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 #: 49395
JOB: 24-4823-F02
JOB NAME: LOT 0.0038 HONEYCUTT HILLS
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:
F201, F202, F203, F204, F205, F207, F208, F209, F210, F211, F212, F213, F214, F215, F216, F217, F218, F219, F220, F221, F223, F224, F225

6/5/2024
Mark Morris

Warning !—Verify design parameters and read notes before use.

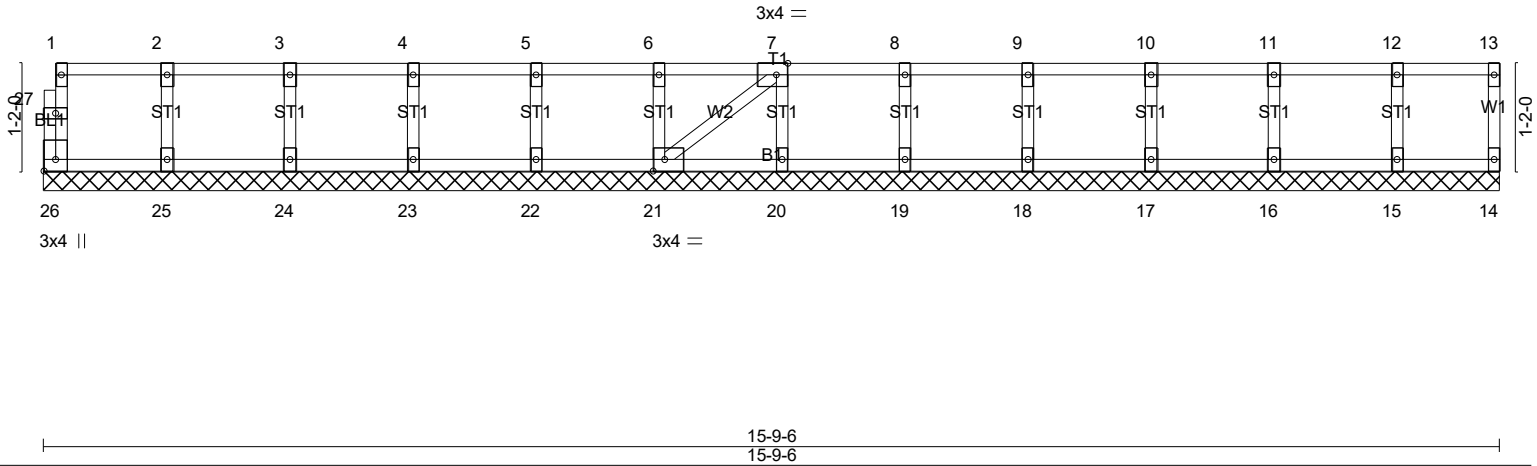
This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is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

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F201	Floor Supported Gable	1	1	# 49395
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:09 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-qqk3sFxS5IjpCJAs?k9rvpLxscOU8g9eUuWWo5z9Lky

0-1-8

Scale = 1:25.0



15-9-6
15-9-6

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [21:0-1-8,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 15-9-6.
(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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F202	Floor	3	1	Job Reference (optional) **# 49395**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:10 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-I1IR4by4sbrgqTl3ZSg4S0u_n0V8t_JnjYF4KYz9Lkx

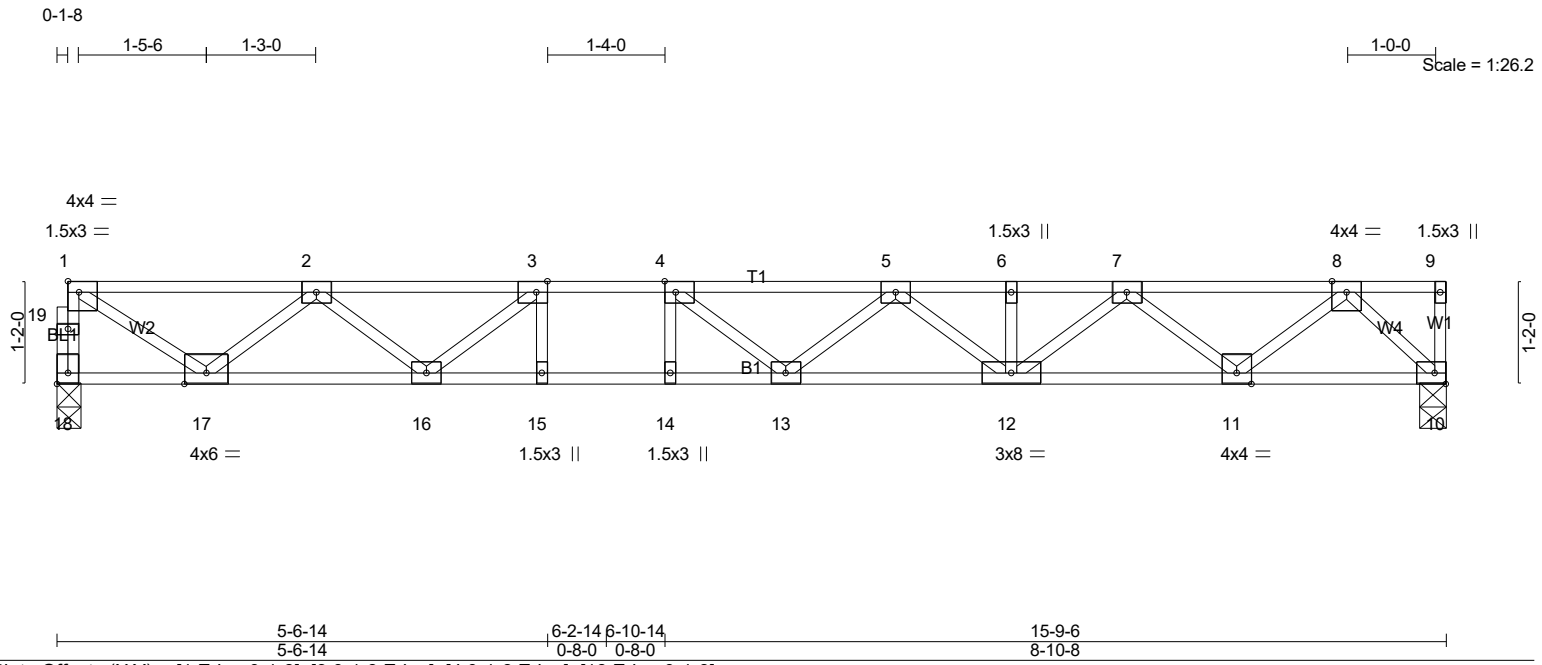


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge], [18:Edge,0-1-8]

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	0.56	Vert(LL)	-0.22	13-14	>862	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.30	13-14	>627	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.61	Horz(CT)	0.05	10	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 80 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 1-4-12 oc bracing.

REACTIONS. (lb/size) 18=851/0-3-6 (min. 0-1-8), 10=858/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-19=-848/0, 1-19=-847/0, 1-2=-1111/0, 2-3=-2448/0, 3-4=-3050/0, 4-5=-3152/0, 5-6=-2740/0, 6-7=-2740/0, 7-8=-1587/0
BOT CHORD 16-17=0/1950, 15-16=0/3050, 14-15=0/3050, 13-14=0/3050, 12-13=0/3124, 11-12=0/2291, 10-11=0/849
WEBS 3-15=-16/294, 4-14=-272/38, 3-16=-829/0, 2-16=0/649, 2-17=-1092/0, 1-17=0/1288, 4-13=-219/326, 5-12=-490/0, 7-12=0/573, 7-11=-916/0, 8-11=0/961, 8-10=-1189/0

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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F203	Floor	1	1	Job Reference (optional) **# 49395**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:11 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-mDspHxyidvzXSdKF79BJ_EQ7SQwmcTSxxC?dt_z9Lkw

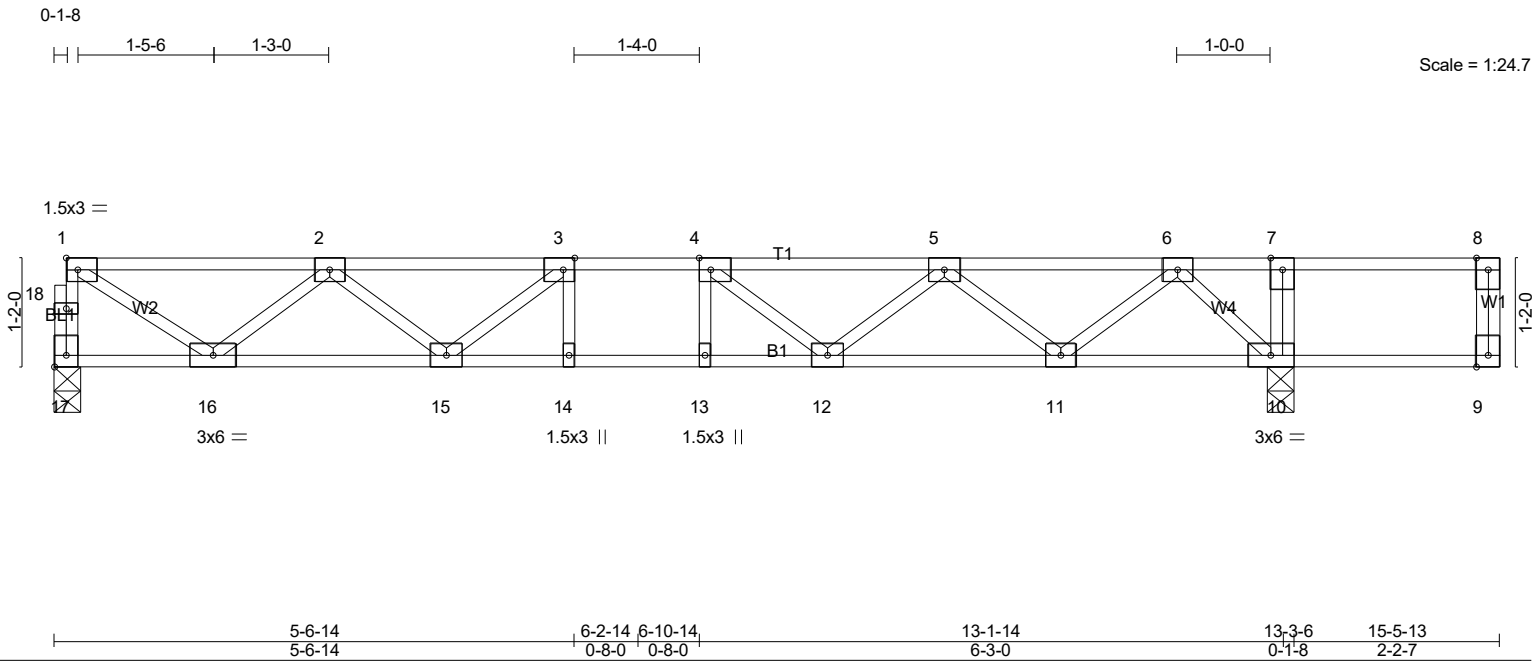


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [17:Edge,0-1-8]

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	0.69	Vert(LL)	-0.10	13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.13	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.49	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 77 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 17=690/0-3-6 (min. 0-1-8), 10=980/0-3-8 (min. 0-1-8)
Max Grav 17=705(LC 3), 10=980(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 17-18=-699/0, 1-18=-698/0, 1-2=-893/0, 2-3=-1875/0, 3-4=-2193/0, 4-5=-2019/0, 5-6=-1240/0
BOT CHORD 15-16=0/1568, 14-15=0/2193, 13-14=0/2193, 12-13=0/2193, 11-12=0/1800, 10-11=-25/676
WEBS 7-10=-382/0, 3-15=-503/0, 2-15=0/420, 2-16=-879/0, 1-16=0/1034, 4-12=-405/10, 5-12=0/382, 5-11=-781/0, 6-11=0/735, 6-10=-921/34

