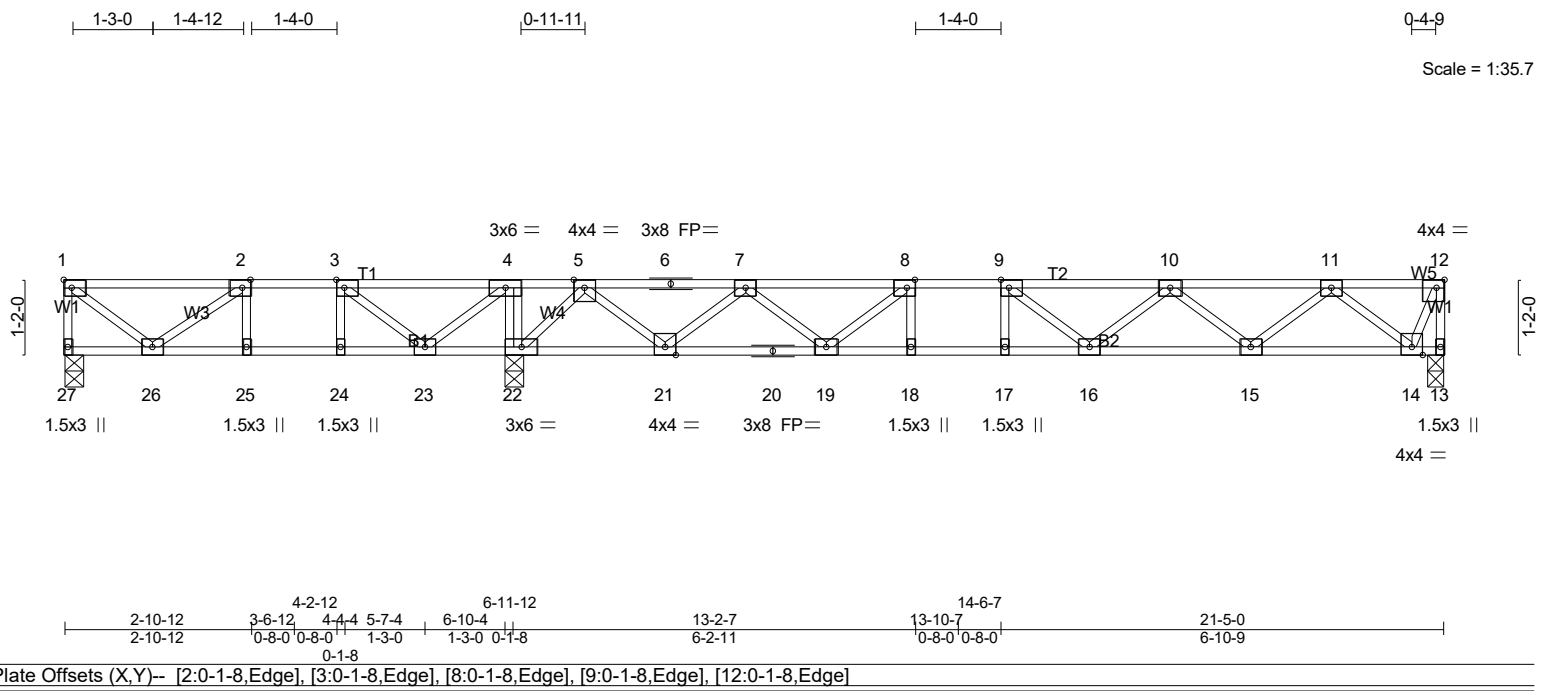


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [12:0-1-8,Edge]

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	0.45	Vert(LL)	-0.12	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.17	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 108 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 27=215/0-3-8 (min. 0-1-8), 13=711/0-3-0 (min. 0-1-8), 22=1417/0-3-8 (min. 0-1-8)
Max Uplift27=-54(LC 4)
Max Grav27=327(LC 3), 13=724(LC 7), 22=1417(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-27=-328/45, 12-13=-724/0, 1-2=-258/105, 2-3=-472/349, 3-4=-73/737, 4-5=0/1198, 5-6=-688/0, 6-7=-688/0, 7-8=-1791/0, 8-9=-2236/0, 9-10=-2174/0, 10-11=-1559/0, 11-12=-281/0
BOT CHORD 25-26=-349/472, 24-25=-349/472, 23-24=-349/472, 22-23=-1198/0, 21-22=-349/0, 20-21=0/1391, 19-20=0/1391, 18-19=0/2236, 17-18=0/2236, 16-17=0/2236, 15-16=0/2039, 14-15=0/1053
WEBS 3-24=0/259, 4-22=-570/0, 1-26=-134/329, 2-26=-264/301, 3-23=-795/0, 4-23=0/661, 8-19=-645/0, 7-19=0/559, 7-21=-954/0, 5-21=0/994, 5-22=-1212/0, 9-16=-257/143, 10-15=-625/0, 11-15=0/658, 11-14=-1005/0, 12-14=0/719

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 54 lb uplift at joint 27.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-05	Floor	2	1	# 44209
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:09 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-ruWyaKU?6eldg1o86qV2hcjrOBwH6wEdixPbxLzuhDC

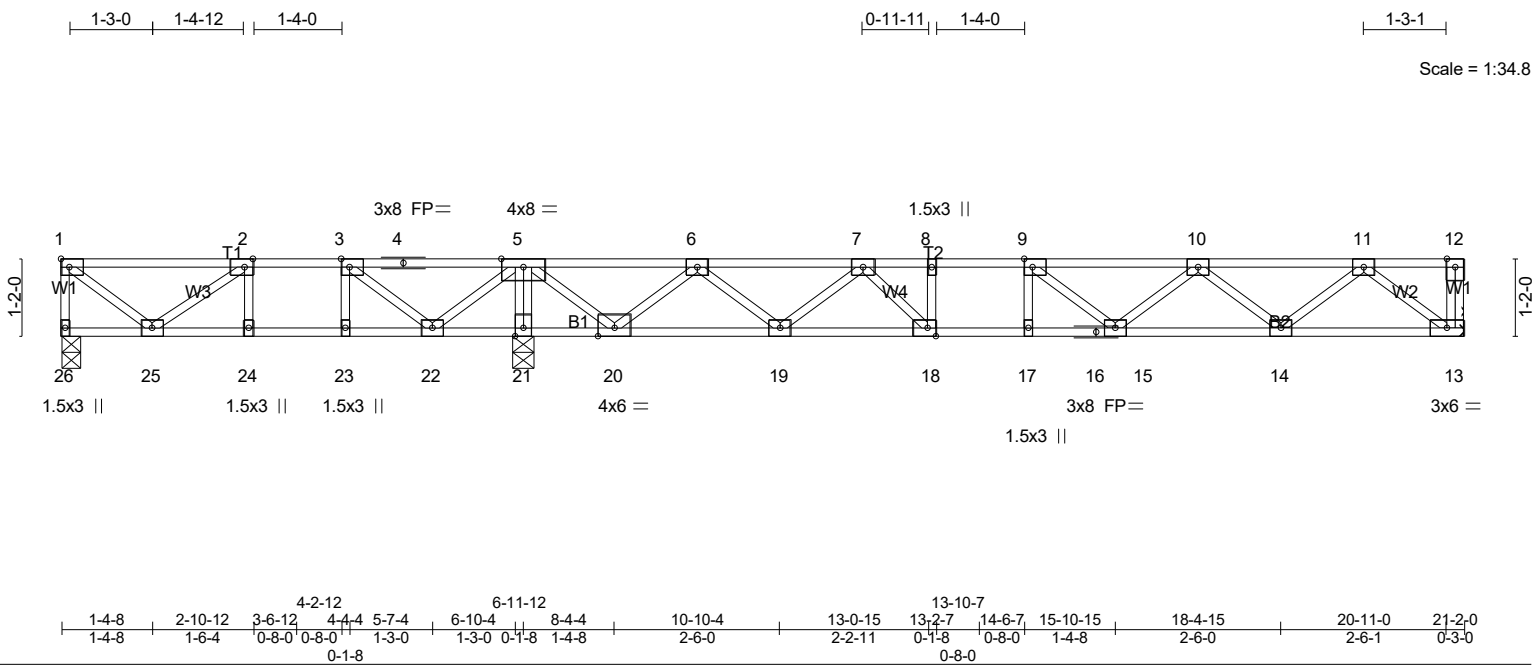


Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [9:0-1-8,Edge], [18:0-1-8,Edge]

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)	-0.12	15-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.16	15-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.56	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 107 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 26=227/0-3-8 (min. 0-1-8), 21=1382/0-3-8 (min. 0-1-8), 13=698/Mechanical
Max Uplift26=-41(LC 4)
Max Grav 26=329(LC 3), 21=1382(LC 1), 13=712(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-26=-329/32, 1-2=-260/87, 2-3=-480/308, 3-4=-82/657, 4-5=-82/657, 6-7=-1441/0, 7-8=-2169/0, 8-9=-2169/0, 9-10=-2074/0, 10-11=-1404/0
BOT CHORD 24-25=-308/480, 23-24=-308/480, 22-23=-308/480, 21-22=-1094/0, 20-21=-1094/0, 19-20=0/960, 18-19=0/1917, 17-18=0/2169, 16-17=0/2169, 15-16=0/2169, 14-15=0/1912, 13-14=0/867
WEBS 3-23=0/255, 5-21=-1328/0, 1-25=-111/333, 2-25=-270/272, 3-22=-754/0, 5-22=0/617, 5-20=0/1177, 6-20=-1088/0, 6-19=0/670, 7-19=-672/0, 7-18=0/543, 9-15=-267/96, 10-15=0/269, 10-14=-661/0, 11-14=0/699, 11-13=-1086/0

