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 #: 47607
JOB: 24-3026-F02
JOB NAME: LOT 0.0042 HONEYCUTT HILLS
Wind Code: N/A
Wind Speed: Vult= N/A
Exposure Category: N/A
Mean Roof Height (feet): N/A
These truss designs comply with IRC 2015 as well as IRC 2018.
24 Truss Design(s)

Trusses:
F201, F202, F203, F204, F205, F206, F207, F208, F209, F210, F211, F212, F213, F214, F215, F216, F217, F218, F219, F220, F222, F223, F226, F227

4/15/2024
Mark Morris

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

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

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F201	Floor Supported Gable	1	1	# 47607
					Job Reference (optional)

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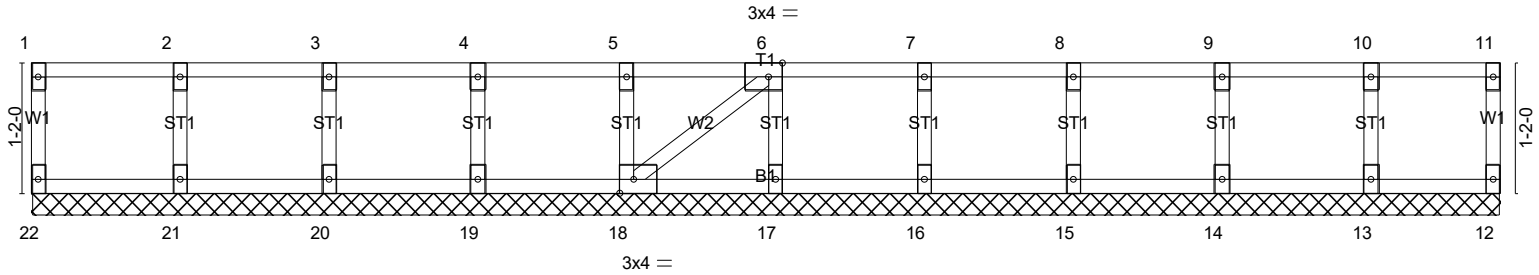

13-1-14
13-1-14

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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F202	Floor	5	1	Job Reference (optional) **# 47607**

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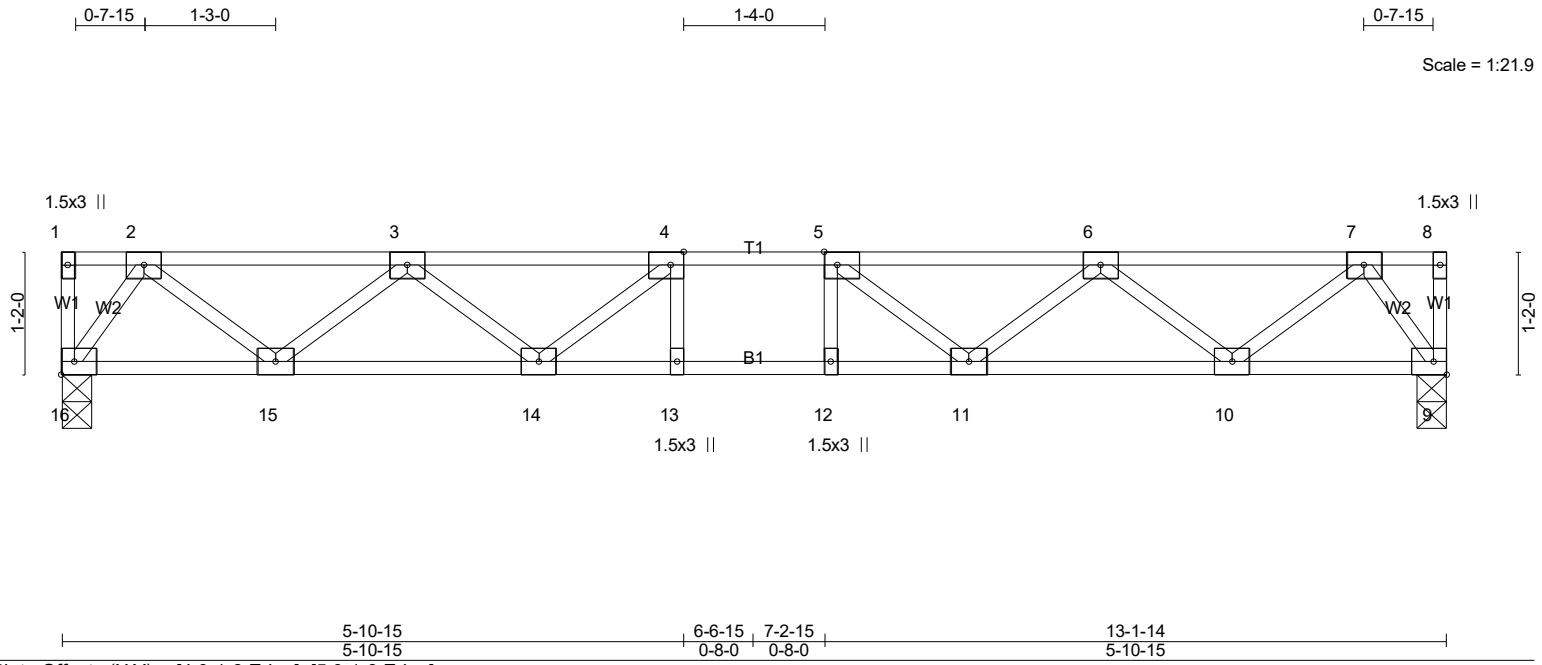

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.29	Vert(LL)	-0.09	12-13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.54	Vert(CT)	-0.12	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.03	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							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=-1124/0, 3-4=-1983/0, 4-5=-2237/0, 5-6=-1983/0, 6-7=-1124/0
BOT CHORD 15-16=0/502, 14-15=0/1716, 13-14=0/2237, 12-13=0/2237, 11-12=0/2237, 10-11=0/1716, 9-10=0/502
WEBS 4-14=-446/0, 3-14=0/381, 3-15=-771/0, 2-15=0/809, 2-16=-880/0, 5-11=-446/0, 6-11=0/381, 6-10=-771/0, 7-10=0/809, 7-9=-880/0

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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F203	Floor	4	1	Job Reference (optional) **# 47607**

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1-5-15 1-3-0 1-4-0 0-4-15

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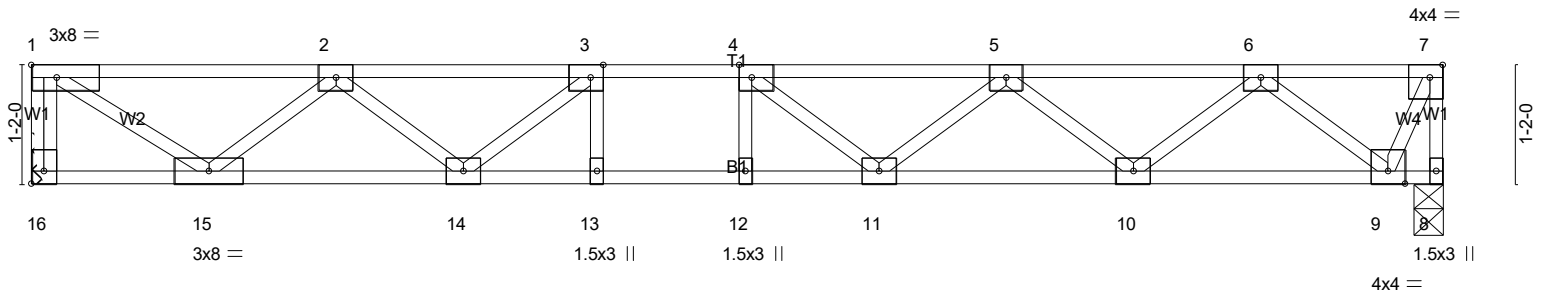

5-7-7 6-3-7 6-11-7 13-10-6
5-7-7 0-8-0 0-8-0 6-10-15

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [7:0-1-8,Edge], [16:Edge,0-1-8]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.37	Vert(LL)	-0.12	11-12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.70	Vert(CT)	-0.17	11-12	>968	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.55	Horz(CT)	0.03	8	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 71 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=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 1-16=-746/0, 7-8=-753/0, 1-2=-977/0, 2-3=-2051/0, 3-4=-2436/0, 4-5=-2329/0, 5-6=-1652/0, 6-7=-313/0
BOT CHORD 14-15=0/1700, 13-14=0/2436, 12-13=0/2436, 11-12=0/2436, 10-11=0/2160, 9-10=0/1118
WEBS 3-14=-584/0, 2-14=0/476, 2-15=-941/0, 1-15=0/1162, 4-11=-337/87, 5-11=0/308, 5-10=-661/0, 6-10=0/696, 6-9=-1047/0, 7-9=0/757

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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F204	Floor	3	1	# 47607
					Job Reference (optional)

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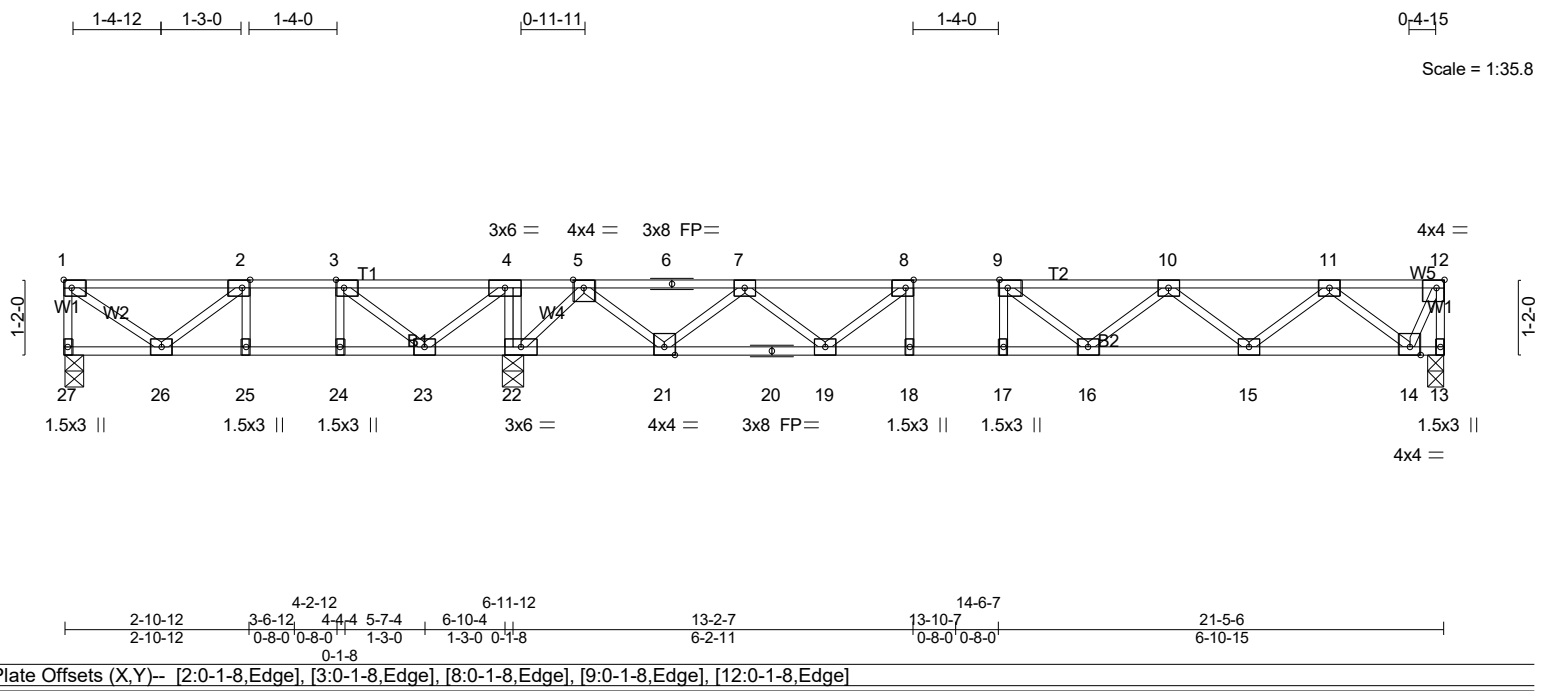

