

# 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 #: 53422

JOB: 24-8791-F02

JOB NAME: LOT 0.0014 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 2018 as well as IRC 2021.

*26 Truss Design(s)*

Trusses:

F201, F202, F203, F204, F205, F206, F207, F208, F210, F211, F212, F213, F214, F215, F216, F217, F218, F219, F220, F222, F223, F227, F228, F229, F230, F231



**10/16/2024**

**Mark Morris**

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

This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – not truss designer or truss engineer. Bracing shown is for lateral support of individual web members only. Additional temporary bracing to ensure stability during construction is the responsibility of the erector. Additional permanent bracing of the overall structure is the responsibility of the building designer. For general guidance regarding fabrication, quality control, storage, delivery, erection and bracing, consult ANSL/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 24-8791-F02	Truss F201	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC Job Reference (optional) <b># 53422</b>
--------------------	---------------	-------------------------------------	----------	----------	--

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:31 2024 Page 1  
ID:oDuW00MhLxMOj2fwcp2aKqzMG6w-EReHd40ZaUjplodfVisEnmndsBjxZH73pmN7OJySt\_k

Scale = 1:20.6

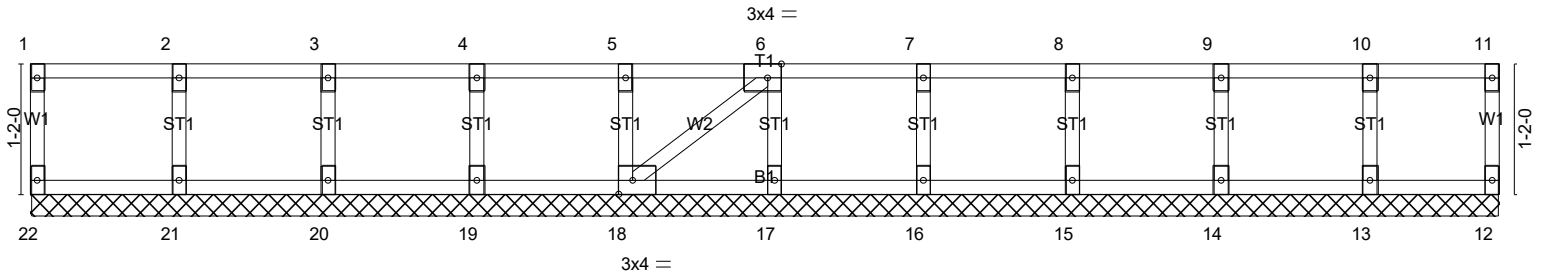


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [18:0-1-8,Edge]

LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06	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	18	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						Weight: 56 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 13-1-14.  
(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-** (6)  
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.

**LOAD CASE(S)** Standard

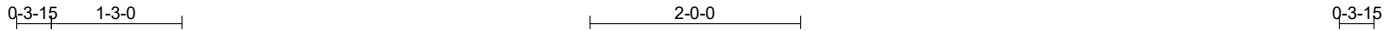


10/16/2024

**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 24-8791-F02	Truss F202	Truss Type Floor	Qty 5	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:31 2024 Page 1  
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-EReHd40ZaUuploedfVisEnmazBaTZBF3pmN7OJySt\_k



Scale = 1:21.9

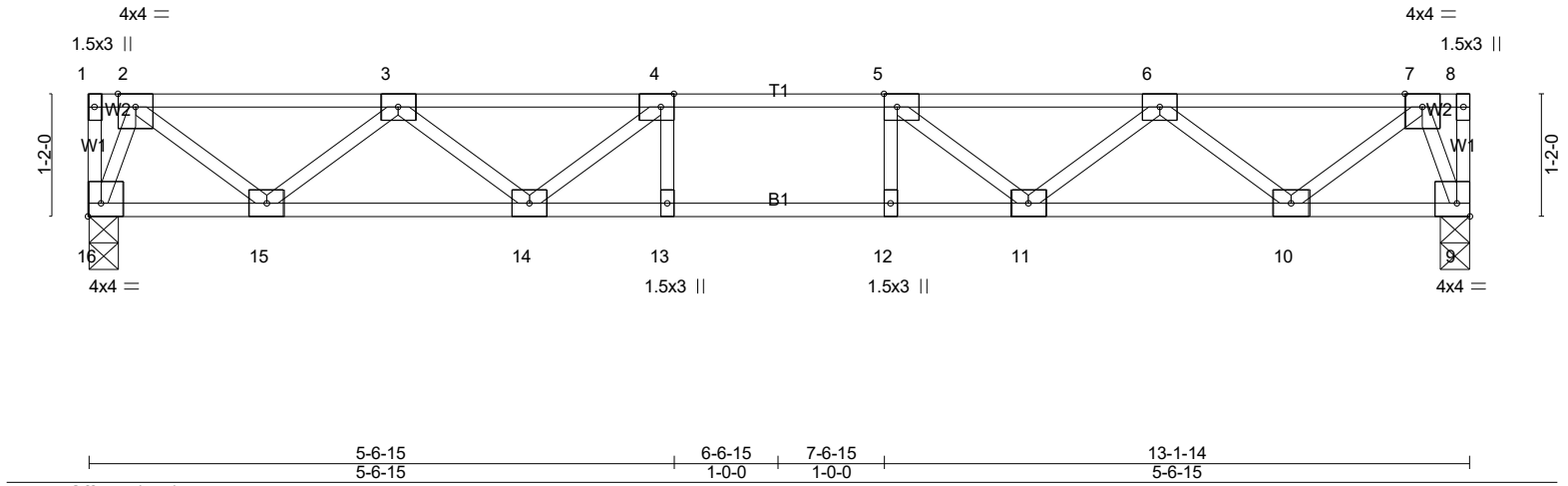


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [9:Edge,0-1-8], [16:Edge,0-1-8]	
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code IRC2021/TPI2014
<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d
TC 0.31	Vert(LL) -0.11 11-12 >999 480
BC 0.61	Vert(CT) -0.14 11-12 >999 360
WB 0.41	Horz(CT) 0.03 9 n/a n/a
Matrix-SH	
<b>PLATES</b>	<b>GRIP</b>
MT20	244/190
Weight: 66 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=717/0-3-8 (min. 0-1-8), 9=717/0-3-6 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 2-3=-959/0, 3-4=-1908/0, 4-5=-2215/0, 5-6=-1908/0, 6-7=-959/0  
BOT CHORD 15-16=0/298, 14-15=0/1592, 13-14=0/2215, 12-13=0/2215, 11-12=0/2215, 10-11=0/1592, 9-10=0/298  
WEBS 4-14=-521/0, 3-14=0/436, 3-15=-825/0, 2-15=0/860, 2-16=-848/0, 5-11=-521/0, 6-11=0/436, 6-10=-825/0, 7-10=0/860, 7-9=-848/0

**NOTES-** (4)  
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.

**LOAD CASE(S)** Standard

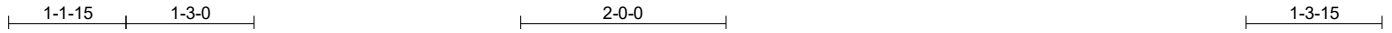


10/16/2024

**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 24-8791-F02	Truss F203	Truss Type Floor	Qty 4	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:31 2024 Page 1  
ID:oDuW00MhLxMOj2fwcp2aKqzMG6w-EReHd40ZaUjplodfVisEnmY7BW?ZA03pmN7OJySt\_k



Scale = 1:22.6

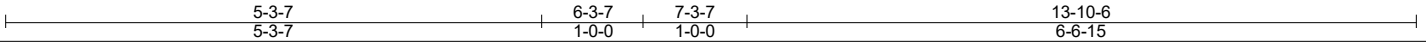
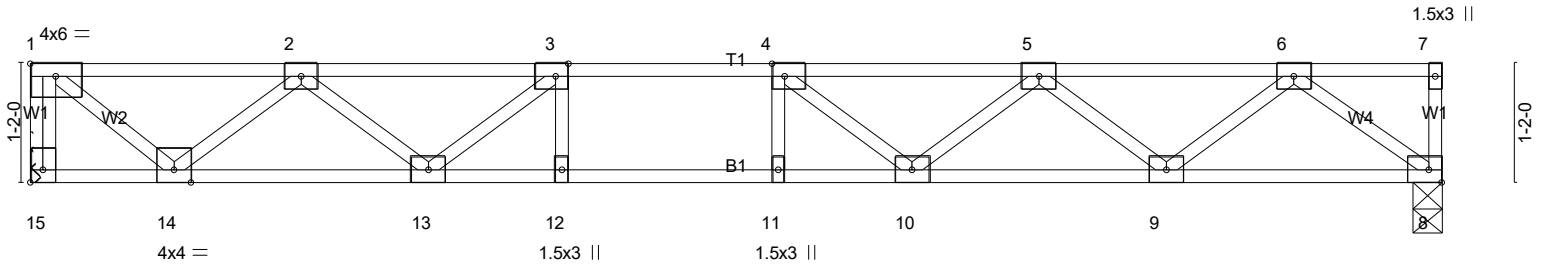


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge], [15:Edge,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.43	Vert(LL)	-0.16 10-11	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.83	Vert(CT)	-0.21 10-11	>795	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.49	Horz(CT)	0.03 8	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 69 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=752/Mechanical, 8=752/0-3-6 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-15=-749/0, 1-2=-797/0, 2-3=-1949/0, 3-4=-2416/0, 4-5=-2276/0, 5-6=-1510/0  
BOT CHORD 13-14=0/1537, 12-13=0/2416, 11-12=0/2416, 10-11=0/2416, 9-10=0/2065, 8-9=0/926  
WEBS 3-13=-688/0, 2-13=0/539, 2-14=-964/0, 1-14=0/1025, 4-10=-395/49, 5-10=0/355, 5-9=-723/0, 6-9=0/760, 6-8=-1157/0

**NOTES-** (5)  
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.

**LOAD CASE(S)** Standard

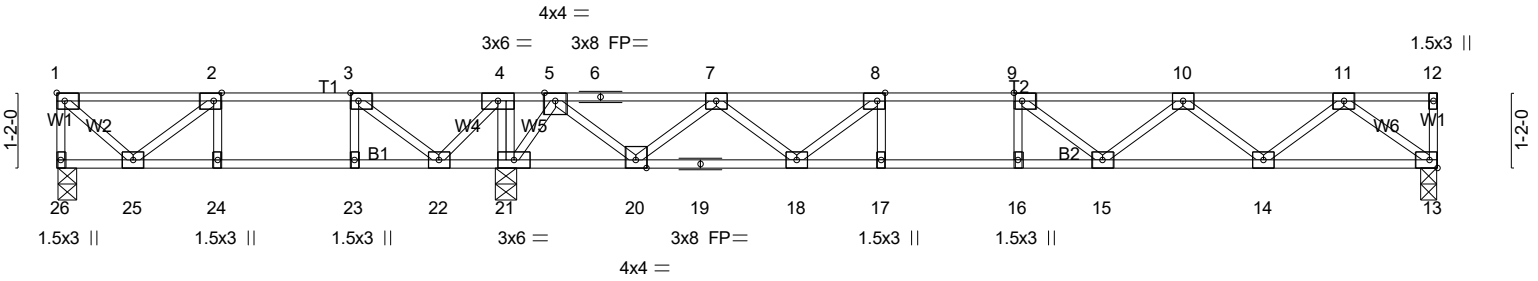


10/16/2024

**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.



Scale = 1:35.8



2-6-12	3-6-12	4-6-12	5-9-4	6-10-4	12-10-7	13-10-7	14-10-7	21-5-6
2-6-12	1-0-0	1-0-0	1-8-1-1-0	1-1-0-0-1-8	5-10-11	1-0-0	1-0-0	6-6-15
Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge]								

