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 #: 52244
JOB: 24-7625-R01
JOB NAME: LOT 0.0028 HONEYCUTT HILLS
Wind Code: ASCE7-16
Wind Speed: Vult= 120mph
Exposure Category: B
Mean Roof Height (feet): 23
These truss designs comply with IRC 2015 as well as IRC 2018.
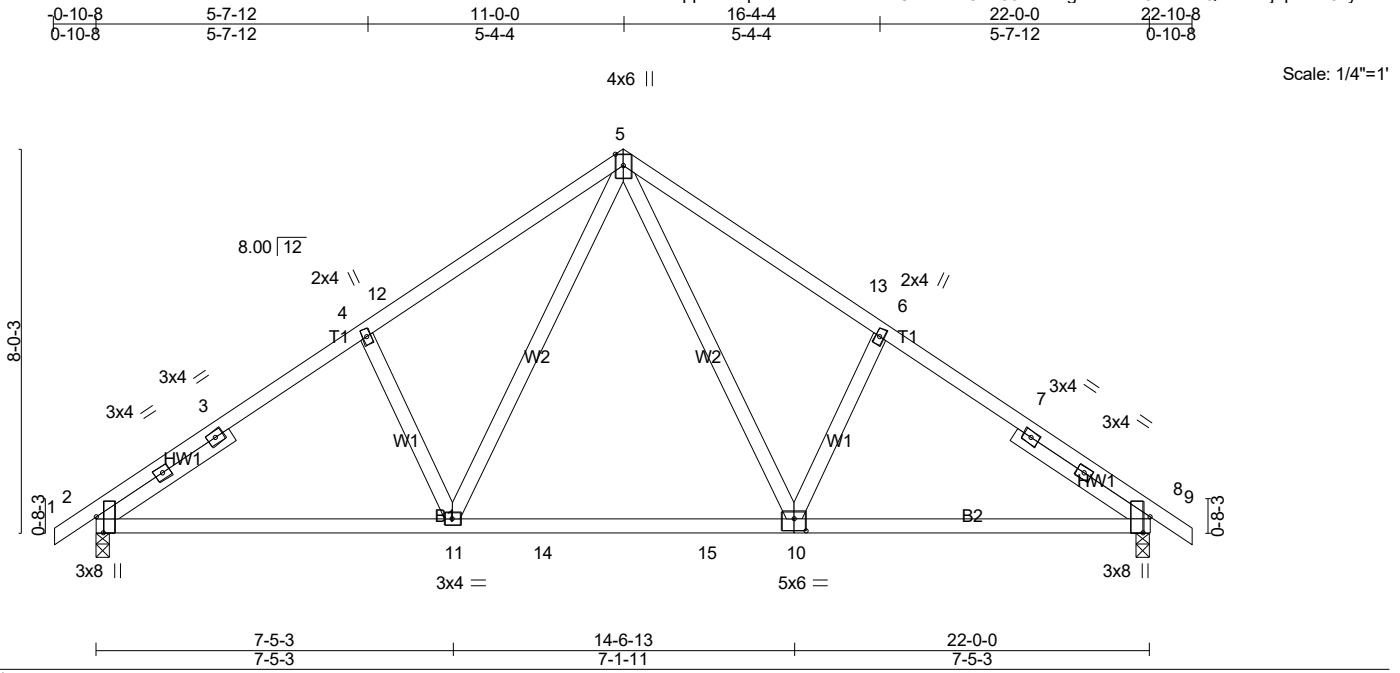*64 Truss Design(s)*

Trusses:

GR01, GR02, GR03, GR04, GR05, GR06, GR07, J01, J02, J03, J04, J05, J06, J07, J08, J09, J11, J12, J13, J14, J15, J16, J17, J19, J20, J21, J22, J23, J24, J25, J26, J27, J28, P01, R01, R02, R03, R04, R05, R06, R07, R08, R09, R10, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, R24, R24A, R25, R26, R27, VT01, VT02

9/11/2024
Mark Morris

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	GR01	Common	4	1	# 52244
					Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:34:58 2024 Page 1
ID:qqlfH?RqemZ1wWmxuKuRlUzBcTx-Oud357NlxPgvPhPuXOv1zb4QiTrXeBjnphMa8xyePth

4x6 ||

Scale: 1/4"=1'

8.00 ⌐12

Plate Offsets (X,Y)-- [2:0-4-0,Edge], [8:0-4-0,Edge], [10:0-3-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.34	Vert(LL)	-0.18	10-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.24	10-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.03	8	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-SH							Weight: 123 lb	FT = 20%
BCDL	10.0											