Plate Offsets (X,Y)-- [2:0-1-8,Edge], [3:0-1-8,Edge], [8:0-1-8,Edge], [9:0-1-8,Edge], [12:0-1-8,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.13	16-17	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.71	Vert(CT)	-0.17	16-17	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.03	13	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 108 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 27=213/0-3-8 (min. 0-1-8), 13=712/0-3-6 (min. 0-1-8), 22=1421/0-3-8 (min. 0-1-8)
Max Uplift27=-56(LC 4)
Max Grav27=326(LC 3), 13=724(LC 7), 22=1421(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-27=-325/50, 12-13=-725/0, 1-2=-283/123, 2-3=-470/356, 3-4=-69/746, 4-5=0/1207, 5-6=-680/0, 6-7=-680/0, 7-8=-1789/0, 8-9=-2240/0, 9-10=-2182/0, 10-11=-1574/0, 11-12=-301/0
BOT CHORD 25-26=-356/470, 24-25=-356/470, 23-24=-356/470, 22-23=-1207/0, 21-22=-356/0, 20-21=0/1386, 19-20=0/1386, 18-19=0/2240, 17-18=0/2240, 16-17=0/2240, 15-16=0/2050, 14-15=0/1071
WEBS 3-24=0/262, 4-22=-572/0, 2-26=-238/298, 1-26=-151/348, 3-23=-798/0, 4-23=0/663, 8-19=-650/0, 7-19=0/563, 7-21=-957/0, 5-21=0/997, 5-22=-1215/0, 9-16=-254/148, 10-15=-620/0, 11-15=0/654, 11-14=-1003/0, 12-14=0/726

NOTES- (6)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 56 lb uplift at joint 27.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) CAUTION, Do not erect truss backwards.

LOAD CASE(S) Standard

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F205	Floor	2	1	# 47607
					Job Reference (optional)

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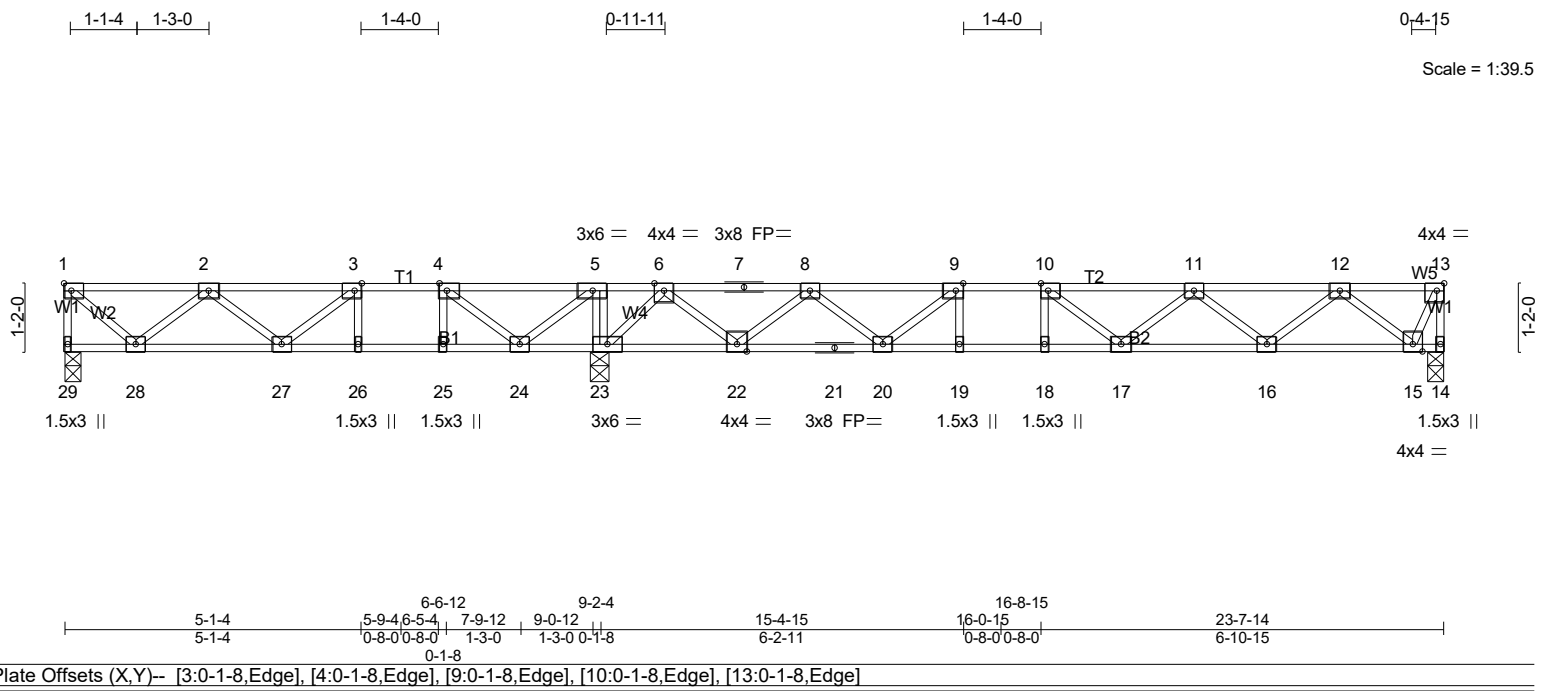


Plate Offsets (X,Y)-- [3:0-1-8,Edge], [4:0-1-8,Edge], [9:0-1-8,Edge], [10:0-1-8,Edge], [13:0-1-8,Edge]

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.55	Vert(LL)	-0.12	17-18	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.72	Vert(CT)	-0.17	17-18	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.03	14	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 119 lb	FT = 20%F, 11%E

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

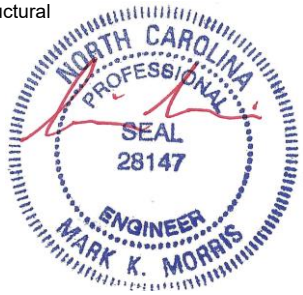
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 29=361/0-3-8 (min. 0-1-8), 14=703/0-3-6 (min. 0-1-8), 23=1525/0-3-8 (min. 0-1-8)
Max Grav 29=455(LC 3), 14=714(LC 7), 23=1525(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-29=-447/2, 13-14=-715/0, 1-2=-401/17, 2-3=-856/183, 3-4=-776/442, 4-5=-168/838, 5-6=0/1287, 6-7=-558/0, 7-8=-558/0, 8-9=-1693/0, 9-10=-2164/0, 10-11=-2127/0, 11-12=-1544/0, 12-13=-296/0
BOT CHORD 27-28=-48/820, 26-27=-442/776, 25-26=-442/776, 24-25=-442/776, 23-24=-1287/0, 22-23=-428/0, 21-22=0/1275, 20-21=0/1275, 19-20=0/2164, 18-19=0/2164, 17-18=0/2164, 16-17=0/2009, 15-16=0/1054
WEBS 3-26=-290/0, 4-25=0/323, 5-23=-651/0, 3-27=0/387, 2-28=-545/41, 1-28=-23/538, 4-24=-1013/0, 5-24=0/830, 9-20=-664/0, 8-20=0/573, 8-22=-965/0, 6-22=0/1005, 6-23=-1236/0, 11-16=-605/0, 12-16=0/638, 12-15=-986/0, 13-15=0/715

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



4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F206	Floor Supported Gable	1	1	# 47607
					Job Reference (optional)

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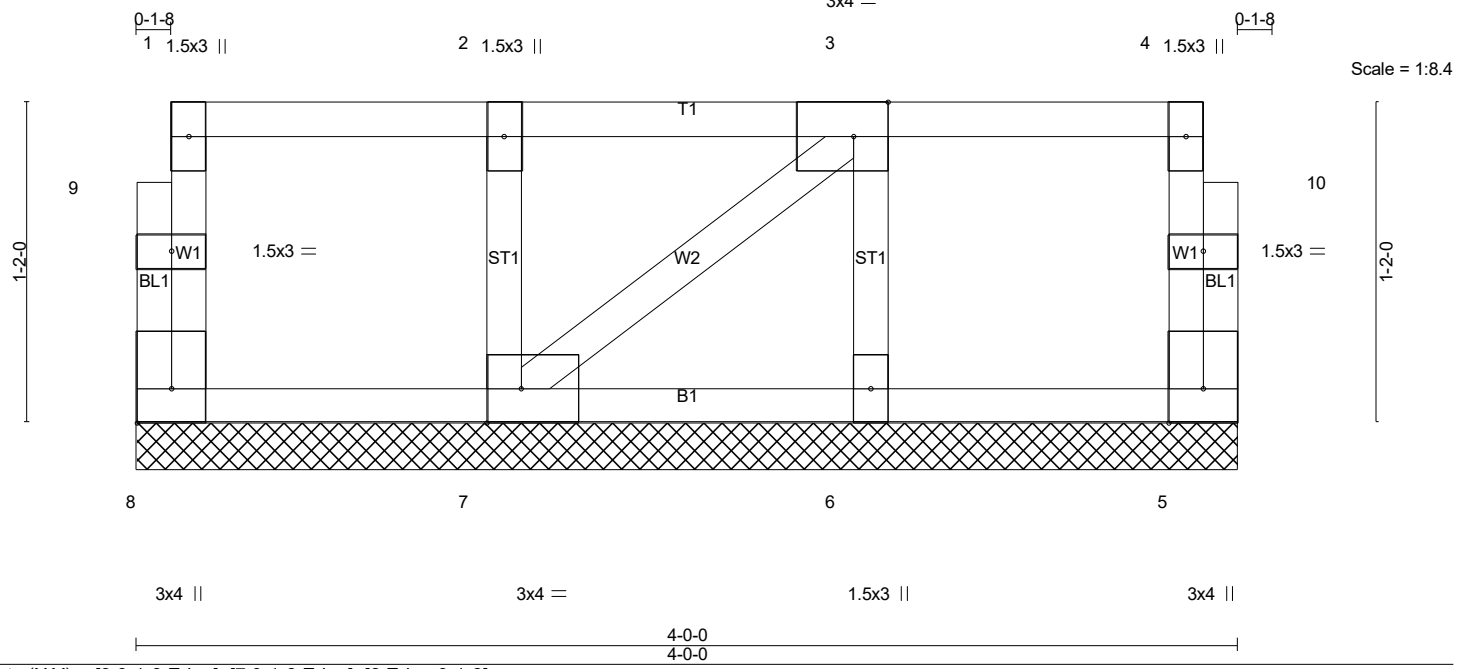

Plate Offsets (X,Y)-- [3:0-1-8,Edge], [7:0-1-8,Edge], [8:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.06	Vert(LL)	n/a	-	n/a	999	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.01	Vert(CT)	n/a	-	n/a	999		
BCLL	0.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 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)
1) Gable requires continuous bottom chord bearing.
2) Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
3) Gable studs spaced at 1-4-0 oc.
4) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
5) 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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F207	Floor	1	1	Job Reference (optional) **# 47607**

