

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 #: 46856

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.

17 Truss Design(s)

Trusses:

F201, F202, F203, F205, F206, F207, F208, F209, F210, F211, F212, F213, F214, F216, F217, F218, F219



3/22/2024

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

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F201	Floor Supported Gable	1	1	# 46856
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:50 2024 Page 1
 ID:6SrUsNRKh5asUkfHKHR8skysYGd-?VsHkkWnfkP1qVWVaoLS2darPVa2hm9_Vmg1Y1zY?0

0-1-8

0-3-4

Scale = 1:26.5

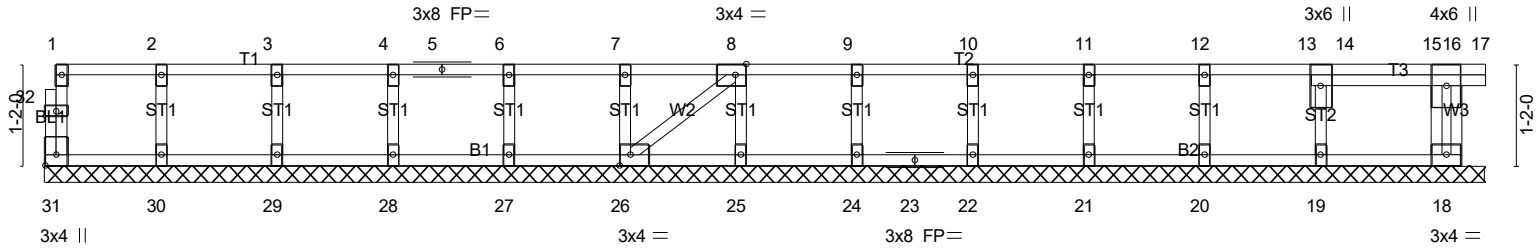


Plate Offsets (X,Y)-- [8:0-1-8,Edge], [26:0-1-8,Edge], [31:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	0.00	16	n/r	180	MT20
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	0.00	16	n/r	80	244/190
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	18	n/a	n/a	
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 74 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 16-6-12.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 31, 18, 30, 29, 28, 27, 26, 25, 24, 22, 21, 20, 19

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

- NOTES-** (7-8)
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION. Do not erect truss backwards.
 - Graphical 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.
 - 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



3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D*Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F202	Floor	14	1	# 46856

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:50 2024 Page 1
 ID:6SrUsNRKh5asUkfHKHR8skysYGd-?VsHkkWnfkP1qVWVaoIS2dam4VQHhga_Vmg1Y1zY?0

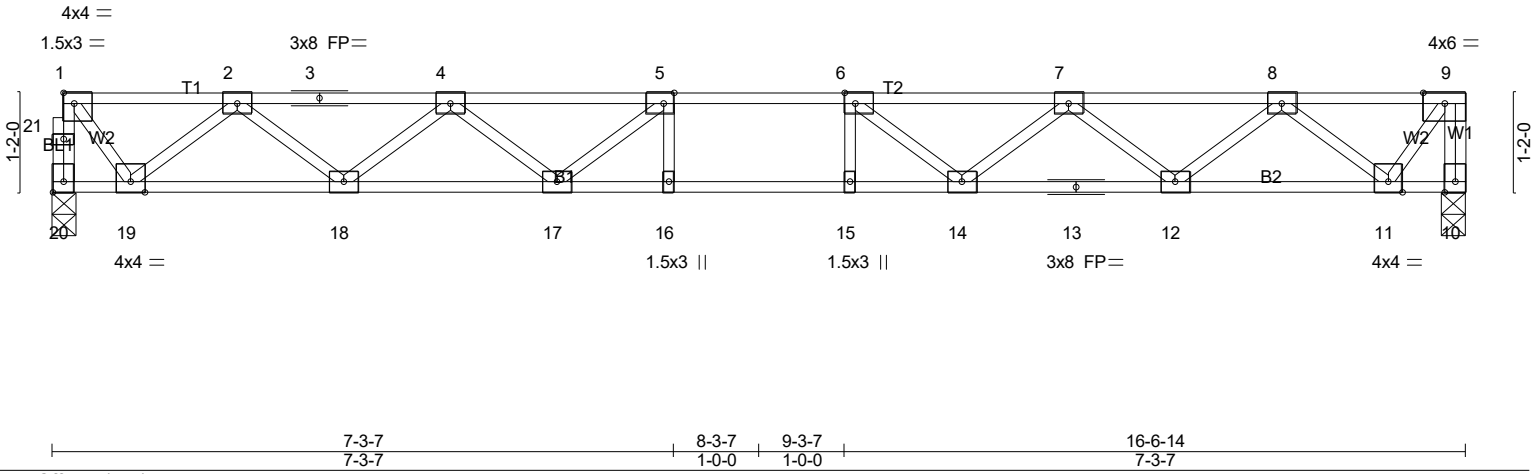
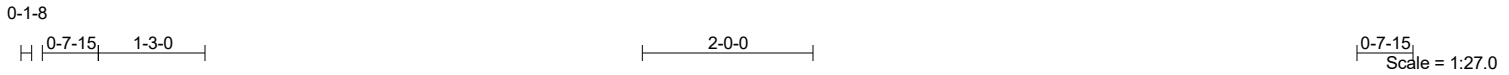


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [5:0-1-8,Edge], [6:0-1-8,Edge], [20:Edge,0-1-8]	
LOADING (psf)	SPACING- 1-7-3
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code IRC2021/TPI2014
CSI.	DEFL. in (loc) l/defl L/d
TC 0.33	Vert(LL) -0.17 15-16 >999 480
BC 0.70	Vert(CT) -0.23 15-16 >842 360
WB 0.39	Horz(CT) 0.04 10 n/a n/a
Matrix-SH	
PLATES	GRIP
MT20	244/190
Weight: 83 lb FT = 20%F, 11%E	

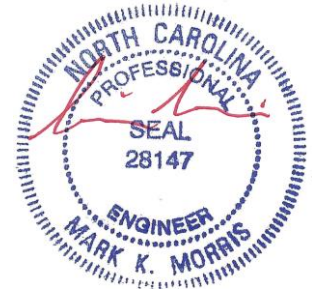
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 20=713/0-3-6 (min. 0-1-8), 10=718/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 20-21=-713/0, 1-21=-712/0, 9-10=-716/0, 1-2=-495/0, 2-3=-1784/0, 3-4=-1784/0, 4-5=-2539/0, 5-6=-2786/0, 6-7=-2539/0, 7-8=-1784/0, 8-9=-493/0
 BOT CHORD 18-19=0/1257, 17-18=0/2286, 16-17=0/2786, 15-16=0/2786, 14-15=0/2786, 13-14=0/2286, 12-13=0/2286, 11-12=0/1258
 WEBS 5-17=-491/0, 4-17=0/394, 4-18=-654/0, 2-18=0/686, 2-19=-992/0, 1-19=0/793, 6-14=-491/0, 7-14=0/394, 7-12=-653/0, 8-12=0/685, 8-11=-996/0, 9-11=0/819

- NOTES-** (5-6)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 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.
 - 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