NOTES- (8-9)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 41 lb uplift at joint 26.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) 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.
7) CAUTION, Do not erect truss backwards.
8) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
9) 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-06	Floor	2	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:10 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-K44LngVdtytUHANLgY0HEpF?UbFSrNOmxb98UnzuhDB

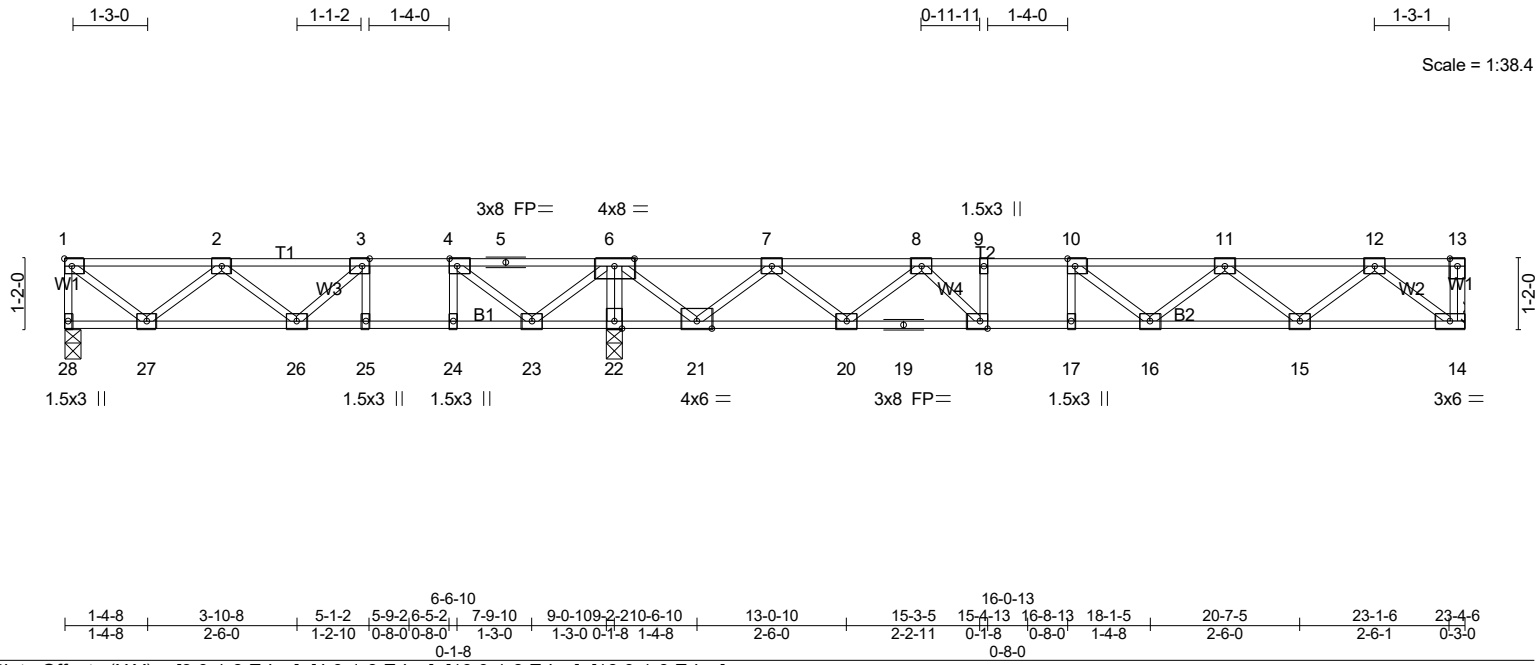


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [18:0-1-8,Edge]

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)	-0.11	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.64	Vert(CT)	-0.16	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.57	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 118 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)

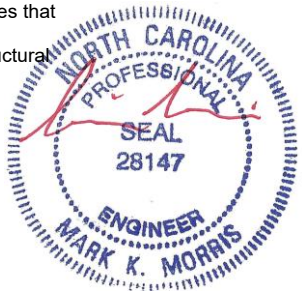
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 28=368/0-3-8 (min. 0-1-8), 22=1494/0-3-8 (min. 0-1-8), 14=687/Mechanical
Max Grav 28=454(LC 3), 22=1494(LC 1), 14=699(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-28=-446/0, 1-2=-439/10, 2-3=-862/164, 3-4=-770/394, 4-5=-166/756, 5-6=-166/756, 7-8=-1314/0, 8-9=-2080/0, 9-10=-2080/0, 10-11=-2010/0, 11-12=-1371/0
BOT CHORD 26-27=-36/844, 25-26=-394/770, 24-25=-394/770, 23-24=-394/770, 22-23=-1182/0, 21-22=-1182/0, 20-21=0/819, 19-20=0/1806, 18-19=0/1806, 17-18=0/2080, 16-17=0/2080, 15-16=0/1865, 14-15=0/849
WEBS 3-25=-304/0, 4-24=0/318, 6-22=-1430/0, 1-27=-13/561, 2-27=-527/33, 3-26=0/389, 4-23=-974/0, 6-23=0/790, 6-21=0/1190, 7-21=-1102/0, 7-20=0/679, 8-20=-683/0, 8-18=0/561, 11-16=0/252, 11-15=-642/0, 12-15=0/680, 12-14=-1064/0

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

LOAD CASE(S) Standard



1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-07	Floor Supported Gable	1	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:10 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-K44LngVdtytUHANLgY0HEpF5_bOLrVjmxb98UnzuhDB

Scale = 1:29.0

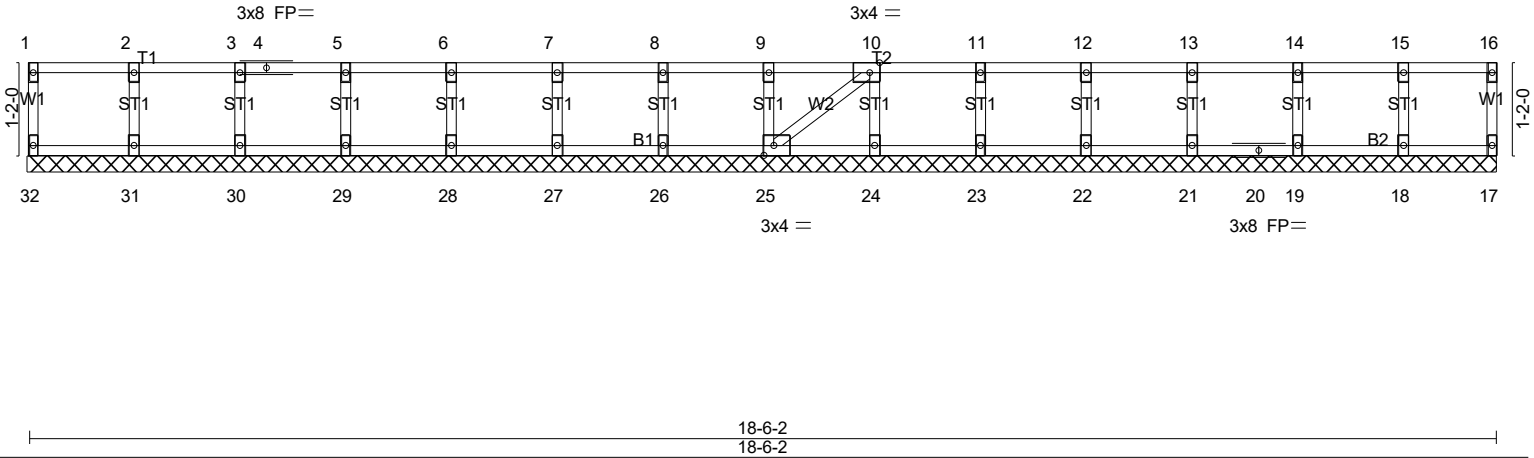


Plate Offsets (X,Y)-- [10:0-1-8,Edge], [25:0-1-8,Edge]

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	0.06	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	21	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 78 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 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-6-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21, 19, 18

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

NOTES- (7-8)
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) 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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-08	Floor	14	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:11 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-oHdj_0WFeG?LvKyXEFXWn1oDx?b6aslw9Fui0DzuhDA