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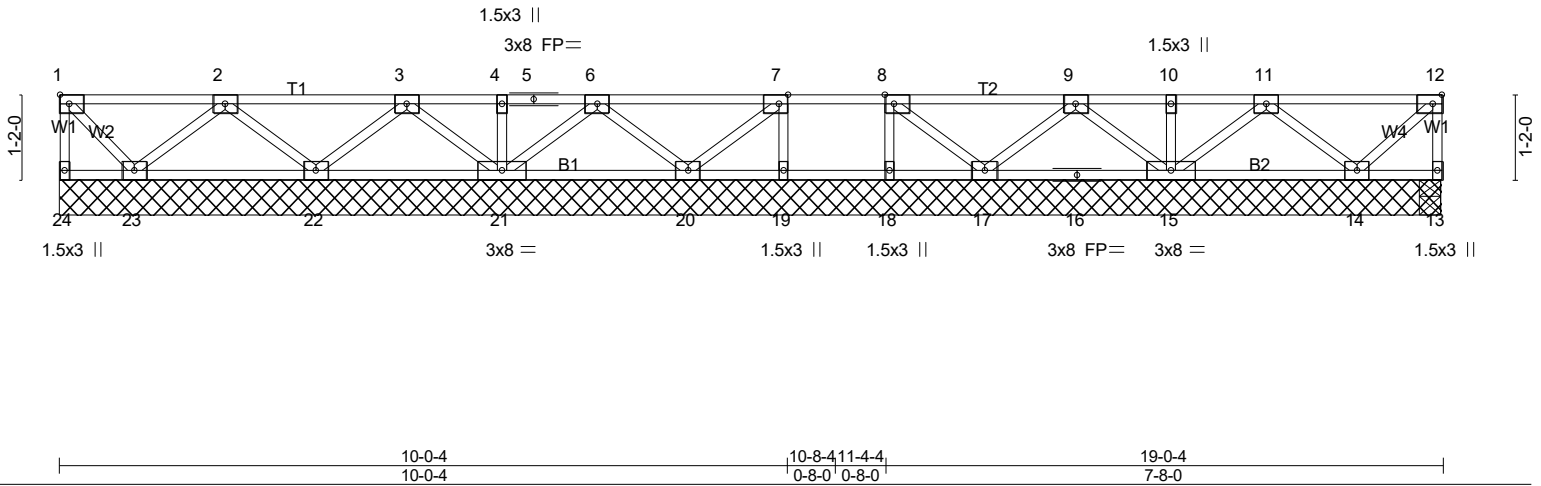
0-10-12 1-3-0 1-4-0 1-0-8

Scale: 3/8"=1'



10-0-4 10-8-4 11-4-4 19-0-4
10-0-4 0-8-0 0-8-0 7-8-0

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

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.23	Vert(LL)	0.00	14	****	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.04	Vert(CT)	-0.00	20-21	>999	360		
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

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 10-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except:
6-0-0 oc bracing: 19-20,18-19,17-18.

REACTIONS. All bearings 19-0-4.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 24, 13, 13, 19, 18, 20, 23, 17, 14 except 21=312(LC 1), 22=283(LC 1), 15=327(LC 1)

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

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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F208	FLOOR	5	1	# 47607
					Job Reference (optional)

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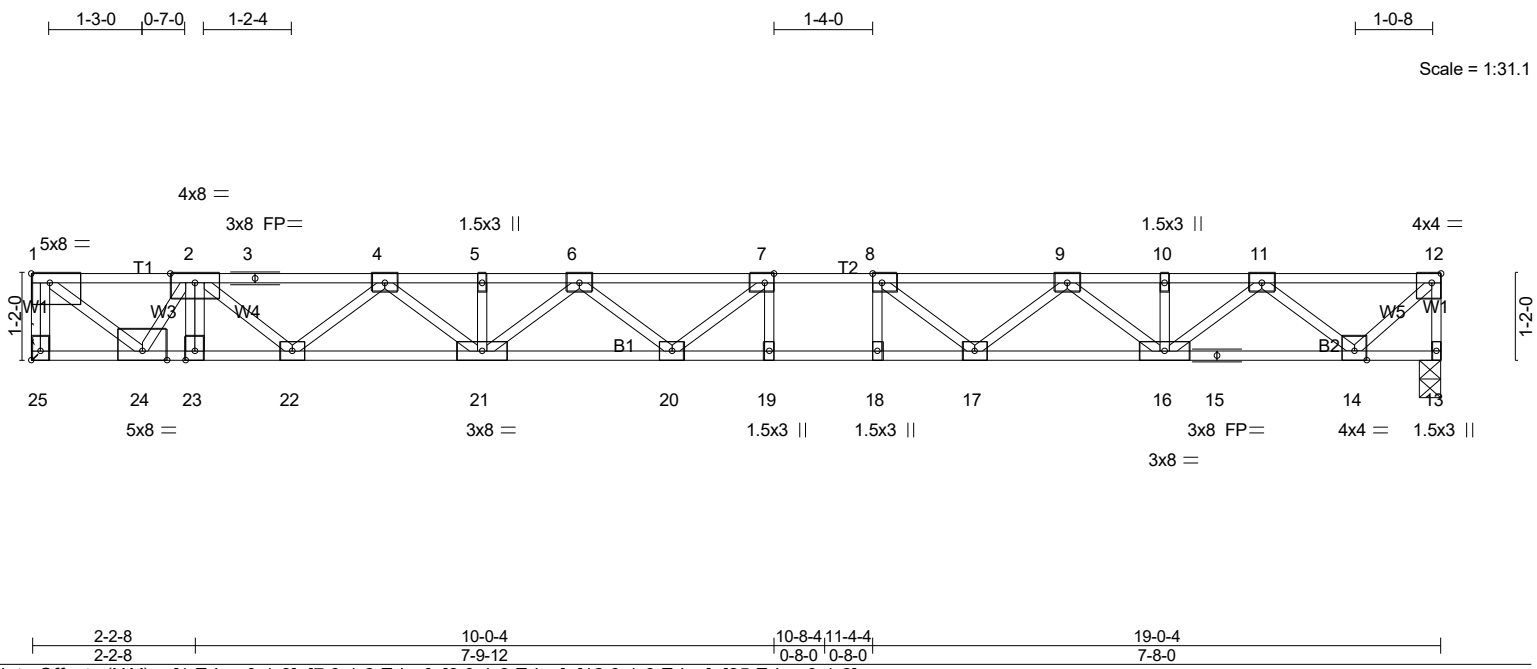


Plate Offsets (X,Y)-- [1:Edge,0-1-8], [7:0-1-8,Edge], [8:0-1-8,Edge], [12:0-1-8,Edge], [25:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.69	Vert(LL)	-0.33	19-20	>680	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.75	Vert(CT)	-0.46	19-20	>494	360		
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: 100 lb	FT = 20%F, 11%E

LUMBER-
TOP CHORD 2x4 SP No.1(flat)
BOT CHORD 2x4 SP SS(flat) *Except*
B2: 2x4 SP No.1(flat)
WEBS 2x4 SP No.3(flat) *Except*
W2: 2x4 SP No.2(flat)

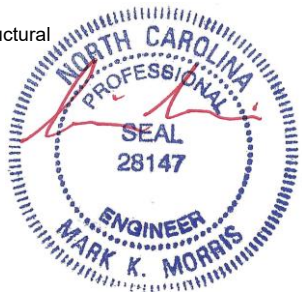
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-9-15 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 25=1401/Mechanical, 13=780/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-25=-1391/0, 12-13=-775/0, 1-2=-1762/0, 2-3=-3134/0, 3-4=-3134/0, 4-5=-3777/0, 5-6=-3777/0, 6-7=-3933/0, 7-8=-3771/0, 8-9=-3259/0, 9-10=-2268/0, 10-11=-2268/0, 11-12=-751/0
BOT CHORD 23-24=0/2682, 22-23=0/2682, 21-22=0/3542, 20-21=0/3978, 19-20=0/3771, 18-19=0/3771, 17-18=0/3771, 16-17=0/2849, 15-16=0/1591, 14-15=0/1591
WEBS 7-19=-269/54, 8-18=-39/284, 8-17=-761/0, 9-17=0/573, 9-16=-741/0, 11-16=0/865, 11-14=-1092/0, 12-14=0/1033, 1-24=0/2211, 2-24=-1614/0, 7-20=-203/418, 6-21=-257/0, 4-21=0/300, 4-22=-531/0, 2-22=0/579

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
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



4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F209	FLOOR	9	1	# 47607
					Job Reference (optional)

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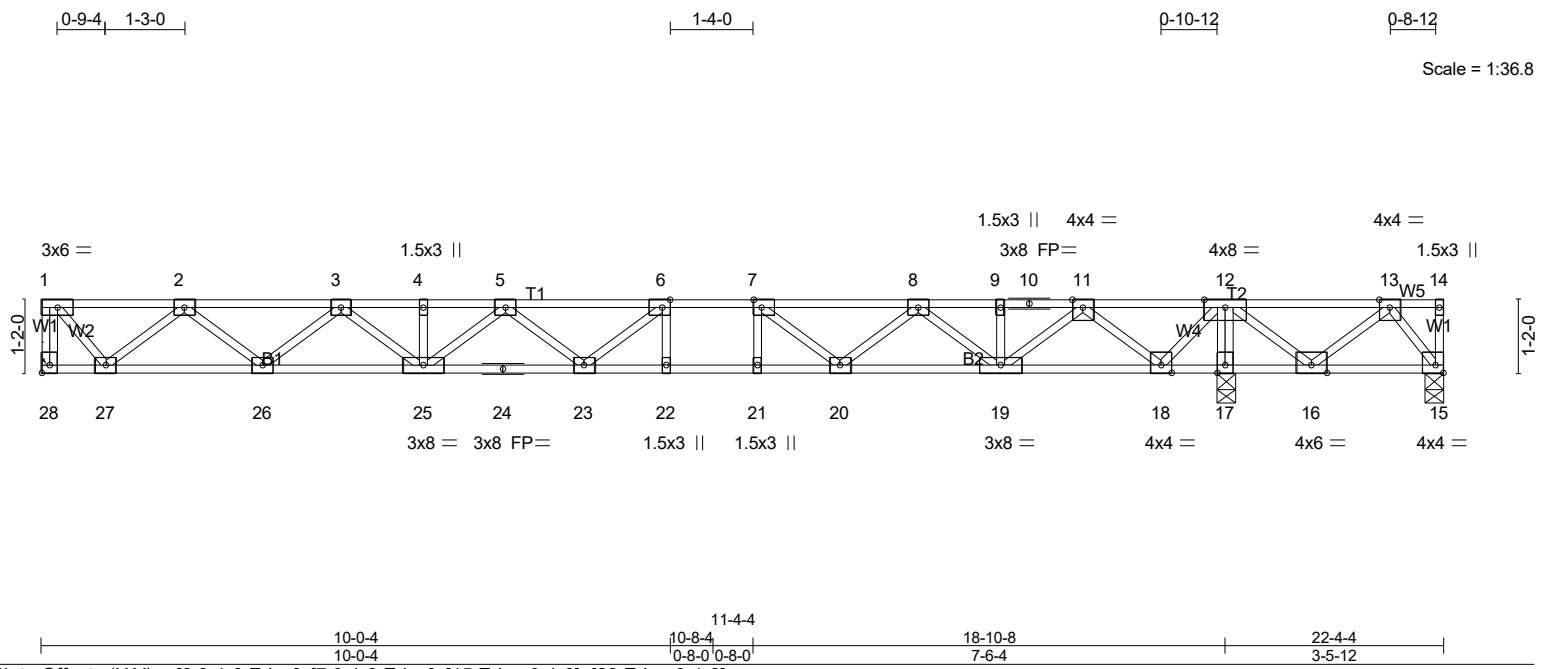