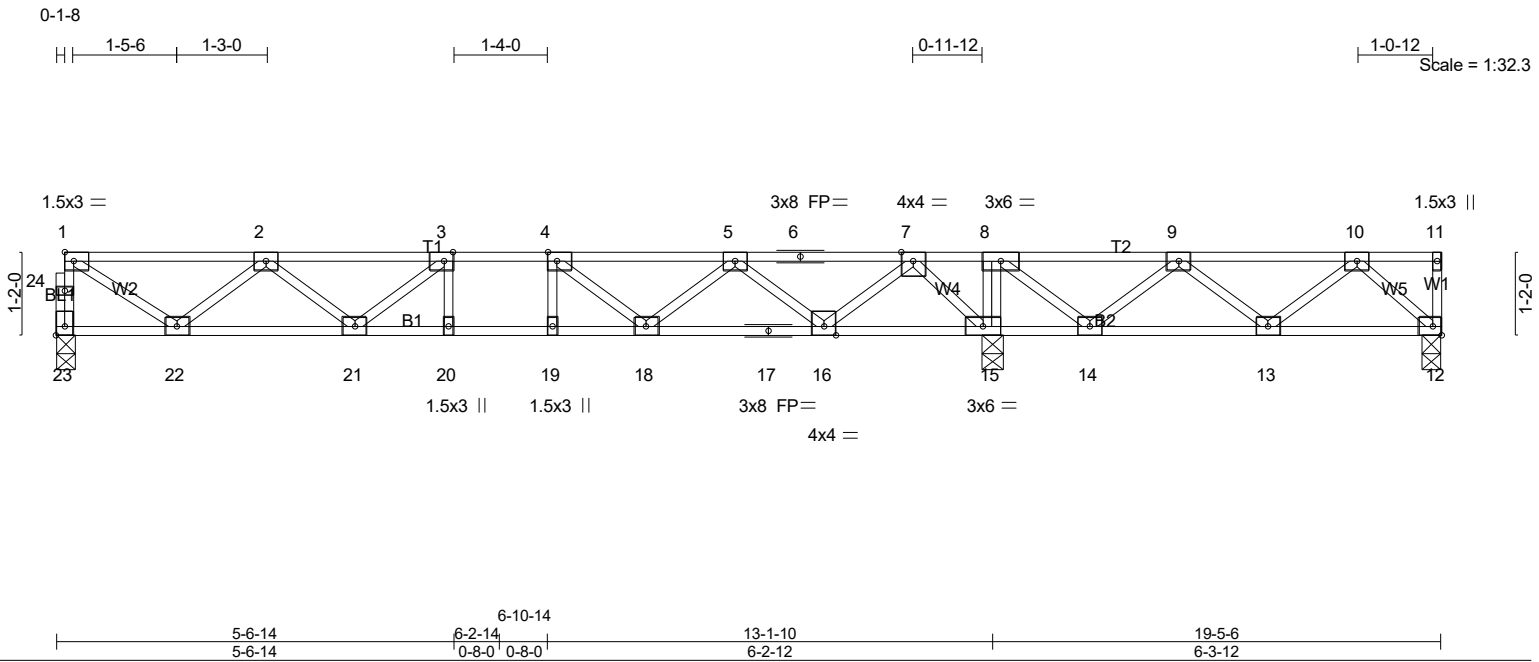
NOTES- (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
4) Recommend 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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F204	Floor	1	1	# 49395
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:12 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-FPQBUHzKOD5O3mvRhtiYXRzMVpHELxa4AskBPQz9Lkv



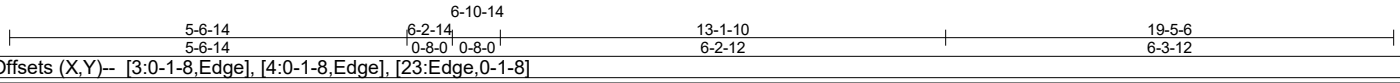


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [23:Edge,0-1-8]

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	0.42	Vert(LL)	-0.07	20	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.52	Vert(CT)	-0.09	20	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	15	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)

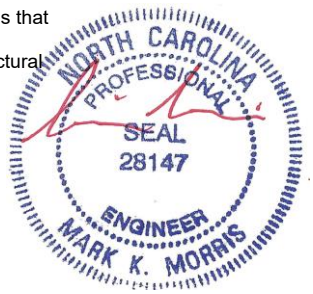
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 23=596/0-3-6 (min. 0-1-8), 12=107/0-3-8 (min. 0-1-8), 15=1410/0-3-8 (min. 0-1-8)
Max Uplift12=-127(LC 3)
Max Grav 23=603(LC 3), 12=263(LC 4), 15=1410(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 23-24=-596/0, 1-24=-595/0, 1-2=-742/0, 2-3=-1477/0, 3-4=-1599/0, 4-5=-1227/0, 7-8=0/1363, 8-9=0/936, 9-10=-279/369
BOT CHORD 21-22=0/1304, 20-21=0/1599, 19-20=0/1599, 18-19=0/1599, 17-18=0/877, 16-17=0/877, 15-16=-575/0, 14-15=-1363/0, 13-14=-621/277
WEBS 8-15=-634/0, 3-21=-255/29, 2-22=-732/0, 1-22=0/857, 4-18=-515/0, 5-18=0/468, 5-16=-880/0, 7-16=0/917, 7-15=-1127/0, 8-14=0/730, 9-14=-671/0, 9-13=0/328, 10-13=-283/41, 10-12=-338/206

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 127 lb uplift at joint 12.
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



6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F205	Floor	1	1	# 49395
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:14 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-BoYyvy?bwqL6J43qoll0cs2i0dzjpr3NdADHTJz9Lkt

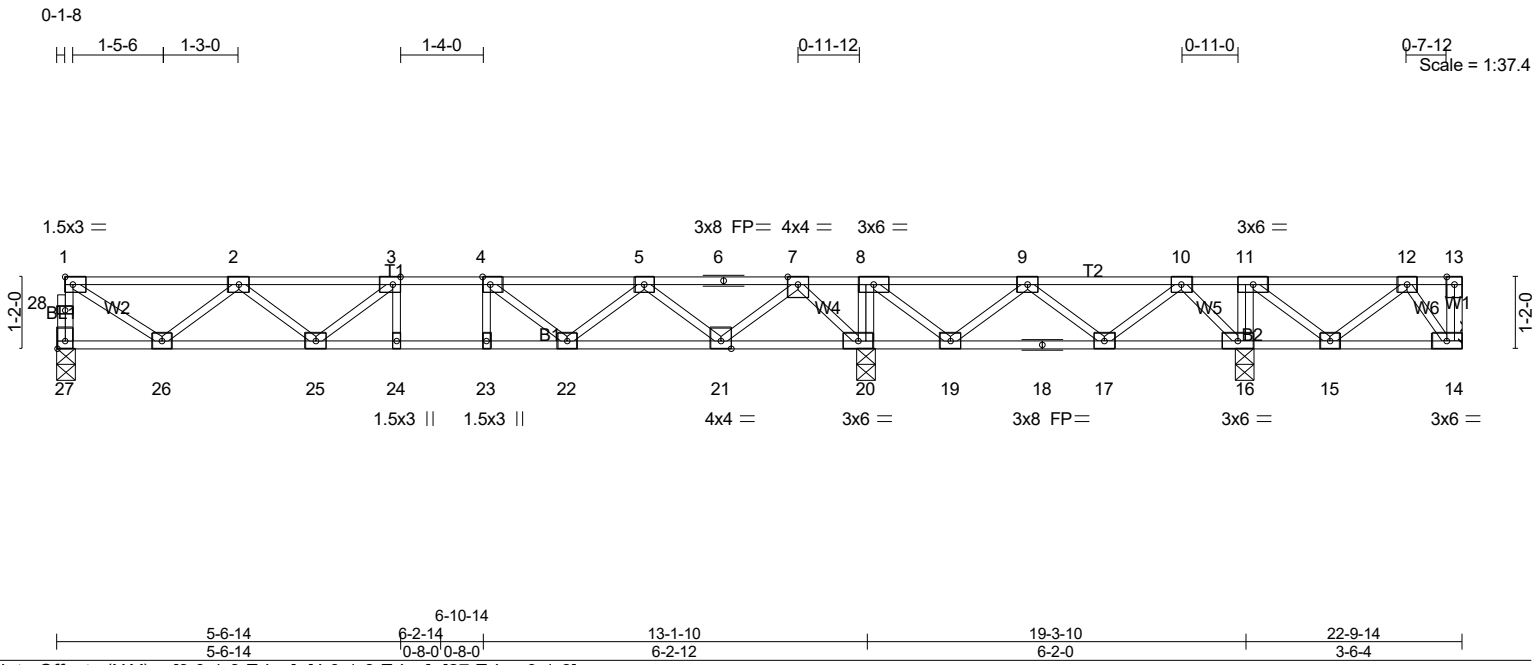


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [27:Edge,0-1-8]

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	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.51	Vert(CT)	-0.09	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: 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)

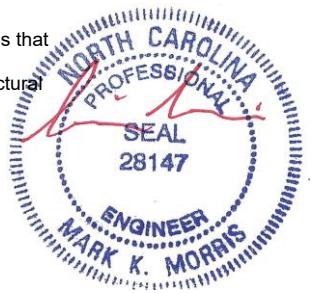
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. All bearings 0-3-8 except (jt=length) 27=0-3-6, 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=1399(LC 3), 16=552(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 27-28=-596/0, 1-28=-595/0, 1-2=-741/0, 2-3=-1474/0, 3-4=-1595/0, 4-5=-1222/0, 7-8=0/1358, 8-9=0/919, 9-10=-154/311
BOT CHORD 25-26=0/1302, 24-25=0/1595, 23-24=0/1595, 22-23=0/1595, 21-22=0/871, 20-21=-566/0, 19-20=-1358/0, 18-19=-581/200, 17-18=-581/200
WEBS 8-20=-624/0, 11-16=-312/0, 3-25=-257/25, 2-26=-731/0, 1-26=0/856, 4-22=-511/0, 5-22=0/467, 5-21=-879/0, 7-21=0/917, 7-20=-1128/0, 8-19=0/714, 9-19=-655/0, 9-17=-73/351, 10-17=-309/111, 10-16=-359/294, 12-14=-289/13

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



6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F207	Floor	3	1	Job Reference (optional) **# 49395**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:15 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-f_6K7I0Dh8TzwEe0M?GF94btQ1JVYH6Wsqzr0lz9Lks