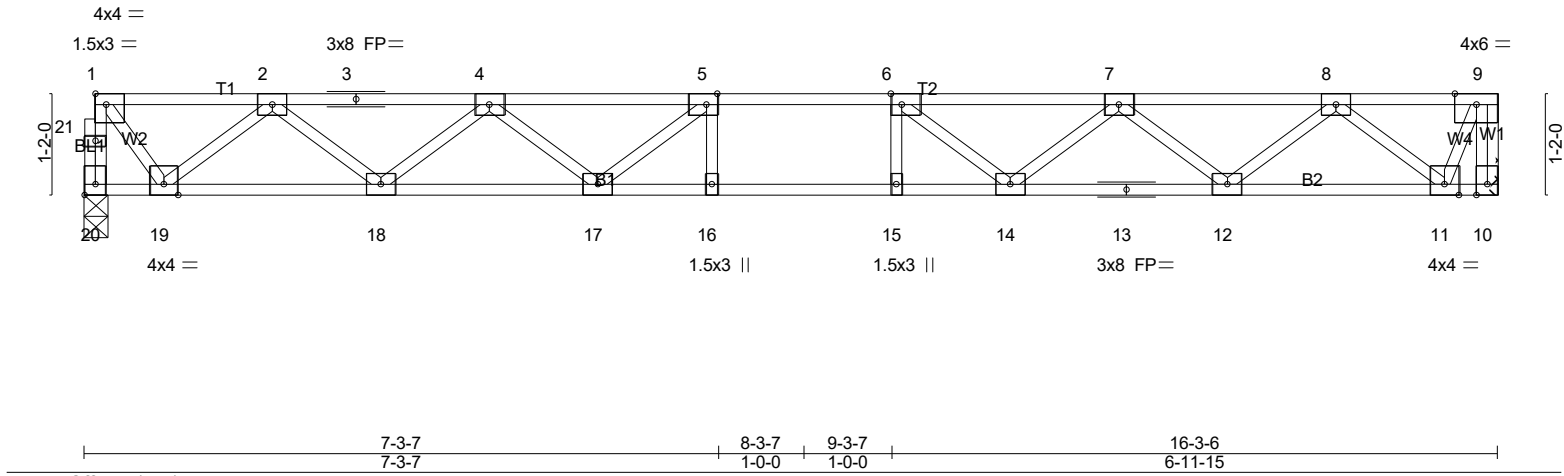
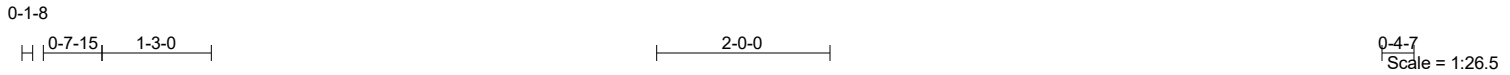


3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F203	Floor	10	1	# 46856

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:51 2024 Page 1
ID:6SrUsNRKh5asUkfHKHR8skysYGd-UiQfy4XPQ1YuSf5i8VGhbr6xkulMQ887JQQa4TZY?O_



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.34	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.71	Vert(LL) -0.16 16 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.37	Vert(CT) -0.22 15-16 >873 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.04 10 n/a n/a		
	Code IRC2021/TPI2014			Weight: 82 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)

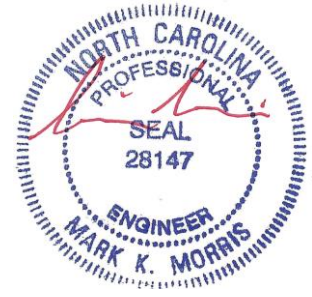
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 20=700/0-3-6 (min. 0-1-8), 10=705/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 20-21=-700/0, 1-21=-699/0, 9-10=-706/0, 1-2=-485/0, 2-3=-1744/0, 3-4=-1744/0, 4-5=-2468/0, 5-6=-2686/0, 6-7=-2411/0, 7-8=-1623/0, 8-9=-311/0
BOT CHORD 18-19=0/1231, 17-18=0/2233, 16-17=0/2686, 15-16=0/2686, 14-15=0/2686, 13-14=0/2141, 12-13=0/2141, 11-12=0/1079
WEBS 5-17=-459/0, 4-17=0/374, 4-18=-636/0, 2-18=0/667, 2-19=-971/0, 1-19=0/777, 6-14=-509/0, 7-14=0/406, 7-12=-674/0, 8-12=0/709, 8-11=-999/0, 9-11=0/725

- 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) 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



3/22/2024

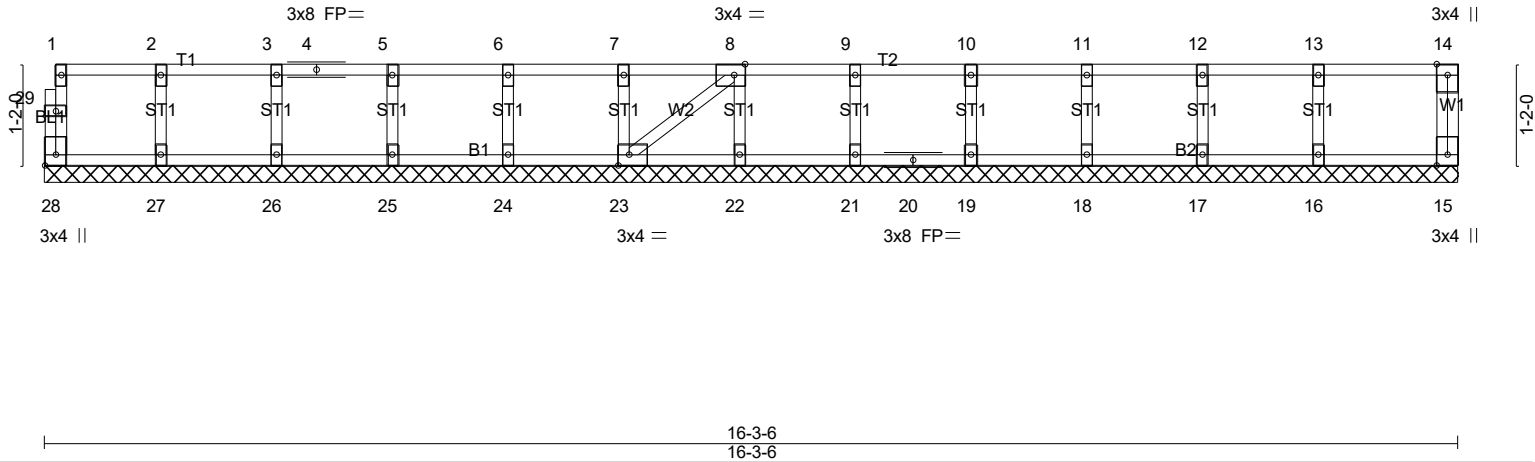
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D*Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F205	Floor Supported Gable	1	1	Job Reference (optional) # 46856

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:51 2024 Page 1
ID:6SrUsNRKh5asUkfHKHR8skysYGd-UiQfy4XPQ1YuSf5i8VGhbr6?nuwIQDL7JQa4TzY?O

0₁-8

Scale = 1:26.5



LOADING (psf)		SPACING-		CSI.		DEFL.				PLATES		GRIP	
TCLL	40.0	2-0-0	Plate Grip DOL	1.00	TC	0.08	in	(loc)	l/defl	L/d	MT20	244/190	
TCDL	10.0	1.00	Lumber DOL	1.00	BC	0.01	Vert(LL)	n/a	-	n/a	999		
BCLL	0.0	YES	Rep Stress Incr	YES	WB	0.04	Vert(CT)	n/a	-	n/a	999		
BCDL	5.0	Code IRC2021/TPI2014	Code IRC2021/TPI2014		Matrix-SH		Horz(CT)	0.00	15	n/a	n/a		
											Weight: 71 lb	FT = 20%F, 11%E	

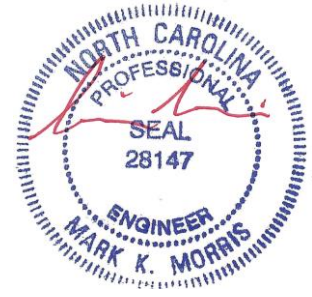
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.1(flat)	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.1(flat)	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3(flat)		
OTHERS	2x4 SP No.3(flat)		

REACTIONS. All bearings 16-3-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 28, 15, 27, 26, 25, 24, 23, 22, 21, 19, 18, 17, 16

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

- NOTES-** (7-8)
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION. Do not erect truss backwards.
 - Graphical 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.
 - 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



3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D*Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F206	Floor Supported Gable	1	1	Job Reference (optional) # 46856

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:52 2024 Page 1
 ID:6SrUsNRKh5asUkfHKHR8skysYGd-yu_19QY1BLgl4pguiDnw72fBrfZ9geHy498bvzY?Nz