<b>LOADING</b> (psf)	<b>SPACING-</b>	<b>CSI.</b>	<b>DEFL.</b>		<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	2-0-0	TC 0.44	in (loc) l/defl L/d		MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.84	Vert(LL) -0.16 15-16 >999 480			
BCLL 0.0	Lumber DOL 1.00	WB 0.48	Vert(CT) -0.21 15-16 >826 360			
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 13 n/a n/a			
	Code IRC2021/TPI2014					Weight: 106 lb FT = 20%F, 11%E

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

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

**REACTIONS.** (lb/size) 26=275/0-3-8 (min. 0-1-8), 13=742/0-3-6 (min. 0-1-8), 21=1329/0-3-8 (min. 0-1-8)  
Max Grav 26=347(LC 3), 13=753(LC 7), 21=1329(LC 8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-26=-348/0, 1-2=-260/27, 2-3=-506/170, 3-4=-103/494, 4-5=0/822, 5-6=-820/0, 6-7=-820/0, 7-8=-1951/0,  
8-9=-2423/0, 9-10=-2280/0, 10-11=-1512/0  
BOT CHORD 24-25=-170/506, 23-24=-170/506, 22-23=-170/506, 21-22=-822/0, 19-20=0/1532, 18-19=0/1532, 17-18=0/2423,  
16-17=0/2423, 15-16=0/2423, 14-15=0/2068, 13-14=0/927  
WEBS 4-21=-468/0, 2-25=-314/183, 1-25=-36/355, 3-22=-737/0, 4-22=0/512, 8-18=-693/0, 7-18=0/585, 7-20=-961/0,  
5-20=0/999, 5-21=-1066/0, 9-15=-346/52, 10-15=0/323, 10-14=-724/0, 11-14=0/761, 11-13=-1159/0

- NOTES-** (5)  
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.

**LOAD CASE(S)** Standard



10/16/2024

**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 24-8791-F02	Truss F205	Truss Type Floor	Qty 2	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:32 2024 Page 1  
ID:oDuW00MhLxMOj2fwcp2aKqzMG6w-ieCfqQ1BL00gwyDqDCD5m\_JgKbtUldSD1Q6gxlyStj



Scale = 1:39.5

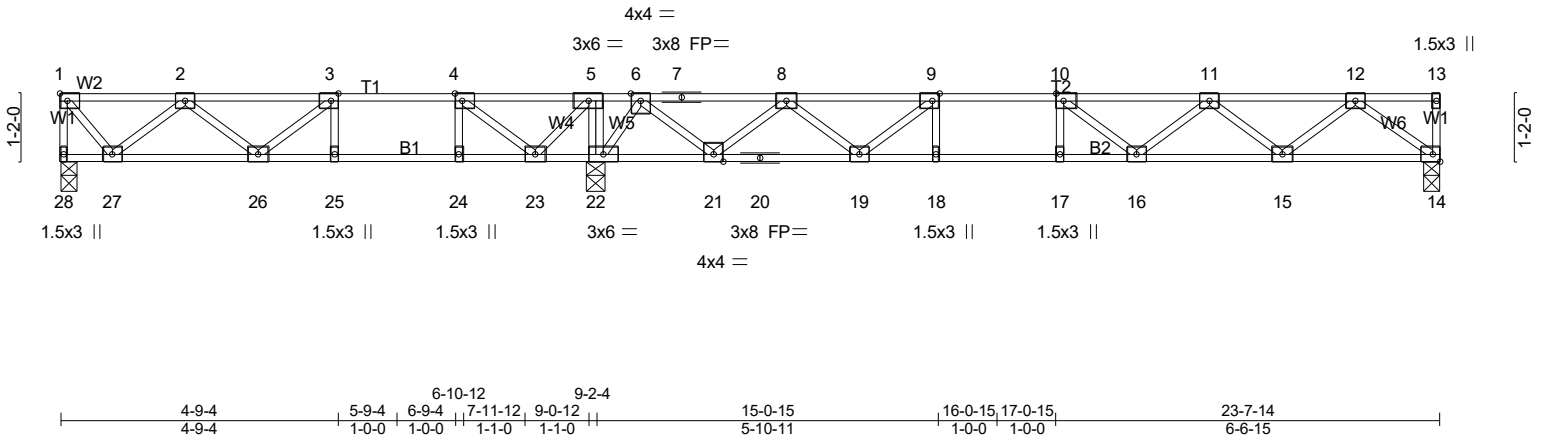


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge]	
<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0
TCLL 40.0	Plate Grip DOL 1.00
TCDL 10.0	Lumber DOL 1.00
BCLL 0.0	Rep Stress Incr YES
BCDL 5.0	Code IRC2021/TPI2014
<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d
TC 0.59	Vert(LL) -0.16 16-17 >999 480
BC 0.82	Vert(CT) -0.21 16-17 >828 360
WB 0.48	Horz(CT) 0.04 14 n/a n/a
Matrix-SH	<b>PLATES GRIP</b>
	MT20 244/190
	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)

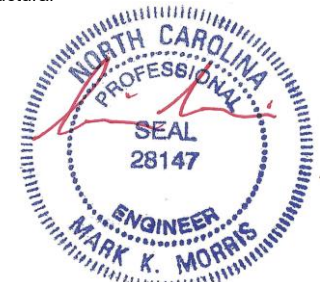
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

**REACTIONS.** (lb/size) 28=428/0-3-8 (min. 0-1-8), 14=745/0-3-6 (min. 0-1-8), 22=1415/0-3-8 (min. 0-1-8)  
Max Grav 28=494(LC 3), 14=755(LC 7), 22=1415(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-28=-485/0, 1-2=-332/0, 2-3=-957/5, 3-4=-966/195, 4-5=-343/559, 5-6=0/858,  
6-7=-846/0, 7-8=-846/0, 8-9=-1972/0, 9-10=-2438/0, 10-11=-2291/0, 11-12=-1517/0  
BOT CHORD 26-27=0/824, 25-26=-195/966, 24-25=-195/966, 23-24=-195/966, 22-23=-858/0,  
20-21=0/1555, 19-20=0/1555, 18-19=0/2438, 17-18=0/2438, 16-17=0/2438, 15-16=0/2076,  
14-15=0/930  
WEBS 4-24=0/283, 5-22=-519/0, 2-27=-641/0, 1-27=0/531, 4-23=-999/0, 5-23=0/648,  
9-19=-671/0, 8-19=0/590, 8-21=-963/0, 6-21=0/1001, 6-22=-1088/0, 10-16=-356/25,  
11-16=0/329, 11-15=-727/0, 12-15=0/764, 12-14=-1162/0

- NOTES-** (5-6)
- Unbalanced floor live loads have been considered for this design.
  - 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.
  - 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



10/16/2024

**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 24-8791-F02	Truss F206	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC Job Reference (optional) <b># 53422</b>
--------------------	---------------	-------------------------------------	----------	----------	--

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:33 2024 Page 1  
ID: oDuWOOMhLxMOI2fwcp2aKqzMG6w-AqI12m2q668XX6o0nwkKJCr\_U?PO1BfMG4sDTBySt\_i

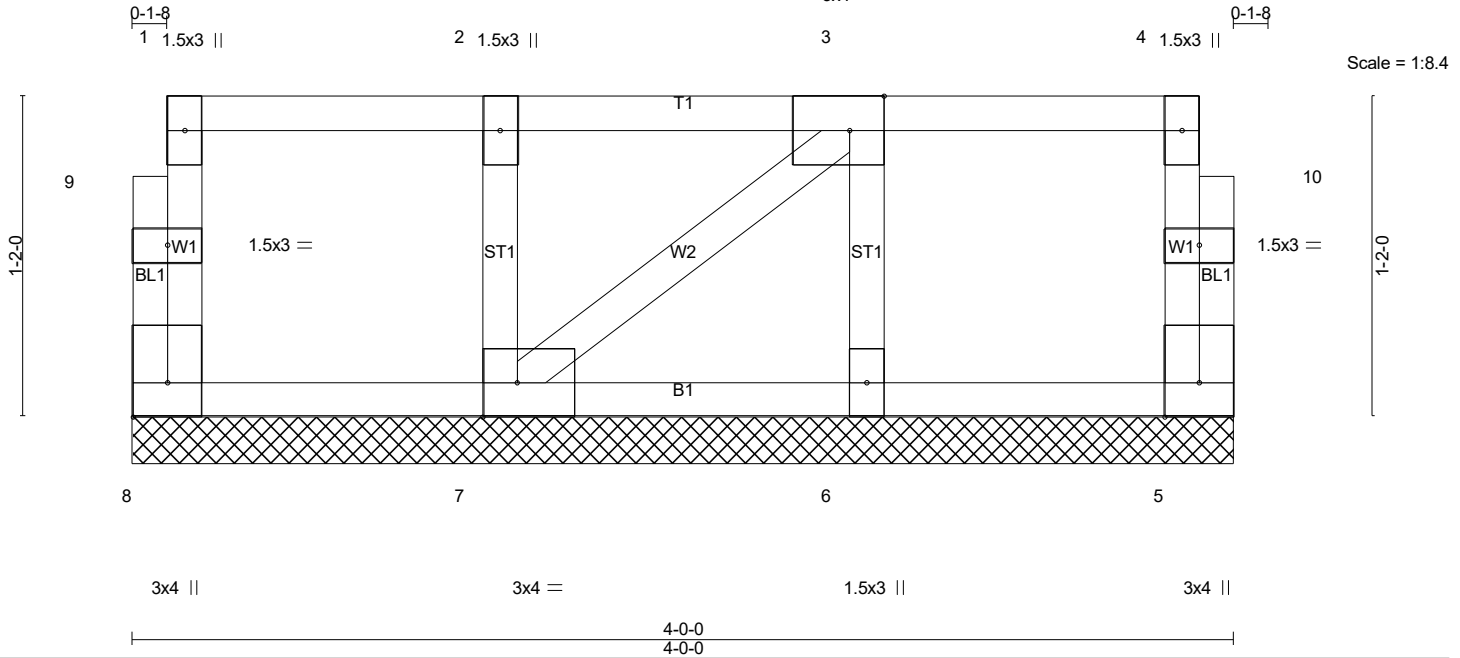


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [7:0-1-8,Edge], [8:Edge,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.01	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-P						Weight: 21 lb	FT = 20%F, 11%E