Plate Offsets (X,Y)-- [6:0-1-8,Edge], [7:0-1-8,Edge], [15:Edge,0-1-8], [28:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.19	22-23	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.78	Vert(CT)	-0.26	22-23	>872	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.52	Horz(CT)	0.03	17	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 116 lb	FT = 20%F, 11%E

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

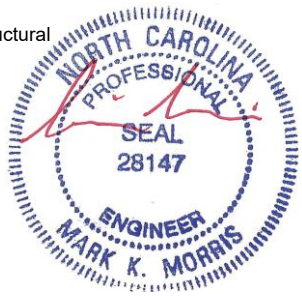
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 28=569/Mechanical, 15=-524/0-3-8 (min. 0-1-8), 17=1580/0-3-8 (min. 0-1-8)
Max Uplift15=-612(LC 3)
Max Grav 28=570(LC 3), 17=1580(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-28=-567/0, 1-2=-441/0, 2-3=-1430/0, 3-4=-1993/0, 4-5=-1993/0, 5-6=-2069/0, 6-7=-1847/0, 7-8=-1276/0, 11-12=0/1382, 12-13=0/1236
BOT CHORD 26-27=0/1041, 25-26=0/1795, 24-25=0/2159, 23-24=0/2159, 22-23=0/1847, 21-22=0/1847, 20-21=0/1847, 19-20=0/820, 18-19=-537/0, 17-18=-2079/0, 16-17=-2067/0, 15-16=-475/0
WEBS 7-21=0/261, 12-17=-1541/0, 6-23=-46/388, 3-25=0/253, 3-26=-475/0, 2-26=0/506, 2-27=-782/0, 1-27=0/676, 7-20=-731/0, 8-20=0/594, 8-19=-779/0, 11-19=0/946, 11-18=-1116/0, 12-18=0/994, 12-16=0/1089, 13-16=-1034/0, 13-15=0/784

NOTES- (7-8)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Refer to girder(s) for truss to truss connections.
4) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 612 lb uplift at joint 15.
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



4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F210	Floor Supported Gable	1	1	# 47607
					Job Reference (optional)

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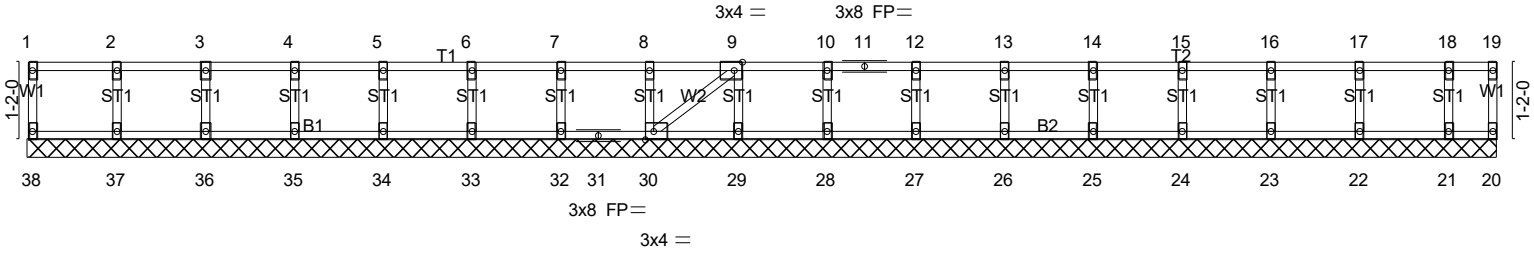

22-0-12
22-0-12

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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F211	Floor	1	1	# 47607
					Job Reference (optional)

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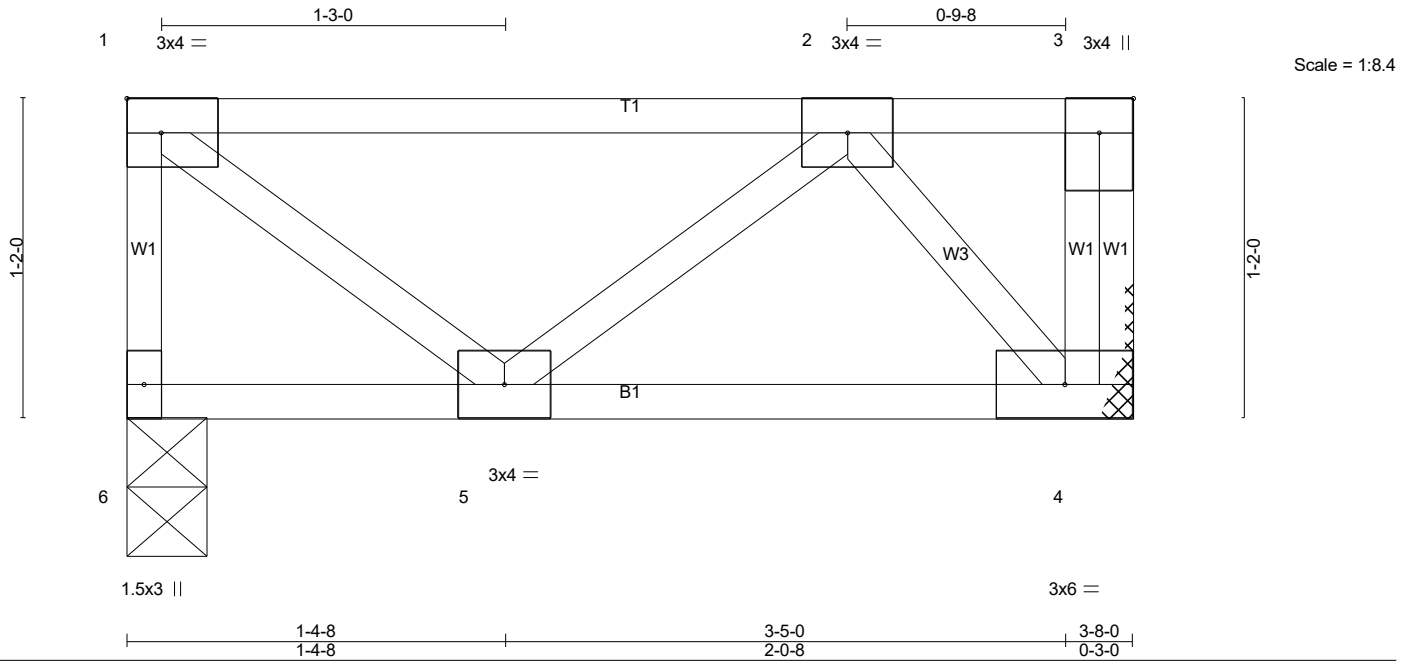

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.26	Vert(LL)	-0.00	5	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.05	Vert(CT)	-0.00	4-5	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.06	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F212	Floor Girder	1	1	# 47607
					Job Reference (optional)

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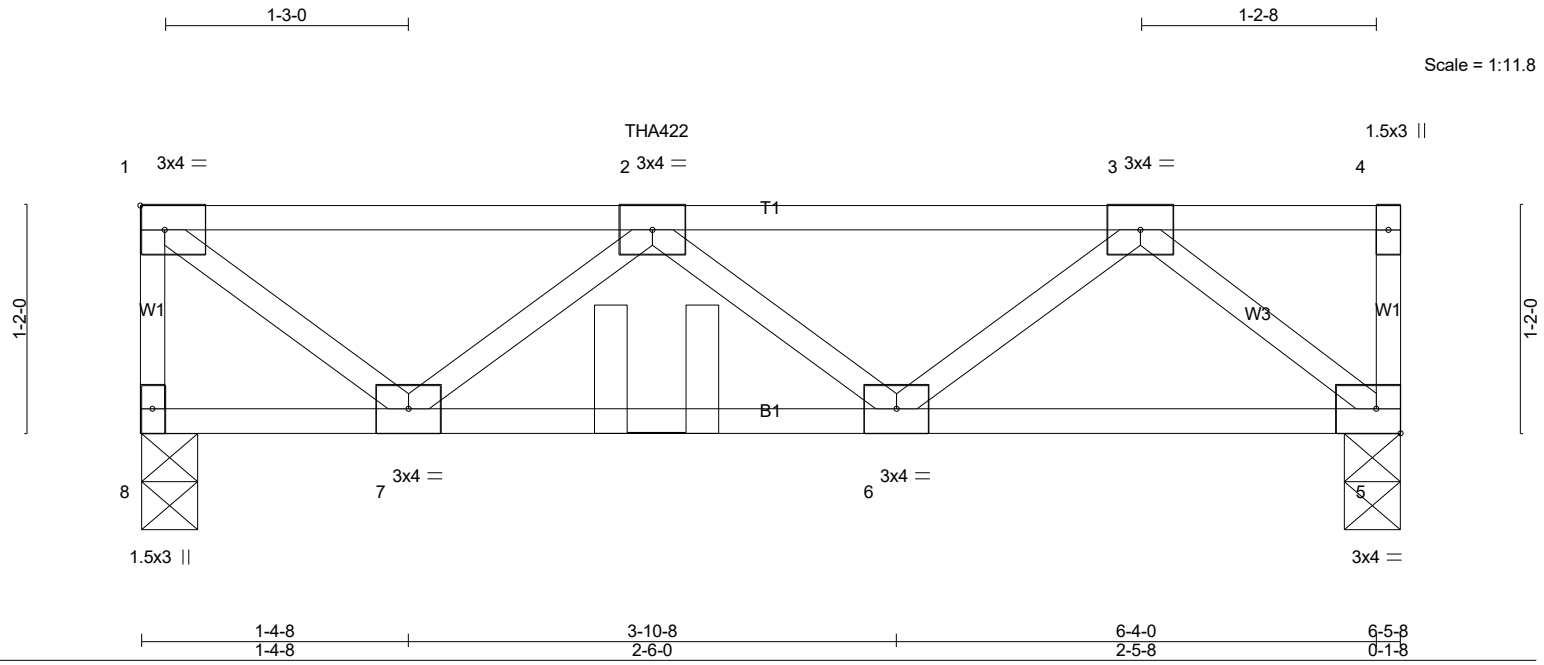

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.31	Vert(LL)	-0.01	6	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.19	Vert(CT)	-0.01	6-7	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.27	Horz(CT)	0.00	5	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		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)

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F213	FLOOR GIRDER	1	1	Job Reference (optional) **# 47607**