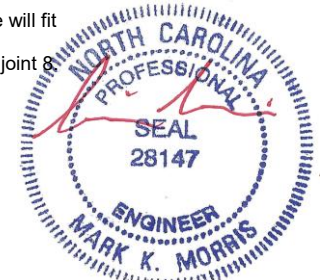| LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-4-1 oc purlins.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
SLIDER	Left 2x4 SP No.3 3-4-2, Right 2x4 SP No.3 3-4-2		

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)   2=933/0-3-8 (min. 0-1-8), 8=932/0-3-8 (min. 0-1-8)
Max Horz 2=-142(LC 10)
Max Uplift2=-51(LC 12), 8=-51(LC 13)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-1214/71, 3-4=-1084/101, 4-12=-1111/122, 5-12=-1031/149, 5-13=-1031/149,
6-13=-1111/122, 6-7=-1084/101, 7-8=-1214/71
BOT CHORD   2-11=-78/1027, 11-14=0/695, 14-15=0/695, 10-15=0/695, 8-10=-14/935
WEBS   5-10=-78/530, 6-10=-280/155, 5-11=-78/530, 4-11=-280/155

NOTES-   (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
(envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 6-2-6, Exterior(2R) 6-2-6 to 15-9-10, Interior(1)
15-9-10 to 18-0-14, Exterior(2E) 18-0-14 to 22-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber
DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 51 lb uplift at joint 2 and 51 lb uplift at joint 8.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	GR02	Hip Girder	1	**2**	**# 52244**
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:04 2024 Page 1
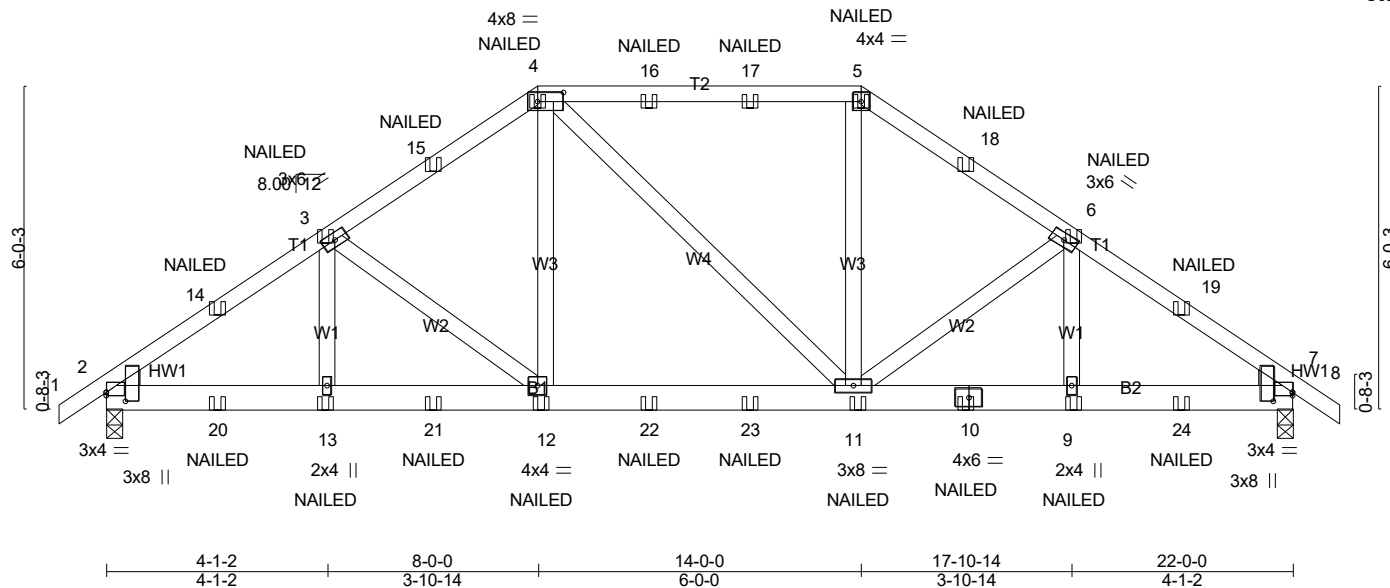ID:qqlfH?RqemZ1wWmxuKuRlUzBcTx-D2?KLASWWFQ37cs2tf0RDsKPOu?P2wpfBdpvMayePtb