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

**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 4-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

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

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

- NOTES-** (5-6)
- 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



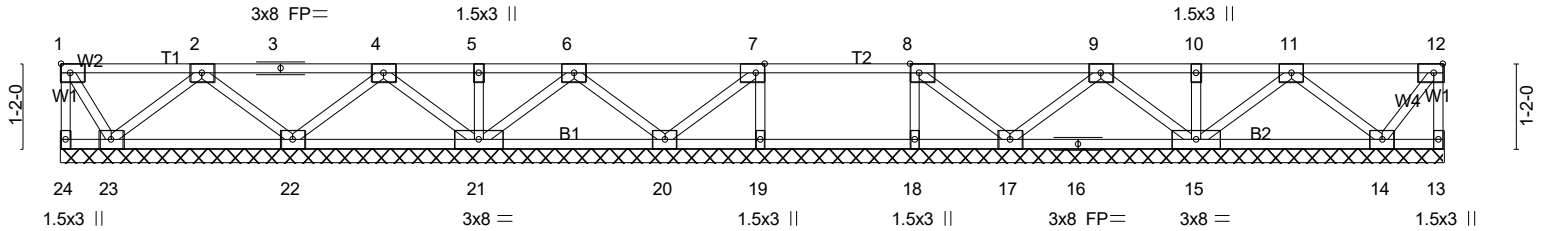
10/16/2024

**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 24-8791-F02	Truss F207	Truss Type Floor	Qty 1	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC Job Reference (optional) <b># 53422</b>
--------------------	---------------	---------------------	----------	----------	--

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:33 2024 Page 1  
ID:oDuW00MhLxMOj2fwcp2aKqzMG6w-Aq|12m2q668XX6o0nwkKJCrxD?Pt1BLMG4sDTBySt\_i

Scale: 3/8"=1'



	9-8-4	10-8-4	11-8-4	19-0-4
	9-8-4	1-0-0	1-0-0	7-4-0
Plate Offsets (X,Y)--	[7:0-1-8,Edge], [8:0-1-8,Edge], [12:0-1-8,Edge]			

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.20	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.04	Vert(CT)	n/a	-	n/a	999		
BCLL 0.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	13	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						Weight: 96 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
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.** All bearings 19-0-4.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 19, 18, 20, 23, 17, 14 except 21=312(LC 1), 22=278(LC 1), 15=323(LC 1)

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

- NOTES-** (4-5)
- 1) All plates are 3x4 MT20 unless otherwise indicated.
  - 2) Gable requires continuous bottom chord bearing.
  - 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



10/16/2024

**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 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC
24-8791-F02	F208	FLOOR	5	1	# 53422

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:34 2024 Page 1  
 ID: oDuWOOMhLxMOj2fwcp2aKqzMG6w-e0JPF63StPGN9FMCLdFzSpOyW0X7mVfV/kbn?dySt\_h



Scale = 1:31.1

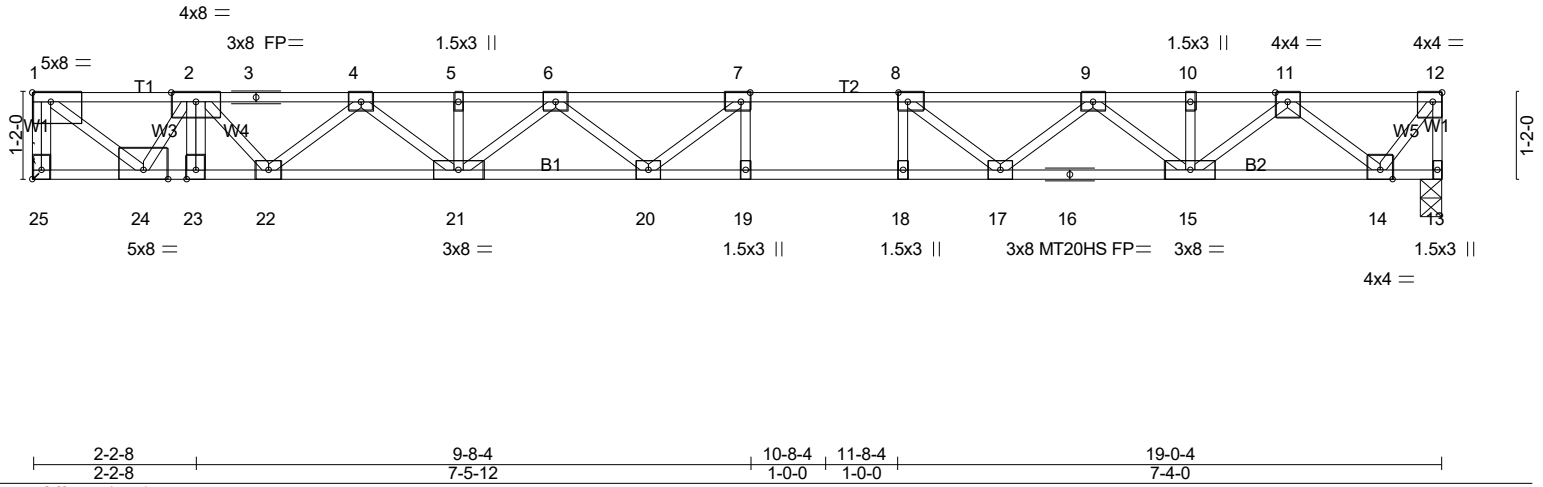


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [12:0-1-8,Edge], [25:Edge,0-1-8]									
<b>LOADING</b> (psf)	<b>SPACING-</b>	1-4-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>	
TCLL 40.0	Plate Grip DOL	1.00	TC 0.87	Vert(LL) -0.37	19-20	>609	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.93	Vert(CT) -0.51	19-20	>443	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	NO	WB 0.62	Horz(CT) 0.07	13	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 99 lb	FT = 20%F, 11%E

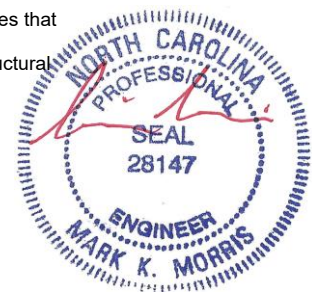
<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 5-5-7 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat) *Except* B2: 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 2x4 SP No.3(flat) *Except* W2: 2x4 SP No.2(flat)	

**REACTIONS.** (lb/size) 25=1402/Mechanical, 13=779/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-25=-1392/0, 12-13=-774/0, 1-2=-1760/0, 2-3=-3021/0, 3-4=-3021/0, 4-5=-3715/0,  
 5-6=-3715/0, 6-7=-3932/0, 7-8=-3753/0, 8-9=-3153/0, 9-10=-2107/0, 10-11=-2107/0,  
 11-12=-531/0  
 BOT CHORD 23-24=0/2665, 22-23=0/2665, 21-22=0/3443, 20-21=0/3956, 19-20=0/3753, 18-19=0/3753,  
 17-18=0/3753, 16-17=0/2699, 15-16=0/2699, 14-15=0/1384  
 WEBS 7-19=-294/46, 8-18=-25/315, 1-24=0/2208, 2-24=-1601/0, 7-20=-234/450, 6-21=-309/0,  
 4-21=0/346, 4-22=-550/0, 2-22=0/520, 8-17=-886/0, 9-17=0/626, 9-15=-756/0,  
 11-15=0/922, 11-14=-1111/0, 12-14=0/893

- 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 3x4 MT20 unless otherwise indicated.
  - 4) Refer to girder(s) for truss to truss connections.
  - 5) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 6) CAUTION, Do not erect truss backwards.
  - 7) Graphical web bracing representation does not depict the size, type or the orientation of the brace on the web. Symbol only indicates that the member must be braced.
  - 8) Bearing symbols are only graphical representations of a possible bearing condition. Bearing symbols are not considered in the structural design of the truss to support the loads indicated.

**LOAD CASE(S)** Standard  
 1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00  
 Uniform Loads (plf)  
 Vert: 13-25=-7, 1-12=-67  
 Concentrated Loads (lb)  
 Vert: 2=-800



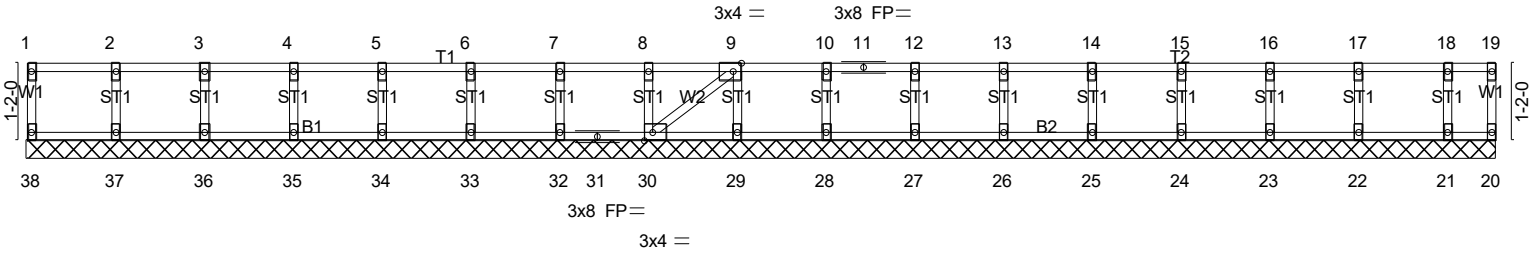
10/16/2024

**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 24-8791-F02	Truss F210	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC Job Reference (optional) <b># 53422</b>
--------------------	---------------	-------------------------------------	----------	----------	--

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:35 2024 Page 1  
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-6DtnTS34ejOEEnPxuLmoOdxlso5sV56fkOLKX4ySt\_g

Scale = 1:34.6



22-0-12  
22-0-12

Plate Offsets (X,Y)-- [9:0-1-8,Edge], [30:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
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 29 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH			
				Weight: 92 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 22-0-12.  
(lb) - Max Grav All reactions 250 lb or less at joint(s) 38, 20, 37, 36, 35, 34, 33, 32, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21

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

- NOTES-** (6-7)
- 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) 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