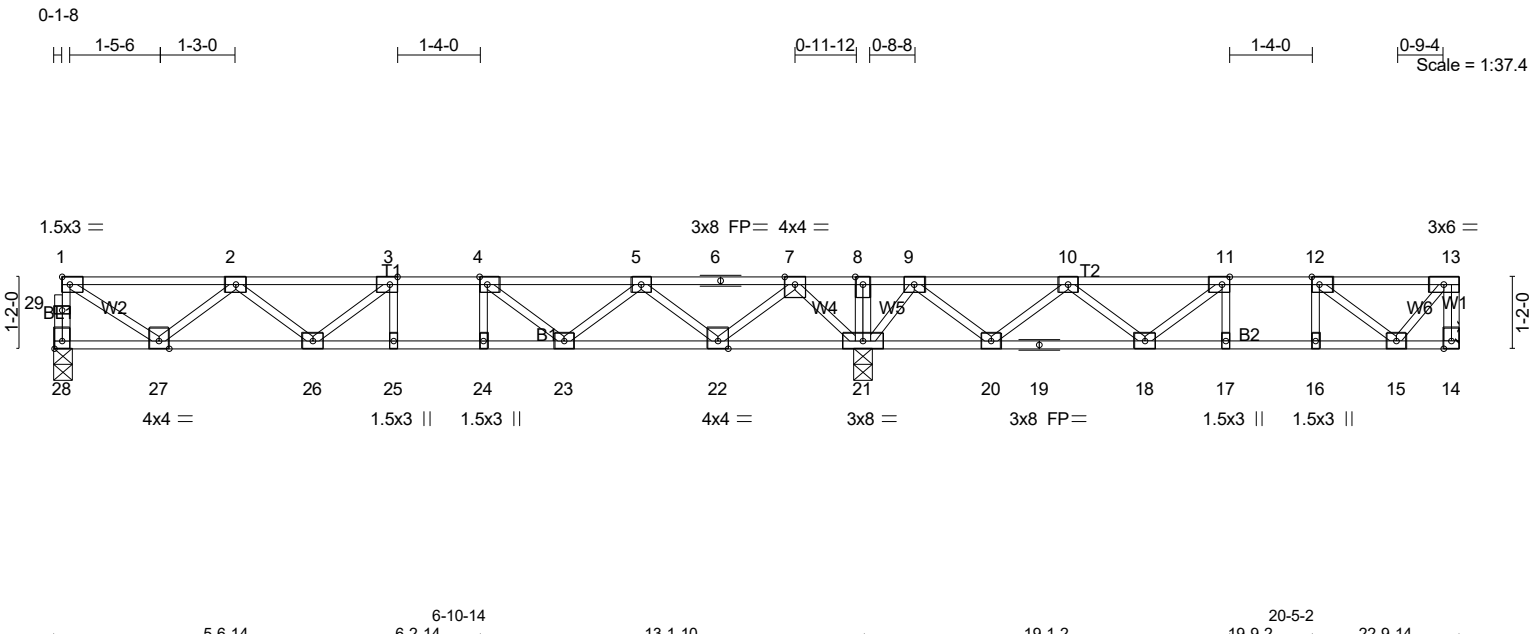


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [28:Edge,0-1-8]

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	0.44	Vert(LL)	-0.07	25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.10	25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	21	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 117 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)

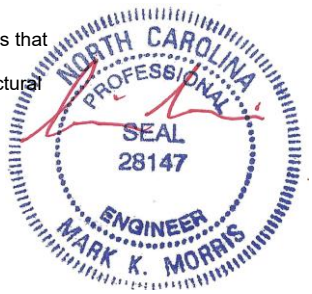
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 28=579/0-3-6 (min. 0-1-8), 14=349/Mechanical, 21=1549/0-3-8 (min. 0-1-8)
Max Grav 28=618(LC 3), 14=424(LC 4), 21=1549(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 28-29=-612/0, 1-29=-611/0, 13-14=-407/0, 1-2=-764/0, 2-3=-1536/0, 3-4=-1687/0, 4-5=-1344/18, 5-6=-367/406, 6-7=-367/406, 7-8=0/1648, 8-9=0/1648, 9-10=-69/659, 10-11=-686/260, 11-12=-746/67, 12-13=-281/1
BOT CHORD 26-27=0/1343, 25-26=0/1687, 24-25=0/1687, 23-24=0/1687, 22-23=-187/1014, 21-22=-797/0, 20-21=-1112/0, 19-20=-434/552, 18-19=-434/552, 17-18=-67/746, 16-17=-67/746, 15-16=-67/746
WEBS 2-26=-1/251, 2-27=-754/0, 1-27=0/884, 4-23=-593/0, 5-23=0/504, 5-22=-904/0, 7-22=0/943, 7-21=-1174/0, 11-18=-365/0, 10-18=0/325, 10-20=-736/0, 9-20=0/764, 9-21=-876/0, 12-15=-594/84, 13-15=-1/431

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



6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F208	Floor	6	1	Job Reference (optional) **# 49395**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:16 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-7BfiKe0rSRbqYOCCwinUhH83nRdjHlzg5UiOYBz9Lkr

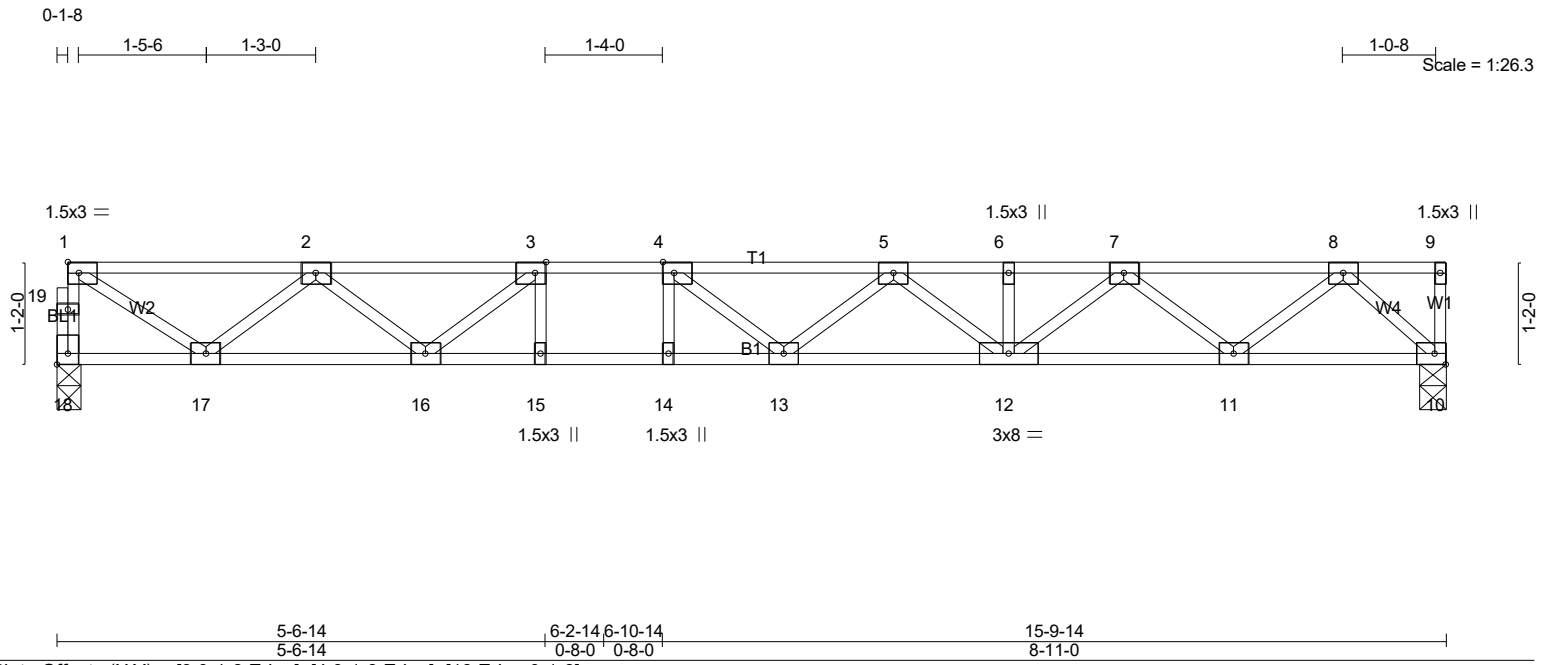


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [18:Edge,0-1-8]

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	0.33	Vert(LL)	-0.15	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.20	13-14	>934	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 80 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 18=569/0-3-6 (min. 0-1-8), 10=573/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-19=-567/0, 1-19=-566/0, 1-2=-743/0, 2-3=-1638/0, 3-4=-2042/0, 4-5=-2113/0, 5-6=-1842/0, 6-7=-1842/0, 7-8=-1078/0
BOT CHORD 16-17=0/1304, 15-16=0/2042, 14-15=0/2042, 13-14=0/2042, 12-13=0/2097, 11-12=0/1545, 10-11=0/587
WEBS 3-16=-556/0, 2-16=0/435, 2-17=-730/0, 1-17=0/861, 5-12=-325/0, 7-12=0/379, 7-11=-608/0, 8-11=0/639, 8-10=-807/0

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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F209	Floor	2	1	# 49395
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:17 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-bND4Y_1TDljhAYnPTQIjEVgGPq0x0DPpK8Sx4ez9Lkq

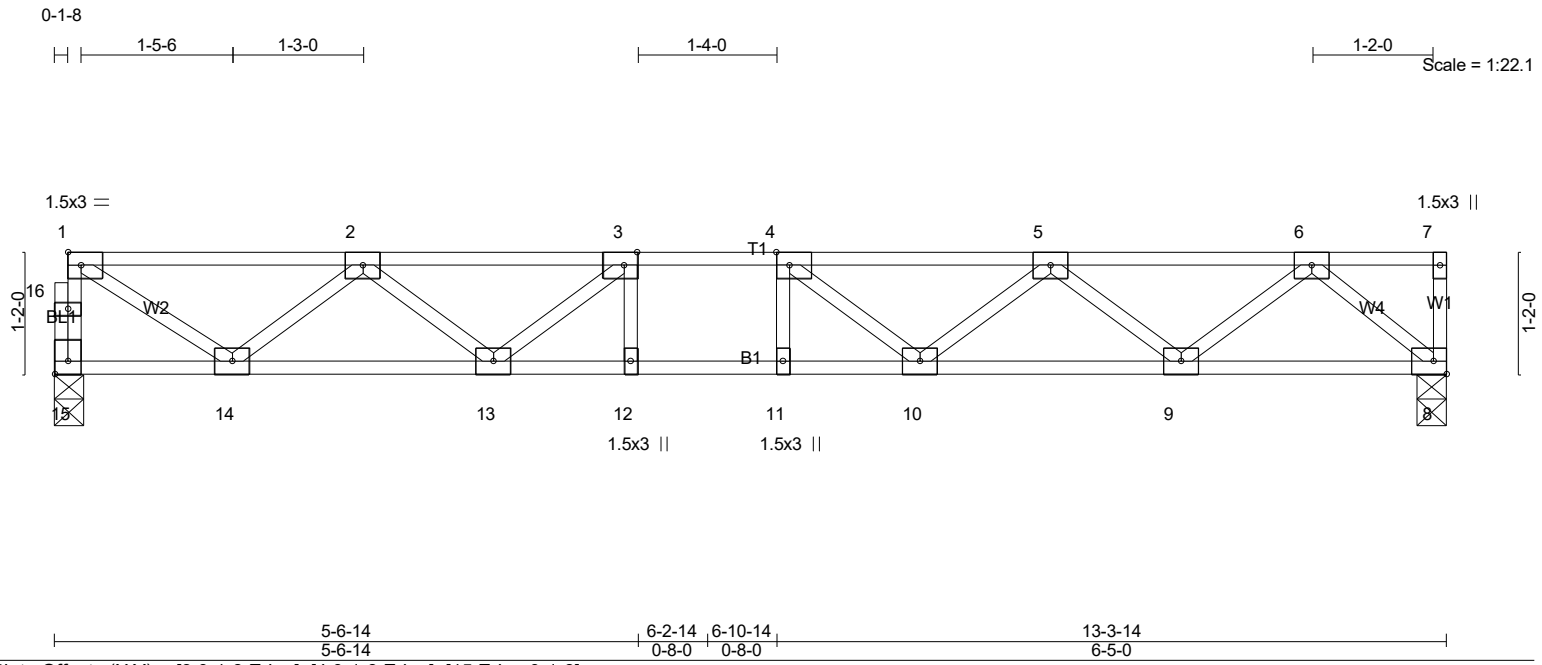


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [15:Edge,0-1-8]