Scale = 1:42.7

Plate Offsets (X,Y)-- [2:0-2-0,0-4-4], [2:0-0-0,0-0-12], [4:0-5-12,0-2-0], [7:0-0-0,0-0-12], [7:0-2-0,0-4-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	-0.02	12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.30	Vert(CT)	-0.05	11-12	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.10	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-SH							Weight: 285 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS	2x4 SP No.3		
WEDGE			

Left: 2x4 SP No.3 , Right: 2x4 SP No.3

REACTIONS. (lb/size) 2=1479/0-3-8 (min. 0-1-8), 7=1480/0-3-8 (min. 0-1-8)
Max Horz 2=-106(LC 8)
Max Uplift2=-360(LC 10), 7=-360(LC 11)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-14=-2104/556, 3-14=-1996/555, 3-15=-1676/517, 4-15=-1550/535, 4-16=-1354/476,
16-17=-1354/476, 5-17=-1354/476, 5-18=-1551/534, 6-18=-1677/516, 6-19=-1996/557,
7-19=-2104/558
BOT CHORD   2-20=-466/1598, 13-20=-466/1598, 13-21=-466/1598, 12-21=-466/1598, 12-22=-433/1353,
22-23=-433/1353, 11-23=-433/1353, 10-11=-398/1598, 9-10=-398/1598, 9-24=-398/1598,
7-24=-398/1598
WEBS   3-12=-321/88, 4-12=-2/505, 5-11=0/507, 6-11=-321/91

NOTES-   (12)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x4 - 1 row at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply
   connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 360 lb uplift at joint 2 and 360 lb uplift at
    joint 7.
11) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

LOAD CASE(S) Standard
Continued on page 2

NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	GR02	Hip Girder	1	**2**	
					Job Reference (optional) **# 52244**

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-60, 4-5=-60, 5-8=-60, 2-7=-20
   Concentrated Loads (lb)
      Vert: 4=-83(F) 5=-83(F) 10=-97(F) 3=-48(F) 13=-58(F) 12=-29(F) 11=-29(F) 6=-48(F) 9=-58(F) 14=-63(F) 15=-15(F) 16=-83(F) 17=-83(F) 18=-15(F) 19=-63(F) 20=-43(F)
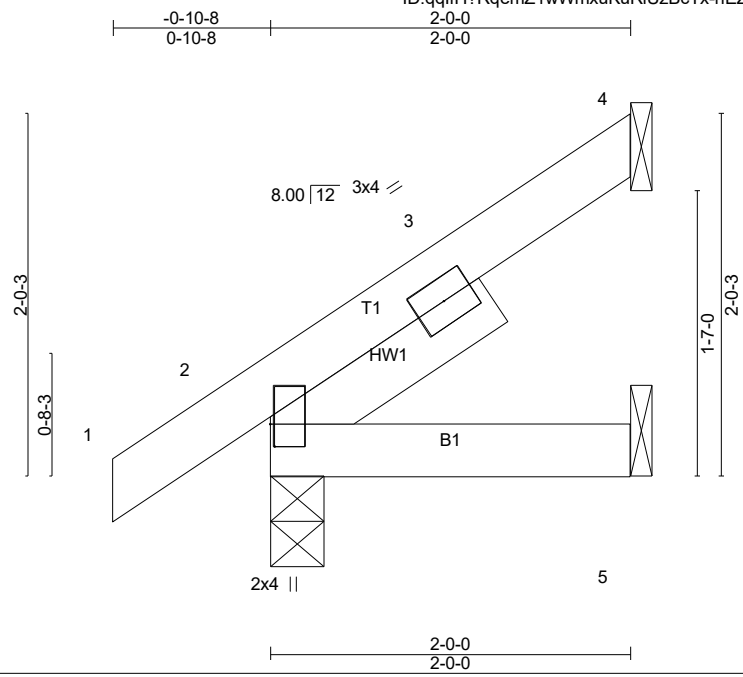   21=-97(F) 22=-29(F) 23=-29(F) 24=-43(F)

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	GR03	Jack-Open	2	1	**# 52244**
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:05 2024 Page 1
ID:qqlfH?RqemZ1wWmxuKuRlUzBcTx-hEZiZWS8HZYvlmRERMXgl3th?IOenOZpQHYSu1yePta

Scale = 1:12.8

Plate Offsets (X,Y)-- [2:0-1-8,0-0-5]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	-0.00	2	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	2-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P							Weight: 11 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER   Left 2x4 SP No.3 1-5-0