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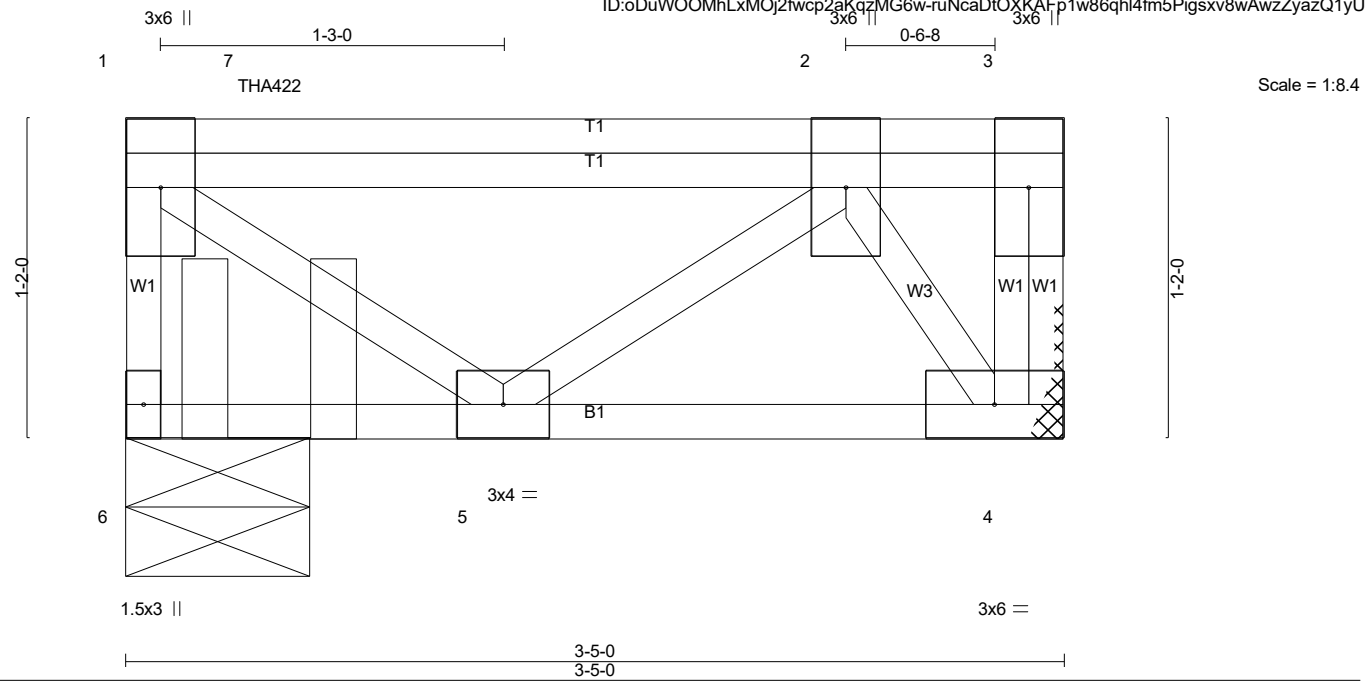

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL	40.0	Plate Grip DOL	1.00	TC	0.53	Vert(LL)	-0.00	5	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.09	Vert(CT)	-0.00	5	>999	360		
BCLL	0.0	Rep Stress Incr	NO	WB	0.14	Horz(CT)	0.00	4	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-P							Weight: 25 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 3-5-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 6=835/0-8-0 (min. 0-1-8), 4=286/Mechanical

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-6=-829/0
BOT CHORD 4-5=0/352
WEBS 2-4=-626/0

NOTES- (6)
1) Refer to girder(s) for truss to truss connections.
2) Recommend 2x6 strongbacks, on edge, spaced at 10-0-0 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
3) Use Simpson Strong-Tie THA422 (6-16d Girder, 6-10d Truss) or equivalent at 0-6-4 from the left end to connect truss(es) F216 (1 ply 2x4 SP) to back face of top chord, skewed 0.0 deg.to the left, sloping 0.0 deg. down.
4) Fill all nail holes where hanger is in contact with lumber.
5) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).

LOAD CASE(S) Standard
1) Dead + Floor Live (balanced): Lumber Increase=1.00, Plate Increase=1.00
Uniform Loads (plf)
Vert: 4-6=-10, 1-3=-100
Concentrated Loads (lb)
Vert: 7=-766(B)

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F214	Floor Supported Gable	1	1	# 47607
					Job Reference (optional)

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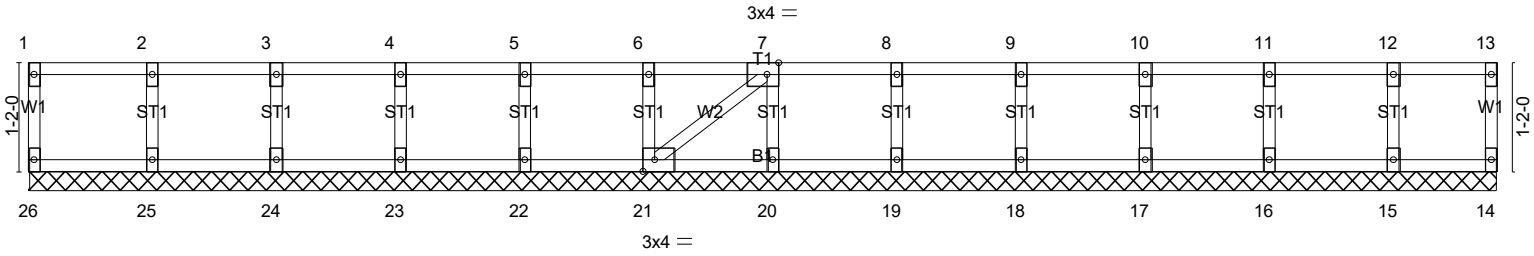

15-9-6
15-9-6

Plate Offsets (X,Y)-- [7:0-1-8,Edge], [21:0-1-8,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	19	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 67 lb	FT = 20%F, 11%E

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

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

REACTIONS. All bearings 15-9-6.
(lb) - Max Grav All reactions 250 lb or less at joint(s) 26, 14, 25, 24, 23, 22, 21, 20, 19, 18, 17, 16, 15

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

NOTES- (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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F215	Floor	2	1	Job Reference (optional) **# 47607**

Run: 8.430 s Feb 12 2021 Print: 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Apr 16 20:54:55 2024 Page 1
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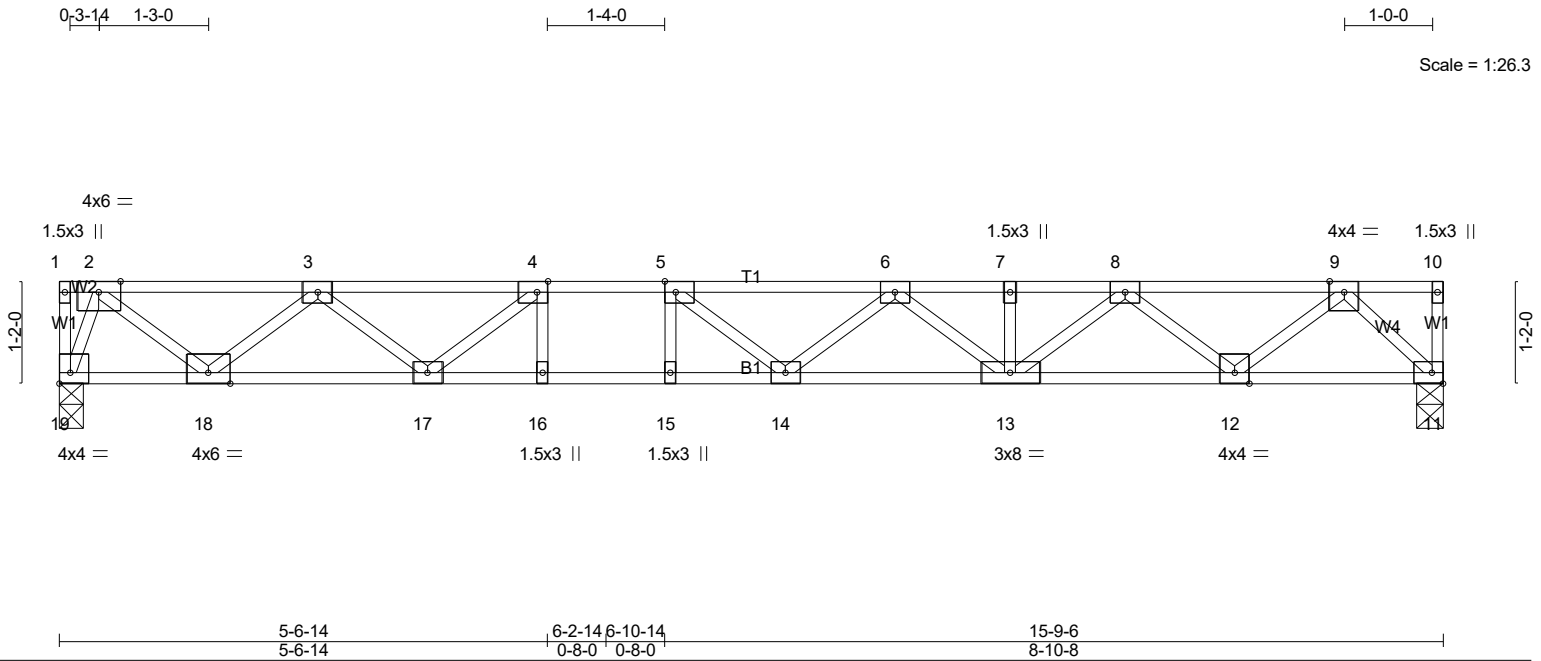

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [19:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.22	14-15	>866	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	1.00	Vert(CT)	-0.30	14-15	>630	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.51	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 80 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 2-2-0 oc bracing.

REACTIONS. (lb/size) 19=861/0-3-6 (min. 0-1-8), 11=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 2-3=-1182/0, 3-4=-2478/0, 4-5=-3084/0, 5-6=-3176/0, 6-7=-2756/0, 7-8=-2756/0, 8-9=-1595/0
BOT CHORD 18-19=0/353, 17-18=0/1972, 16-17=0/3084, 15-16=0/3084, 14-15=0/3084, 13-14=0/3144, 12-13=0/2303, 11-12=0/852
WEBS 4-16=-24/290, 5-15=-268/46, 4-17=-829/0, 3-17=0/660, 3-18=-1027/0, 2-18=0/1079, 2-19=-1018/0, 5-14=-229/320, 6-13=-495/0, 8-13=0/579, 8-12=-922/0, 9-12=0/966, 9-11=-1194/0

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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F216	Floor	1	1	# 47607
					Job Reference (optional)

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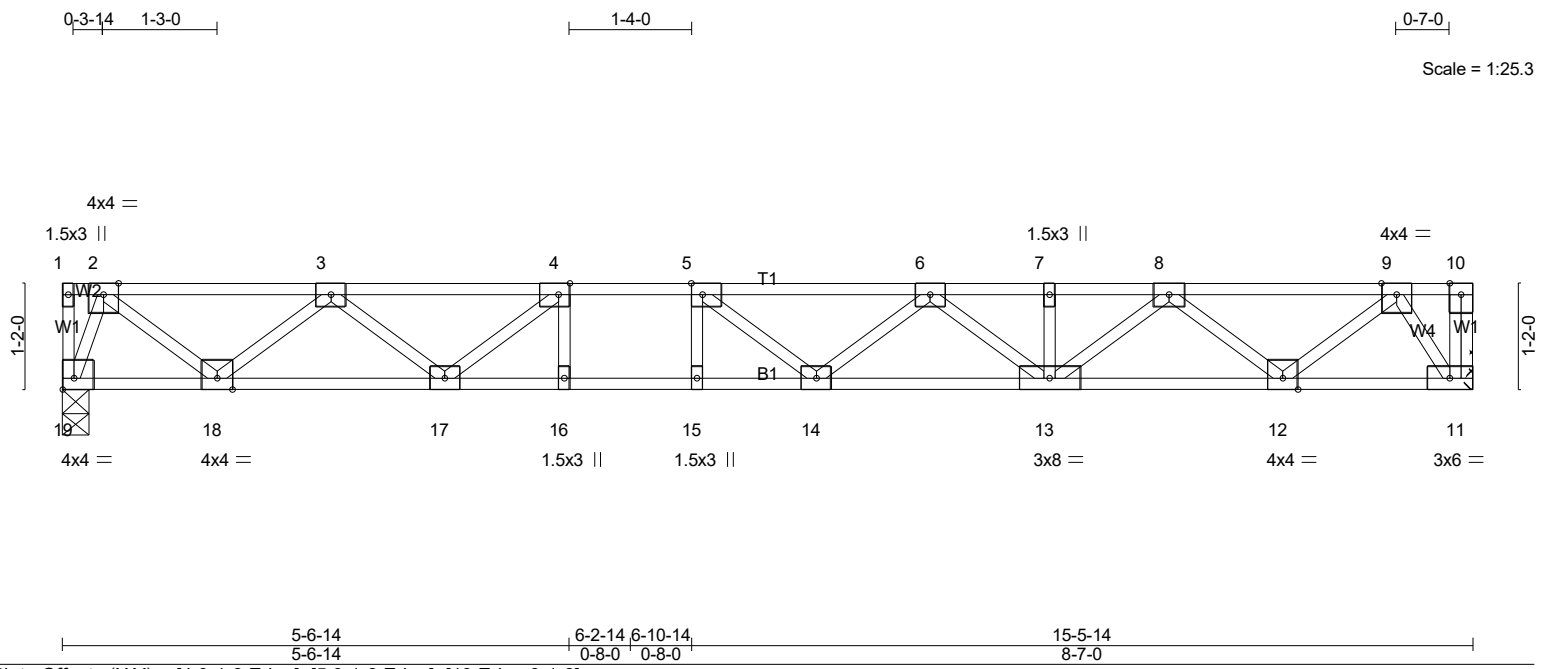

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [19:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.52	Vert(LL)	-0.20	14-15	>929	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.94	Vert(CT)	-0.27	14-15	>676	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.50	Horz(CT)	0.05	11	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 80 lb	FT = 20%F, 11%E

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

BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 2-2-0 oc bracing: 15-16,14-15.