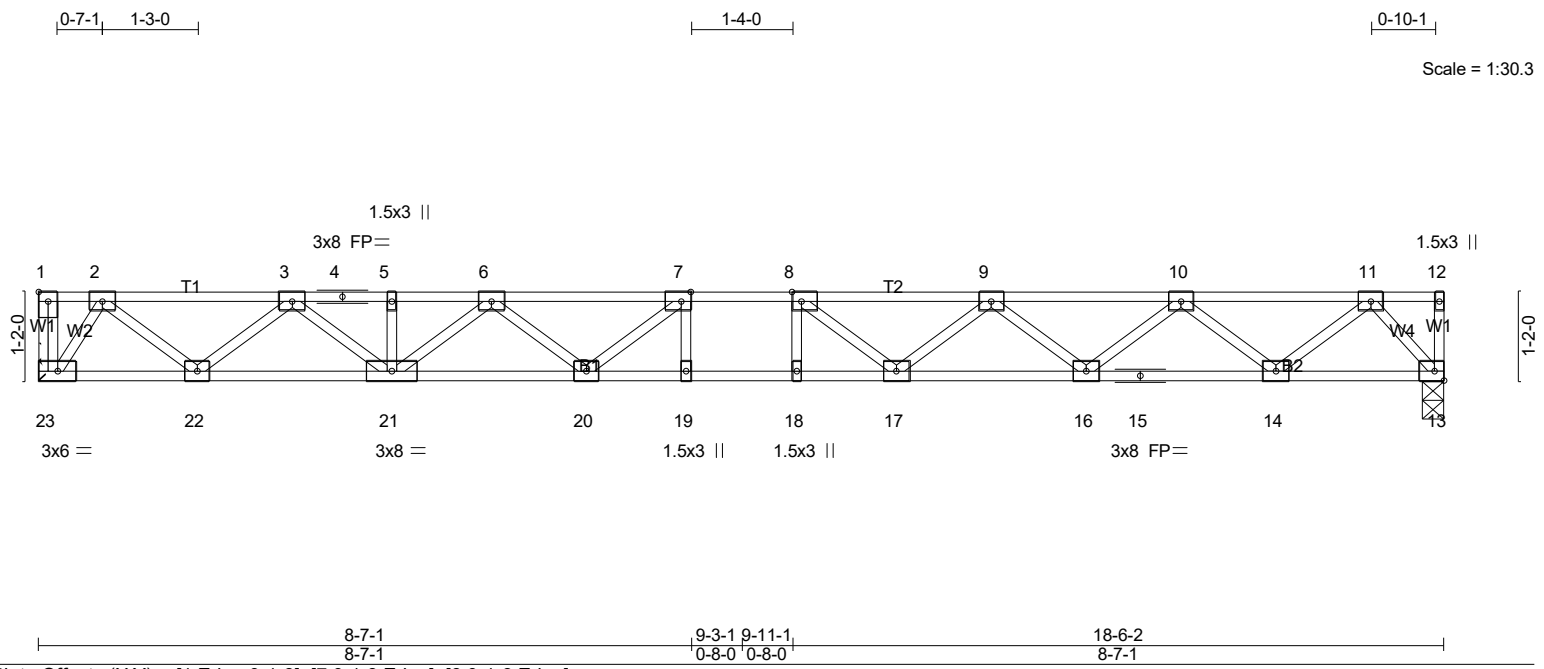


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge]

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	0.31	Vert(LL)	-0.22	18-19	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.30	18-19	>730	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 94 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) 23=672/Mechanical, 13=672/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1107/0, 3-4=-2189/0, 4-5=-2189/0, 5-6=-2189/0, 6-7=-2768/0, 7-8=-2945/0, 8-9=-2778/0, 9-10=-2216/0, 10-11=-1202/0
BOT CHORD 22-23=0/467, 21-22=0/1726, 20-21=0/2581, 19-20=0/2945, 18-19=0/2945, 17-18=0/2945, 16-17=0/2602, 15-16=0/1809, 14-15=0/1809, 13-14=0/573
WEBS 7-20=-390/41, 6-20=0/321, 6-21=-501/0, 3-21=0/591, 3-22=-807/0, 2-22=0/832, 8-17=-381/50, 9-17=0/312, 9-16=-503/0, 10-16=0/529, 10-14=-791/0, 11-14=0/818, 11-13=-877/0, 2-23=-827/0

NOTES- (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

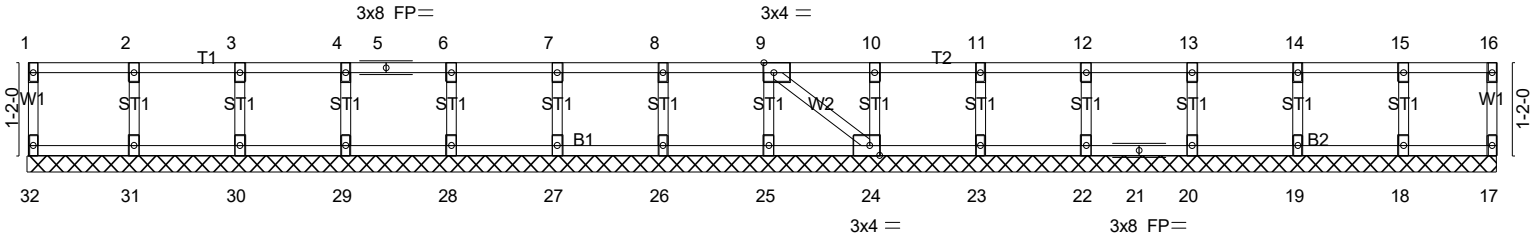
LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-09	Floor Supported Gable	1	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:12 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-GTB5CMXuPZ7CXUXjoy2lJELRTP4pJPD3OveFYgzuhD9

Scale = 1:29.0



18-6-2
18-6-2

Plate Offsets (X,Y)-- [9:0-1-8,Edge], [24:0-1-8,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	0.06	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	24	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 78 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 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 18-6-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 20, 19, 18

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

NOTES- (7-8)
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) 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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

LOAD CASE(S) Standard

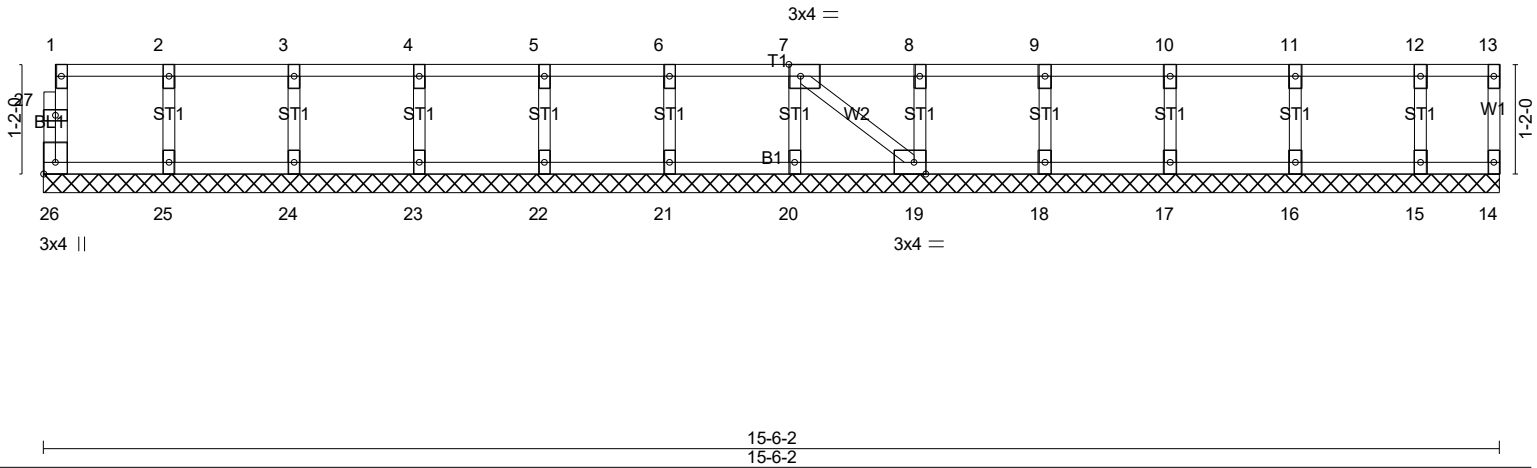
1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-10	Floor Supported Gable	1	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:12 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-GTB5CMXuPZ7CXUXjoy2lJELSaP4pJPF3OveFYgzuhD9

0-1-8

Scale = 1:24.5



15-6-2
15-6-2

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [19:0-1-8,Edge], [26: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	14	n/a	n/a		
BCDL	5.0	Code IRC2018/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)
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 15-6-2.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

NOTES- (8-9)
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) 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.
7) CAUTION, Do not erect truss backwards.
8) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
9) 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-11	Floor	8	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:13 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-kflTPiYWAtF38e6vLgZ_sStaeoOl2oyDdZNo46zuhD8