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size)   4=48/Mechanical, 2=144/0-3-8 (min. 0-1-8), 5=20/Mechanical
Max Horz 2=53(LC 12)
Max Uplift4=-35(LC 12), 2=-3(LC 12)
Max Grav 4=52(LC 20), 2=147(LC 18), 5=40(LC 5)

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

NOTES-   (8)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 4 and 3 lb uplift at joint 2.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	GR04	Jack-Open Girder	2	1	# *52244*

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:06 2024 Page 1
ID:qqIfH?RqemZ1wWmxuKuRlUzBcTx-AR64msTm2sgmMw0Q?42wIHQoOig7WrUyfxI?QTyePtZ

Scale = 1:14.0

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	-0.02	5-6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.28	Vert(CT)	-0.05	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.06	4	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P							Weight: 21 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.   (lb/size) 7=259/0-3-8 (min. 0-1-8), 4=123/Mechanical, 5=62/Mechanical
Max Horz 7=50(LC 10)
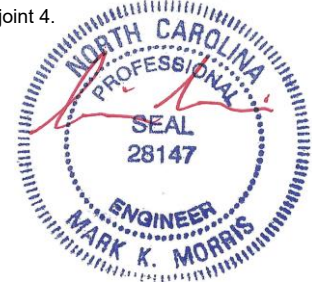Max Uplift7=-18(LC 10), 4=-40(LC 7)
Max Grav 7=259(LC 1), 4=123(LC 26), 5=87(LC 5)

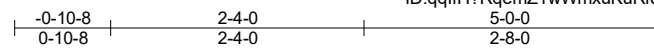**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-   (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 18 lb uplift at joint 7 and 40 lb uplift at joint 4.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) 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 + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
        Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20

9/11/2024

Scale = 1:21.2

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	0.05	6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.06	6	>914	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	0.09	4	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P							Weight: 24 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		

> MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 7=259/0-3-8 (min. 0-1-8), 4=108/Mechanical, 5=78/Mechanical
Max Horz 7=87(LC 12)
Max Uplift4=-27(LC 9), 5=-7(LC 12)
Max Grav 7=259(LC 1), 4=108(LC 1), 5=86(LC 5)

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

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 27 lb uplift at joint 4 and 7 lb uplift at joint 5.
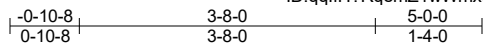
LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	GR06	Jack-Open	2	1	**# 52244**
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:08 2024 Page 1
ID:qqIfH?RqemZ1wWmxuKuRlUzBcTx-6pErBXV1aUwUcE9p6U5ONiV9hVMA_IcF6Fn6VMyePtX
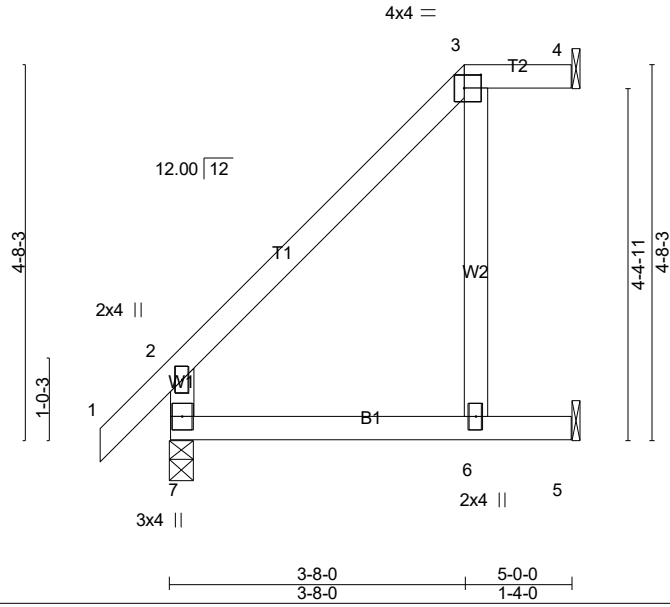
Scale = 1:28.8

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	0.06	6-7	>891	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.06	6-7	>898	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.05	Horz(CT)	-0.09	4	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P							Weight: 26 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size) 7=259/0-3-8 (min. 0-1-8), 4=68/Mechanical, 5=117/Mechanical
Max Horz 7=125(LC 12)
Max Uplift4=-8(LC 9), 5=-58(LC 12)
Max Grav 7=259(LC 1), 4=68(LC 1), 5=120(LC 20)