REACTIONS. (lb/size) 11=842/Mechanical, 19=842/0-3-6 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1152/0, 3-4=-2401/0, 4-5=-2969/0, 5-6=-3024/0, 6-7=-2557/0, 7-8=-2557/0, 8-9=-1346/0
BOT CHORD 18-19=0/346, 17-18=0/1920, 16-17=0/2969, 15-16=0/2969, 14-15=0/2969, 13-14=0/2965, 12-13=0/2077, 11-12=0/584
WEBS 4-16=-32/272, 5-15=-250/54, 4-17=-785/0, 3-17=0/626, 3-18=-1000/0, 2-18=0/1050, 2-19=-996/0, 5-14=-249/276, 6-13=-521/0, 8-13=0/613, 8-12=-951/0, 9-12=0/992, 9-11=-1039/0

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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F217	Floor	1	1	# 47607
					Job Reference (optional)

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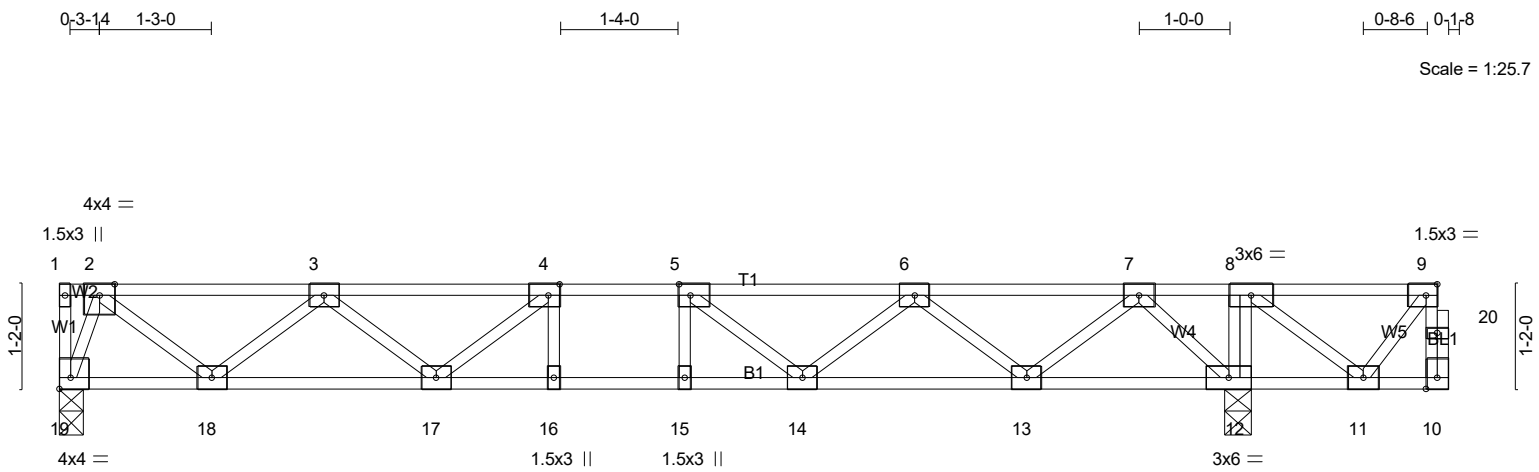

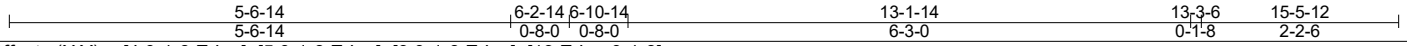

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [9:0-1-8,Edge], [19:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.30	Vert(LL)	-0.10	15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.59	Vert(CT)	-0.13	15	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.41	Horz(CT)	0.03	12	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 81 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 12=975/0-3-8 (min. 0-1-8), 19=701/0-3-6 (min. 0-1-8)
Max Grav 12=975(LC 1), 19=715(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-953/0, 3-4=-1898/0, 4-5=-2220/0, 5-6=-2034/0, 6-7=-1259/0
BOT CHORD 18-19=0/294, 17-18=0/1584, 16-17=0/2220, 15-16=0/2220, 14-15=0/2220, 13-14=0/1814, 12-13=-28/678
WEBS 8-12=-290/0, 4-17=-503/0, 3-17=0/422, 3-18=-820/0, 2-18=0/859, 2-19=-847/0, 5-14=-427/2, 6-14=0/368, 6-13=-747/0, 7-13=0/780, 7-12=-992/0

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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F218	Floor	1	1	# 47607
					Job Reference (optional)

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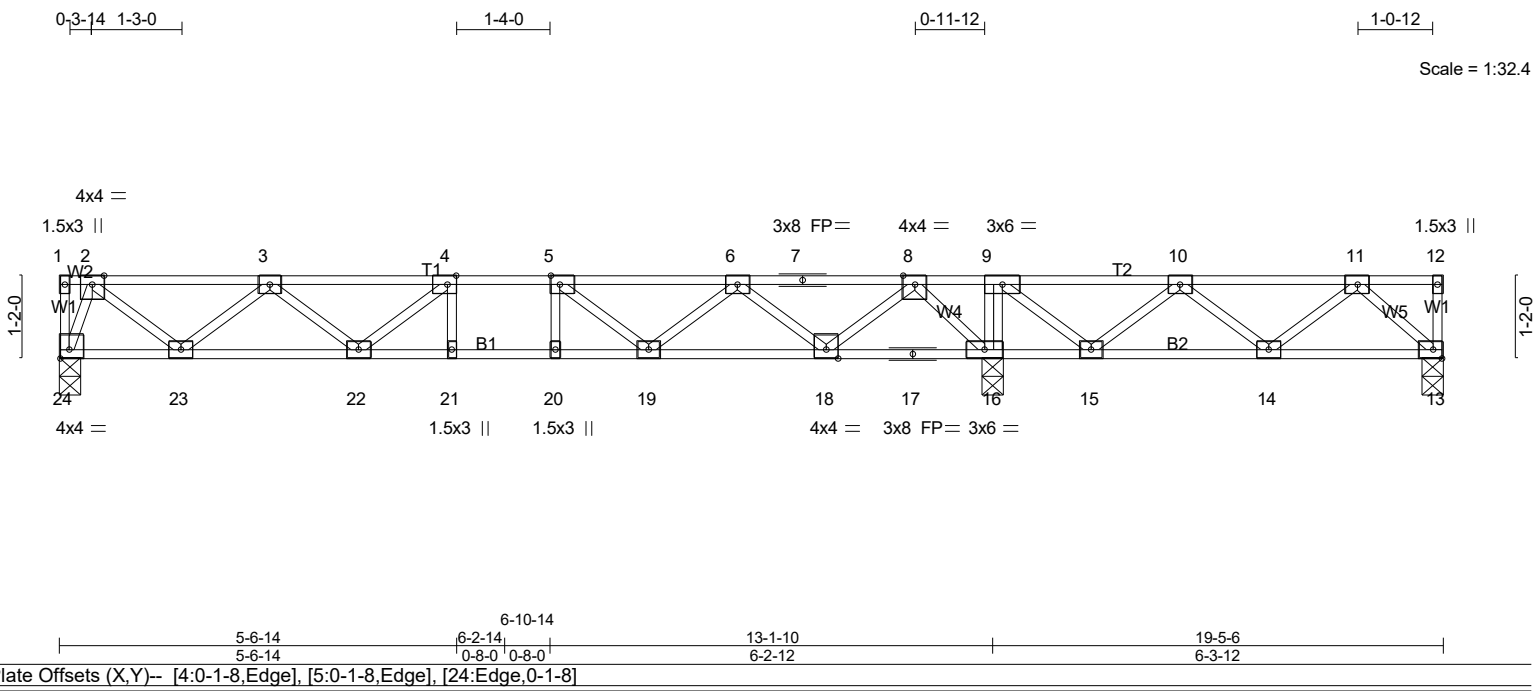


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.07	21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.10	21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	16	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 99 lb	FT = 20%F, 11%E

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

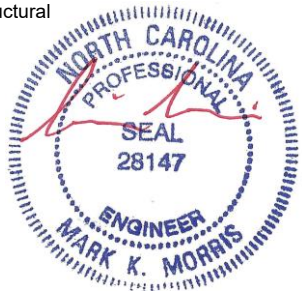
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 13=108/0-3-8 (min. 0-1-8), 16=1412/0-3-8 (min. 0-1-8), 24=606/0-3-6 (min. 0-1-8)
Max Uplift13=-126(LC 3)
Max Grav 13=264(LC 4), 16=1412(LC 1), 24=614(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-795/0, 3-4=-1496/0, 4-5=-1623/0, 5-6=-1243/0, 8-9=0/1359, 9-10=0/933, 10-11=-280/367
BOT CHORD 23-24=0/253, 22-23=0/1315, 21-22=0/1623, 20-21=0/1623, 19-20=0/1623, 18-19=0/889, 17-18=-574/0, 16-17=-574/0, 15-16=-1359/0, 14-15=-619/278
WEBS 9-16=-634/0, 4-22=-255/24, 3-23=-677/0, 2-23=0/706, 2-24=-729/0, 5-19=-524/0, 6-19=0/472, 6-18=-883/0, 8-18=0/921, 8-16=-1131/0, 9-15=0/729, 10-15=-670/0, 10-14=0/327, 11-14=-282/41, 11-13=-338/205

NOTES- (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 13.
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



4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F219	Floor	1	1	# 47607
					Job Reference (optional)