Scale = 1:29.9

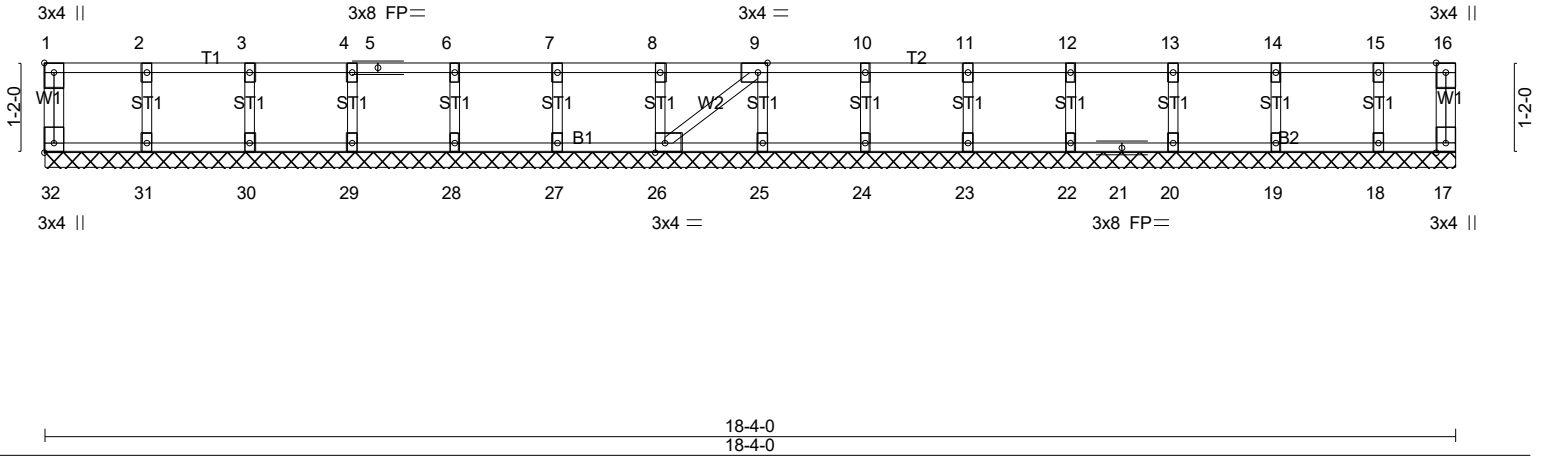


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [9:0-1-8,Edge], [26:0-1-8,Edge], [32:Edge,0-1-8]

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	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	-0.00	26	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)
 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 18-4-0.
 (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-** (6-7)
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Graphical 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.
 - 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



3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job 23-B588-F02	Truss F207	Truss Type Floor	Qty 8	Ply 1	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC Job Reference (optional) # 46856
--------------------	---------------	---------------------	----------	----------	--

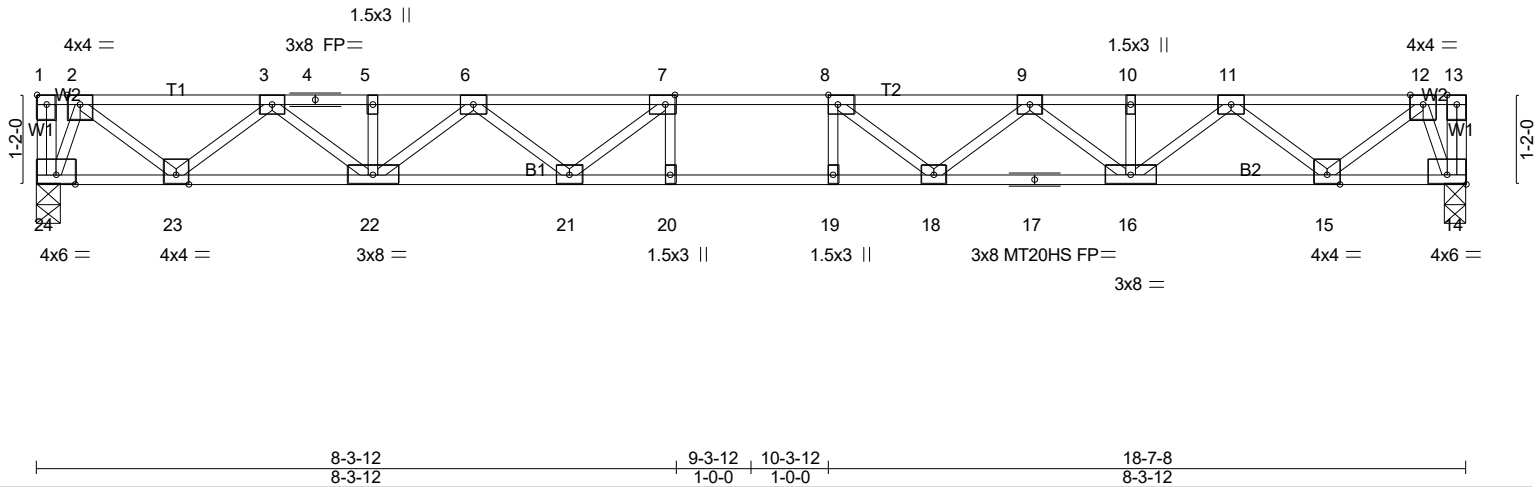
Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:52 2024 Page 1
ID:6SrUsNRKh5asUkfHKHR8skysYGd-yu_19QY1BLgl4pguiDnw72f5Gi2X9ZRHy498bvzY?Nz

0'-3-12 1'-3-0

2'-0-0

0'-3-12

Scale = 1:30.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.84	Vert(LL) -0.27 19-20 >829 480	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.49	Vert(CT) -0.37 19-20 >601 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.06 14 n/a n/a		
	Code IRC2021/TPI2014			Weight: 97 lb	FT = 20%F, 11%E

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

REACTIONS. (lb/size) 24=808/0-3-8 (min. 0-1-8), 14=808/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-1161/0, 3-4=-2525/0, 4-5=-2525/0, 5-6=-2525/0, 6-7=-3284/0, 7-8=-3536/0, 8-9=-3284/0, 9-10=-2525/0, 10-11=-2525/0, 11-12=-1161/0
 BOT CHORD 23-24=0/365, 22-23=0/1935, 21-22=0/3026, 20-21=0/3536, 19-20=0/3536, 18-19=0/3536, 17-18=0/3026, 16-17=0/3026, 15-16=0/1935, 14-15=0/365
 WEBS 7-21=-541/19, 6-21=0/429, 6-22=-640/0, 3-22=0/753, 3-23=-1007/0, 2-23=0/1036, 2-24=-943/0, 8-18=-541/19, 9-18=0/429, 9-16=-640/0, 11-16=0/753, 11-15=-1007/0, 12-15=0/1036, 12-14=-943/0

- NOTES-** (5-6)
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Graphical 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.
 - 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

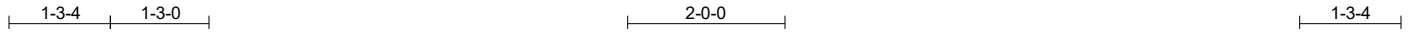


3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F208	Floor	4	1	Job Reference (optional) # 46856

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:52 2024 Page 1
ID:6SrUsNRKh5asUkfHKHR8skysYGd-yu_19QY1BLgl4pguiDnw72f5f13B9YaHy498bvzY?Nz