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

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60
   plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 8 lb uplift at joint 4 and 58 lb uplift at joint 5.
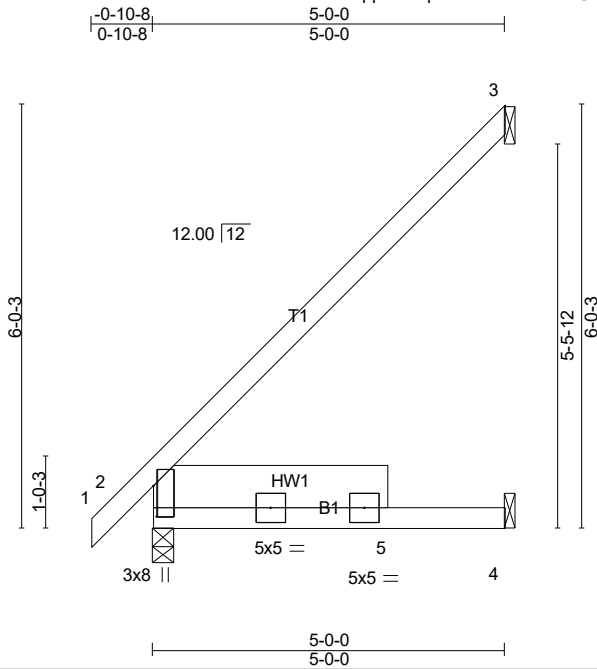
LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	GR07	Jack-Open	4	1	**# 52244**
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:09 2024 Page 1
ID:qqlfH?RqemZ1wWmxuKuRlUzBcTx-a0oDPtVfLn2LDNk?gCcdwv1GNvi5jCYOLvWg1oyePtW

Scale = 1:32.8

Plate Offsets (X,Y)-- [2:0-5-4,0-0-9]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.57	Vert(LL)	-0.01	2-4	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.27	Vert(CT)	-0.02	2-4	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P							Weight: 30 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
SLIDER   Left 2x8 SP No.2 3-4-0

BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 3=143/Mechanical, 2=255/0-3-8 (min. 0-1-8), 4=49/Mechanical
Max Horz 2=162(LC 12)
Max Uplift3=-132(LC 12)
Max Grav 3=162(LC 20), 2=255(LC 1), 4=99(LC 5)

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

NOTES-   (8)
1) Wind: ASCE 7-16; Vult=115mph (3-second gust) Vasd=91mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60
   plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 132 lb uplift at joint 3.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J01	Jack-Open Girder	1	1	# 52244
					Job Reference (optional)	

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:11 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-WOwzpZXvtPl3ThuOnde5?K7gnjPbB6jhoD?m5gyePtU

Plate Offsets (X,Y)-- [3:0-6-0,0-2-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.19	Vert(LL)	-0.01	6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.14	Vert(CT)	-0.02	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.02	4	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP							Weight: 20 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
            T2: 2x6 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

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

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size) 7=236/0-3-8 (min. 0-1-8), 4=122/Mechanical, 5=44/Mechanical
            Max Horz 7=55(LC 10)
            Max Uplift7=-35(LC 10), 4=-38(LC 7)
            Max Grav 7=236(LC 1), 4=124(LC 26), 5=61(LC 5)

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

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
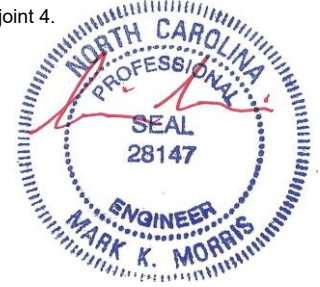   (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 35 lb uplift at joint 7 and 38 lb uplift at joint 4.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
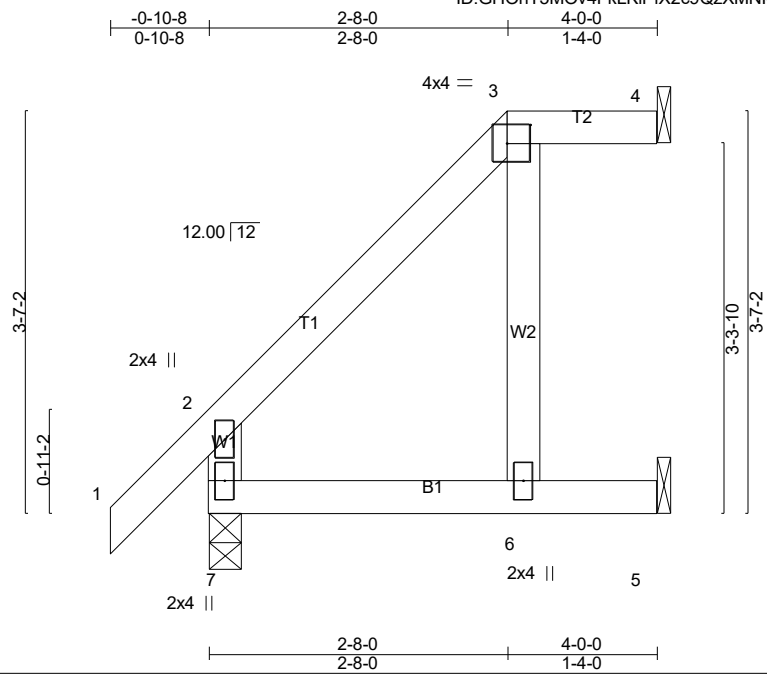12) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
        Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20
   Concentrated Loads (lb)
        Vert: 6=-15(F) 8=-23(F)