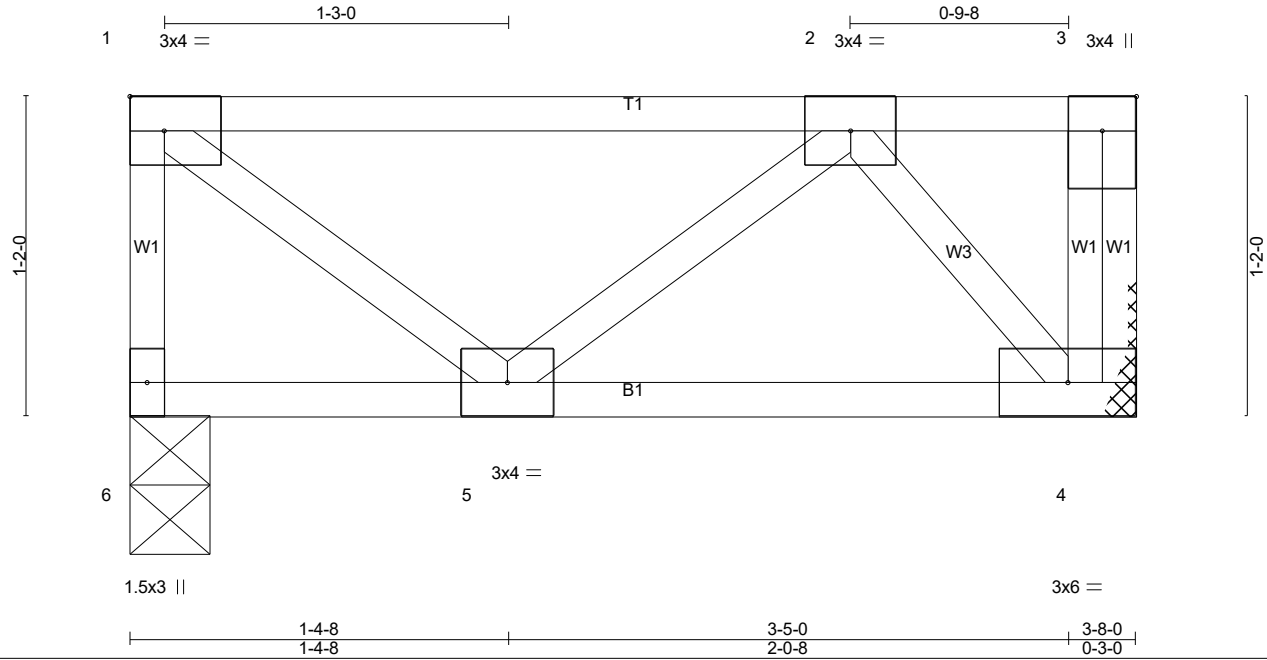


10/16/2024

**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 24-8791-F02	Truss F211	Truss Type Floor	Qty 1	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:35 2024 Page 1  
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-6DtnTS34ejOEnPxPuLmoOdxFpo58V5efkOLKX4ySt\_g



Scale = 1:8.4

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.26	Vert(LL) -0.00 5 >999 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.05	Vert(CT) -0.00 4-5 >999 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.06	Horz(CT) 0.00 4 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-P		Weight: 21 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 3-8-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 6=191/0-3-8 (min. 0-1-8), 4=191/Mechanical

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
WEBS 2-4=-271/0

**NOTES-** (3)  
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.

**LOAD CASE(S)** Standard



10/16/2024

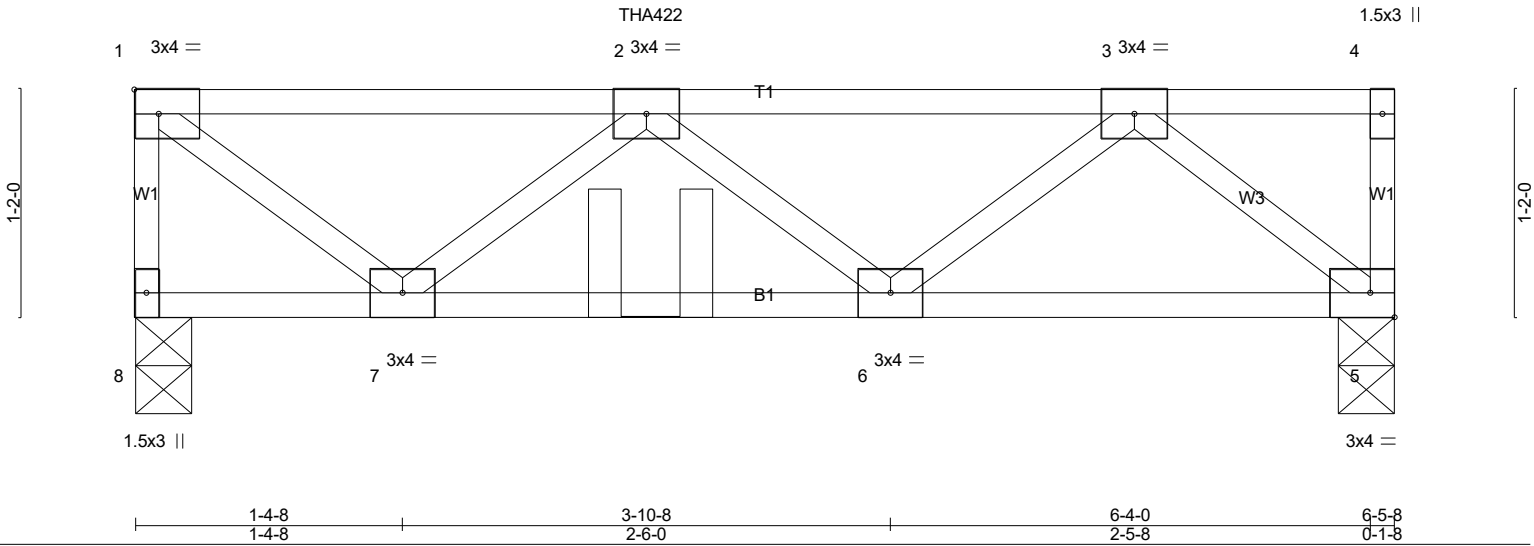
**Warning!**—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 24-8791-F02	Truss F212	Truss Type Floor Girder	Qty 1	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	----------------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:35 2024 Page 1  
ID: oDuWOOmHxMOj2fwcp2aKqzMG6w-6DtnTS34ejOEnPxPuLmoOdxF5o3\_V1QfkOLKX4ySt\_g



Scale = 1:11.8



<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
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 0.19	Vert(CT) -0.01 6-7 >999 360		
BCLL 0.0	Rep Stress Incr NO	WB 0.27	Horz(CT) 0.00 5 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-P		Weight: 33 lb	FT = 20%F, 11%E

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

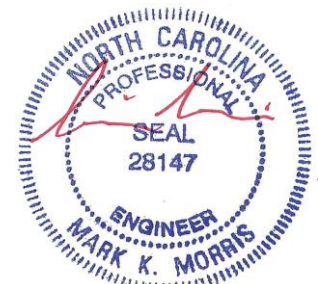
**BRACING-**  
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.  
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

**REACTIONS.** (lb/size) 8=459/0-3-8 (min. 0-1-8), 5=424/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-8=-453/0, 1-2=-443/0, 2-3=-667/0  
BOT CHORD 6-7=0/843, 5-6=0/458  
WEBS 1-7=0/566, 2-7=-521/0, 3-6=0/272, 3-5=-592/0

- NOTES-** (5)
- 1) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
  - 2) Use Simpson Strong-Tie THA422 (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.
  - 3) Fill all nail holes where hanger is in contact with lumber.
  - 4) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

**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=-186(F)



10/16/2024

**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 24-8791-F02	Truss F214	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	Job Reference (optional) <b># 53422</b>
--------------------	---------------	-------------------------------------	----------	----------	--	--

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:36 2024 Page 1  
ID:oDuWOOmHxMOj2fwcp2aKqzMG6w-bPRAg04iP1W5OZWbS2H1xqTTcCR5EXMoy24u4WYSt\_f

Scale = 1:24.8

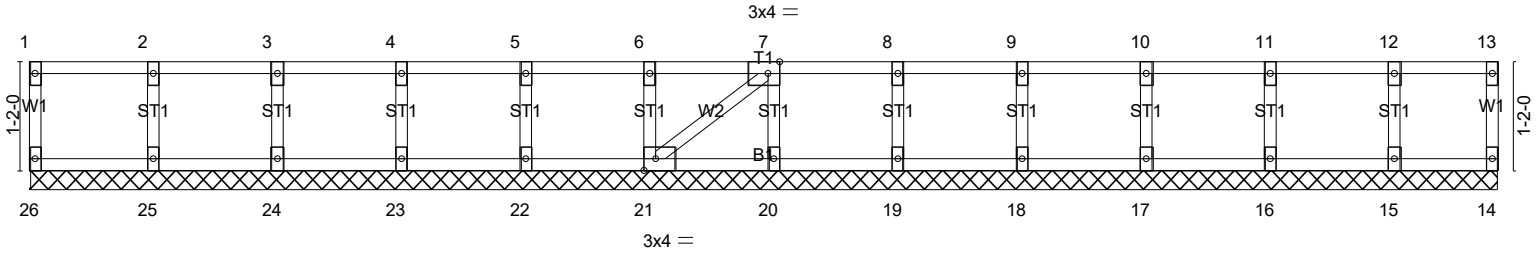


Plate Offsets (X,Y)-- [7:0-1-8,Edge], [21:0-1-8,Edge]		15-9-6		15-9-6			
<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00		TC 0.06	Vert(LL) n/a - n/a	999	MT20	244/190
TCDL 10.0	Lumber DOL 1.00		BC 0.01	Vert(CT) n/a - n/a	999		
BCLL 0.0	Rep Stress Incr YES		WB 0.03	Horz(CT) -0.00 19 n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH				
						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 10-0-0 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 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-** (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



10/16/2024

**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 24-8791-F02	Truss F215	Truss Type Floor	Qty 2	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:36 2024 Page 1  
ID:oDuW00MhLxMOj2fwcp2aKqzMG6w-bPRAg04iP1W5OZwS2H1xqTLpCFdEPxoy24u4WySt.f



Scale = 1:26.3

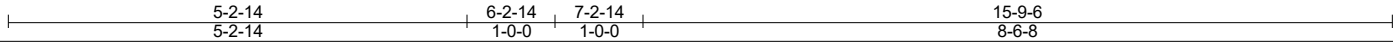
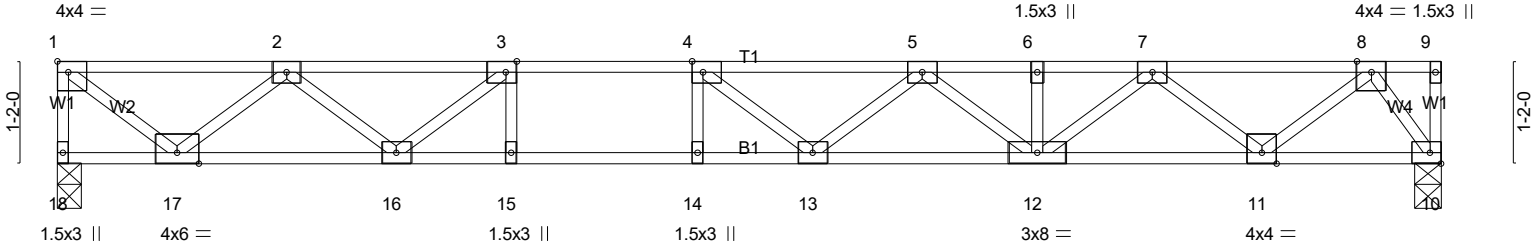


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.63	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.80	Vert(LL) -0.26 13-14 >736 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.57	Vert(CT) -0.35 13-14 >539 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.04 10 n/a n/a		
	Code IRC2021/TPI2014			Weight: 78 lb	FT = 20%F, 11%E