Scale = 1:29.1

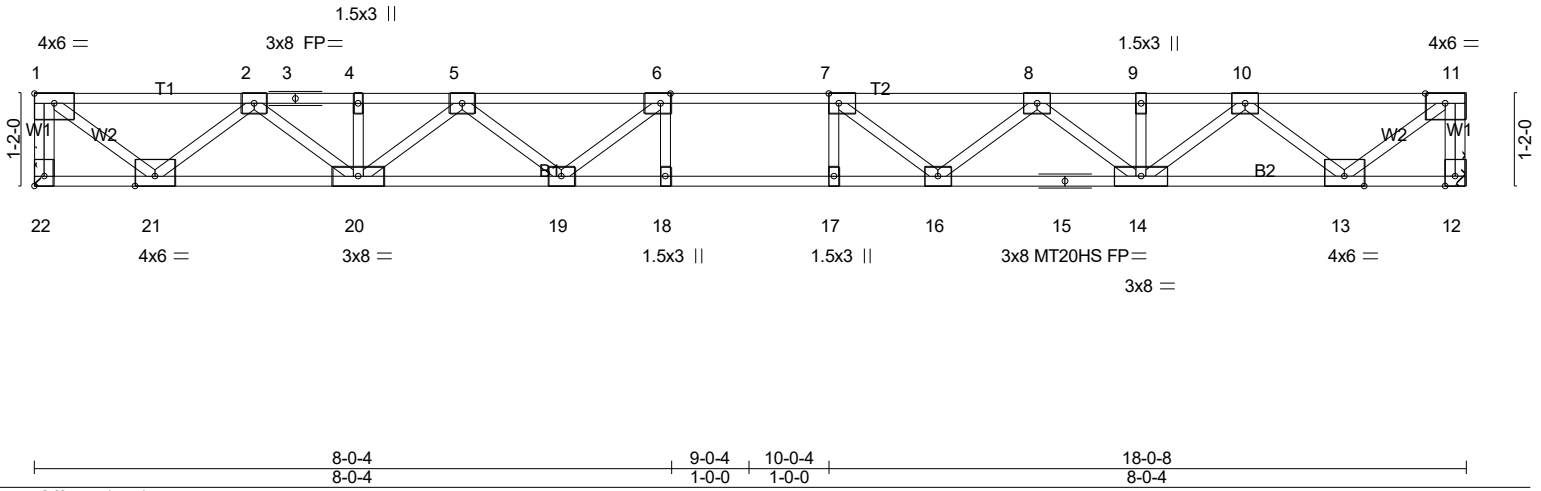


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [7:0-1-8,Edge], [22:Edge,0-1-8]					
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.39	Vert(LL) -0.24 17-18 >905 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.80	Vert(CT) -0.33 17-18 >656 360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr YES	WB 0.55	Horz(CT) 0.06 12 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH			Weight: 92 lb FT = 20%F, 11%E

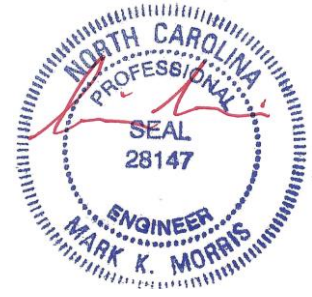
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 22=782/Mechanical, 12=782/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-22=-777/0, 11-12=-777/0, 1-2=-923/0, 2-3=-2299/0, 3-4=-2299/0, 4-5=-2299/0, 5-6=-3063/0, 6-7=-3314/0, 7-8=-3063/0, 8-9=-2299/0, 9-10=-2299/0, 10-11=-923/0
BOT CHORD 20-21=0/1731, 19-20=0/2805, 18-19=0/3314, 17-18=0/3314, 16-17=0/3314, 15-16=0/2805, 14-15=0/2805, 13-14=0/1731
WEBS 6-19=-528/6, 5-19=0/420, 5-20=-646/0, 2-20=0/726, 2-21=-1051/0, 1-21=0/1152, 7-16=-528/6, 8-16=0/420, 8-14=-646/0, 10-14=0/726, 10-13=-1051/0, 11-13=0/1152

- NOTES-** (6-7)
- Unbalanced floor live loads have been considered for this design.
 - All plates are MT20 plates unless otherwise indicated.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - Graphical 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.
 - 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



3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D*Onofrio Drive, Madison, WI 53719.

Job 23-B588-F02	Truss F209	Truss Type Floor	Qty 1	Ply 1	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC Job Reference (optional) # 46856
--------------------	---------------	---------------------	----------	----------	--

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:53 2024 Page 1
ID:6SrUsNRKh5asUkfHKHR8skysYGd-Q4YPNmZfyfochzF4GwJAgGCJ5ia6u5fQBkvh7MzY?Ny

1-3-0

0-7-0

Scale = 1:13.3

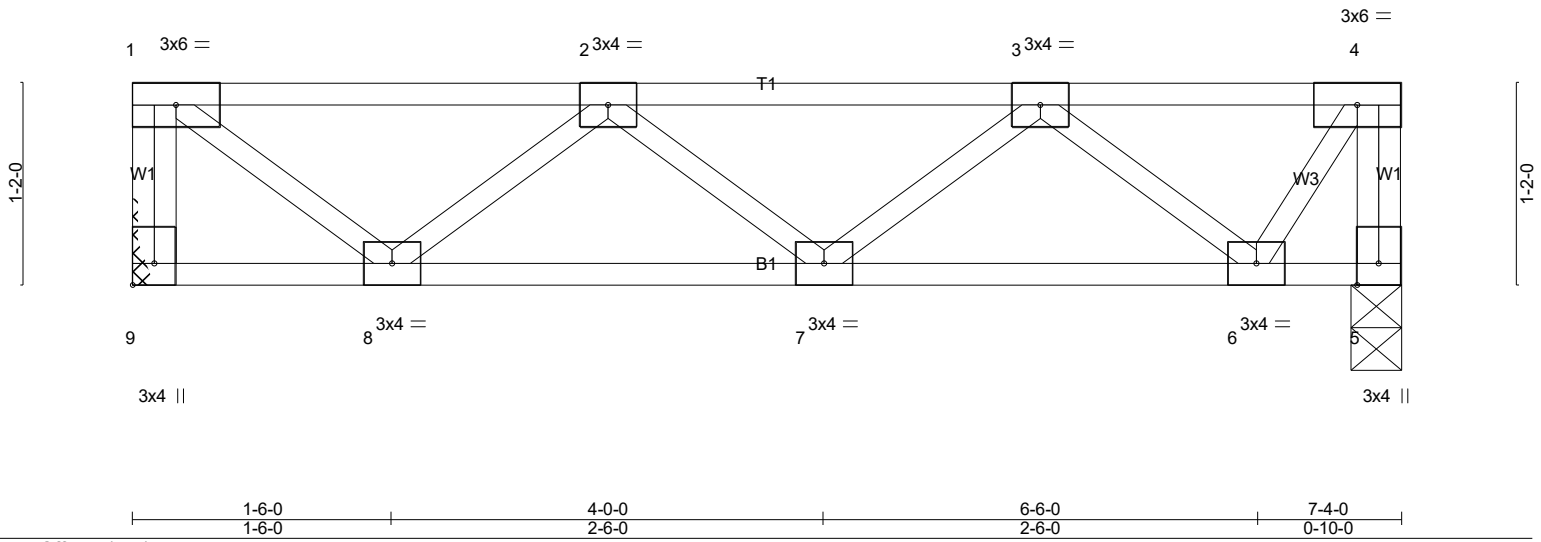


Plate Offsets (X,Y)-- [9:Edge,0-1-8]

LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.22	Vert(LL)	-0.01	7	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.11	Vert(CT)	-0.01	7	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.18	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-P						Weight: 40 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=311/Mechanical, 5=311/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-9=-307/0, 4-5=-312/0, 1-2=-295/0, 2-3=-510/0
BOT CHORD 7-8=0/543, 6-7=0/453
WEBS 1-8=0/370, 2-8=-323/0, 3-6=-367/0, 4-6=0/304

- NOTES-** (3-4)
- 1) Refer to girder(s) for truss to truss connections.
 - 2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - 3) Graphical 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.
 - 4) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

LOAD CASE(S) Standard



3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D*Onofrio Drive, Madison, WI 53719.