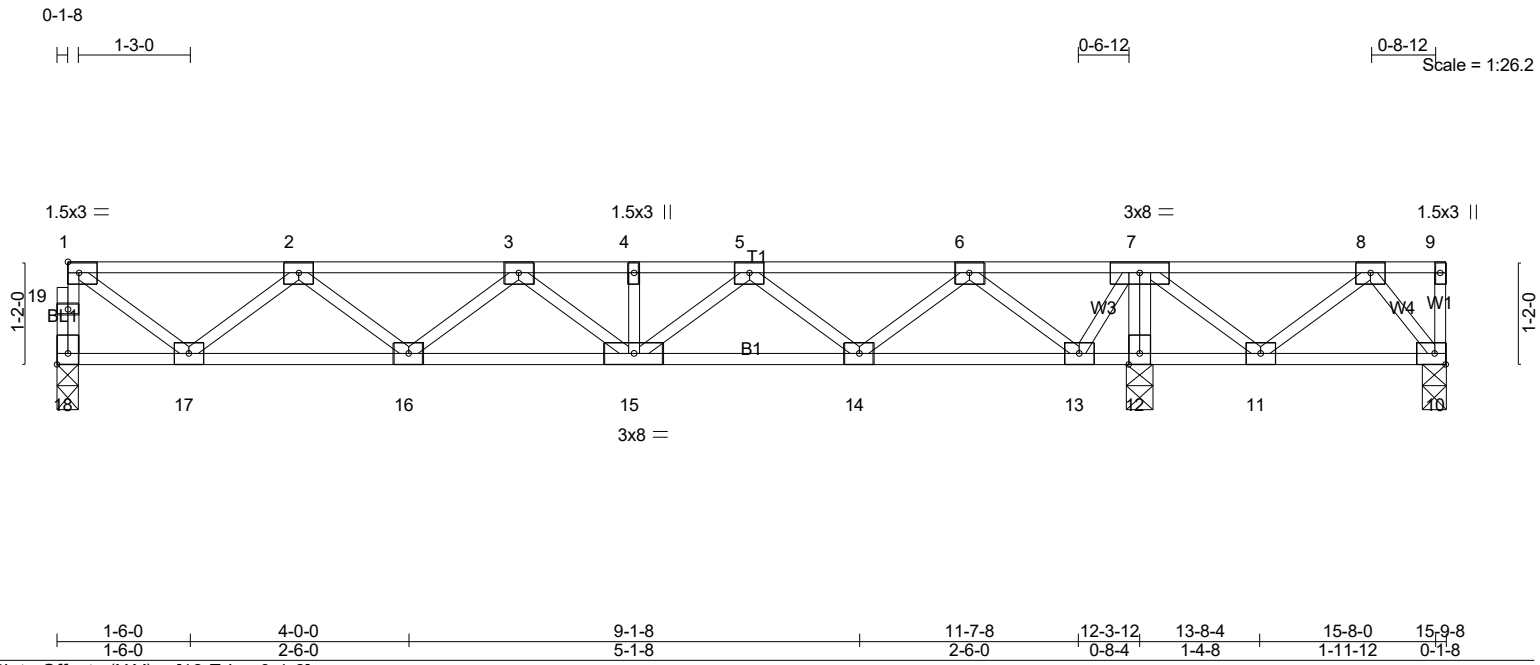


Plate Offsets (X,Y)-- [18:Edge,0-1-8]

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	0.23	Vert(LL)	-0.03	15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.18	Vert(CT)	-0.04	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.01	12	n/a	n/a		
BCDL	5.0	Code IRC2018/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) 18=367/0-3-0 (min. 0-1-8), 12=916/0-3-8 (min. 0-1-8), 10=-144/0-3-6 (min. 0-1-8)
Max Uplift10=-231(LC 3)
Max Grav 18=368(LC 3), 12=916(LC 1), 10=48(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-19=-365/0, 1-19=-365/0, 1-2=-396/0, 2-3=-840/0, 3-4=-843/0, 4-5=-843/0, 5-6=-348/0, 6-7=0/549, 7-8=0/493
BOT CHORD 16-17=0/736, 15-16=0/924, 14-15=0/679, 12-13=-851/0, 11-12=-838/0
WEBS 7-12=-890/0, 1-17=0/477, 2-17=-442/0, 5-14=-437/0, 6-14=0/465, 6-13=-706/0, 7-13=0/543, 7-11=0/480, 8-11=-449/0, 8-10=-73/299

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 10.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-12	Floor	14	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:13 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-kflTPiYWAtF38e6vLgZ_sStXioHb2myDdZNo46zuhD8

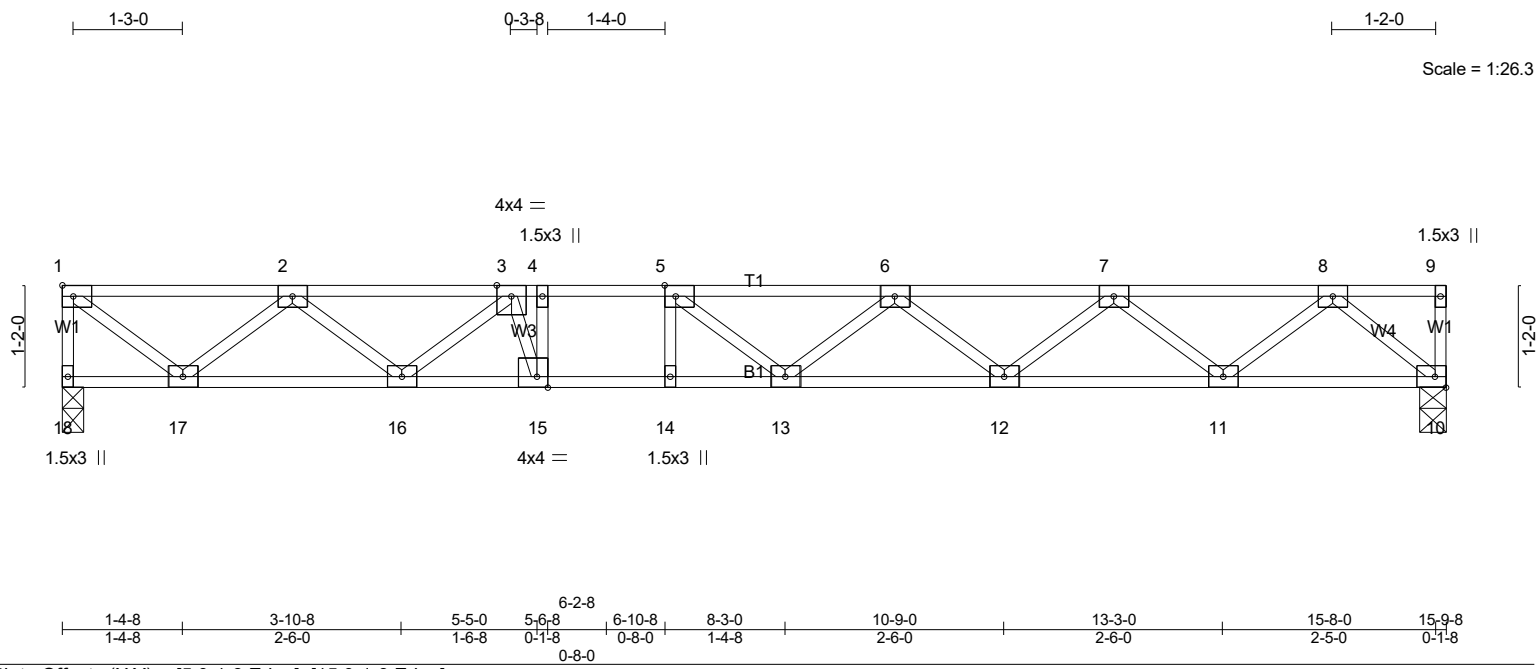


Plate Offsets (X,Y)-- [5:0-1-8,Edge], [15:0-1-8,Edge]

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	0.42	Vert(LL)	-0.14	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.61	Vert(CT)	-0.20	13-14	>946	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 79 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) 18=574/0-3-0 (min. 0-1-8), 10=574/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-18=-573/0, 1-2=-636/0, 2-3=-1560/0, 3-4=-2057/0, 4-5=-2057/0, 5-6=-2122/0, 6-7=-1853/0, 7-8=-1128/0
BOT CHORD 16-17=0/1216, 15-16=0/1935, 14-15=0/2057, 13-14=0/2057, 12-13=0/2106, 11-12=0/1588, 10-11=0/645
WEBS 4-15=-389/0, 1-17=0/811, 2-17=-755/0, 2-16=0/448, 3-16=-488/0, 3-15=0/567, 6-12=-329/0, 7-12=0/345, 7-11=-599/0, 8-11=0/629, 8-10=-846/0

NOTES- (5-6)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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 web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-13	Floor	2	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:13 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-kflTPiYWAtF38e6vLgZ_sStaxoJ72o?DdZNo46zuhD8

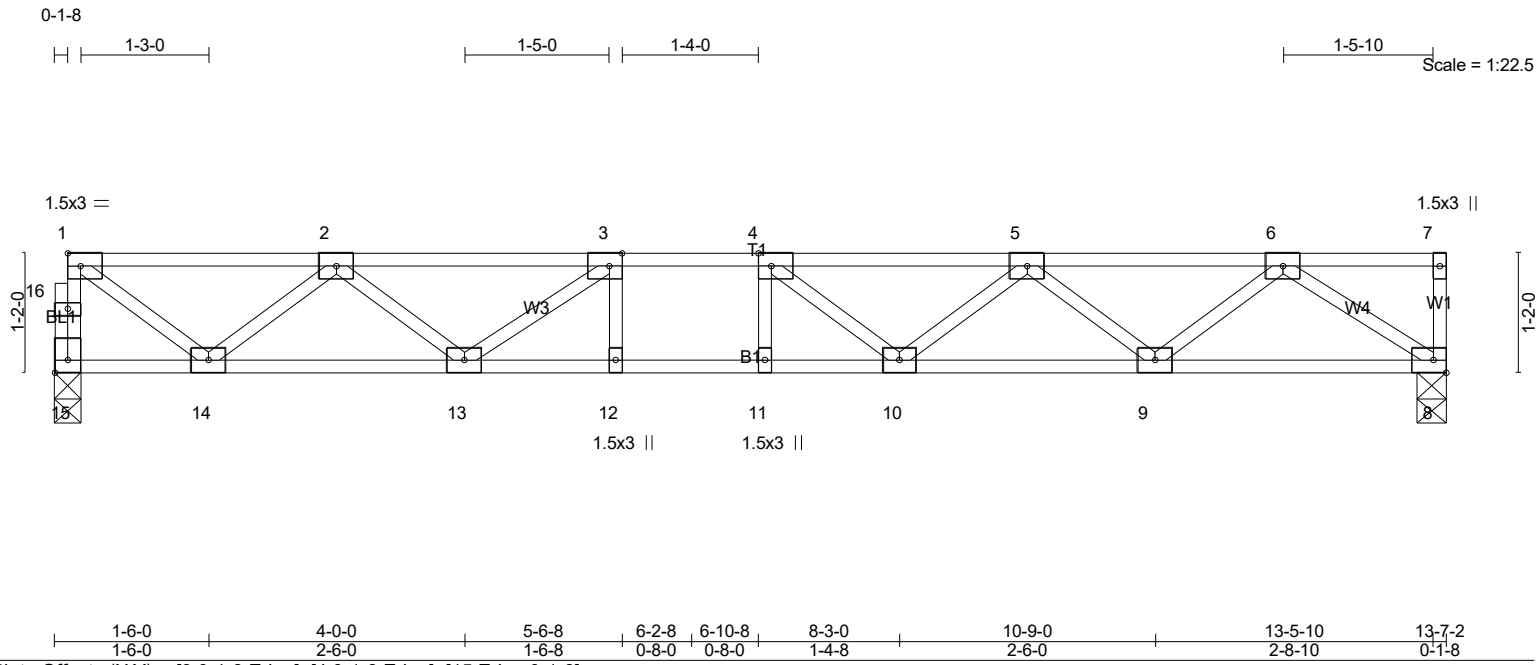


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [15:Edge,0-1-8]