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J02	Jack-Open	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:12 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-_bUM1vYXeiRw4rTaLK9KYYfrN6l5wZmr1tlKe7yePtT

Scale = 1:20.6

-0-10-8 | 0-10-8
2-8-0 | 2-8-0
4-0-0 | 1-4-0

4x4 =

12.00 ⎡12

2x4 ||
2x4 ||
2x4 ||

3-7-2
0-11-2
3-3-10
3-7-2

2-8-0 | 2-8-0
4-0-0 | 1-4-0

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.20	Vert(LL)	0.03	6-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.18	Vert(CT)	-0.03	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.04	4	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 21 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size)   7=221/0-3-8 (min. 0-1-8), 4=66/Mechanical, 5=77/Mechanical
Max Horz 7=98(LC 12)
Max Uplift 4=-16(LC 9), 5=-36(LC 12)
Max Grav 7=221(LC 1), 4=66(LC 1), 5=79(LC 20)

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

NOTES-   (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 16 lb uplift at joint 4 and 36 lb uplift at joint 5.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
    sheetrock be applied directly to the bottom chord.
11) Trusses designed with 2018 IRC also comply with 2015 IRC.
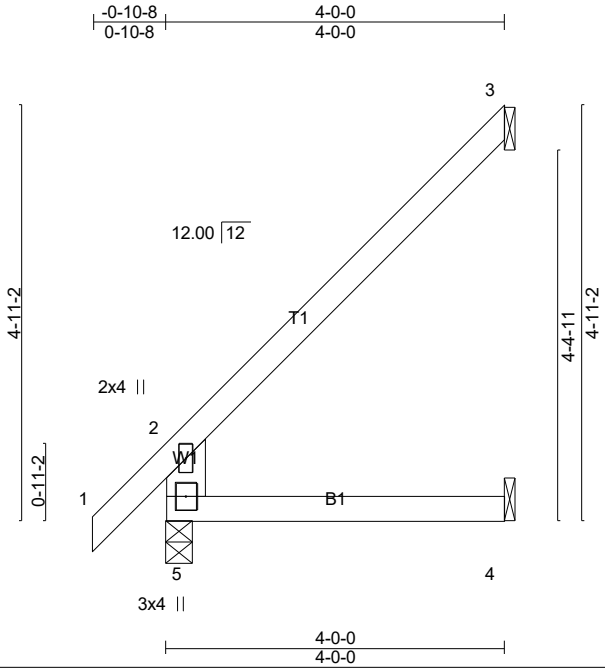
LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J03	Jack-Open	8	1	# 52244
					Job Reference (optional)	

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:13 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-Sn1kEFY9P0Zni?2mv2gZ4lC?AW3Pf0Y_GXUtAZyePtS

-0-10-8
0-10-8
4-0-0
4-0-0

Scale = 1:27.3

3

12.00 ⌐12

T1

4-11-2

4-4-11

4-11-2

2x4 ‖

2

W1

0-11-2

1

B1

5

4

3x4 ‖

4-0-0
4-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.26	Vert(LL)	0.02	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	-0.02	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.03	3	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 18 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x6 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size)   5=224/0-3-8 (min. 0-1-8), 3=96/Mechanical, 4=42/Mechanical
Max Horz 5=134(LC 12)
Max Uplift3=-91(LC 12), 4=-8(LC 12)
Max Grav 5=224(LC 1), 3=111(LC 20), 4=69(LC 5)