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

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

**REACTIONS.** (lb/size) 18=861/0-3-6 (min. 0-1-8), 10=861/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-18=-860/0, 1-2=-939/0, 2-3=-2351/0, 3-4=-3060/0, 4-5=-3159/0, 5-6=-2644/0, 6-7=-2644/0, 7-8=-1396/0  
BOT CHORD 16-17=0/1796, 15-16=0/3060, 14-15=0/3060, 13-14=0/3060, 12-13=0/3087, 11-12=0/2147, 10-11=0/612  
WEBS 3-15=0/333, 4-14=-301/28, 3-16=-972/0, 2-16=0/722, 2-17=-1115/0, 1-17=0/1203, 4-13=-260/330, 5-13=-25/273,  
5-12=-566/0, 7-12=0/635, 7-11=-977/0, 8-11=0/1020, 8-10=-1068/0

- NOTES-** (4-5)
- Unbalanced floor live loads have been considered for this design.
  - 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



10/16/2024

**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 24-8791-F02	Truss F216	Truss Type Floor	Qty 1	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:36 2024 Page 1  
 ID:oDuW00MhLxMOj2fwcp2aKqzMG6w-bPRAGo4iP1W5OZWbS2H1xqTLVCGNEP9oy24u4WySt\_f



Scale = 1:25.3

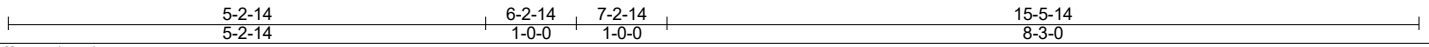
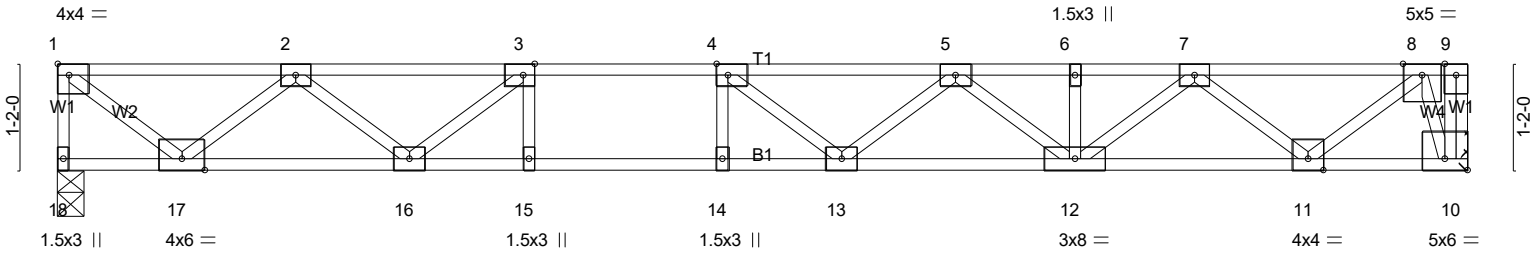


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge], [10:Edge,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.58	Vert(LL)	-0.23 13-14	>786	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.76	Vert(CT)	-0.32 13-14	>578	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.56	Horz(CT)	0.04 10	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 79 lb	FT = 20%F, 11%E

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

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

**REACTIONS.** (lb/size) 18=842/0-3-6 (min. 0-1-8), 10=842/Mechanical

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-18=-840/0, 1-2=-915/0, 2-3=-2280/0, 3-4=-2946/0, 4-5=-3000/0, 5-6=-2439/0, 6-7=-2439/0, 7-8=-1142/0  
 BOT CHORD 16-17=0/1751, 15-16=0/2946, 14-15=0/2946, 13-14=0/2946, 12-13=0/2901, 11-12=0/1914, 10-11=0/339  
 WEBS 3-15=-7/312, 4-14=-280/38, 3-16=-921/0, 2-16=0/688, 2-17=-1088/0, 1-17=0/1172, 4-13=-284/278, 5-13=0/288,  
 5-12=-591/0, 7-12=0/670, 7-11=-1005/0, 8-11=0/1045, 8-10=-1000/0

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



10/16/2024

**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.

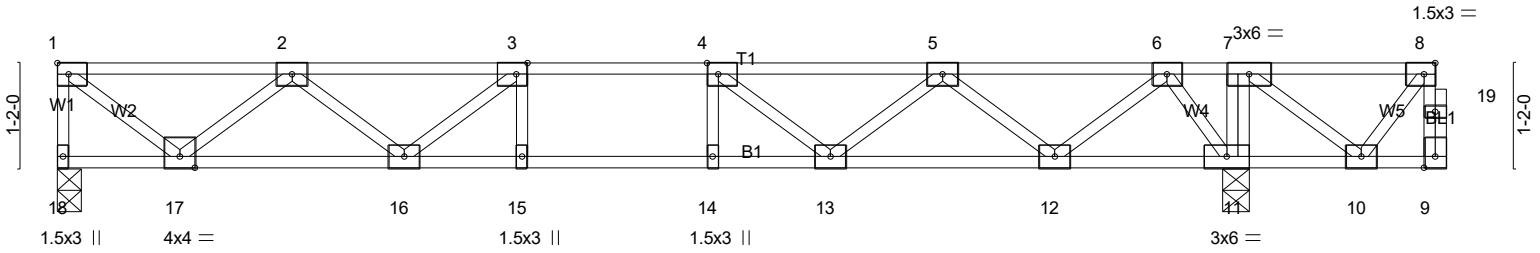


Job 24-8791-F02	Truss F217	Truss Type Floor	Qty 1	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:37 2024 Page 1  
ID:oDuWOOMhLxMOj2fwcp2aKqzMG6w-3b?Yt85K9Key0j5n0lpGT20amccdztyBiqRcyySt\_e



Scale = 1:25.7



5-2-14	6-2-14	7-2-14	13-1-14	13-3-6	15-5-12
5-2-14	1-0-0	1-0-0	5-11-0	0-1-8	2-2-6
Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [8:0-1-8,Edge]					

LOADING (psf)	SPACING-	CSI.	DEFL.	in (loc)	l/defl	L/d	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.36	Vert(LL)	-0.13	13-14	>999	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.69	Vert(CT)	-0.16	13-14	>984		
BCLL 0.0	Lumber DOL 1.00	WB 0.46	Horz(CT)	0.03	11	n/a		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH						
	Code IRC2021/TPI2014						Weight: 79 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 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 18=701/0-3-6 (min. 0-1-8), 11=975/0-3-8 (min. 0-1-8)  
Max Grav 18=715(LC 3), 11=975(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-18=-710/0, 1-2=-759/0, 2-3=-1817/0, 3-4=-2196/0, 4-5=-1971/0, 5-6=-1104/0  
BOT CHORD 16-17=0/1459, 15-16=0/2196, 14-15=0/2196, 13-14=0/2196, 12-13=0/1704, 11-12=-84/484  
WEBS 7-11=-284/0, 3-16=-587/0, 2-16=0/476, 2-17=-911/0, 1-17=0/972, 4-13=-496/0, 5-13=0/421, 5-12=-802/0, 6-12=0/831, 6-11=-886/0

- 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



10/16/2024

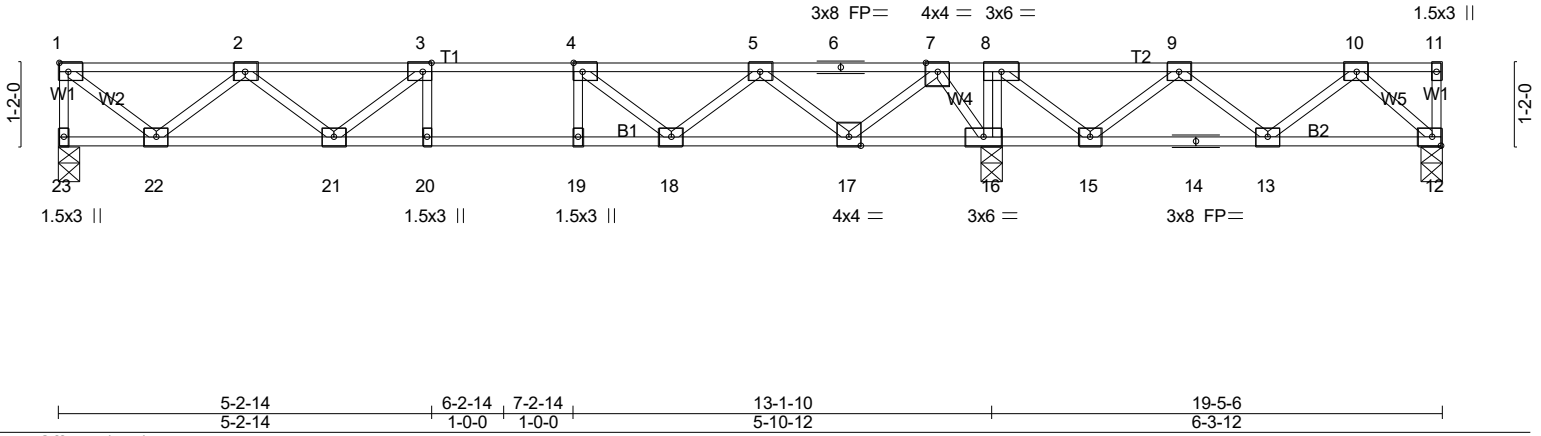
**Warning!**—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 24-8791-F02	Truss F218	Truss Type Floor	Qty 1	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:37 2024 Page 1  
ID:oDuW00MhLxMOj2fwcp2aKqzMG6w-3b?Y185K9Key0j5n0lpGT20Zpcd1zt1yBiqRcyySt\_e



Scale = 1:32.4



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 40.0	2-0-0	TC 0.42	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.00	BC 0.60	Vert(LL) -0.09 20-21 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.45	Vert(CT) -0.12 20-21 >999 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.02 16 n/a n/a		
	Code IRC2021/TPI2014			Weight: 97 lb	FT = 20%F, 11%E

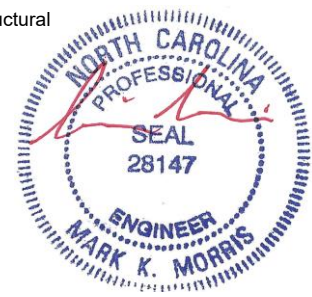
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 23=617/0-3-6 (min. 0-1-8), 12=129/0-3-8 (min. 0-1-8), 16=1380/0-3-8 (min. 0-1-8)  
Max Uplift 12=-107(LC 3)  
Max Grav 23=623(LC 3), 12=272(LC 4), 16=1380(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-23=-616/0, 1-2=-646/0, 2-3=-1479/0, 3-4=-1654/0, 4-5=-1223/0, 7-8=0/1317, 8-9=0/844, 9-10=-298/324  
BOT CHORD 21-22=0/1248, 20-21=0/1654, 19-20=0/1654, 18-19=0/1654, 17-18=0/829, 16-17=-815/0, 15-16=-1317/0, 14-15=-552/306, 13-14=-552/306, 12-13=-130/257  
WEBS 8-16=-615/0, 3-21=-287/0, 2-21=0/302, 2-22=-783/0, 1-22=0/828, 4-18=-568/0, 5-18=0/524, 5-17=-917/0, 7-17=0/954, 7-16=-997/0, 8-15=0/717, 9-15=-658/0, 9-13=-10/297, 10-13=-252/54, 10-12=-351/177

- NOTES-** (6-7)
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 12.
  - 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