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	0.21	Vert(LL)	-0.08	11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.45	Vert(CT)	-0.10	11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.32	Horz(CT)	0.02	8	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 68 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=487/0-3-2 (min. 0-1-8), 8=492/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 15-16=-485/0, 1-16=-484/0, 1-2=-554/0, 2-3=-1276/0, 3-4=-1565/0, 4-5=-1482/0, 5-6=-1022/0
BOT CHORD 13-14=0/1034, 12-13=0/1565, 11-12=0/1565, 10-11=0/1565, 9-10=0/1366, 8-9=0/657
WEBS 1-14=0/670, 2-14=-625/0, 2-13=0/315, 3-13=-401/0, 5-9=-447/0, 6-9=0/475, 6-8=-795/0

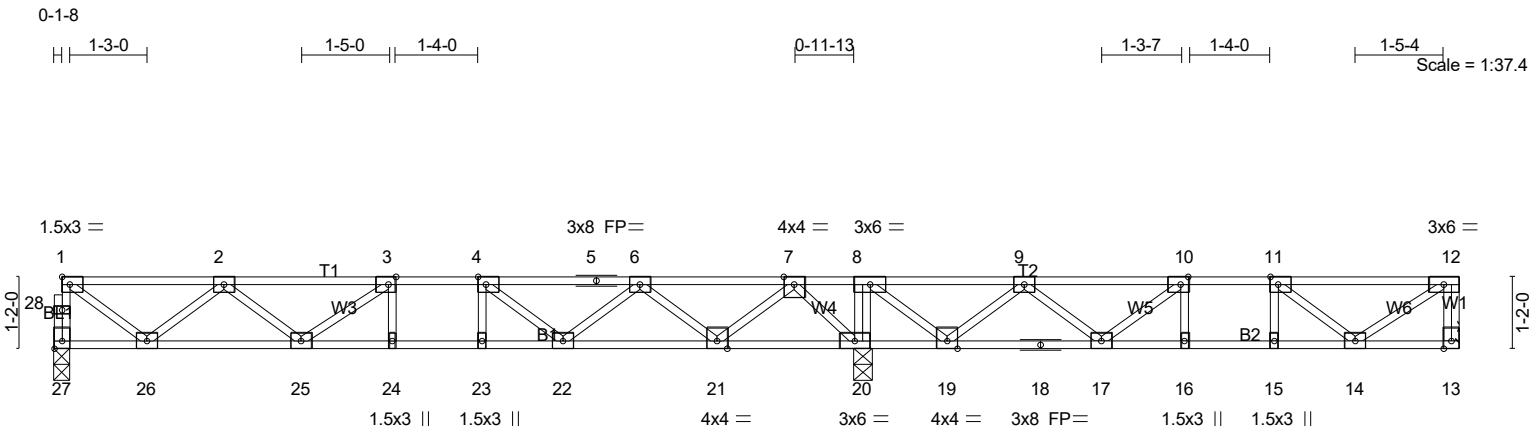
NOTES- (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 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 web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-14	Floor	1	1	# 44209
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:14 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-CsJrd2Y8xANvmoh6vN4DOfQiCCe0nDLMsD7MdYzuhD7



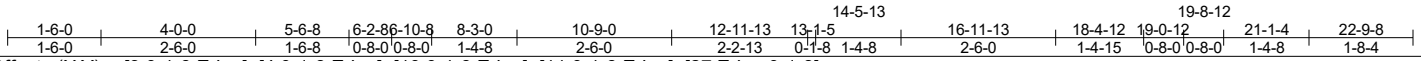


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [27:Edge,0-1-8]

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	0.43	Vert(LL)	-0.07	24	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.10	24	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	20	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 116 lb	FT = 20%F, 11%E

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

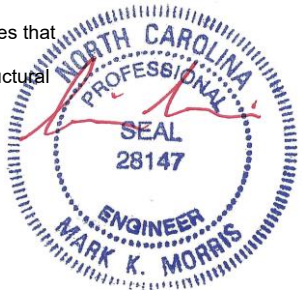
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 27=592/0-3-0 (min. 0-1-8), 13=368/Mechanical, 20=1513/0-3-10 (min. 0-1-8)
Max Grav 27=623(LC 10), 13=442(LC 4), 20=1513(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 27-28=-618/0, 1-28=-617/0, 12-13=-433/0, 1-2=-690/0, 2-3=-1513/0, 3-4=-1721/0, 4-5=-1389/0, 5-6=-1389/0, 6-7=-432/271, 7-8=0/1473, 8-9=0/787, 9-10=-671/318, 10-11=-858/90, 11-12=-473/8
BOT CHORD 25-26=0/1290, 24-25=0/1721, 23-24=0/1721, 22-23=0/1721, 21-22=-64/1070, 20-21=-668/0, 19-20=-1473/0, 18-19=-511/462, 17-18=-511/462, 16-17=-90/858, 15-16=-90/858, 14-15=-90/858
WEBS 8-20=-738/0, 1-26=0/834, 2-26=-781/0, 2-25=0/290, 3-25=-265/38, 4-22=-559/0, 6-22=0/480, 6-21=-889/0, 7-21=0/927, 7-20=-1103/0, 8-19=0/902, 9-19=-826/0, 9-17=0/398, 10-17=-467/0, 11-14=-492/104, 12-14=-10/568

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

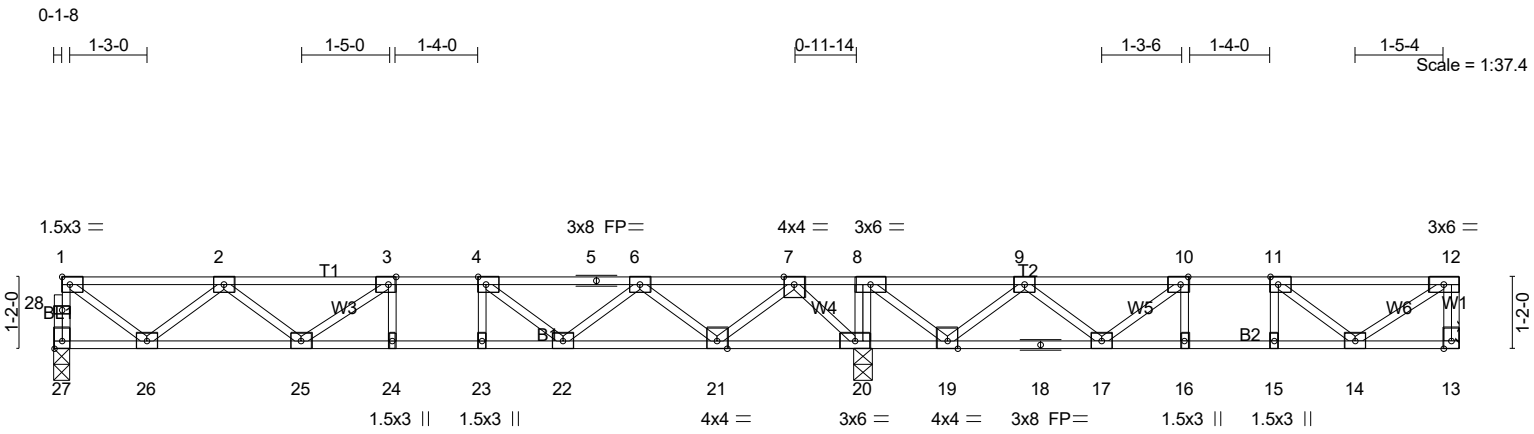
LOAD CASE(S) Standard



1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-15	Floor	2	1	# 44209
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:16 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-8ERc2jaOSoed05qU1o7hU4V2i0KUF7qfJXcThRzuhD5



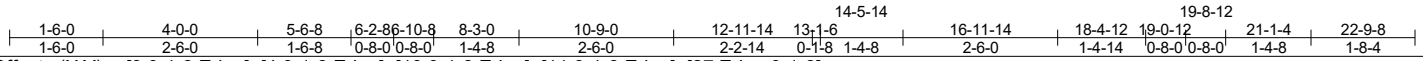


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge], [27:Edge,0-1-8]

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	0.43	Vert(LL)	-0.07	24	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.10	24	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	20	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 116 lb	FT = 20%F, 11%E