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)	-0.07	11	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.42	Vert(CT)	-0.09	11	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.33	Horz(CT)	0.02	8	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)

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=477/0-3-6 (min. 0-1-8), 8=482/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 15-16=-474/0, 1-16=-473/0, 1-2=-607/0, 2-3=-1279/0, 3-4=-1506/0, 4-5=-1403/0, 5-6=-911/0
BOT CHORD 13-14=0/1065, 12-13=0/1506, 11-12=0/1506, 10-11=0/1506, 9-10=0/1269, 8-9=0/532
WEBS 3-13=-353/0, 2-13=0/292, 2-14=-597/0, 1-14=0/702, 5-9=-467/0, 6-9=0/493, 6-8=-698/0

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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F210	Floor	7	1	Job Reference (optional) **# 49395**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:19 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-YmLryg3jkMzPPrxnbrKBJwma0eeOU6j6nRx29Wz9Lko

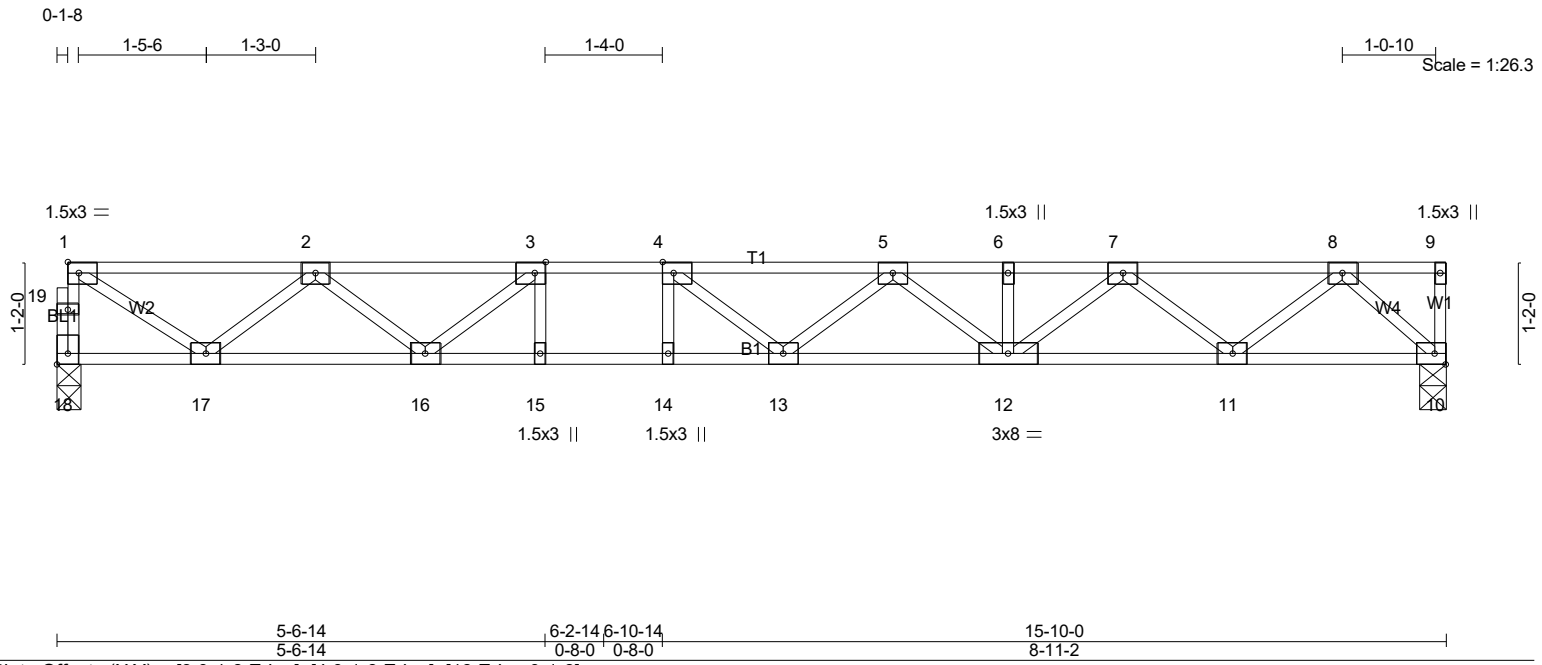


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [18:Edge,0-1-8]

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	0.33	Vert(LL)	-0.15	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.20	13-14	>932	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	10	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 80 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 18=570/0-3-6 (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 18-19=-567/0, 1-19=-566/0, 1-2=-744/0, 2-3=-1640/0, 3-4=-2045/0, 4-5=-2116/0, 5-6=-1846/0, 6-7=-1846/0, 7-8=-1083/0
BOT CHORD 16-17=0/1305, 15-16=0/2045, 14-15=0/2045, 13-14=0/2045, 12-13=0/2100, 11-12=0/1550, 10-11=0/593
WEBS 3-16=-557/0, 2-16=0/436, 2-17=-731/0, 1-17=0/862, 5-12=-324/0, 7-12=0/379, 7-11=-608/0, 8-11=0/638, 8-10=-811/0

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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F211	Floor	8	1	# 49395
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:20 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-0yvDA03MVg5F1?W_9YsQr7In623mDauF05gchzz9Lkn

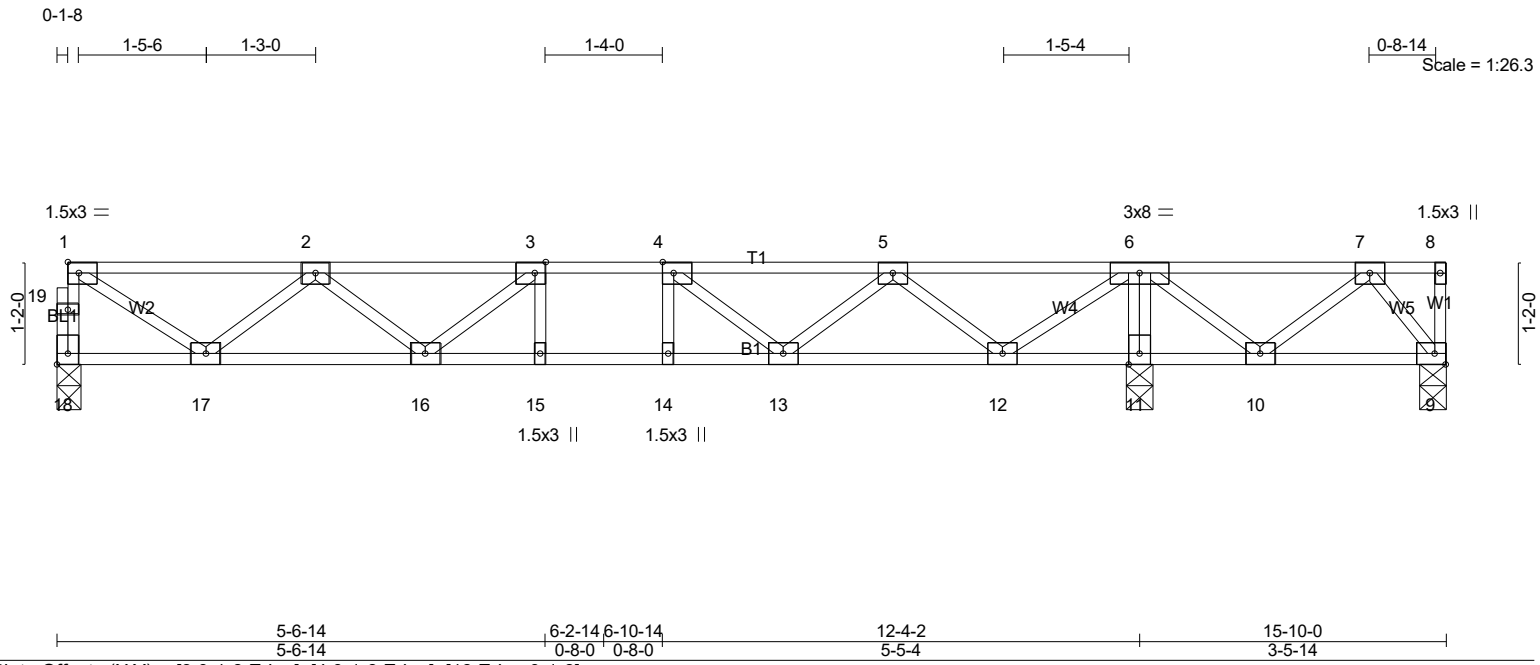


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [18:Edge,0-1-8]

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	0.25	Vert(LL)	-0.04	15-16	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.35	Vert(CT)	-0.06	15-16	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.35	Horz(CT)	0.01	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)

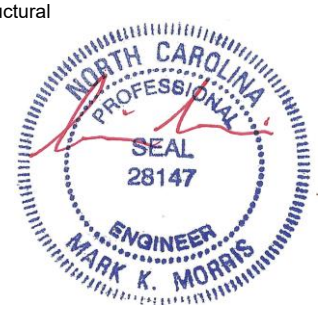
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 18=380/0-3-6 (min. 0-1-8), 11=863/0-3-8 (min. 0-1-8), 9=-100/0-3-8 (min. 0-1-8)
Max Uplift9=-188(LC 3)
Max Grav 18=382(LC 3), 11=863(LC 1), 9=60(LC 4)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 18-19=-377/0, 1-19=-376/0, 1-2=-464/0, 2-3=-904/0, 3-4=-945/0, 4-5=-660/0, 6-7=0/406
BOT CHORD 16-17=0/815, 15-16=0/945, 14-15=0/945, 13-14=0/945, 12-13=0/402, 11-12=-689/0, 10-11=-693/0
WEBS 6-11=-844/0, 2-17=-458/0, 1-17=0/536, 4-13=-369/0, 5-13=0/342, 5-12=-622/0, 6-12=0/738, 6-10=0/408, 7-10=-373/0, 7-9=-89/256

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) 9=188.
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



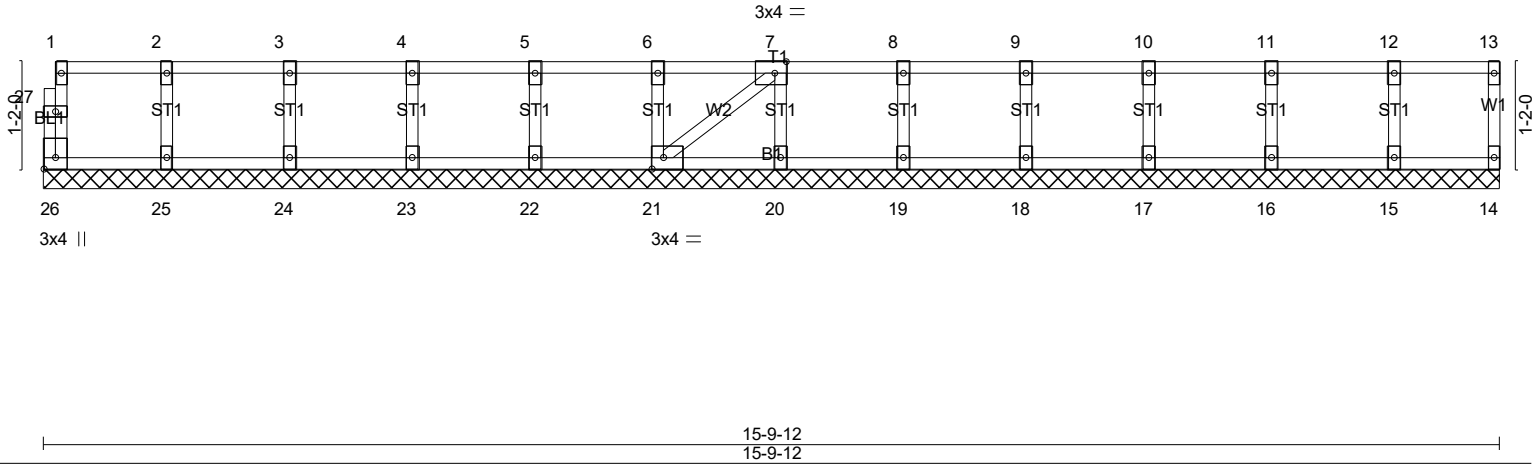
6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F212	Floor Supported Gable	1	1	# 49395
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:20 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-0yvDA03MVg5F1?W_9YsQr7lq4283DfuF05gchzz9Lkn