10/16/2024

**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 24-8791-F02	Truss F219	Truss Type Floor	Qty 1	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC
					# 53422

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:37 2024 Page 1  
ID:oDuW00MhLxMOj2fwcp2aKqzMG6w-3b?Y185K9Key0j5n0lpGT20Zpcd1zt1yBiqRcyySt\_e



Scale = 1:32.4

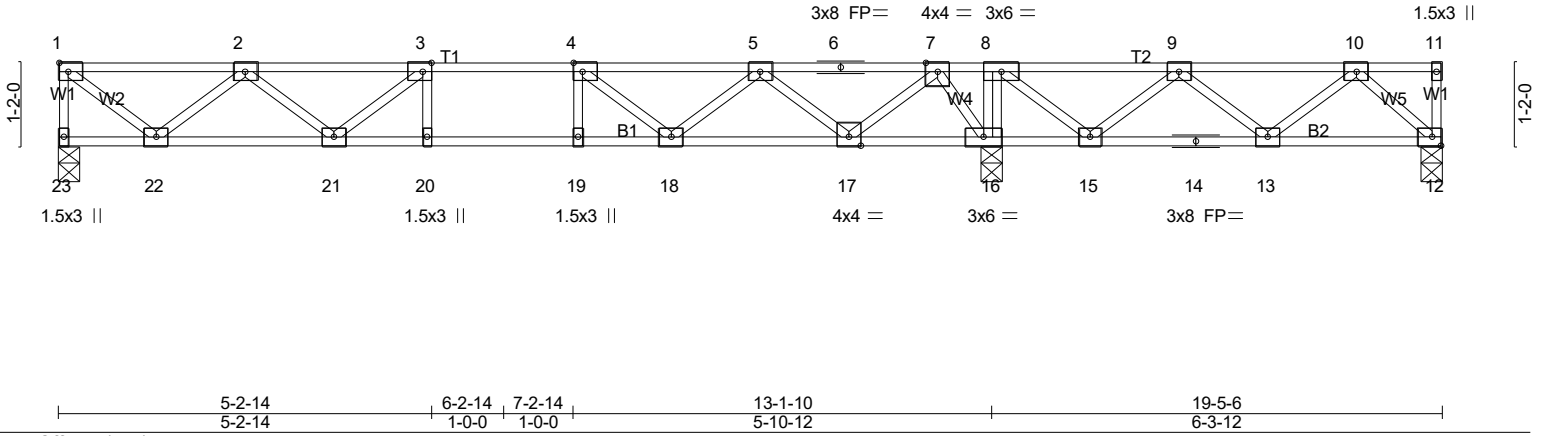


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge]

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 0.42	Vert(LL)	-0.09 20-21	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.60	Vert(CT)	-0.12 20-21	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.45	Horz(CT)	0.02 16	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 97 lb	FT = 20%F, 11%E

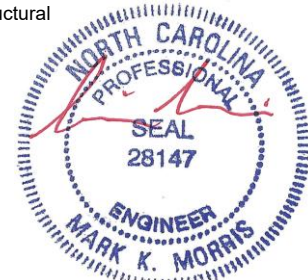
LUMBER-	BRACING-
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.1(flat)	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 23=617/0-3-6 (min. 0-1-8), 12=129/0-3-8 (min. 0-1-8), 16=1380/0-3-8 (min. 0-1-8)  
Max Uplift 12=-107(LC 3)  
Max Grav 23=623(LC 3), 12=272(LC 4), 16=1380(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-23=-616/0, 1-2=-646/0, 2-3=-1479/0, 3-4=-1654/0, 4-5=-1223/0, 7-8=0/1317, 8-9=0/844, 9-10=-298/324  
BOT CHORD 21-22=0/1248, 20-21=0/1654, 19-20=0/1654, 18-19=0/1654, 17-18=0/829, 16-17=-815/0, 15-16=-1317/0, 14-15=-552/306, 13-14=-552/306, 12-13=-130/257  
WEBS 8-16=-615/0, 3-21=-287/0, 2-21=0/302, 2-22=-783/0, 1-22=0/828, 4-18=-568/0, 5-18=0/524, 5-17=-917/0, 7-17=0/954, 7-16=-997/0, 8-15=0/717, 9-15=-658/0, 9-13=-10/297, 10-13=-252/54, 10-12=-351/177

- NOTES-** (6-7)
- Unbalanced floor live loads have been considered for this design.
  - All plates are 3x4 MT20 unless otherwise indicated.
  - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 107 lb uplift at joint 12.
  - 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



10/16/2024

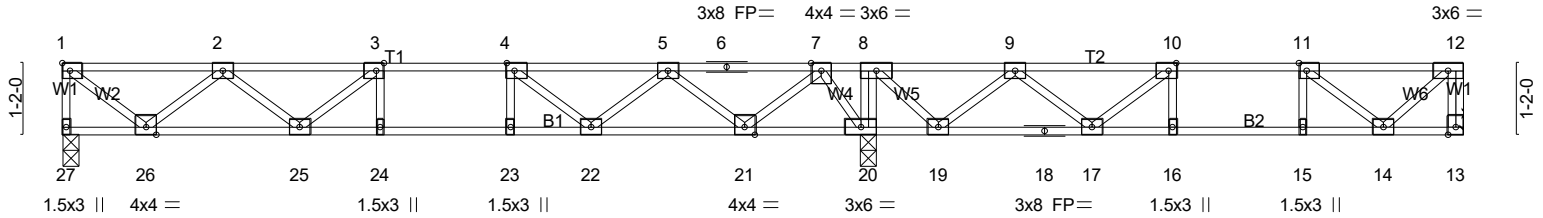
**Warning!**—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 24-8791-F02	Truss F220	Truss Type Floor	Qty 3	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:38 2024 Page 1  
ID:oDuWOOmHxLxMOj2fwcp2aKqzMG6w-XoZw5U6ywenpetg\_aTKV0FYkf0yQik85QMZ\_8PySt\_d



Scale = 1:37.5



5-2-14	6-2-14	7-2-14	13-1-10	18-1-12	19-1-12	20-1-12	22-9-14
5-2-14	1-0-0	1-0-0	6-10-12	5-0-2	1-0-0	1-0-0	2-8-2

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

<b>LOADING</b> (psf)	<b>SPACING-</b>	2-0-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.41	Vert(LL)	-0.10 24-25	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.66	Vert(CT)	-0.13 24-25	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.46	Horz(CT)	0.02 13	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 114 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
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 6-0-0 oc bracing.
WEBS 2x4 SP No.3(flat)	

**REACTIONS.** (lb/size) 27=611/0-3-6 (min. 0-1-8), 13=379/Mechanical, 20=1500/0-3-8 (min. 0-1-8)  
Max Grav 27=647(LC 3), 13=437(LC 4), 20=1500(LC 1)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
**TOP CHORD** 1-27=-640/0, 12-13=-426/0, 1-2=-676/0, 2-3=-1568/0, 3-4=-1796/0, 4-5=-1418/0, 5-6=-387/371, 6-7=-387/371, 7-8=0/1410, 8-9=0/828, 9-10=-599/250, 10-11=-809/32, 11-12=-373/0  
**BOT CHORD** 25-26=0/1303, 24-25=0/1796, 23-24=0/1796, 22-23=0/1796, 21-22=-150/1057, 20-21=-845/0, 19-20=-1410/0, 18-19=-433/346, 17-18=-433/346, 16-17=-32/809, 15-16=-32/809, 14-15=-32/809  
**WEBS** 8-20=-709/0, 3-25=-291/57, 2-25=0/345, 2-26=-817/0, 1-26=0/865, 4-22=-643/0, 5-22=0/549, 5-21=-935/0, 7-21=0/973, 7-20=-979/0, 10-17=-460/0, 9-17=0/446, 9-19=-844/0, 8-19=0/820, 11-14=-557/67, 12-14=0/498

- 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



10/16/2024

**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 24-8791-F02	Truss F222	Truss Type Floor	Qty 13	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	-----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:38 2024 Page 1  
 ID:oDuWOOMhLxMOJ2fwp2aKqzMG6w-XoZw5U6ywenpetg\_aTKV0FYkV0vdiMP5QMZ\_8PySt\_d



Scale = 1:26.4

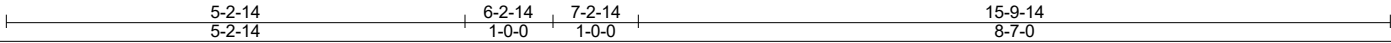
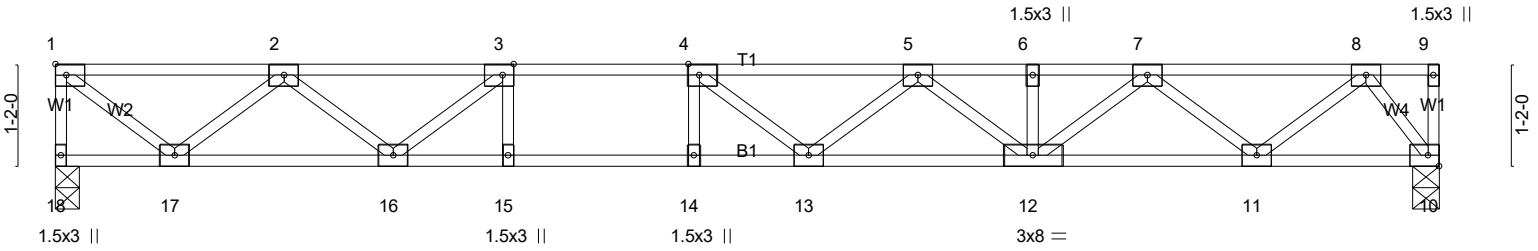


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge]

<b>LOADING</b> (psf)	<b>SPACING-</b>	1-4-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.42	Vert(LL)	-0.18 13-14	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.83	Vert(CT)	-0.25 13-14	>755	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.38	Horz(CT)	0.03 10	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 79 lb	FT = 20%F, 11%E

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

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

**REACTIONS.** (lb/size) 18=576/0-3-6 (min. 0-1-8), 10=576/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
 TOP CHORD 1-18=-575/0, 1-2=-628/0, 2-3=-1575/0, 3-4=-2049/0, 4-5=-2117/0, 5-6=-1779/0, 6-7=-1779/0, 7-8=-951/0  
 BOT CHORD 16-17=0/1200, 15-16=0/2049, 14-15=0/2049, 13-14=0/2049, 12-13=0/2074, 11-12=0/1449, 10-11=0/430  
 WEBS 3-16=-649/0, 2-16=0/488, 2-17=-746/0, 1-17=0/804, 5-12=-376/0, 7-12=0/421, 7-11=-649/0, 8-11=0/678, 8-10=-723/0

- NOTES-** (4-5)
- Unbalanced floor live loads have been considered for this design.
  - 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