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

NOTES-   (9)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 91 lb uplift at joint 3 and 8 lb uplift at joint 4.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
   sheetrock be applied directly to the bottom chord.
9) Trusses designed with 2018 IRC also comply with 2015 IRC.
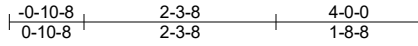
LOAD CASE(S) Standard

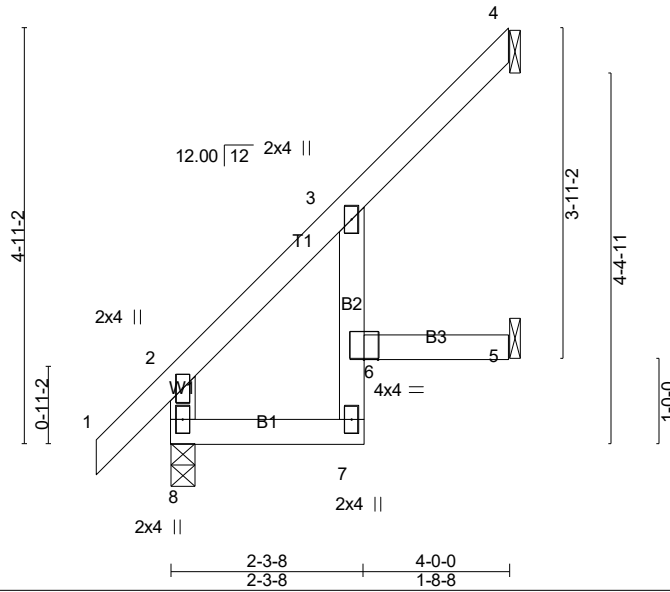*NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS*

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J04	Jack-Open	5	1	**# 52244**
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:14 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-xzb6SbZnAKheK9dzTlCodzlCEwQkOTo7UBEQi?yePtR

Scale = 1:27.3

-0-10-8   2-3-8   4-0-0
0-10-8   2-3-8   1-8-8

12.00 ⌐12   2x4 ||

LOADING (psf)
TCLL (roof)   20.0
Snow (Pf)   20.0
TCDL   10.0
BCLL   0.0 *
BCDL   10.0

SPACING-   2-0-0
Plate Grip DOL   1.15
Lumber DOL   1.15
Rep Stress Incr   YES
Code IRC2021/TPI2014

CSI.
TC   0.18
BC   0.24
WB   0.00
Matrix-AS

DEFL.   in   (loc)   l/defl   L/d
Vert(LL)   0.02   6   >999   240
Vert(CT)   -0.02   6   >999   180
Horz(CT)   -0.01   4   n/a   n/a

PLATES   **GRIP**
MT20   244/190

Weight: 21 lb   FT = 20%

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.   (lb/size)   8=221/0-3-8   (min. 0-1-8), 4=82/Mechanical, 5=62/Mechanical
Max Horz 8=135(LC 12)
Max Uplift4=-64(LC 12), 5=-34(LC 12)
Max Grav 8=221(LC 1), 4=92(LC 20), 5=72(LC 20)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
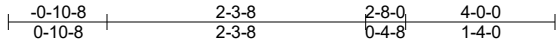
NOTES-   (9)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 64 lb uplift at joint 4 and 34 lb uplift at joint 5.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J05	Jack-Open	1	1	
					Job Reference (optional) **# 52244**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:15 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-PA9UfxaQxdpVxJC90Tj19AHNPKnw7wrHjrz_ESyePtQ

Scale = 1:20.6

Plate Offsets (X,Y)-- [4:0-2-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.15	Vert(LL)	0.02	8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	8	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.01	Horz(CT)	-0.02	5	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 23 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
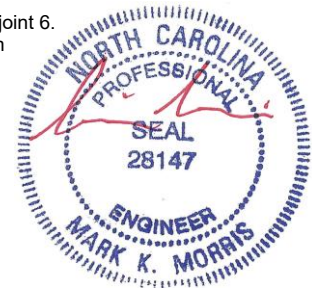BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 10=221/0-3-8 (min. 0-1-8), 5=66/Mechanical, 6=78/Mechanical
Max Horz 10=98(LC 12)
Max Uplift5=-21(LC 9), 6=-27(LC 12)
Max Grav 10=221(LC 1), 5=66(LC 1), 6=78(LC 2)

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

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 21 lb uplift at joint 5 and 27 lb uplift at joint 6.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J06	Jack-Open Girder	1	1	**# 52244**
					Job Reference (optional)	