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

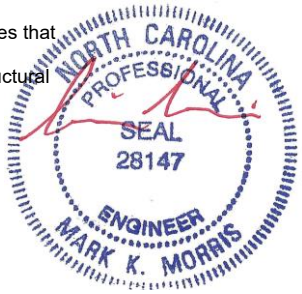
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 27=593/0-3-0 (min. 0-1-8), 13=368/Mechanical, 20=1513/0-3-8 (min. 0-1-8)
Max Grav 27=623(LC 10), 13=441(LC 4), 20=1513(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 27-28=-618/0, 1-28=-617/0, 12-13=-433/0, 1-2=-690/0, 2-3=-1514/0, 3-4=-1722/0, 4-5=-1391/0, 5-6=-1391/0, 6-7=-435/269, 7-8=0/1473, 8-9=0/787, 9-10=-671/319, 10-11=-857/90, 11-12=-472/8
BOT CHORD 25-26=0/1291, 24-25=0/1722, 23-24=0/1722, 22-23=0/1722, 21-22=-62/1073, 20-21=-664/0, 19-20=-1473/0, 18-19=-512/462, 17-18=-512/462, 16-17=-90/857, 15-16=-90/857, 14-15=-90/857
WEBS 8-20=-738/0, 1-26=0/834, 2-26=-782/0, 2-25=0/290, 3-25=-266/38, 4-22=-559/0, 6-22=0/480, 6-21=-888/0, 7-21=0/927, 7-20=-1106/0, 8-19=0/901, 9-19=-825/0, 9-17=0/398, 10-17=-467/0, 11-14=-492/105, 12-14=-10/568

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

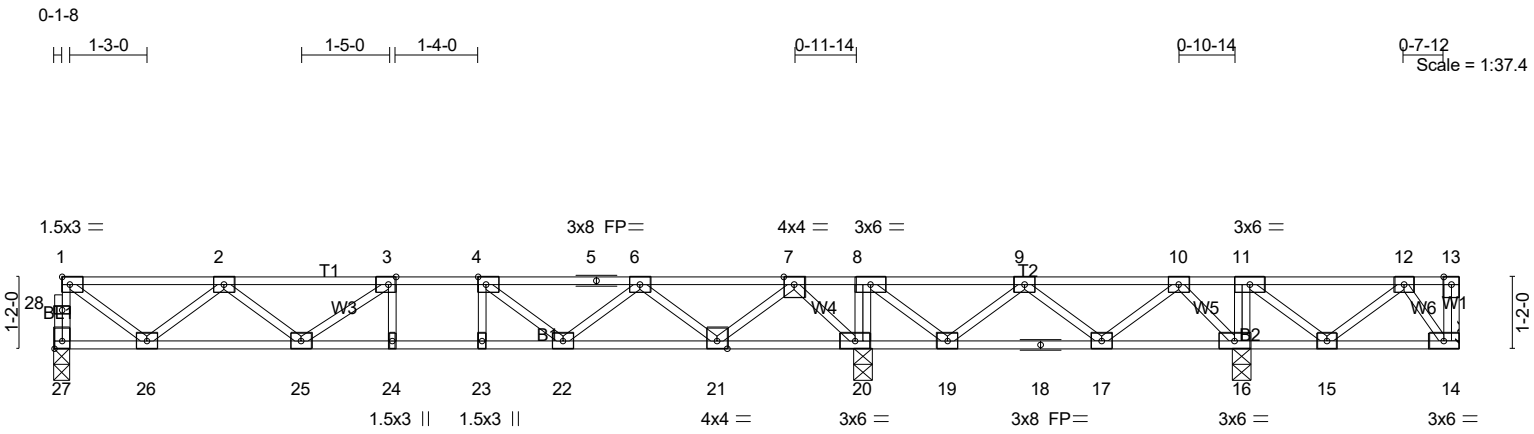
LOAD CASE(S) Standard



1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-16	Floor	1	1	**# 44209**
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:18 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-5dYMSPbe_PuLFP_t8D99ZVbNYp?Ej1Rymr5ZmJzuhD3



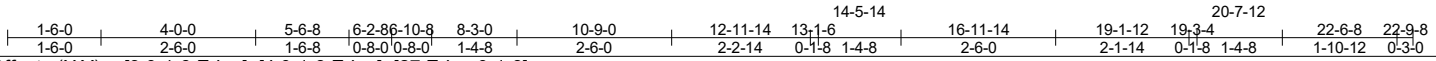


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [27:Edge,0-1-8]

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	0.41	Vert(LL)	-0.07	24-25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.10	24	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02	20	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 119 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)

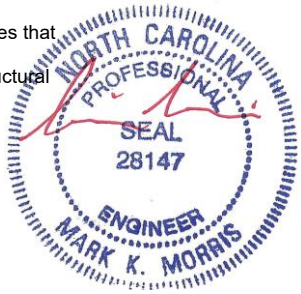
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 27=0-3-0, 14=Mechanical.
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 14
Max Grav All reactions 250 lb or less at joint(s) 14 except 27=603(LC 5), 20=1392(LC 3), 16=553(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 27-28=-597/0, 1-28=-596/0, 1-2=-664/0, 2-3=-1437/0, 3-4=-1603/0, 4-5=-1232/0, 5-6=-1232/0, 7-8=0/1339, 8-9=0/905, 9-10=-154/305
BOT CHORD 25-26=0/1241, 24-25=0/1603, 23-24=0/1603, 22-23=0/1603, 21-22=0/885, 20-21=-559/0, 19-20=-1339/0, 18-19=-571/202, 17-18=-571/202
WEBS 8-20=-621/0, 11-16=-312/0, 1-26=0/801, 2-26=-752/0, 2-25=0/258, 3-25=-281/0, 4-22=-509/0, 6-22=0/461, 6-21=-873/0, 7-21=0/911, 7-20=-1129/0, 8-19=0/708, 9-19=-649/0, 9-17=-75/346, 10-17=-304/113, 10-16=-359/289, 12-14=-288/13

NOTES- (8-9)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 14.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) 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.
7) CAUTION, Do not erect truss backwards.
8) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
9) 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.

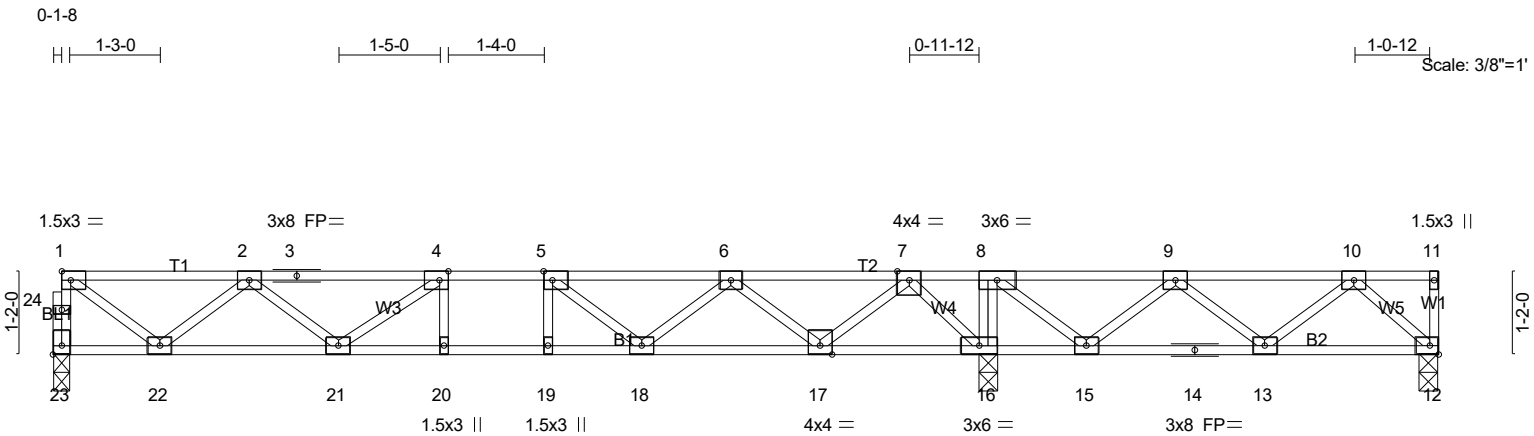
LOAD CASE(S) Standard



1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-17	Floor	1	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:19 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-Zp6kglcHlj0CtZZ3ixgO5j7YGDLRSTh5?Vq7ImzuhD2



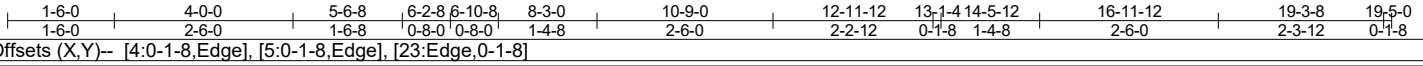


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [23:Edge,0-1-8]

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	0.41	Vert(LL)	-0.07	20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.10	20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.02	16	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 99 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)