Job 23-B588-F02	Truss F211	Truss Type Floor	Qty 1	Ply 1	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC Job Reference (optional) # 46856
--------------------	---------------	---------------------	----------	----------	--

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:54 2024 Page 1
ID:6SrUsNRKh5asUkfhKHR8skysYGd-uG6oa6alJywTJ6qHpdqPDTkUo6wwdZwZQOeFgozY?Nx



Scale = 1:13.8

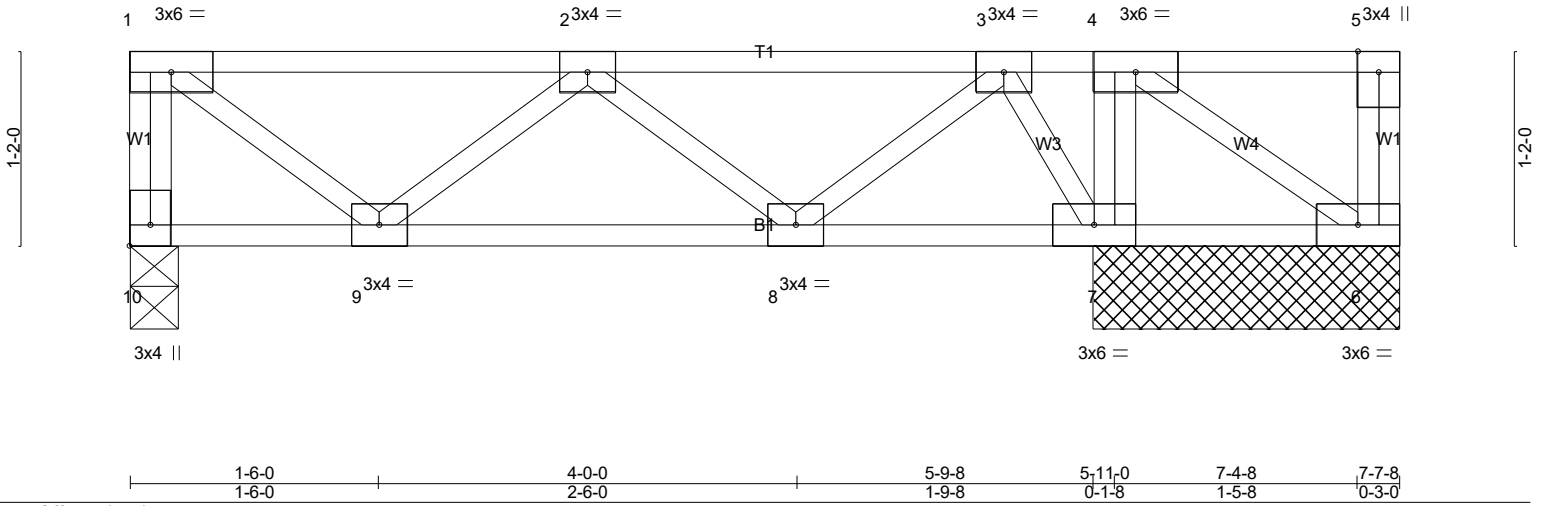


Plate Offsets (X,Y)-- [10:Edge,0-1-8]											
LOADING (psf)	SPACING-	1-7-3	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.22	Vert(LL)	-0.00	9	>999	480	MT20	244/190	
TCDL 10.0	Lumber DOL	1.00	BC 0.08	Vert(CT)	-0.01	8-9	>999	360			
BCLL 0.0	Rep Stress Incr	YES	WB 0.11	Horz(CT)	0.00	7	n/a	n/a			
BCDL 5.0	Code IRC2021/TPI2014		Matrix-P								
									Weight: 44 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: 6-7.

REACTIONS. (lb/size) 10=227/0-3-8 (min. 0-1-8), 6=-32/1-10-0 (min. 0-1-8), 7=454/1-10-0 (min. 0-1-8)
Max Uplift6=-32(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
BOT CHORD 8-9=0/332
WEBS 3-7=-307/0

NOTES- (4-5)
1) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 32 lb uplift at joint 6.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) CAUTION, Do not erect truss backwards.
4) Graphical 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.
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.

LOAD CASE(S) Standard

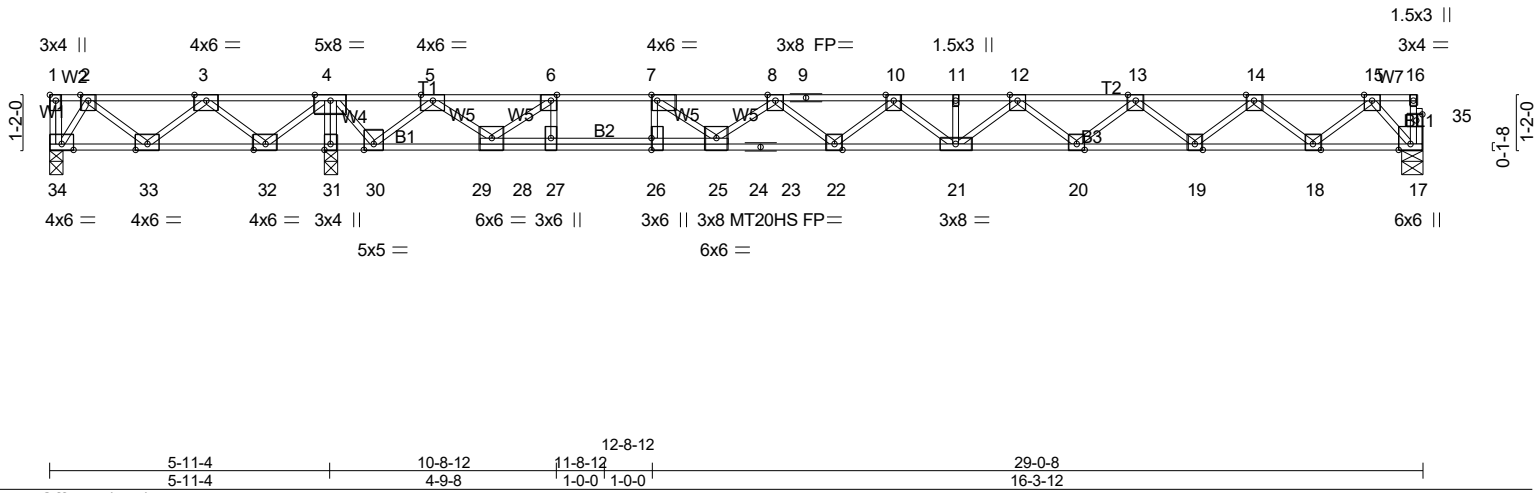


3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F212	Floor	2	1	# 46856

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:55 2024 Page 1
 ID:6SrUsNRkH5asUkfHKHR8skysYGd-MTgAoSawUG2KxGPTNLLelhHXvW6eMsFje2OoCEzY?Nw



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.71	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.75	Vert(LL) -0.47 21-22 >585 480	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.75	Vert(CT) -0.65 21-22 >426 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.04 17 n/a n/a		
	Code IRC2021/TPI2014				Weight: 154 lb FT = 20%F, 11%E

LUMBER-
 TOP CHORD 2x4 SP No.1(flat)
 BOT CHORD 2x4 SP SS(flat) *Except*
 B3: 2x4 SP No.1(flat)
 WEBS 2x4 SP No.3(flat)

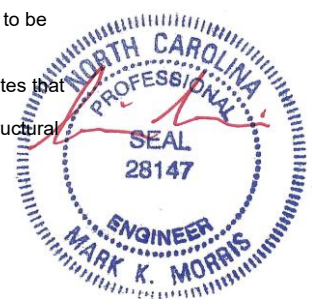
BRACING-
 TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
 BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 34=-439/0-3-8 (min. 0-1-8), 31=2137/0-3-8 (min. 0-1-8), 17=830/0-5-4 (min. 0-1-8)
 Max Uplift 34=-617(LC 4)
 Max Grav 34=58(LC 3), 31=2137(LC 1), 17=832(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=0/1186, 3-4=0/2838, 4-5=0/2847, 5-6=-57/607, 6-7=-1397/0, 7-8=-2599/0, 8-9=-3448/0, 9-10=-3448/0, 10-11=-3812/0, 11-12=-3812/0, 12-13=-3555/0, 13-14=-2810/0, 14-15=-1528/0
 BOT CHORD 33-34=-405/45, 32-33=-1995/0, 31-32=-3784/0, 30-31=-3808/0, 29-30=-1683/0, 28-29=-1639/0, 27-28=0/1397, 26-27=0/1397, 25-26=0/1397, 24-25=0/3118, 23-24=0/3203, 22-23=0/3203, 21-22=0/3717, 20-21=0/3784, 19-20=0/3305, 18-19=0/2291, 17-18=0/740
 WEBS 6-27=0/1071, 7-26=-998/0, 4-31=-2113/0, 4-32=0/1351, 3-32=-1281/0, 3-33=0/1052, 2-33=-1017/0, 2-34=-81/734, 6-28=-2261/0, 5-28=0/1468, 5-30=-1627/0, 4-30=0/1459, 7-25=0/1565, 8-25=-789/0, 8-22=0/342, 10-22=-372/0, 12-20=-299/0, 13-20=0/326, 13-19=-644/0, 14-19=0/675, 14-18=-993/0, 15-18=0/1025, 15-17=-1107/0