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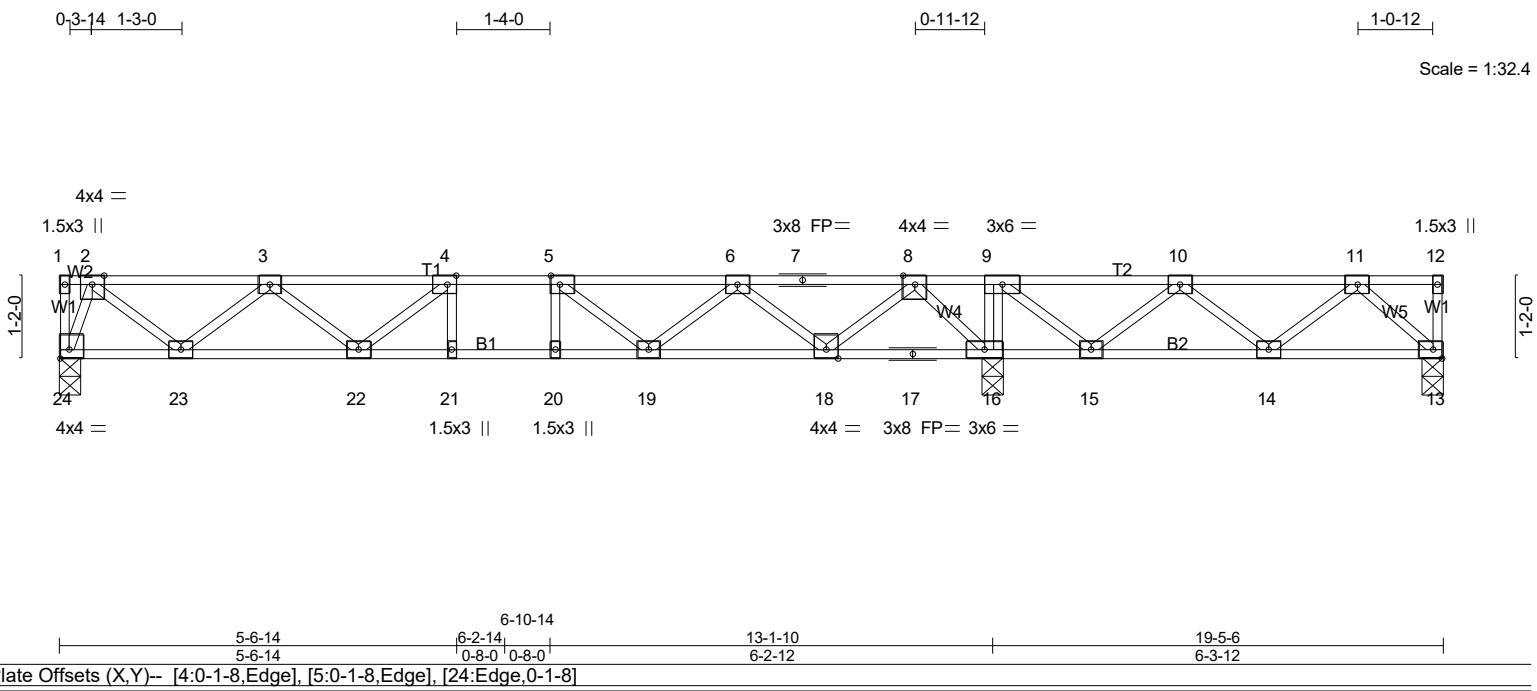


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [24:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.42	Vert(LL)	-0.07	21	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.53	Vert(CT)	-0.10	21	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.44	Horz(CT)	0.02	16	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 99 lb	FT = 20%F, 11%E

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

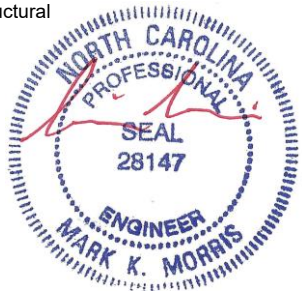
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 13=108/0-3-8 (min. 0-1-8), 16=1412/0-3-8 (min. 0-1-8), 24=606/0-3-6 (min. 0-1-8)
Max Uplift13=-126(LC 3)
Max Grav 13=264(LC 4), 16=1412(LC 1), 24=614(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-795/0, 3-4=-1496/0, 4-5=-1623/0, 5-6=-1243/0, 8-9=0/1359, 9-10=0/933, 10-11=-280/367
BOT CHORD 23-24=0/253, 22-23=0/1315, 21-22=0/1623, 20-21=0/1623, 19-20=0/1623, 18-19=0/889, 17-18=-574/0, 16-17=-574/0, 15-16=-1359/0, 14-15=-619/278
WEBS 9-16=-634/0, 4-22=-255/24, 3-23=-677/0, 2-23=0/706, 2-24=-729/0, 5-19=-524/0, 6-19=0/472, 6-18=-883/0, 8-18=0/921, 8-16=-1131/0, 9-15=0/729, 10-15=-670/0, 10-14=0/327, 11-14=-282/41, 11-13=-338/205

NOTES- (6-7)
1) Unbalanced floor live loads have been considered for this design.
2) All plates are 3x4 MT20 unless otherwise indicated.
3) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 126 lb uplift at joint 13.
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



4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F220	Floor	3	1	# 47607
					Job Reference (optional)

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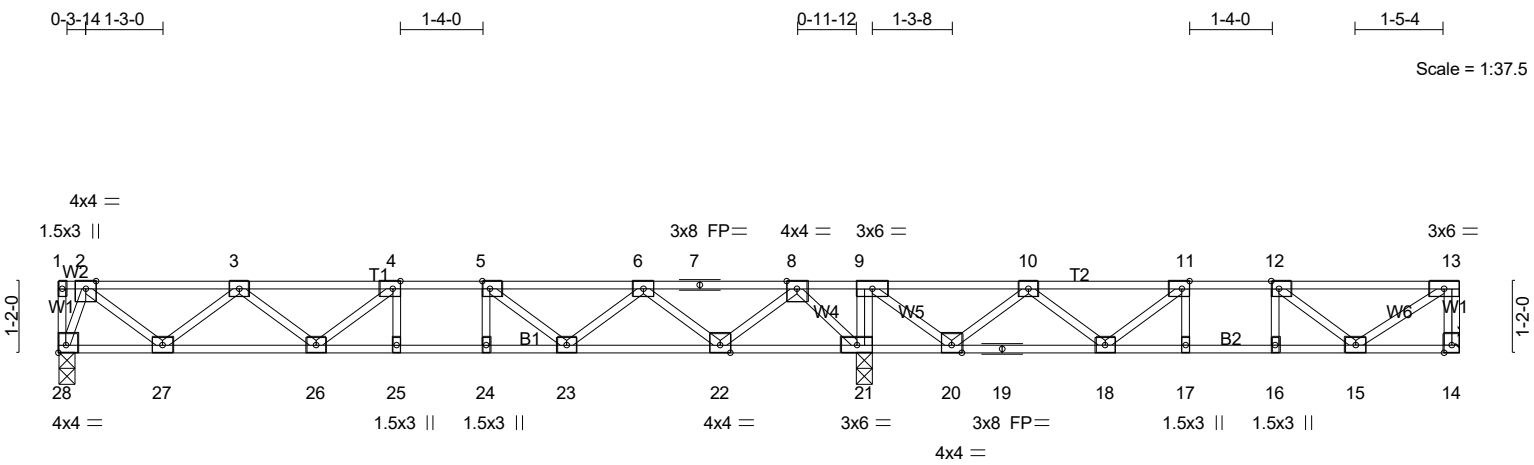


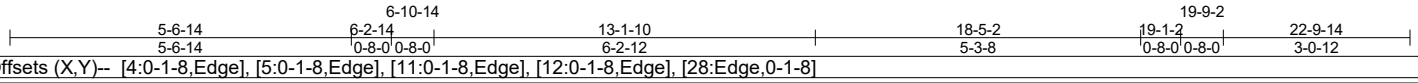


Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [11:0-1-8,Edge], [12:0-1-8,Edge], [28:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.44	Vert(LL)	-0.07	25	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.55	Vert(CT)	-0.10	25	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.02	21	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 116 lb	FT = 20%F, 11%E

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

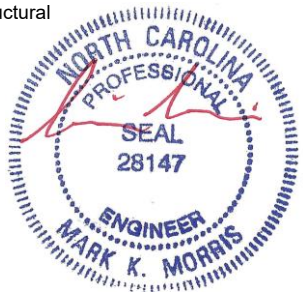
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

REACTIONS. (lb/size) 14=368/Mechanical, 21=1519/0-3-8 (min. 0-1-8), 28=603/0-3-6 (min. 0-1-8)
Max Grav 14=442(LC 4), 21=1519(LC 1), 28=634(LC 10)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 13-14=-433/0, 2-3=-827/0, 3-4=-1576/0, 4-5=-1741/0, 5-6=-1400/0, 6-7=-428/272, 7-8=-428/272, 8-9=0/1481, 9-10=0/777, 10-11=-679/319, 11-12=-858/93, 12-13=-473/10
BOT CHORD 27-28=0/261, 26-27=0/1369, 25-26=0/1741, 24-25=0/1741, 23-24=0/1741, 22-23=-63/1073, 21-22=-678/0, 20-21=-1481/0, 19-20=-513/473, 18-19=-513/473, 17-18=-93/858, 16-17=-93/858, 15-16=-93/858
WEBS 9-21=-741/0, 3-26=0/270, 3-27=-705/0, 2-27=0/736, 2-28=-752/0, 5-23=-568/0, 6-23=0/490, 6-22=-897/0, 8-22=0/936, 8-21=-1105/0, 11-18=-465/0, 10-18=0/395, 10-20=-823/0, 9-20=0/916, 12-15=-491/107, 13-15=-12/568

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



4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F222	Floor	13	1	# 47607
					Job Reference (optional)

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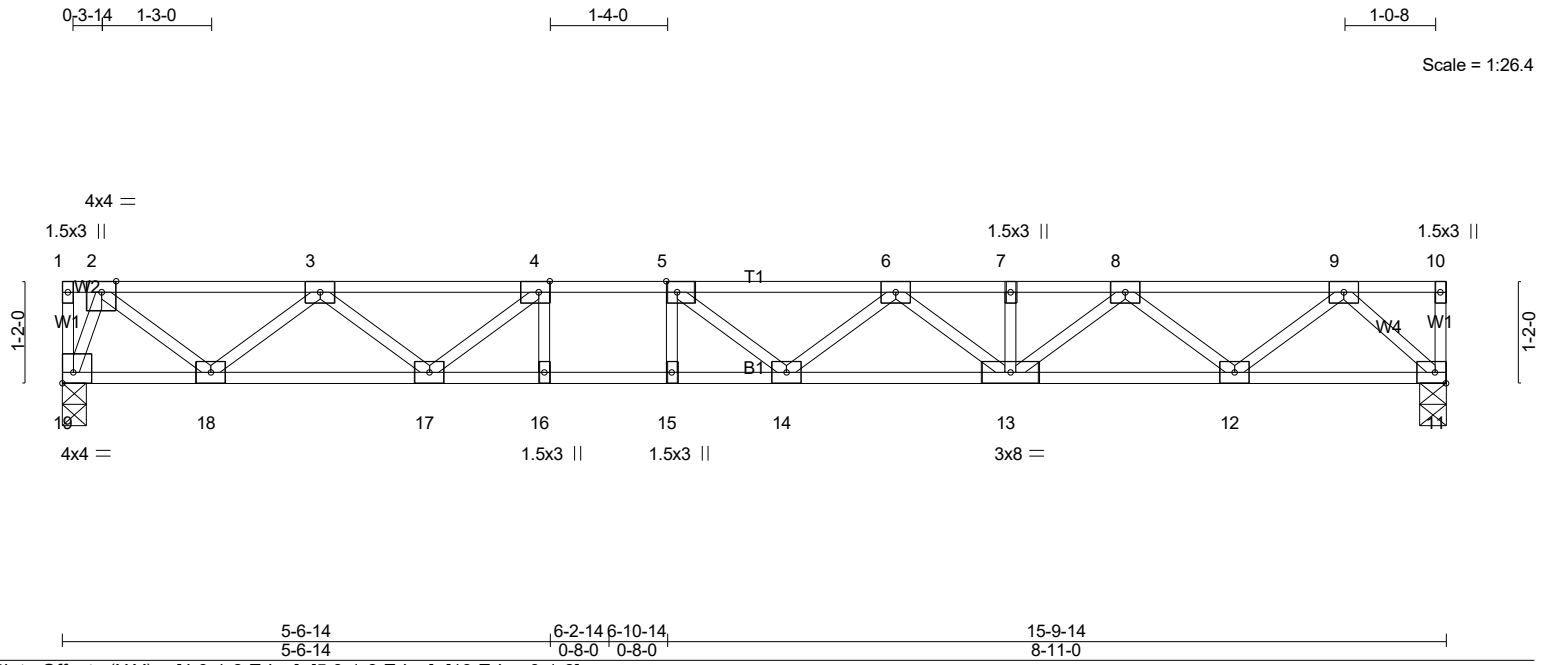