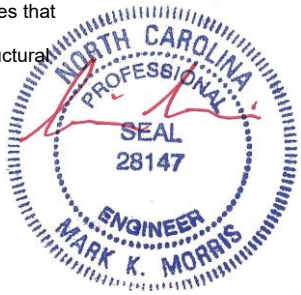
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 23=595/0-3-0 (min. 0-1-8), 12=111/0-3-8 (min. 0-1-8), 16=1403/0-3-8 (min. 0-1-8)
Max Uplift12=-123(LC 3)
Max Grav 23=603(LC 3), 12=264(LC 4), 16=1403(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-597/0, 1-24=-596/0, 1-2=-664/0, 2-3=-1438/0, 3-4=-1438/0, 4-5=-1604/0, 5-6=-1234/0, 7-8=0/1341, 8-9=0/919, 9-10=-282/360
BOT CHORD 21-22=0/1242, 20-21=0/1604, 19-20=0/1604, 18-19=0/1604, 17-18=0/887, 16-17=-573/0, 15-16=-1341/0, 14-15=-608/281, 13-14=-608/281
WEBS 8-16=-631/0, 1-22=0/802, 2-22=-752/0, 2-21=0/256, 4-21=-278/0, 5-18=-514/0, 6-18=0/463, 6-17=-874/0, 7-17=0/913, 7-16=-1122/0, 8-15=0/724, 9-15=-665/0, 9-13=0/323, 10-13=-277/43, 10-12=-339/201

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 12=123.
4) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

LOAD CASE(S) Standard



1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-18	Floor Girder	1	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:20 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-10g7t5dvW083Uj8GGeBdewglkdnbB_kFE9agqCzuhD1

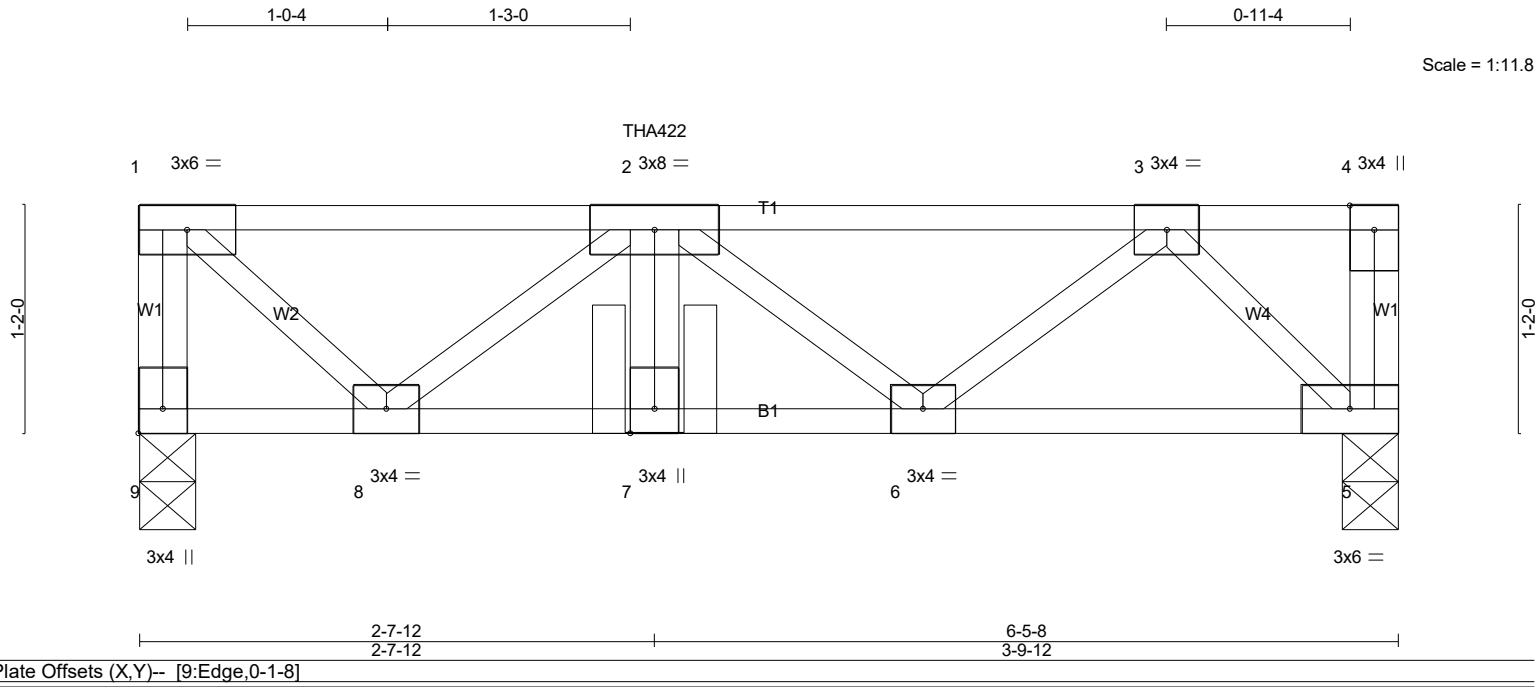


Plate Offsets (X,Y)-- [9:Edge,0-1-8]

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	0.30	Vert(LL)	-0.01	7	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.14	Vert(CT)	-0.01	7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.19	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-P							Weight: 38 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=373/0-3-8 (min. 0-1-8), 5=363/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-369/0, 1-2=-298/0, 2-3=-496/0
BOT CHORD 7-8=0/632, 6-7=0/632, 5-6=0/343
WEBS 2-8=-419/0, 1-8=0/402, 3-5=-480/0

NOTES- (7-8)
1) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 2-7-12 from the left end to connect truss(es) F2-21 (1 ply 2x4 SP) to front face of top chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
5) Fill all nail holes where hanger is in contact with lumber.
6) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

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: 2=-53(F)

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-19	Floor	1	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:21 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-VCEV5ReXHKGw6tjSpLjsB8DvA10lwMrOToJDMezuhD0

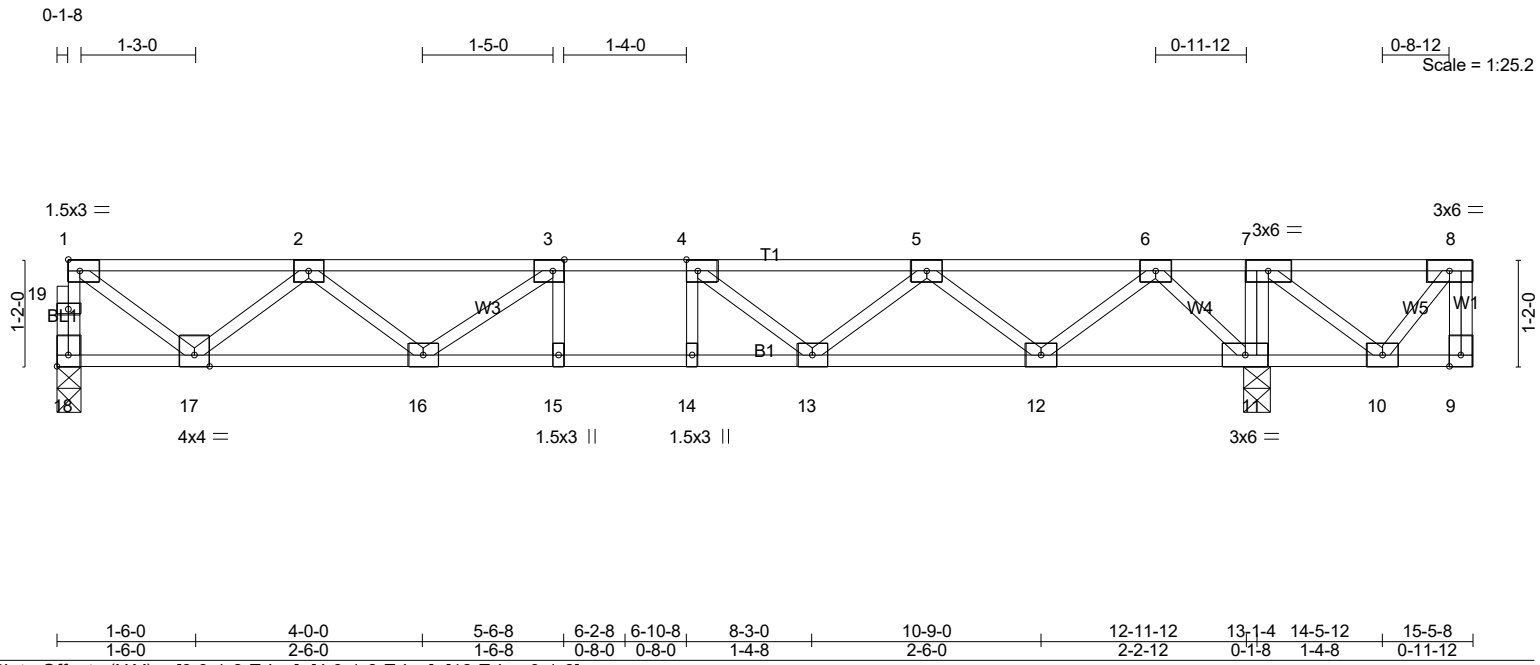


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [18:Edge,0-1-8]

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	0.32	Vert(LL)	-0.10	14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.13	14	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code IRC2018/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:
6-0-0 oc bracing: 11-12,10-11.

REACTIONS. (lb/size) 18=687/0-3-0 (min. 0-1-8), 11=980/0-3-8 (min. 0-1-8)
Max Grav 18=702(LC 3), 11=980(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-19=-698/0, 1-19=-697/0, 1-2=-793/0, 2-3=-1805/0, 3-4=-2177/0, 4-5=-1999/0, 5-6=-1231/0
BOT CHORD 16-17=0/1480, 15-16=0/2177, 14-15=0/2177, 13-14=0/2177, 12-13=0/1783, 11-12=-52/655
WEBS 7-11=-303/0, 1-17=0/959, 2-17=-895/0, 2-16=0/424, 3-16=-533/0, 4-13=-425/7, 5-13=0/365, 5-12=-744/0, 6-12=0/777, 6-11=-975/0

NOTES- (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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 web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-20	Floor Supported Gable	1	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:22 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-zOotInf92eOnk0IeN3E5jLl92RV8fwjXhS3nv5zuhD?