- NOTES-** (7-8)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 4x4 MT20 unless otherwise indicated.
 - 4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 617 lb uplift at joint 34.
 - 5) Required 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

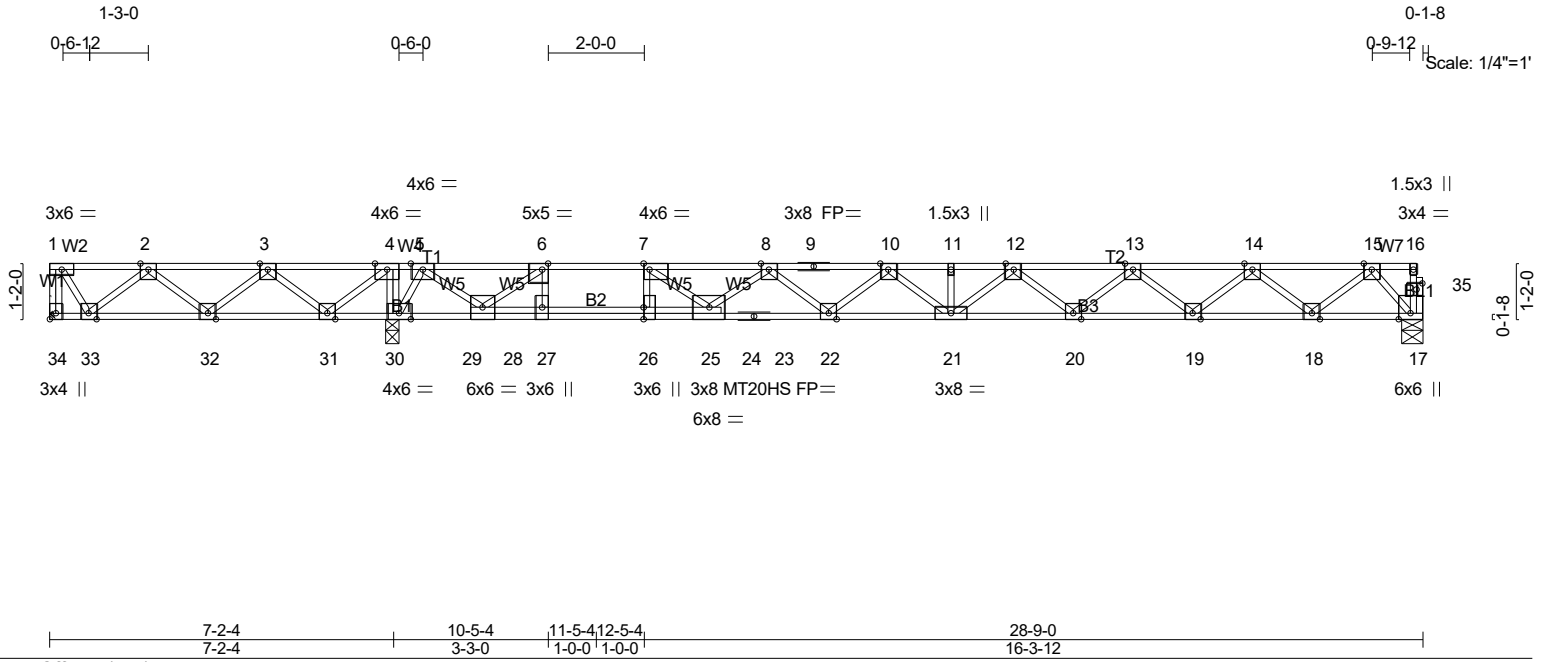


3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F213	Floor	5	1	# 46856

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:55 2024 Page 1
 ID:6SrUsNRKh5asUkfHKHR8skysYGd-MTGaoSawUG2KxGPTNLLelhHWPW7RMr7je2OoCEzY?NW



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.81	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.70	Vert(LL) -0.41 21-22 >634 480	MT20HS	187/143
BCLL 0.0	Lumber DOL 1.00	WB 0.82	Vert(CT) -0.56 21-22 >462 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.04 17 n/a n/a		
	Code IRC2021/TPI2014				Weight: 153 lb FT = 20%F, 11%E

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat) *Except* B3: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 32-33,31-32,30-31,28-30.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 34=-158/Mechanical, 30=1876/0-3-8 (min. 0-1-8), 17=783/0-5-4 (min. 0-1-8)
 Max Uplift 34=-371(LC 4)
 Max Grav 34=170(LC 3), 30=1876(LC 1), 17=788(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-34=-170/369, 1-2=-74/251, 2-3=-74/1244, 3-4=0/2392, 4-5=0/3082, 5-6=0/1392,
 6-7=-628/0, 7-8=-1965/0, 8-9=-2929/0, 9-10=-2929/0, 10-11=-3400/0, 11-12=-3400/0,
 12-13=-3251/0, 13-14=-2611/0, 14-15=-1435/0
 BOT CHORD 32-33=-723/190, 31-32=-1795/0, 30-31=-3082/0, 29-30=-2532/0, 28-29=-2472/0,
 27-28=0/628, 26-27=0/628, 25-26=0/628, 24-25=0/2562, 23-24=0/2631, 22-23=0/2631,
 21-22=0/3249, 20-21=0/3428, 19-20=0/3054, 18-19=0/2146, 17-18=0/701
 WEBS 6-27=0/1125, 7-26=-1081/0, 4-30=-851/0, 4-31=0/1048, 3-31=-1023/0, 3-32=0/718,
 2-32=-677/0, 2-33=-151/615, 1-33=-455/134, 6-28=-2387/0, 5-28=0/1486, 5-30=-1128/0,
 7-25=0/1717, 8-25=-859/0, 8-22=0/404, 10-22=-433/0, 13-20=0/257, 13-19=-576/0,
 14-19=0/606, 14-18=-925/0, 15-18=0/956, 15-17=-1047/0

- NOTES-** (8-9)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are MT20 plates unless otherwise indicated.
 - 3) All plates are 4x4 MT20 unless otherwise indicated.
 - 4) Refer to girder(s) for truss to truss connections.
 - 5) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 371 lb uplift at joint 34.
 - 6) Required 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



3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F214	Floor Supported Gable	1	1	Job Reference (optional) # 46856

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:56 2024 Page 1
 ID:6SrUsNRKh5asUkfHKHR8skysYGd-qfDY?obYFaAAyQ_fx2stluqtrvdV5Testi7LkgzY?Nv

0-1-8

Scale = 1:47.2

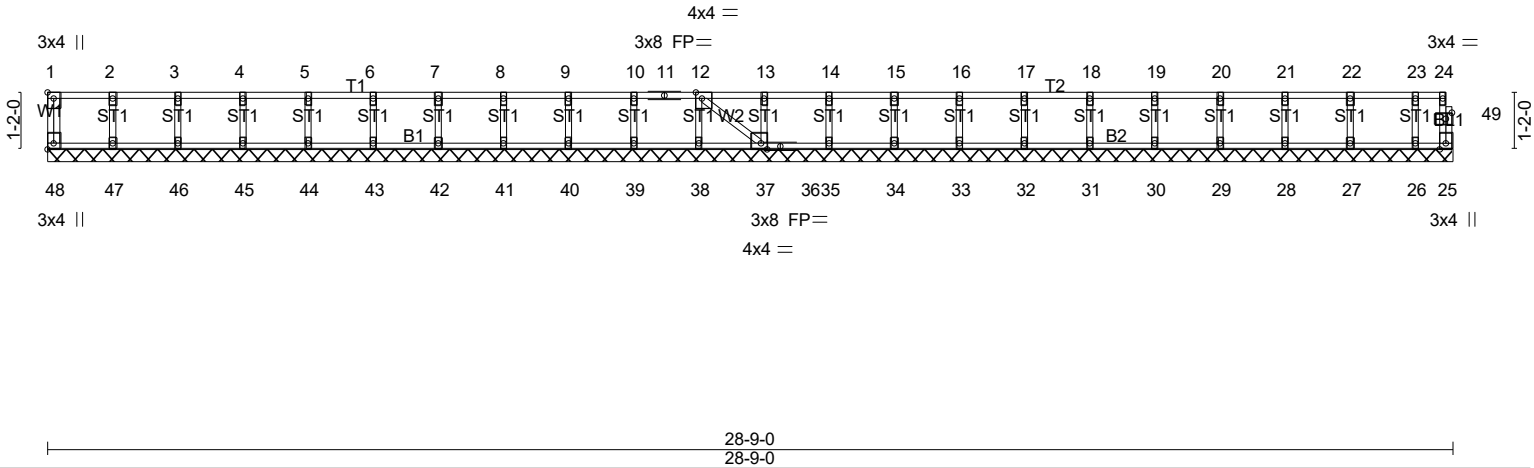


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [12:0-1-8,Edge], [37:0-1-8,Edge], [48:Edge,0-1-8], [49:0-1-8,0-1-8]