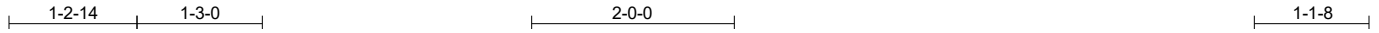


10/16/2024

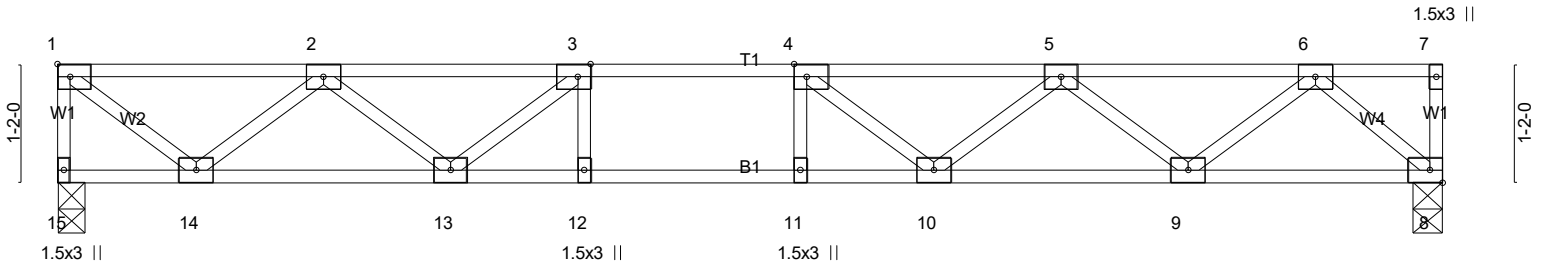
**Warning!**—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 24-8791-F02	Truss F223	Truss Type Floor	Qty 2	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:38 2024 Page 1  
ID:oDuW00MhLxMOj2fwcp2aKqzMG6w-XoZw5U6ywenpetg\_aTKV0FYmv0\_PiML5QMZ\_8PySt\_d



Scale = 1:22.6



5-2-14	6-2-14	7-2-14	13-7-6
5-2-14	1-0-0	1-0-0	6-4-8
Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge]			

<b>LOADING</b> (psf)	<b>SPACING-</b>	1-4-0	<b>CSI.</b>	<b>DEFL.</b>	in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.27	Vert(LL)	-0.10 10-11	>999	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.53	Vert(CT)	-0.13 10-11	>999	360		
BCLL 0.0	Rep Stress Incr	YES	WB 0.32	Horz(CT)	0.02 8	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH						
								Weight: 67 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
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=495/0-3-6 (min. 0-1-8), 8=495/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-15=-492/0, 1-2=-528/0, 2-3=-1278/0, 3-4=-1571/0, 4-5=-1460/0, 5-6=-929/0  
BOT CHORD 13-14=0/1014, 12-13=0/1571, 11-12=0/1571, 10-11=0/1571, 9-10=0/1308, 8-9=0/531  
WEBS 3-13=-438/0, 2-13=0/347, 2-14=-633/0, 1-14=0/676, 4-10=-275/13, 5-9=-494/0, 6-9=0/518, 6-8=-706/0

- NOTES-** (4-5)
- 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) 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



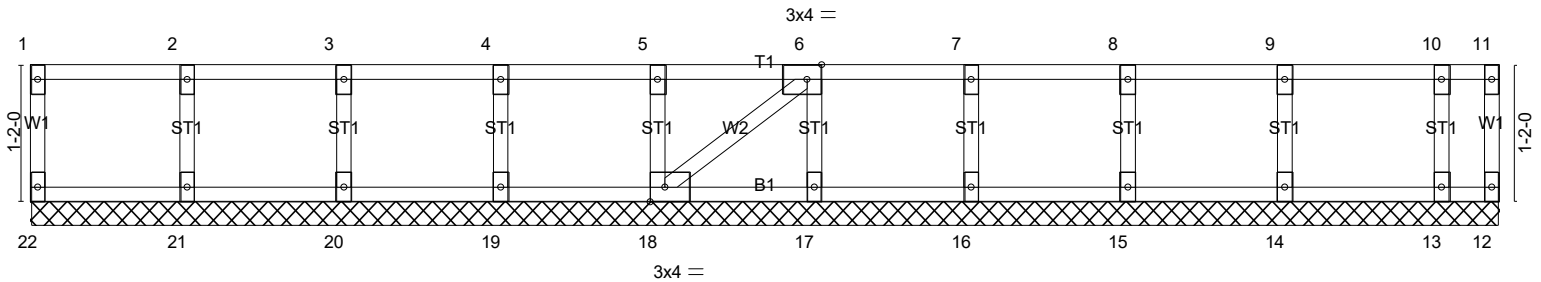
10/16/2024

**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 24-8791-F02	Truss F227	Truss Type Floor Supported Gable	Qty 1	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC Job Reference (optional) # 53422
--------------------	---------------	-------------------------------------	----------	----------	--

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:39 2024 Page 1  
ID: oDuW00MhLxMOj2fwcp2aKqzMG6w-?\_7l1q6ahyvgF1FA7ArkzT5\_rPSoRu6Fe0JYhrySt\_c

Scale = 1:19.6



12-5-14  
12-5-14

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

<b>LOADING</b> (psf)	<b>SPACING-</b> 2-0-0	<b>CSI.</b>	<b>DEFL.</b> in (loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
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	17	n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH					
						Weight: 54 lb	FT = 20%F, 11%E

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

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

**REACTIONS.** All bearings 12-5-14.  
(lb) - Max Uplift All uplift 100 lb or less at joint(s) 12  
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)  
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 12.  
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.

**LOAD CASE(S)** Standard



10/16/2024

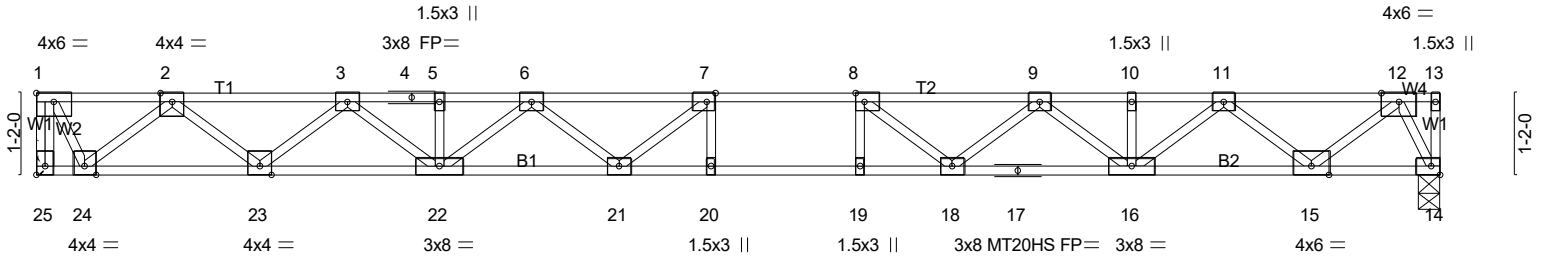
**Warning!**—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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 24-8791-F02	Truss F228	Truss Type Floor	Qty 3	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:39 2024 Page 1  
ID: oDuW00MhLxMOj2fwcp2aKqzMG6w-?\_7llq6ahyvgF1FA7ArkZT5tMP16RmGF60JYhrySt\_c



Scale = 1:32.9



9-8-4	10-8-4	11-8-4	20-0-4
9-8-4	1-0-0	1-0-0	8-4-0

Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [25:Edge,0-1-8]

<b>LOADING</b> (psf)	<b>SPACING-</b>	1-7-3	<b>CSI.</b>	<b>DEFL.</b>	in	(loc)	l/defl	L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL	1.00	TC 0.54	Vert(LL)	-0.36	20	>660	480	MT20	244/190
TCDL 10.0	Lumber DOL	1.00	BC 0.69	Vert(CT)	-0.50	20	>480	360	MT20HS	187/143
BCLL 0.0	Rep Stress Incr	YES	WB 0.54	Horz(CT)	0.07	14	n/a	n/a		
BCDL 5.0	Code IRC2021/TPI2014		Matrix-SH							
									Weight: 102 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
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* B2: 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) 25=872/Mechanical, 14=872/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-25=-872/0, 1-2=-442/0, 2-3=-2137/0, 3-4=-3356/0, 4-5=-3356/0, 5-6=-3356/0, 6-7=-3980/0, 7-8=-4104/0,  
8-9=-3723/0, 9-10=-2828/0, 10-11=-2828/0, 11-12=-1321/0  
BOT CHORD 23-24=0/1407, 22-23=0/2842, 21-22=0/3800, 20-21=0/4104, 19-20=0/4104, 18-19=0/4104, 17-18=0/3387, 16-17=0/3387,  
15-16=0/2164, 14-15=0/457  
WEBS 7-21=-468/166, 6-21=0/378, 6-22=-567/0, 3-22=0/657, 3-23=-917/0, 2-23=0/950, 2-24=-1256/0, 1-24=0/931,  
8-18=-689/0, 9-18=0/517, 9-16=-713/0, 11-16=0/848, 11-15=-1097/0, 12-15=0/1124, 12-14=-1023/0

- NOTES-** (6-7)
- 1) Unbalanced floor live loads have been considered for this design.
  - 2) All plates are MT20 plates unless otherwise indicated.
  - 3) All plates are 3x4 MT20 unless otherwise indicated.
  - 4) Refer to girder(s) for truss to truss connections.
  - 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



10/16/2024

**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 24-8791-F02	Truss F229	Truss Type Floor	Qty 6	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:39 2024 Page 1  
ID:oDuW00MhLxMOj2fwcp2aKqzMG6w-?\_7llq6ahyvgF1FA7ArkZT5sdPHwRokFe0JYhrySt\_c