0-1-8 0-1-8

Scale = 1:25.2

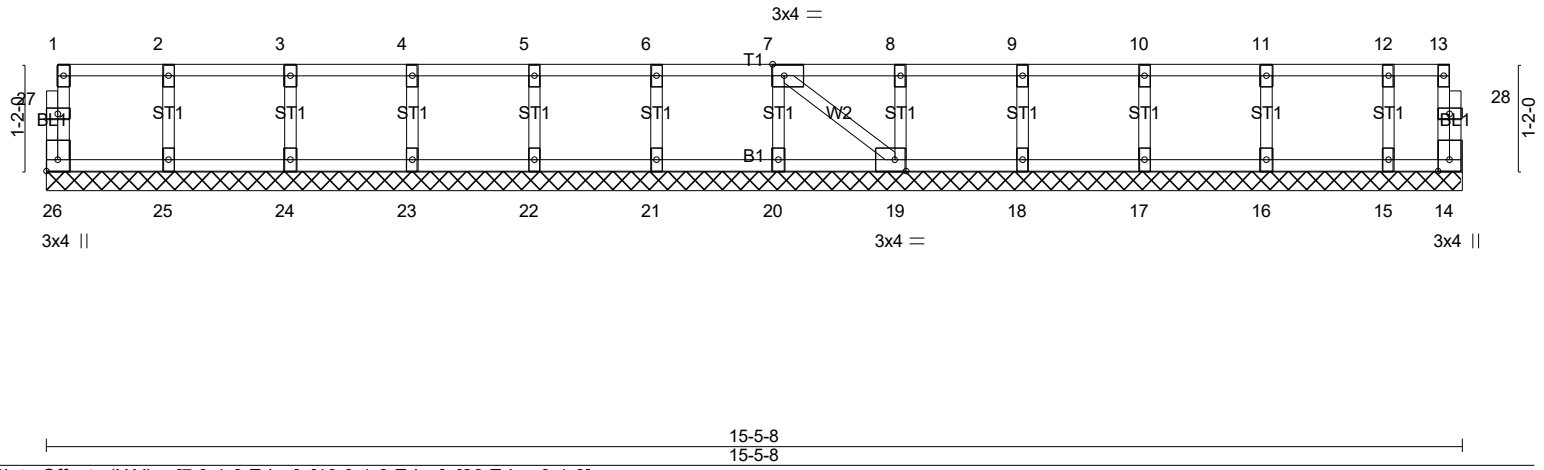


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [19:0-1-8,Edge], [26:Edge,0-1-8]

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	14	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 68 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 15-5-8.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

NOTES- (7-8)
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) 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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-21	Floor Girder	1	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:23 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-RaMFW7fnpxWeLAtqxmlKGZICdqqJONJhw6oKRXzuhD_

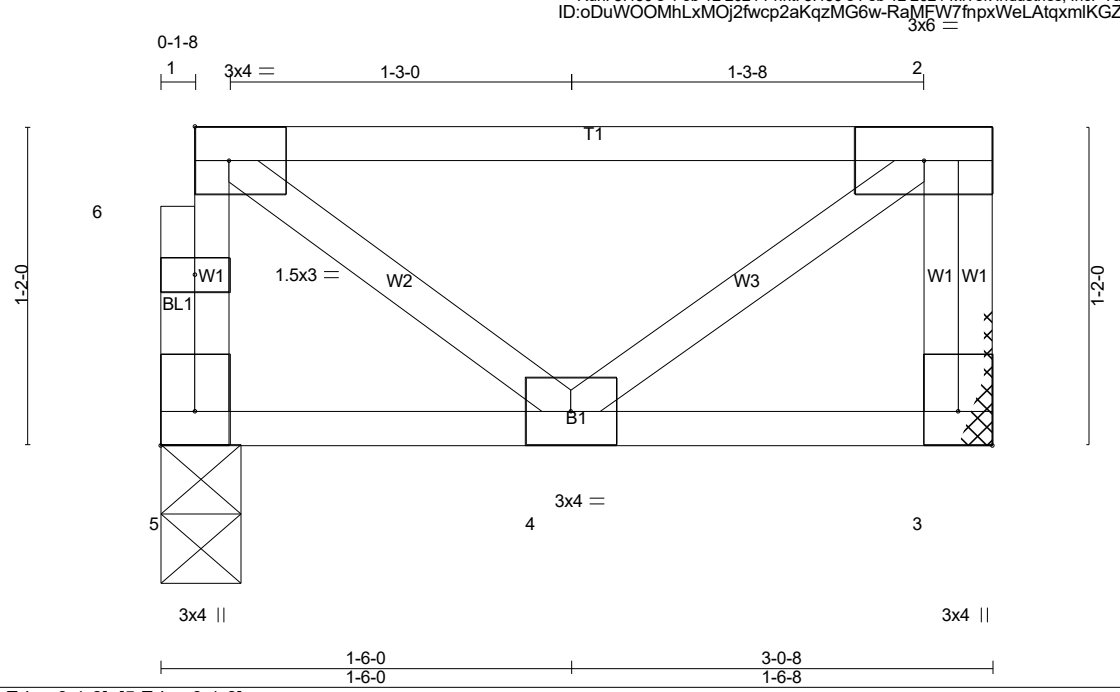


Plate Offsets (X,Y)-- [3:Edge,0-1-8], [5:Edge,0-1-8]

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)	-0.00	4	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	-0.00	4	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.00	3	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-P							Weight: 19 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 3-0-8 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 5=147/0-3-8 (min. 0-1-8), 3=153/Mechanical

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

NOTES- (5-6)
1) Refer to girder(s) for truss to truss connections.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
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 web bracing representation does not depict the size, type or the orientation of the brace on the web. 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.

LOAD CASE(S) Standard

1/16/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0098 BLAKE POND | 87 WHIMBREL COURT LILLINGTON, NC
23-B587-F02	F2-22	Floor Supported Gable	1	1	Job Reference (optional) **# 44209**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Jan 16 20:26:23 2024 Page 1
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-RaMFW7fnpxWeLAtqxmlKGZIJiqqNONxhw6oKRXzuhD_

Scale = 1:11.0

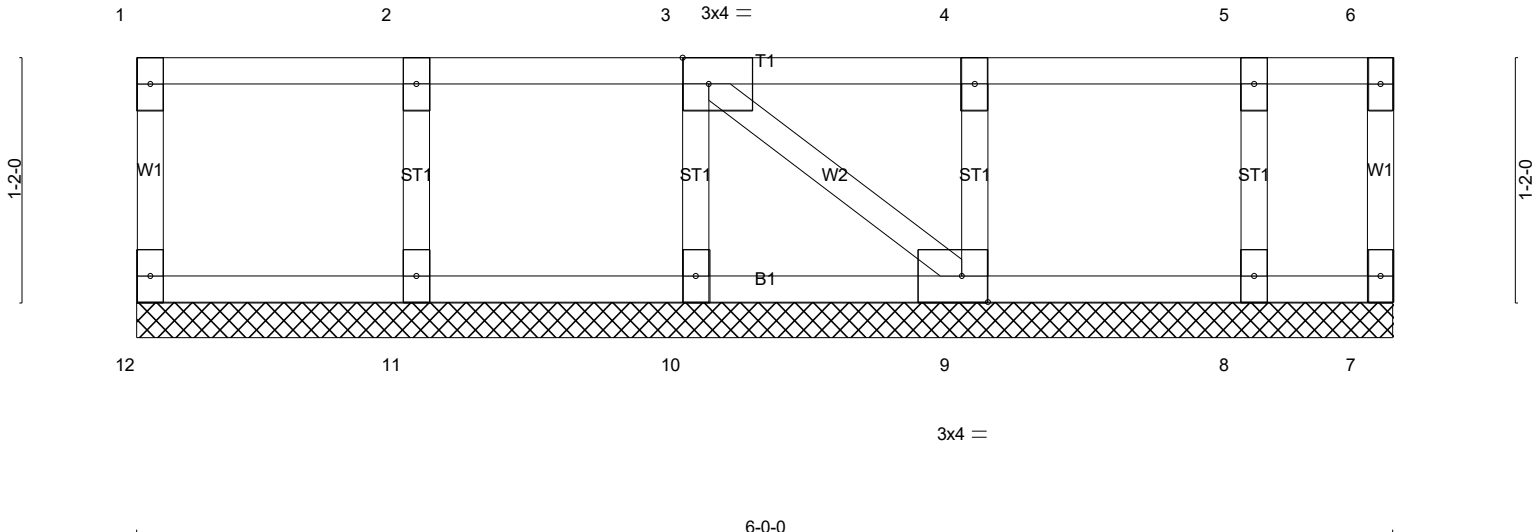


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [9:0-1-8,Edge]

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	0.06	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	7	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-P							Weight: 28 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 6-0-0.
(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- (7-8)
1) All plates are 1.5x3 MT20 unless otherwise indicated.
2) Gable requires continuous bottom chord bearing.
3) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
4) Gable studs spaced at 1-4-0 oc.
5) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
6) 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.
7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
8) 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.

LOAD CASE(S) Standard

1/16/2024