0-1-8

Scale = 1:25.0



15-9-12
15-9-12

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [21:0-1-8,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 15-9-12.
(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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F213	Floor Girder	1	1	Job Reference (optional) **# 49395**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:21 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-U8TbNM4_G_D6f95AiGNfOLrtpSUFy6VPElQ9DPz9Lkm

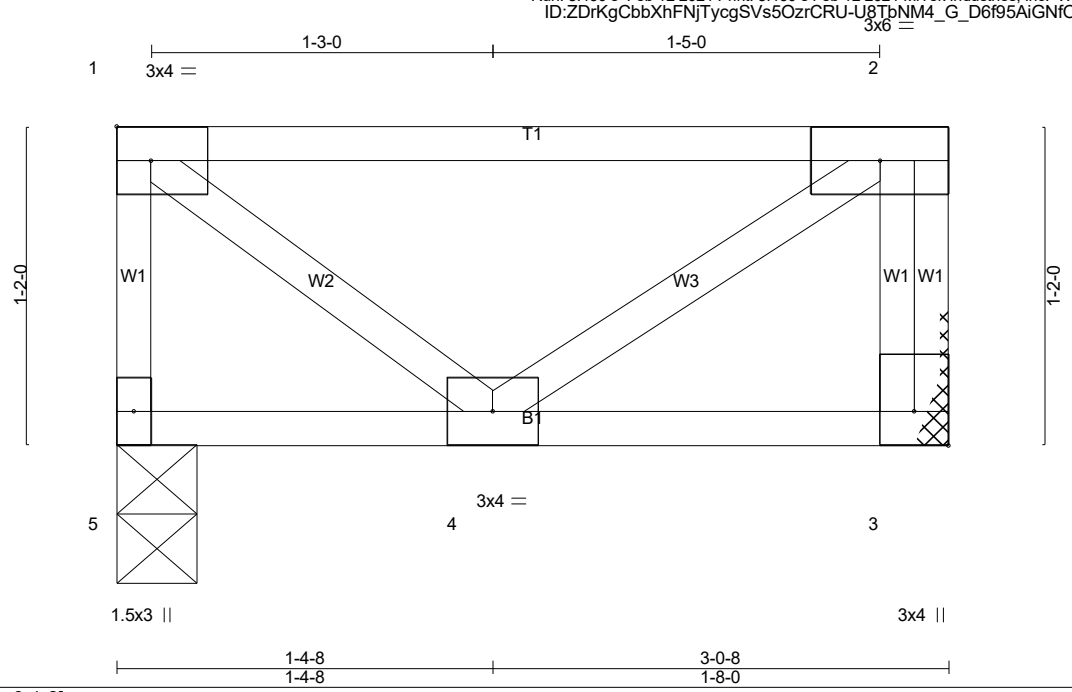


Plate Offsets (X,Y)-- [3:Edge,0-1-8]

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	0.57	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		n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-P							Weight: 18 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=157/0-3-8 (min. 0-1-8), 3=157/Mechanical

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

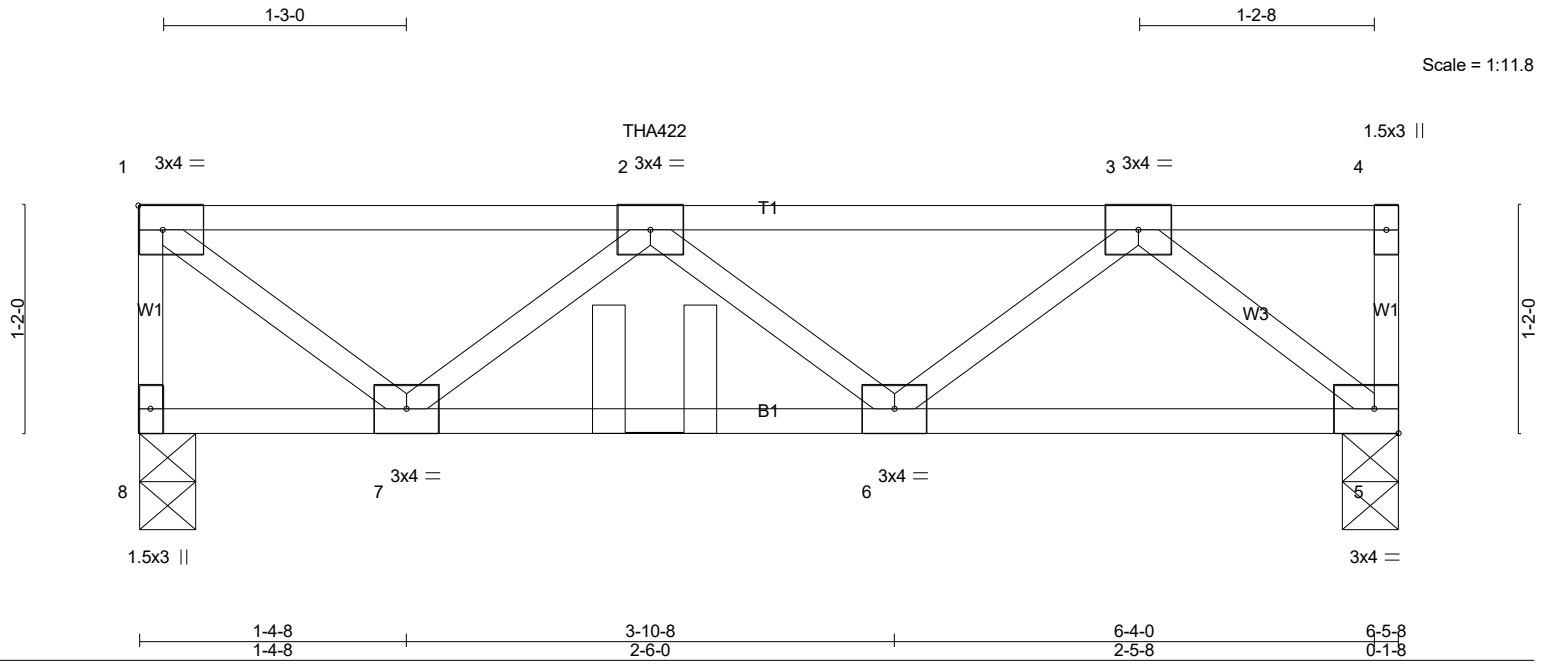
NOTES- (4-5)
1) Refer to girder(s) for truss to truss connections.
2) This truss is designed in accordance with the 2018 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each 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) 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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F214	Floor Girder	1	1	Job Reference (optional) **# 49395**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:22 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-yK1zbh5c1HLzGJgMGzuvxYN6hroGhWZYTP9ilrz9LkI



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	0.31	Vert(LL)	-0.01	6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.15	Vert(CT)	-0.01	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.21	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-P							Weight: 33 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 8=382/0-3-8 (min. 0-1-8), 5=371/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-8=-377/0, 1-2=-347/0, 2-3=-542/0
BOT CHORD 6-7=0/655, 5-6=0/394
WEBS 1-7=0/443, 2-7=-401/0, 3-5=-510/0

NOTES- (6-7)
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) Use Simpson Strong-Tie THA422 (Single Chord Girder) or equivalent at 2-7-12 from the left end to connect truss(es) F213 (1 ply 2x4 SP) to front face of top chord, skewed 0.0 deg.to the right, sloping 0.0 deg. down.
4) Fill all nail holes where hanger is in contact with lumber.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
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) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 5-8=-10, 1-4=-100
Concentrated Loads (lb)
Vert: 2=-57(F)

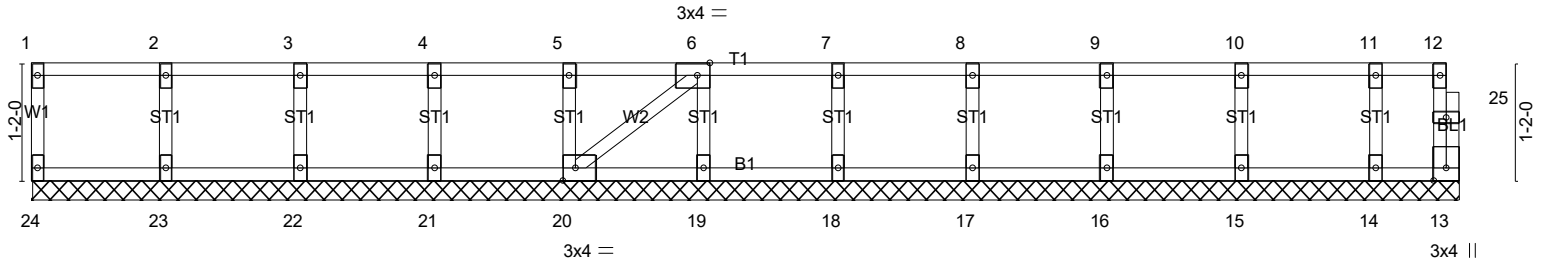
6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F215	Floor Supported Gable	1	1	Job Reference (optional) **# 49395**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:22 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-yK1zbh5c1HLzGJgMGzuvxYN9TrqXhZLYTP9ilrz9Lkl

0-1-8

Scale = 1:22.8



14-1-14
14-1-14

Plate Offsets (X,Y)-- [6:0-1-8,Edge], [20:0-1-8,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	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 14-1-14.
(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- (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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F216	Floor	5	1	# 49395
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:23 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-QXaLo16EobTquTFZqhP8TmwGmF?EQwWii3vGIIz9Lkk