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [19:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.33	Vert(LL)	-0.15	14-15	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.67	Vert(CT)	-0.20	14-15	>938	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.34	Horz(CT)	0.03	11	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 80 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 19=576/0-3-6 (min. 0-1-8), 11=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 2-3=-791/0, 3-4=-1658/0, 4-5=-2065/0, 5-6=-2129/0, 6-7=-1853/0, 7-8=-1853/0, 8-9=-1083/0
BOT CHORD 17-18=0/1318, 16-17=0/2065, 15-16=0/2065, 14-15=0/2065, 13-14=0/2110, 12-13=0/1553, 11-12=0/589
WEBS 4-17=-556/0, 3-17=0/442, 3-18=-687/0, 2-18=0/722, 2-19=-681/0, 6-13=-328/0, 8-13=0/383, 8-12=-612/0, 9-12=0/642, 9-11=-810/0

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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F223	Floor	2	1	# 47607
					Job Reference (optional)

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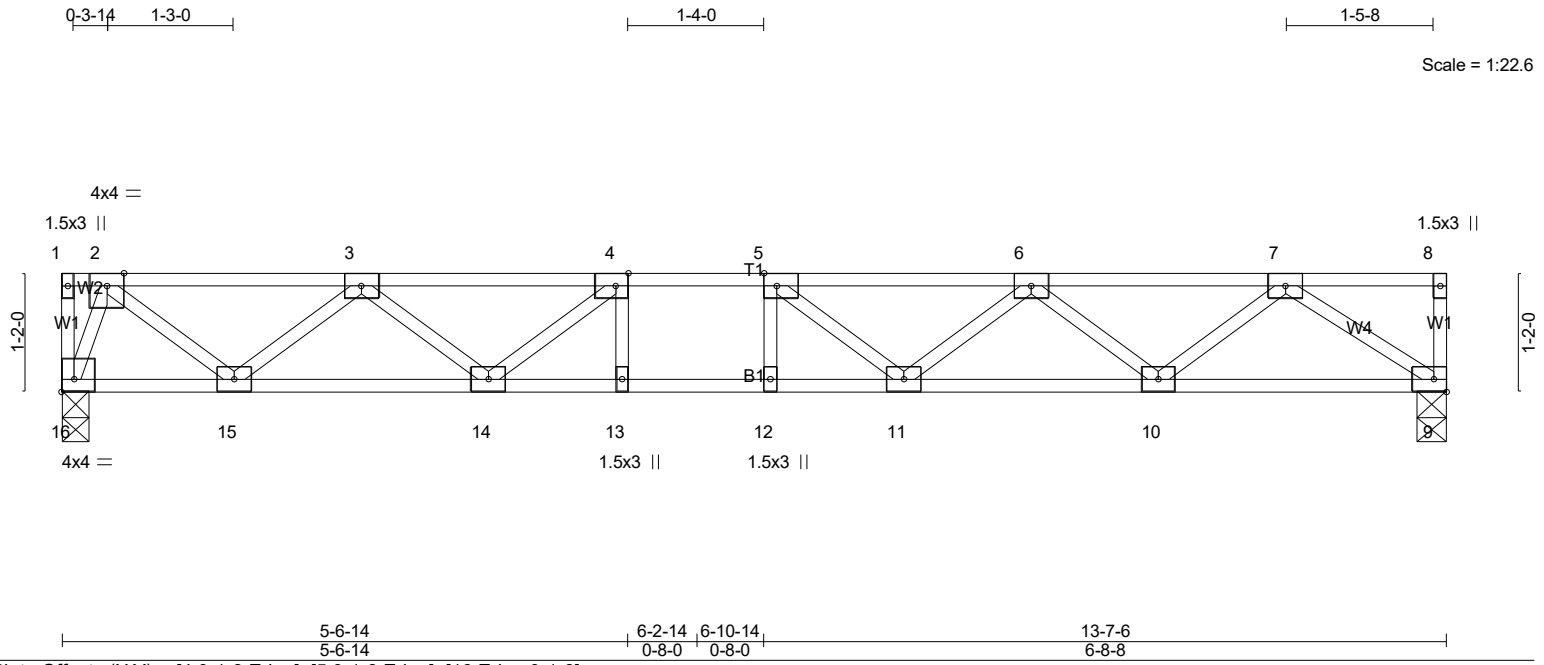

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [16:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.21	Vert(LL)	-0.08	12	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.44	Vert(CT)	-0.10	12	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.29	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 68 lb	FT = 20%F, 11%E

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

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

REACTIONS. (lb/size) 16=495/0-3-6 (min. 0-1-8), 9=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 2-3=-664/0, 3-4=-1337/0, 4-5=-1586/0, 5-6=-1497/0, 6-7=-1027/0
BOT CHORD 14-15=0/1104, 13-14=0/1586, 12-13=0/1586, 11-12=0/1586, 10-11=0/1375, 9-10=0/658
WEBS 4-14=-376/0, 3-14=0/309, 3-15=-572/0, 2-15=0/600, 2-16=-586/0, 6-10=-453/0, 7-10=0/481, 7-9=-797/0

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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F226	FLOOR	8	1	# 47607
					Job Reference (optional)

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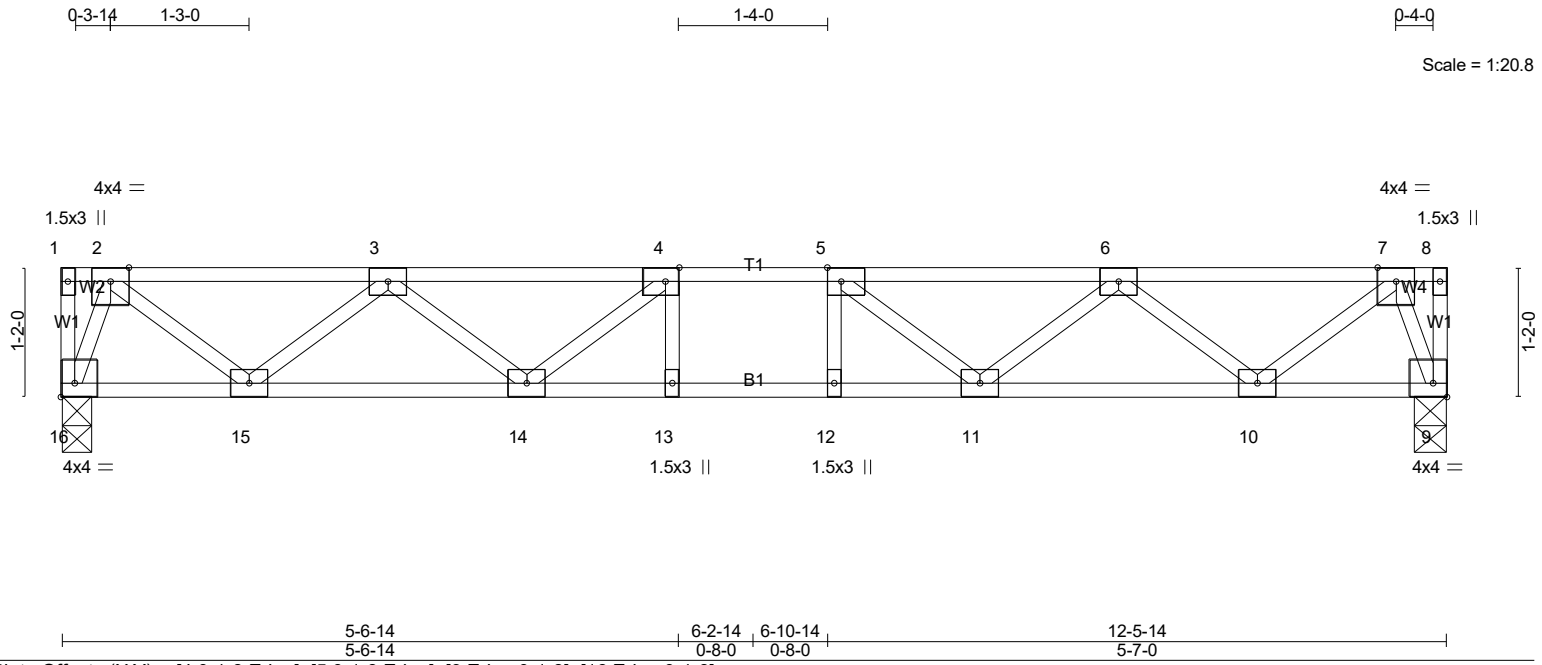

Plate Offsets (X,Y)-- [4:0-1-8,Edge], [5:0-1-8,Edge], [9:Edge,0-1-8], [16:Edge,0-1-8]

LOADING (psf)		SPACING-	1-4-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.18	Vert(LL)	-0.05	13	>999	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.33	Vert(CT)	-0.07	12-13	>999	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.26	Horz(CT)	0.02	9	n/a	n/a		
BCDL	5.0	Code IRC2021/TPI2014		Matrix-SH							Weight: 64 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=453/0-3-6 (min. 0-1-8), 9=453/0-3-8 (min. 0-1-8)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-599/0, 3-4=-1173/0, 4-5=-1343/0, 5-6=-1174/0, 6-7=-603/0
BOT CHORD 14-15=0/994, 13-14=0/1343, 12-13=0/1343, 11-12=0/1343, 10-11=0/997
WEBS 4-14=-287/0, 3-15=-514/0, 2-15=0/537, 2-16=-538/0, 5-11=-286/0, 6-10=-513/0, 7-10=0/536, 7-9=-537/0

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

4/15/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0042 HONEYCUTT HILLS | 170 SHELBY MEADOW LANE ANGIER, NC
24-3026-F02	F227	Floor Supported Gable	1	1	Job Reference (optional) **# 47607**

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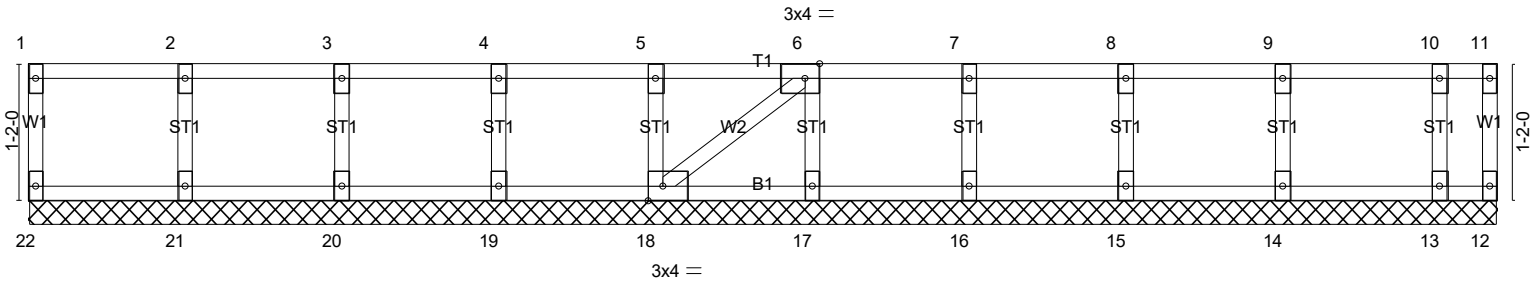

12-5-14
12-5-14

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	17	n/a	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

4/15/2024