Scale = 1:27.3

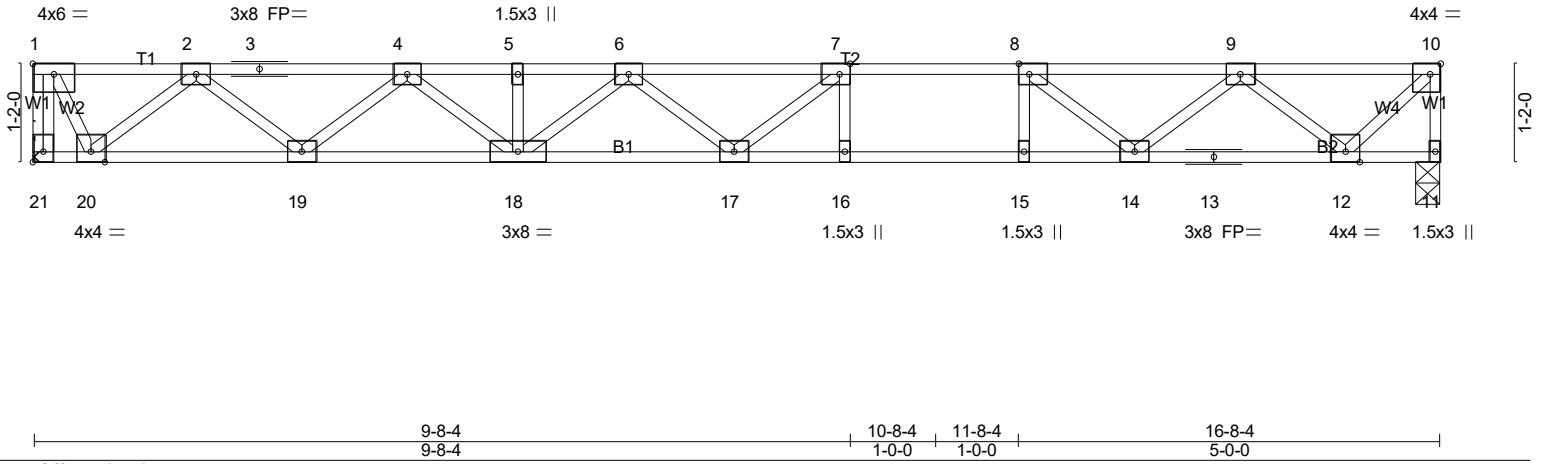


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [10:0-1-8,Edge], [21:Edge,0-1-8]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 1-7-3	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.59	Vert(LL) -0.26 16-17 >760 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.77	Vert(CT) -0.36 16-17 >554 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.44	Horz(CT) 0.04 11 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH			
				Weight: 84 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
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* B2: 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) 21=726/Mechanical, 11=726/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-21=-725/0, 10-11=-730/0, 1-2=-363/0, 2-3=-1710/0, 3-4=-1710/0, 4-5=-2559/0, 5-6=-2559/0, 6-7=-2831/0, 7-8=-2622/0, 8-9=-1921/0, 9-10=-661/0  
BOT CHORD 19-20=0/1154, 18-19=0/2237, 17-18=0/2855, 16-17=0/2622, 15-16=0/2622, 14-15=0/2622, 13-14=0/1395, 12-13=0/1395  
WEBS 7-16=-301/0, 8-15=0/327, 7-17=-128/410, 6-18=-377/0, 4-18=0/412, 4-19=-686/0, 2-19=0/724, 2-20=-1029/0, 1-20=0/764, 8-14=-924/0, 9-14=0/685, 9-12=-955/0, 10-12=0/926

- NOTES-** (5-6)
- 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.
  - 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



10/16/2024

**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 24-8791-F02	Truss F230	Truss Type Floor	Qty 3	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC	# 53422
--------------------	---------------	---------------------	----------	----------	--	---------

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:39 2024 Page 1  
ID:oDuW00MhLxMOj2fwcp2aKqzMG6w-?\_7l1q6ahyvgF1FA7ArkZT5vDPFrRozFe0JYhrySt\_c



Scale = 1:24.7

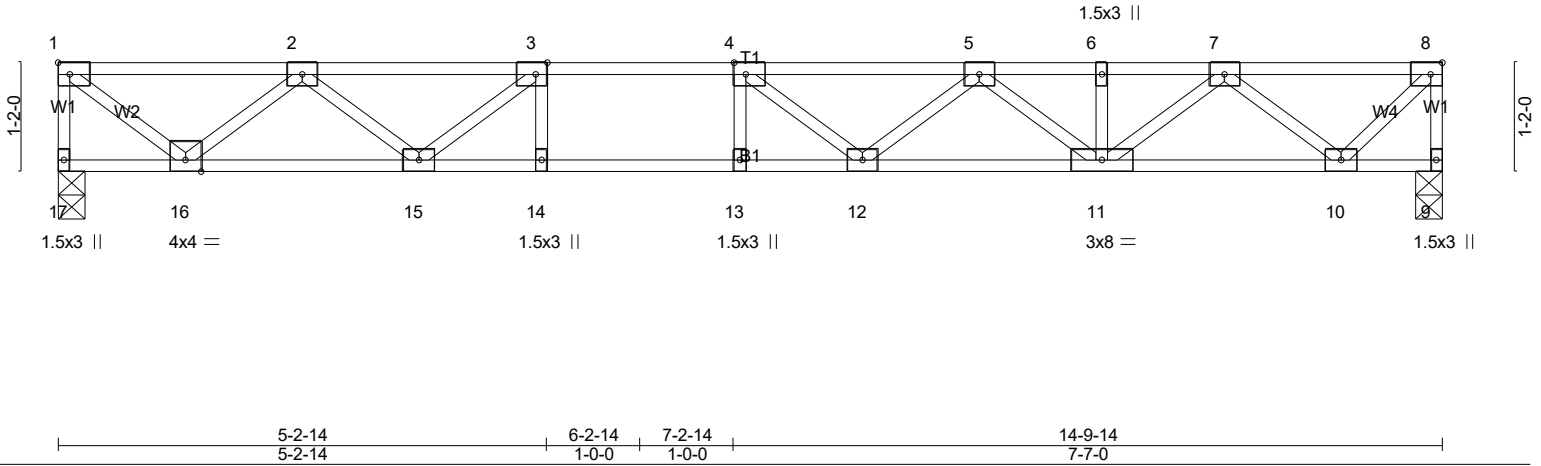


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [8:0-1-8,Edge]

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) -0.17 12-13 >999 480		
BCLL 0.0	Lumber DOL 1.00	WB 0.43	Vert(CT) -0.23 12-13 >772 360		
BCDL 5.0	Rep Stress Incr YES	Matrix-SH	Horz(CT) 0.03 9 n/a n/a		
	Code IRC2021/TPI2014			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)

**BRACING-**

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

**REACTIONS.** (lb/size) 17=646/0-3-6 (min. 0-1-8), 9=646/0-3-8 (min. 0-1-8)

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

TOP CHORD 1-17=-645/0, 8-9=-644/0, 1-2=-699/0, 2-3=-1727/0, 3-4=-2198/0, 4-5=-2181/0, 5-6=-1669/0, 6-7=-1669/0, 7-8=-558/0  
BOT CHORD 15-16=0/1338, 14-15=0/2198, 13-14=0/2198, 12-13=0/2198, 11-12=0/2067, 10-11=0/1219  
WEBS 3-15=-663/0, 2-15=0/506, 2-16=-833/0, 1-16=0/895, 4-12=-261/150, 5-12=0/252, 5-11=-509/0, 7-11=0/573, 7-10=-861/0, 8-10=0/797

**NOTES-** (4-5)

- Unbalanced floor live loads have been considered for this design.
- 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



10/16/2024

**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 24-8791-F02	Truss F231	Truss Type Floor	Qty 5	Ply 1	LOT 0.0014 HONEYCUTT HILLS   337 SHELBY MEADOW LANE ANGIER, NC
					# 53422

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Wed Oct 16 11:16:40 2024 Page 1  
ID: oDuWOOMhLxMOj2fwcp2aKqzMG6w-TAhgW97DSF1XtAqMhuMz5ge\_3pa?ADVOtg25DHySt\_b



Scale = 1:30.3

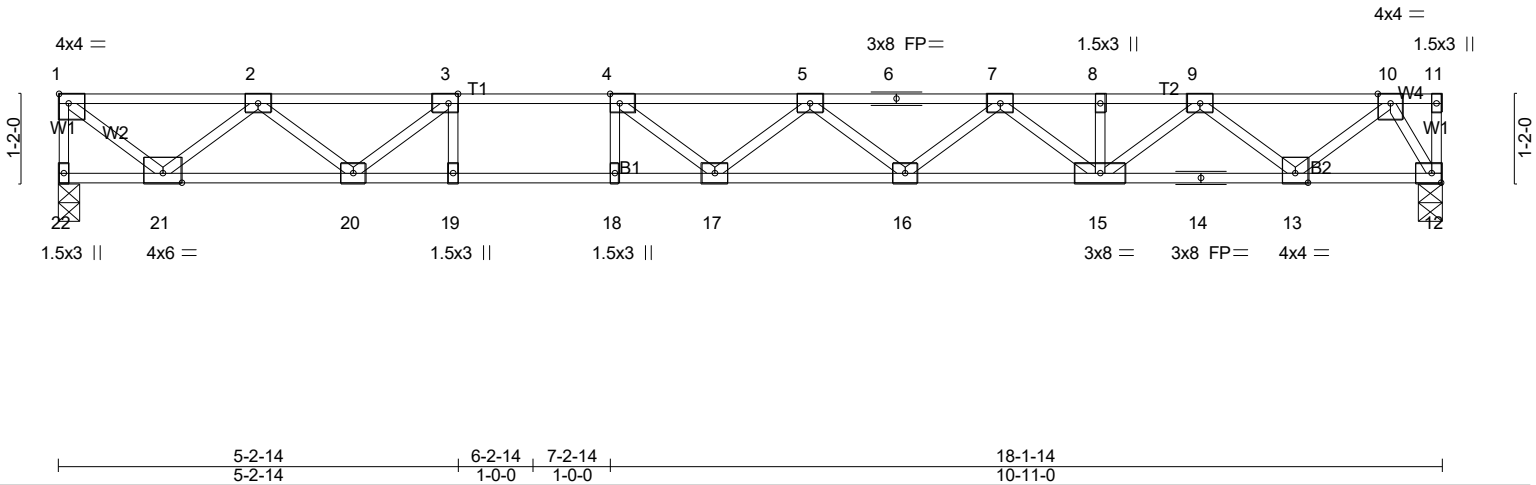


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [3:0-1-8,Edge], [4:0-1-8,Edge]					
<b>LOADING</b> (psf)	<b>SPACING-</b> 1-7-3	<b>CSI.</b>	<b>DEFL.</b> in (loc) l/defl L/d	<b>PLATES</b>	<b>GRIP</b>
TCLL 40.0	Plate Grip DOL 1.00	TC 0.80	Vert(LL) -0.35 17-18 >620 480	MT20	244/190
TCDL 10.0	Lumber DOL 1.00	BC 0.90	Vert(CT) -0.48 17-18 >451 360		
BCLL 0.0	Rep Stress Incr YES	WB 0.54	Horz(CT) 0.05 12 n/a n/a		
BCDL 5.0	Code IRC2021/TPI2014	Matrix-SH			
				Weight: 90 lb	FT = 20%F, 11%E

<b>LUMBER-</b>	<b>BRACING-</b>
TOP CHORD 2x4 SP No.1(flat)	TOP CHORD Structural wood sheathing directly applied or 2-2-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP SS(flat) *Except* B2: 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=793/0-3-6 (min. 0-1-8), 12=793/0-3-8 (min. 0-1-8)

**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.  
TOP CHORD 1-22=-795/0, 1-2=-880/0, 2-3=-2261/0, 3-4=-3062/0, 4-5=-3379/0, 5-6=-3223/0, 6-7=-3223/0, 7-8=-2533/0, 8-9=-2533/0, 9-10=-1237/0  
BOT CHORD 20-21=0/1677, 19-20=0/3062, 18-19=0/3062, 17-18=0/3062, 16-17=0/3467, 15-16=0/2976, 14-15=0/1977, 13-14=0/1977, 12-13=0/476  
WEBS 3-19=0/383, 4-18=-357/0, 3-20=-1056/0, 2-20=0/761, 2-21=-1037/0, 1-21=0/1127, 4-17=-84/546, 5-16=-318/0, 7-16=0/321, 7-15=-565/0, 9-15=0/710, 9-13=-963/0, 10-13=0/991, 10-12=-949/0

- NOTES-** (4-5)
- Unbalanced floor live loads have been considered for this design.
  - 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



10/16/2024

**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.