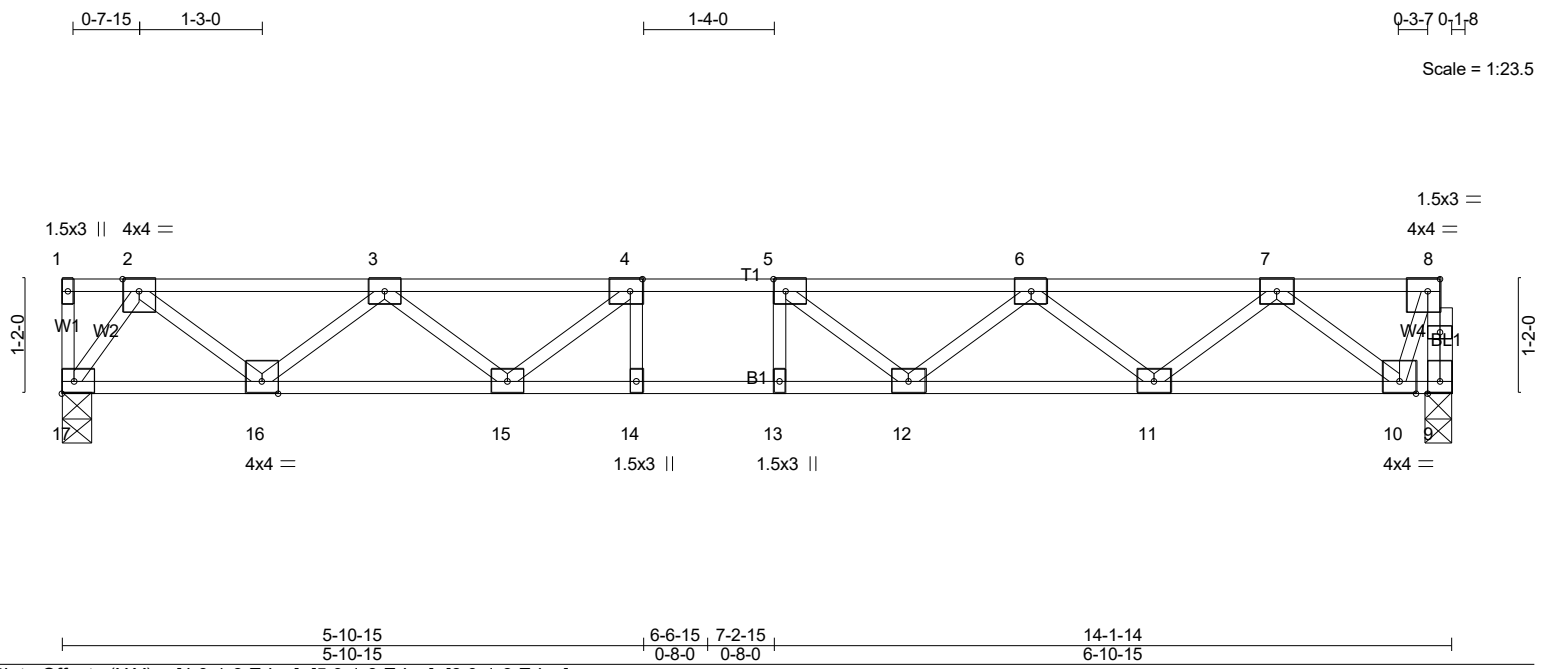


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [8:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.35	Vert(LL)	-0.12	13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.68	Vert(CT)	-0.17	13	>978	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 72 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=768/0-3-6 (min. 0-1-8), 17=768/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 8-9=-771/0, 2-3=-1221/0, 3-4=-2204/0, 4-5=-2558/0, 5-6=-2403/0, 6-7=-1671/0, 7-8=-281/0
BOT CHORD 16-17=0/540, 15-16=0/1870, 14-15=0/2558, 13-14=0/2558, 12-13=0/2558, 11-12=0/2204, 10-11=0/1109
WEBS 4-15=-556/0, 3-15=0/458, 3-16=-844/0, 2-16=0/887, 2-17=-946/0, 5-12=-385/53, 6-12=0/338, 6-11=-694/0, 7-11=0/731, 7-10=-1079/0, 8-10=0/765

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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F217	Floor Supported Gable	2	1	Job Reference (optional) **# 49395**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:24 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-uj8k0N7sZvchWcqlOOwN0zTVHfVt9T1rxjepqkz9Lkj

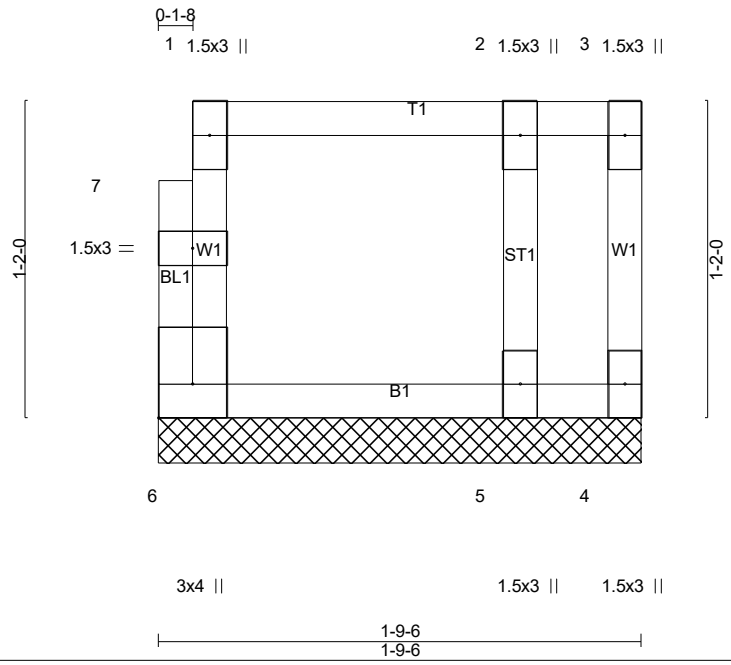


Plate Offsets (X,Y)-- [6:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.04	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	0.02	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-R							Weight: 10 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 1-9-6 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=57/1-9-6 (min. 0-1-8), 4=11/1-9-6 (min. 0-1-8), 5=101/1-9-6 (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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F218	Floor	4	1	Job Reference (optional) **# 49395**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:25 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-Mvi6Dj7UKCkY7mOxx5RcYB?cN3kVurr_9NONMAz9Lki

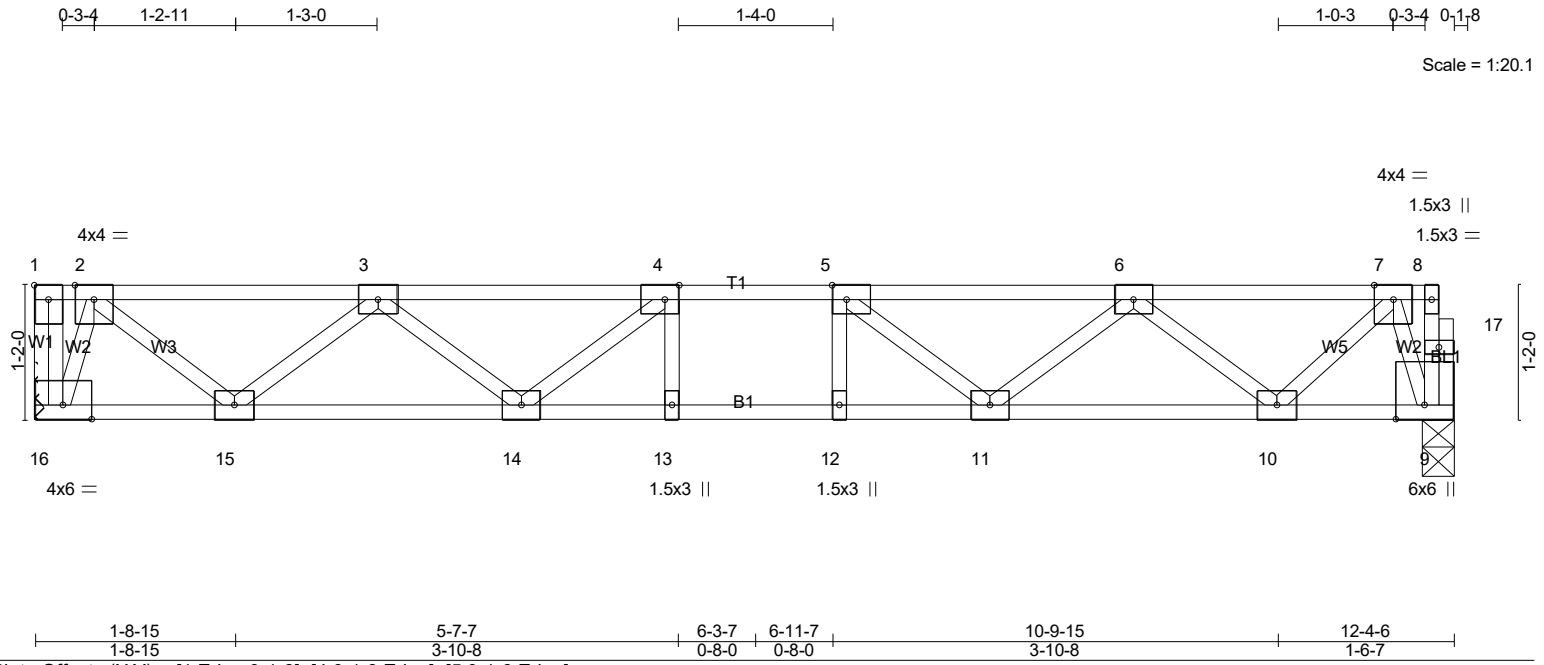


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.28	Vert(LL)	-0.07	13-14	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.50	Vert(CT)	-0.09	13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 65 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 16=666/Mechanical, 9=660/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-871/0, 3-4=-1701/0, 4-5=-1934/0, 5-6=-1656/0, 6-7=-776/0
BOT CHORD 15-16=0/280, 14-15=0/1449, 13-14=0/1934, 12-13=0/1934, 11-12=0/1934, 10-11=0/1371, 9-10=0/271
WEBS 4-14=-405/0, 3-14=0/353, 3-15=-752/0, 5-11=-444/0, 6-11=0/381, 6-10=-774/0, 2-15=0/777, 2-16=-787/0, 7-10=0/724, 7-9=-775/0

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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F219	Floor	2	1	# 49395
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:26 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-q6GUR3865WsPlwz7Vpyr5OYjBT1fdGc8O17wucz9Lkh

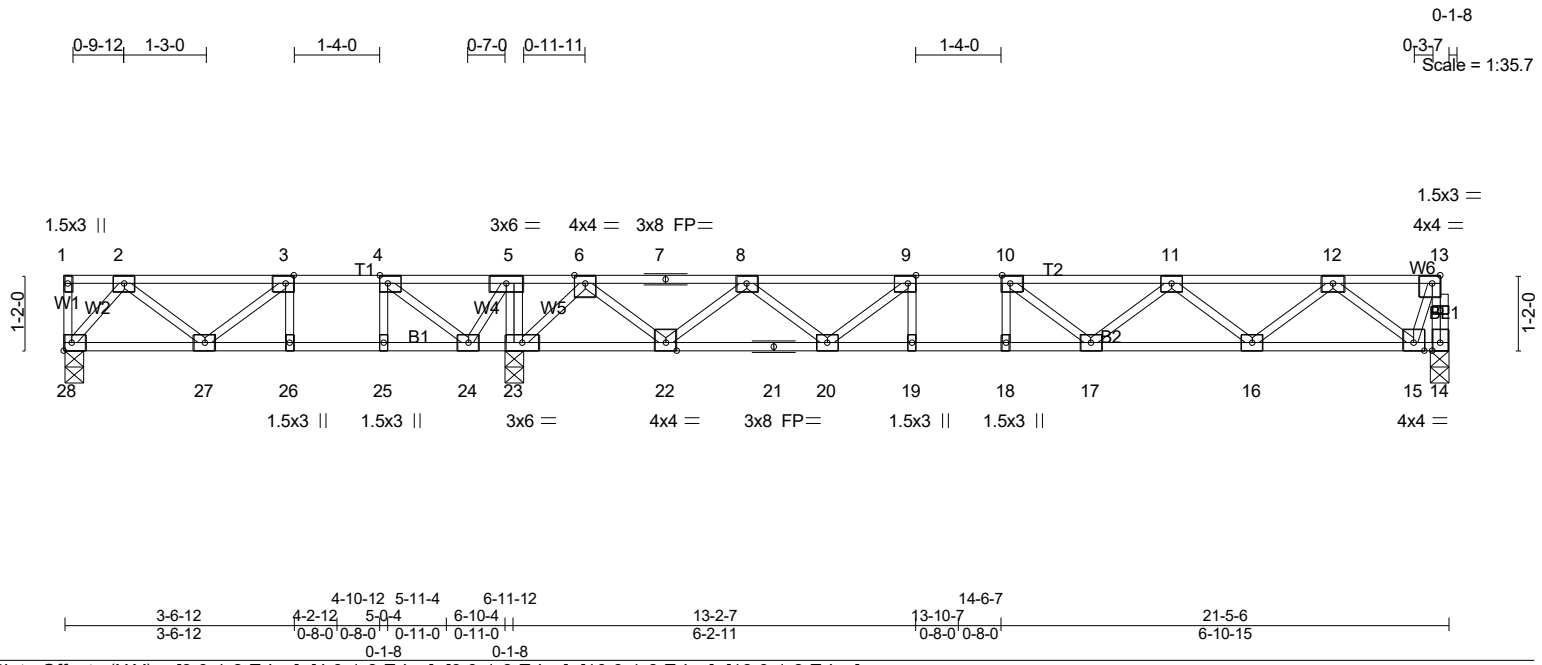


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [13:0-1-8,Edge]