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	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	25	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 121 lb	FT = 20%F, 11%E

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

REACTIONS. All bearings 28-9-0.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 25, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26

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) 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



3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D*Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F216	Floor Supported Gable	1	1	# 46856

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:56 2024 Page 1
 ID:6SrUsNRKh5asUkfHKHR8skysYGd-qfDY?obYFaAAyQ_fx2stluqtrvdV5Testi7LkgzY?Nv

0₁-8

Scale = 1:21.2

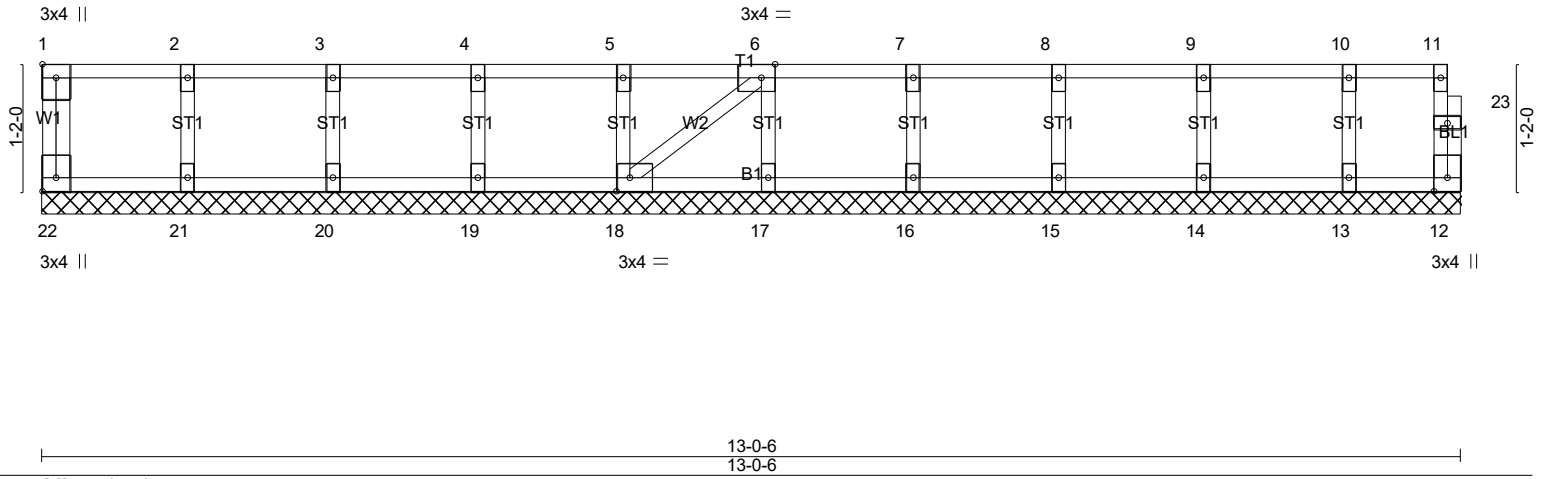


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [18:0-1-8,Edge], [22:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	12	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH					Weight: 58 lb	FT = 20%F, 11%E
	Code IRC2021/TPI2014							

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 13-0-6.
 (lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

- NOTES-** (7-8)
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION. Do not erect truss backwards.
 - Graphical 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.
 - 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

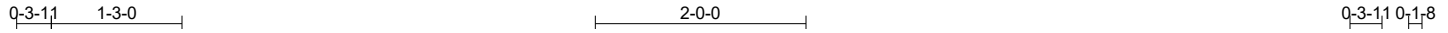


3/22/2024

Warning!—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F217	Floor	7	1	# 46856

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:56 2024 Page 1
 ID:6SrUsNRKh5asUkfHKHR8skysYGd-qfDY?obYFaAAYQ_fx2stluqquvWt5O1stl7LkgZY?Nv



Scale = 1:21.7

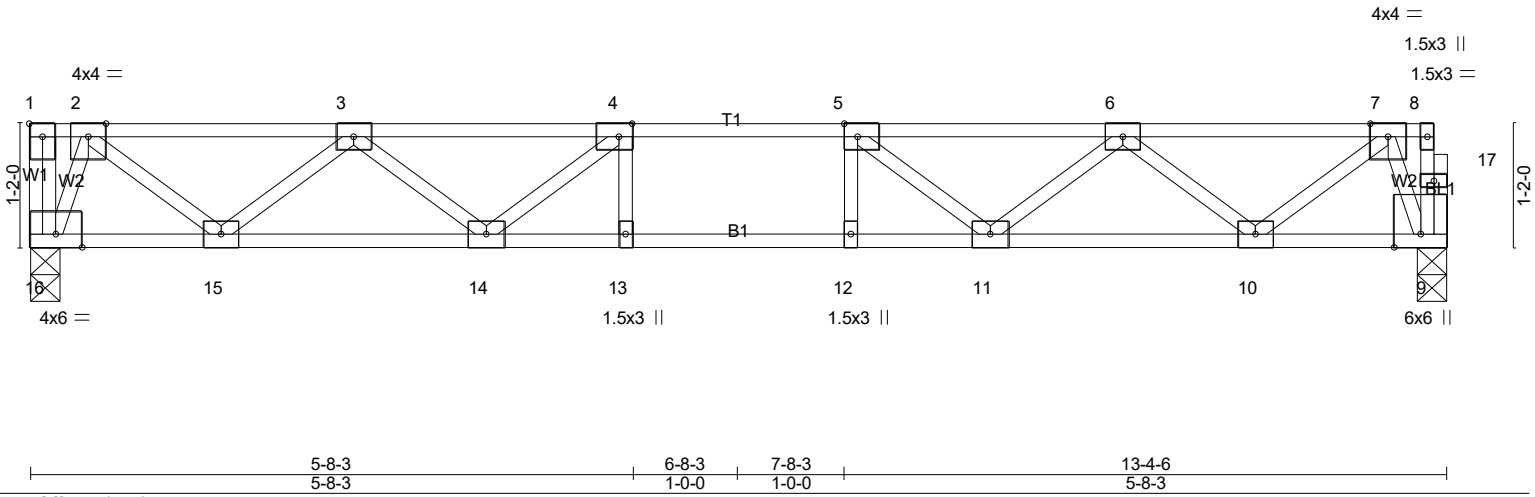


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge]					
LOADING (psf)	SPACING- 1-7-3	CSI.	DEFL. in (loc) l/defl L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL 1.00	TC 0.25	Vert(LL) -0.09 13-14 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.49	Vert(CT) -0.11 13-14 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.33	Horz(CT) 0.02 9 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH			Weight: 69 lb FT = 20%F, 11%E

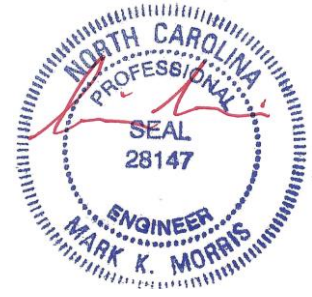
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