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	0.53	Vert(LL)	-0.12	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.17	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 110 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)

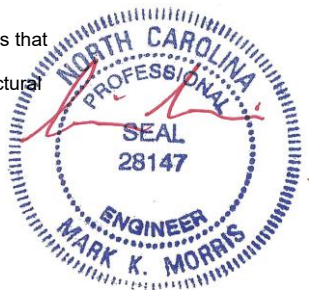
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 14=716/0-3-6 (min. 0-1-8), 28=230/0-3-8 (min. 0-1-8), 23=1392/0-3-8 (min. 0-1-8)
Max Uplift28=-53(LC 4)
Max Grav 14=723(LC 7), 28=345(LC 3), 23=1392(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 13-14=-728/0, 2-3=-430/178, 3-4=-468/457, 4-5=0/885, 5-6=0/1116, 6-7=-703/0, 7-8=-703/0, 8-9=-1798/0, 9-10=-2237/0, 10-11=-2169/0, 11-12=-1546/0, 12-13=-263/0
BOT CHORD 27-28=-26/307, 26-27=-457/468, 25-26=-457/468, 24-25=-457/468, 23-24=-1116/0, 21-22=0/1402, 20-21=0/1402, 19-20=0/2237, 18-19=0/2237, 17-18=0/2237, 16-17=0/2030, 15-16=0/1037
WEBS 4-25=0/281, 5-23=-488/0, 3-27=-49/357, 2-28=-477/41, 4-24=-908/0, 5-24=0/491, 9-20=-621/0, 8-20=0/544, 8-22=-937/0, 6-22=0/975, 6-23=-1218/0, 10-17=-277/119, 11-17=0/264, 11-16=-630/0, 12-16=0/663, 12-15=-1007/0, 13-15=0/717

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 53 lb uplift at joint 28.
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



6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F220	Floor	2	1	# 49395
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:27 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-JIqseP9lsq_GN4YK3WU4ec5uBsNZMi1HdhtTR3z9Lkg

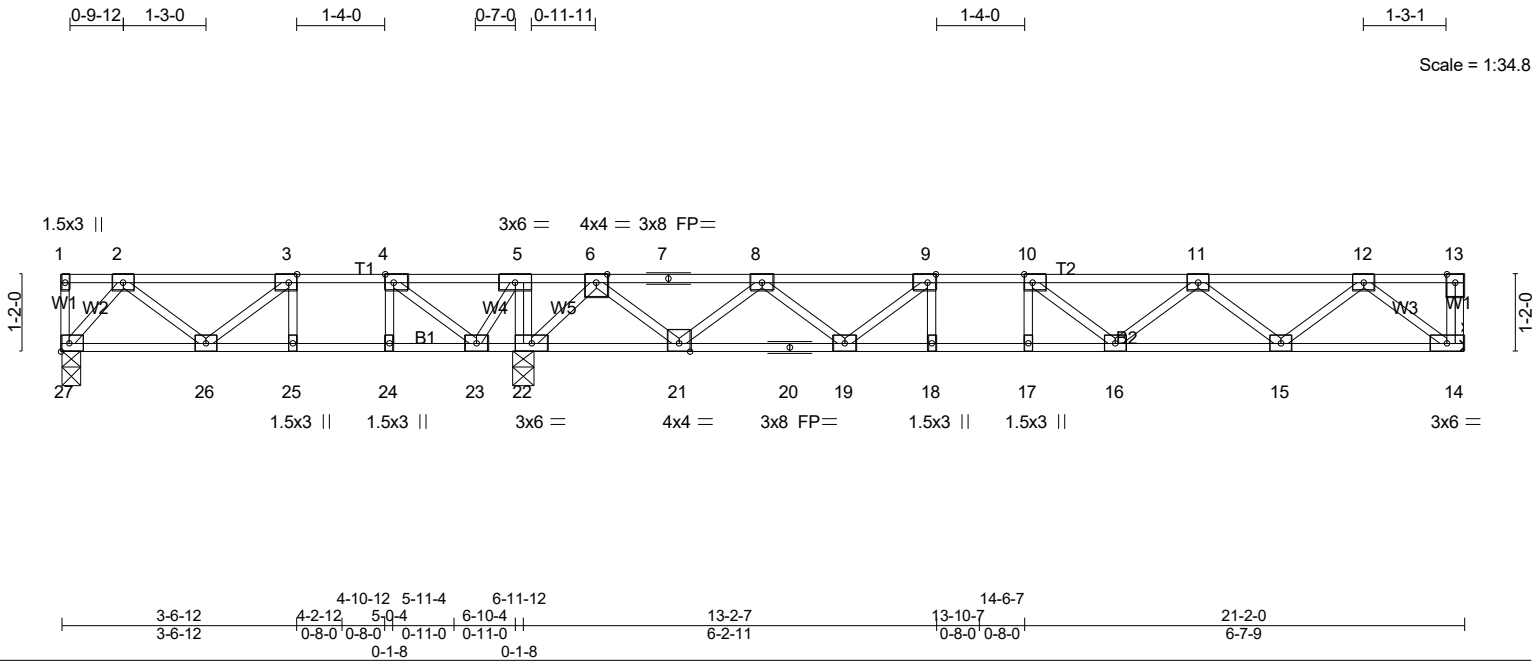


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge]

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	0.51	Vert(LL)	-0.11	17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.66	Vert(CT)	-0.15	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.03	14	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)

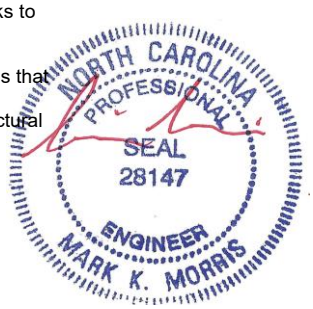
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 27=236/0-3-8 (min. 0-1-8), 22=1369/0-3-8 (min. 0-1-8), 14=703/Mechanical
Max Uplift27=-47(LC 4)
Max Grav27=347(LC 3), 22=1369(LC 1), 14=710(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-434/165, 3-4=-475/432, 4-5=-4/847, 5-6=0/1074, 6-7=-707/0, 7-8=-707/0, 8-9=-1760/0, 9-10=-2166/0, 10-11=-2064/0, 11-12=-1399/0
BOT CHORD 26-27=-22/308, 25-26=-432/475, 24-25=-432/475, 23-24=-432/475, 22-23=-1074/0, 20-21=0/1387, 19-20=0/1387, 18-19=0/2166, 17-18=0/2166, 16-17=0/2166, 15-16=0/1903, 14-15=0/864
WEBS 4-24=0/275, 5-22=-484/0, 3-26=-53/341, 2-27=-479/34, 4-23=-891/0, 5-23=0/483, 9-19=-583/0, 8-19=0/515, 8-21=-913/0, 6-21=0/950, 6-22=-1192/0, 10-16=-297/80, 11-16=0/276, 11-15=-657/0, 12-15=0/696, 12-14=-1083/0

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 47 lb uplift at joint 27.
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



6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F221	Floor	2	1	# 49395
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:29 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-Fhyd35A?ORE_cOiiAxWYj1AC?g2cqcTa4?MaVxz9Lke

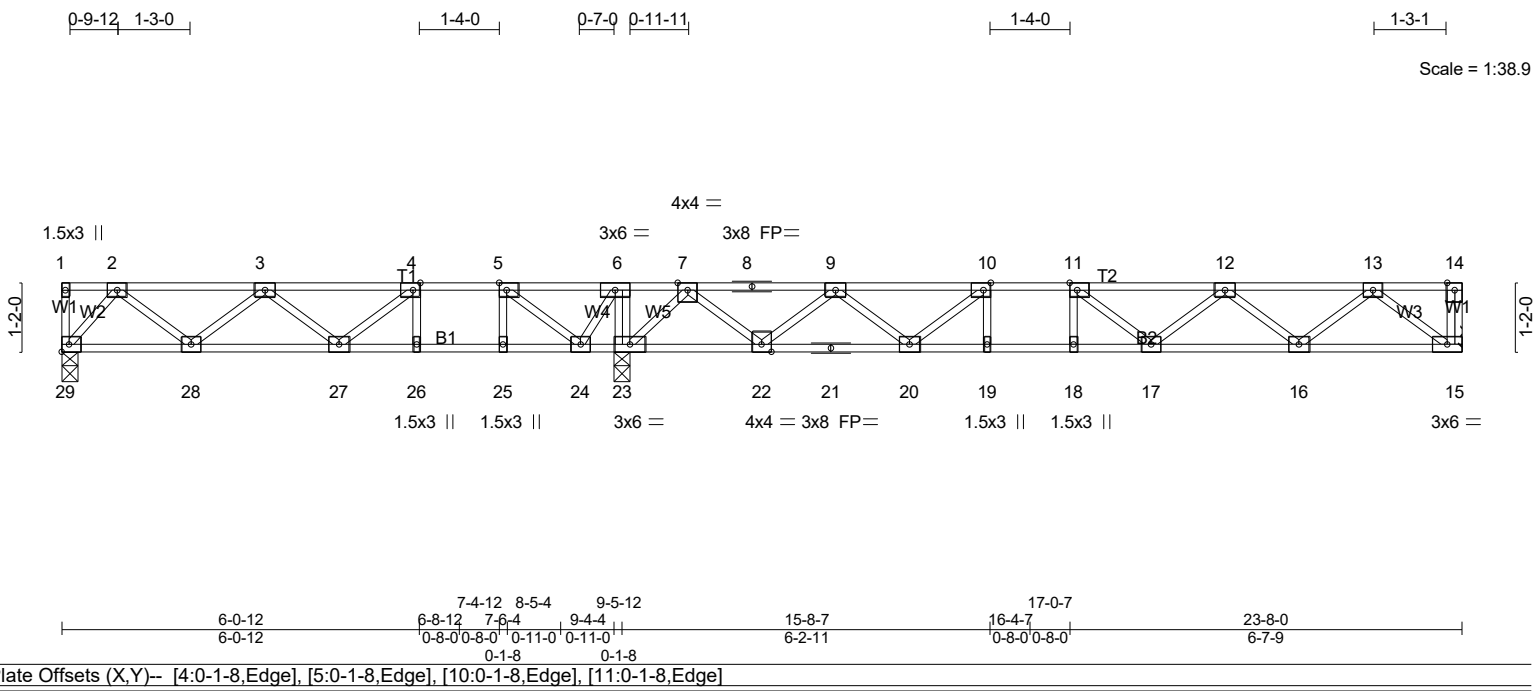


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [10:0-1-8,Edge], [11:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.11	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.15	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.03	15	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 120 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)