REACTIONS. (lb/size) 16=577/0-3-8 (min. 0-1-8), 9=572/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 2-3=-789/0, 3-4=-1548/0, 4-5=-1794/0, 5-6=-1548/0, 6-7=-789/0
 BOT CHORD 15-16=0/261, 14-15=0/1296, 13-14=0/1794, 12-13=0/1794, 11-12=0/1794, 10-11=0/1296, 9-10=0/260
 WEBS 4-14=-419/0, 3-14=0/350, 3-15=-659/0, 2-15=0/688, 2-16=-680/0, 5-11=-419/0, 6-11=0/350, 6-10=-659/0, 7-10=0/688, 7-9=-691/0

- NOTES-** (5-6)
- 1) Unbalanced floor live loads have been considered for this design.
 - 2) All plates are 3x4 MT20 unless otherwise indicated.
 - 3) 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



3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D*Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F218	Floor	5	1	Job Reference (optional) # 46856

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:57 2024 Page 1
 ID:6SrUsNRKh5asUkfhKHR8skysYGd-lmwC7cA0t11AaZrVmN6q6M_VJsuqrW06MtvG7zY?Nu

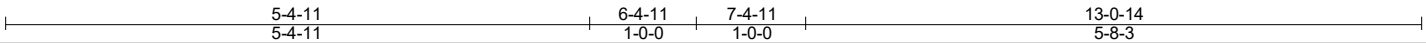
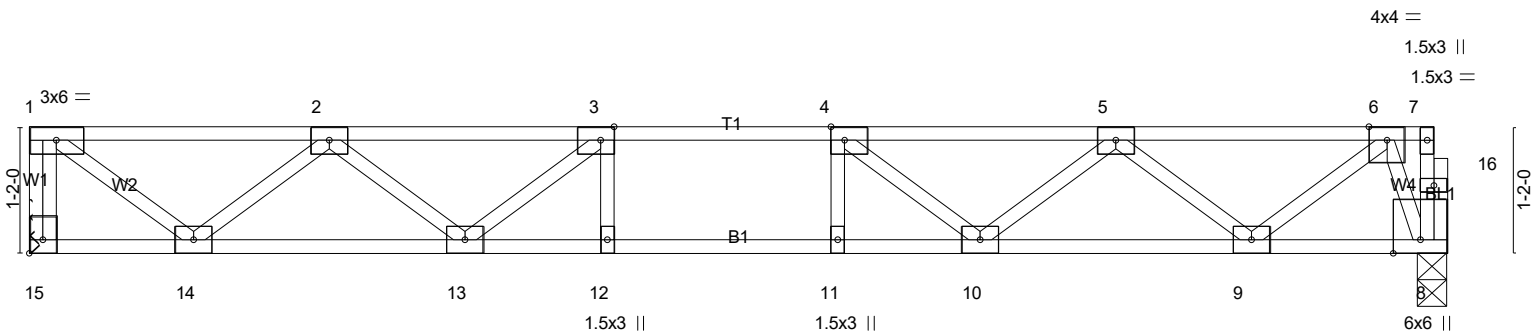


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [15:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	1-7-3	TC 0.26	Vert(LL)	-0.09	10-11	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.51	Vert(CT)	-0.11	10-11	>999		
BCLL 0.0	Lumber DOL 1.00	WB 0.38	Horz(CT)	0.02	8	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH						
	Code IRC2021/TPI2014						Weight: 67 lb	FT = 20%F, 11%E

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

REACTIONS. (lb/size) 15=564/Mechanical, 8=559/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-15=-559/0, 1-2=-633/0, 2-3=-1444/0, 3-4=-1712/0, 4-5=-1497/0, 5-6=-768/0
 BOT CHORD 13-14=0/1181, 12-13=0/1712, 11-12=0/1712, 10-11=0/1712, 9-10=0/1262, 8-9=0/254
 WEBS 3-13=-435/0, 2-13=0/359, 2-14=-713/0, 1-14=0/791, 4-10=-385/0, 5-10=0/330, 5-9=-642/0, 6-9=0/669, 6-8=-675/0

- NOTES- (6-7)
- Unbalanced floor live loads have been considered for this design.
 - All plates are 3x4 MT20 unless otherwise indicated.
 - Refer to girder(s) for truss to truss connections.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION, Do not erect truss backwards.
 - 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.
 - 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



3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.

Job	Truss	Truss Type	Qty	Ply	LOT 0.0099 BLAKE POND 63 WHIMBREL COURT LILLINGTON, NC
23-B588-F02	F219	Floor Supported Gable	1	1	# 46856

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Sat Mar 23 17:17:57 2024 Page 1
ID:6SrUsNRKh5asUkfHKHR8skysYGd-lrmwC7cA0t1AaZrVmN6q6M2aJzkqwu06MtvG7zY?Nu

0₁-8

Scale = 1:21.2

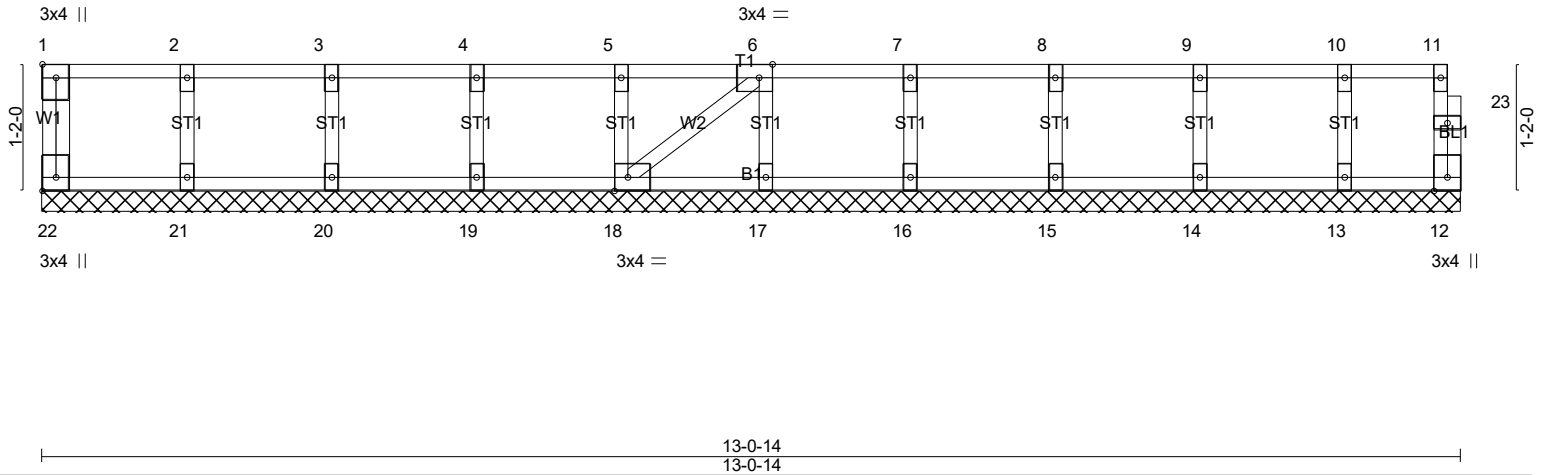


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [6:0-1-8,Edge], [18:0-1-8,Edge], [22:Edge,0-1-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.06	Vert(LL)	n/a	-	n/a	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.01	Vert(CT)	n/a	-	n/a		
BCLL 0.0	Lumber DOL 1.00	WB 0.03	Horz(CT)	0.00	12	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH						
	Code IRC2021/TPI2014						Weight: 58 lb	FT = 20%F, 11%E

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

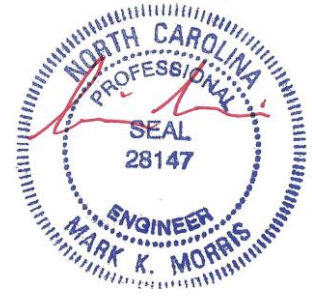
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. All bearings 13-0-14.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 22, 12, 21, 20, 19, 18, 17, 16, 15, 14, 13

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

- NOTES-** (7-8)
- All plates are 1.5x3 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 1-4-0 oc.
 - Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
 - CAUTION. Do not erect truss backwards.
 - Graphical 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.
 - 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



3/22/2024

Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSI/TPI 1 *National Design Standard for Metal Plate Connected Wood Truss Construction* and BCSI 1-03 *Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses* from Truss Plate Institute, 583 D'Onofrio Drive, Madison, WI 53719.