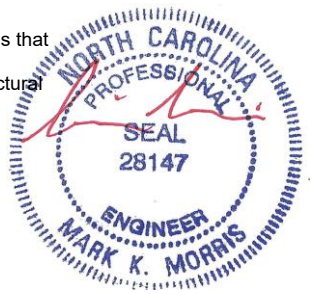
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 29=399/0-3-8 (min. 0-1-8), 23=1489/0-3-8 (min. 0-1-8), 15=694/Mechanical
Max Grav 29=487(LC 3), 23=1489(LC 1), 15=700(LC 7)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-730/22, 3-4=-995/221, 4-5=-775/500, 5-6=-28/930, 6-7=0/1161, 7-8=-602/0, 8-9=-602/0, 9-10=-1678/0, 10-11=-2102/0, 11-12=-2018/0, 12-13=-1376/0
BOT CHORD 28-29=0/391, 27-28=-69/1053, 26-27=-500/775, 25-26=-500/775, 24-25=-500/775, 23-24=-1161/0, 22-23=-302/0, 21-22=0/1292, 20-21=0/1292, 19-20=0/2102, 18-19=0/2102, 17-18=0/2102, 16-17=0/1870, 15-16=0/852
WEBS 4-26=-339/0, 5-25=0/385, 6-23=-559/0, 4-27=0/523, 3-28=-420/61, 2-28=-34/441, 2-29=-607/0, 5-24=-1184/0, 6-24=0/616, 10-20=-597/0, 9-20=0/526, 9-22=-922/0, 7-22=0/959, 7-23=-1217/0, 11-17=-278/94, 12-17=0/262, 12-16=-643/0, 13-16=0/682, 13-15=-1067/0

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



6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F223	Floor	15	1	Job Reference (optional) **# 49395**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:30 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-jtW?GRBd9lMrEXHvkf1nFEjSd4NsZ58kJf571Oz9Lkd

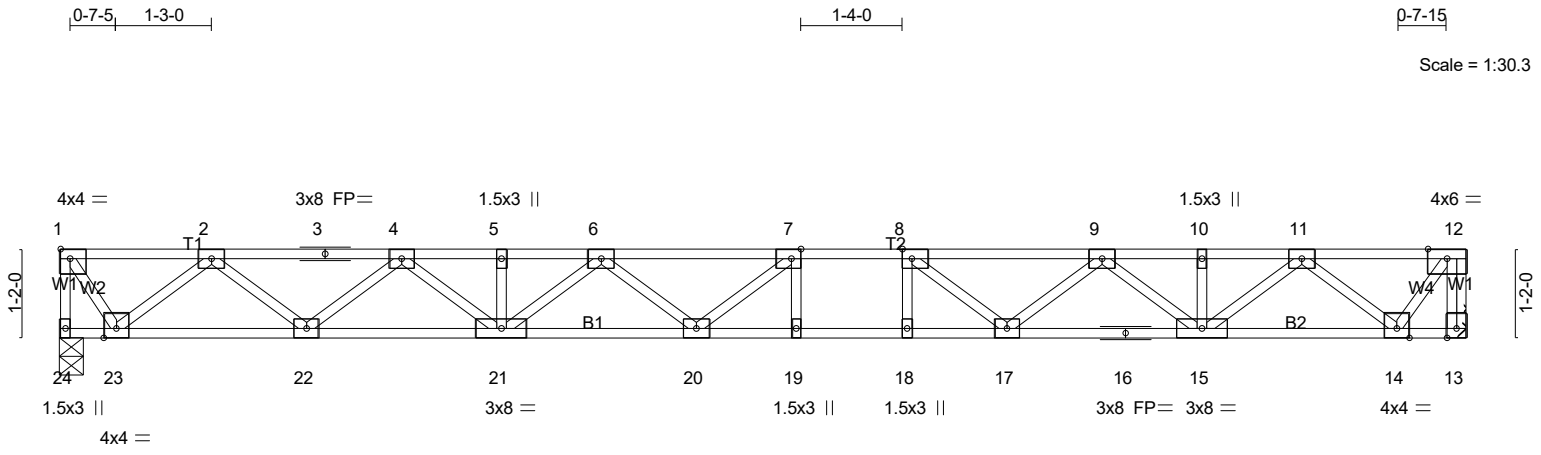


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge]

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	0.37	Vert(LL)	-0.24	19-20	>933	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.32	19-20	>679	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.37	Horz(CT)	0.05	13	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 95 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) 24=671/0-3-8 (min. 0-1-8), 13=671/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-24=-669/0, 12-13=-669/0, 1-2=-400/0, 2-3=-1663/0, 3-4=-1663/0, 4-5=-2520/0, 5-6=-2520/0, 6-7=-2880/0, 7-8=-2886/0, 8-9=-2542/0, 9-10=-1759/0, 10-11=-1759/0, 11-12=-462/0
BOT CHORD 22-23=0/1132, 21-22=0/2171, 20-21=0/2814, 19-20=0/2886, 18-19=0/2886, 17-18=0/2886, 16-17=0/2242, 15-16=0/2242, 14-15=0/1182
WEBS 6-21=-375/0, 4-21=0/445, 4-22=-662/0, 2-22=0/691, 2-23=-953/0, 1-23=0/738, 8-17=-535/0, 9-17=0/422, 9-15=-618/0, 11-15=0/736, 11-14=-938/0, 12-14=0/767

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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F224	Floor Supported Gable	1	1	# 49395
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:31 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-B33NUmCFw2Uirhs5IMY0oSFhCUueIdatYJrhaqz9Lkc

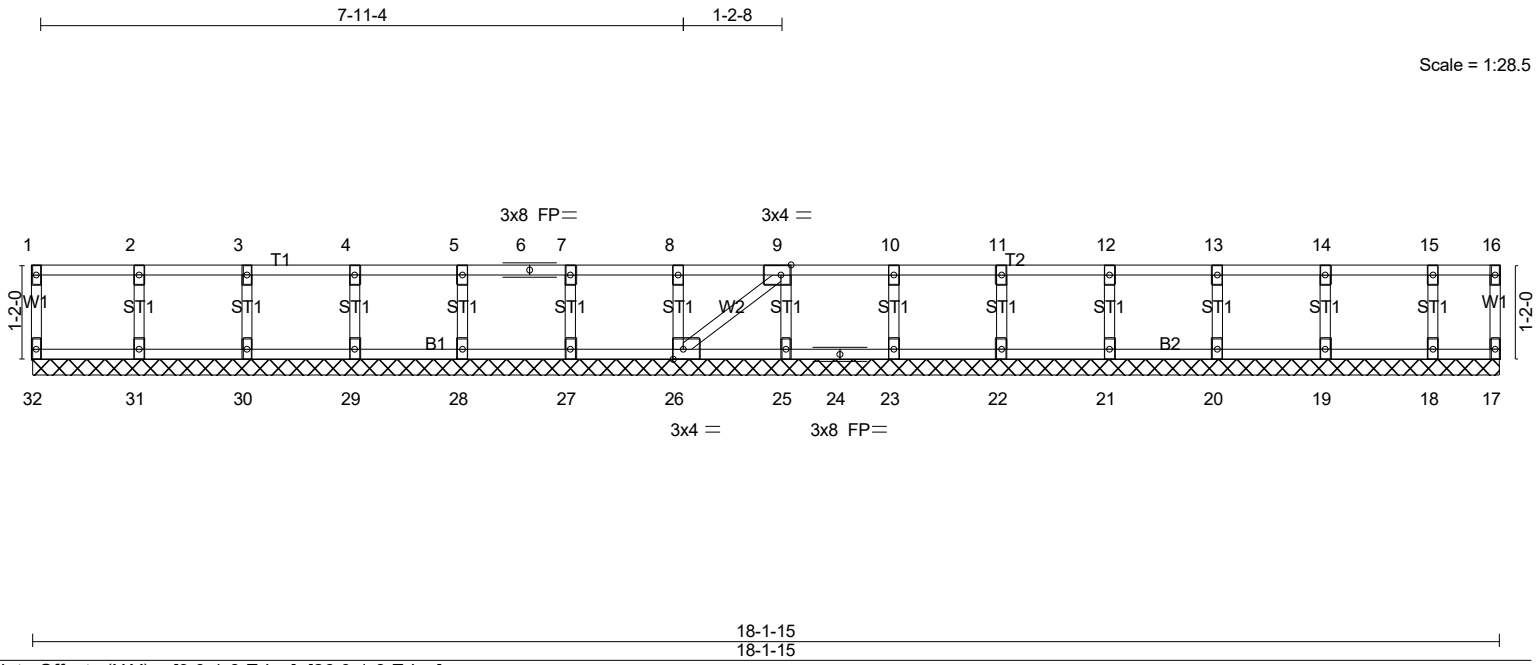


Plate Offsets (X,Y)-- [9:0-1-8,Edge], [26:0-1-8,Edge]

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	17	n/a	n/a		
BCDL	5.0	Code IRC2018/TPI2014		Matrix-SH							Weight: 77 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 18-1-15.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 32, 17, 31, 30, 29, 28, 27, 26, 25, 23, 22, 21, 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) 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) Non Standard bearing condition. Review required.
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

6/5/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0038 HONEYCUTT HILLS | 246 SHELBY MEADOW LANE ANGIER, NC
24-4823-F02	F225	GABLE	1	1	Job Reference (optional) **# 49395**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Wed Jun 5 12:18:32 2024 Page 1
ID:ZDrKgCbbXhFNjTycgSVs5OzrCRU-fGdlh6DthMcYTrRHs33FLfot6tEo14x0mzaE6Gz9Lkb

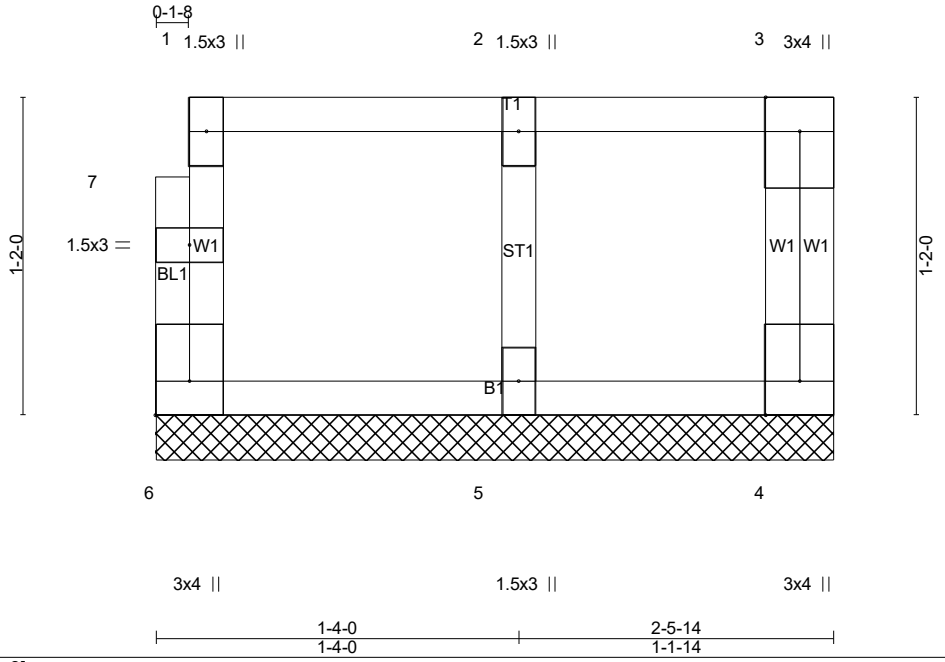


Plate Offsets (X,Y)-- [6:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.05	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: 14 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 2-5-14 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=59/2-5-14 (min. 0-1-8), 4=55/2-5-14 (min. 0-1-8), 5=126/2-5-14 (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

6/5/2024