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:17 2024 Page 1
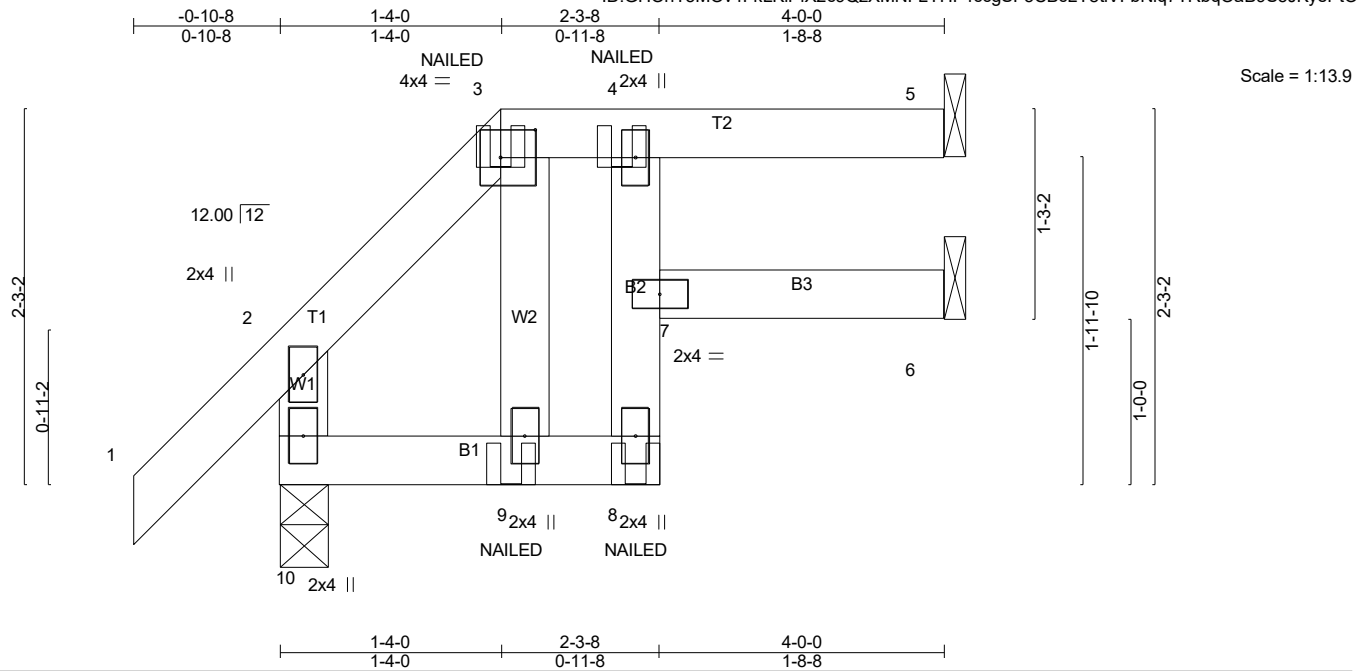ID:GHOhT5MOv4FkLKIPfX2c9QzXMNI-LYHF4ccgSF3CBcLY8tIVFbNiq7TRbqOaB9S5JKyePtO

Scale = 1:13.9

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.22	Vert(LL)	-0.01	8	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.17	Vert(CT)	-0.02	8	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.01	Horz(CT)	0.02	5	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MSH							Weight: 21 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 10=238/0-3-8 (min. 0-1-8), 5=102/Mechanical, 6=55/Mechanical
Max Horz 10=57(LC 10)
Max Uplift10=-44(LC 10), 5=-37(LC 7), 6=-9(LC 7)
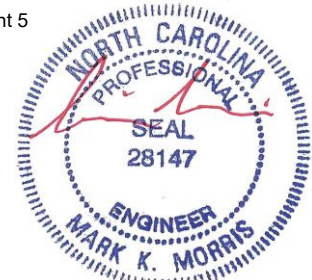Max Grav 10=238(LC 1), 5=103(LC 26), 6=62(LC 5)

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

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 44 lb uplift at joint 10, 37 lb uplift at joint 5 and 9 lb uplift at joint 6.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
        Vert: 1-2=-60, 2-3=-60, 3-5=-60, 8-10=-20, 6-7=-20
   Concentrated Loads (lb)
        Vert: 8=-15(B) 9=-15(B)

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J07	Jack-Open Girder	2	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:18 2024 Page 1
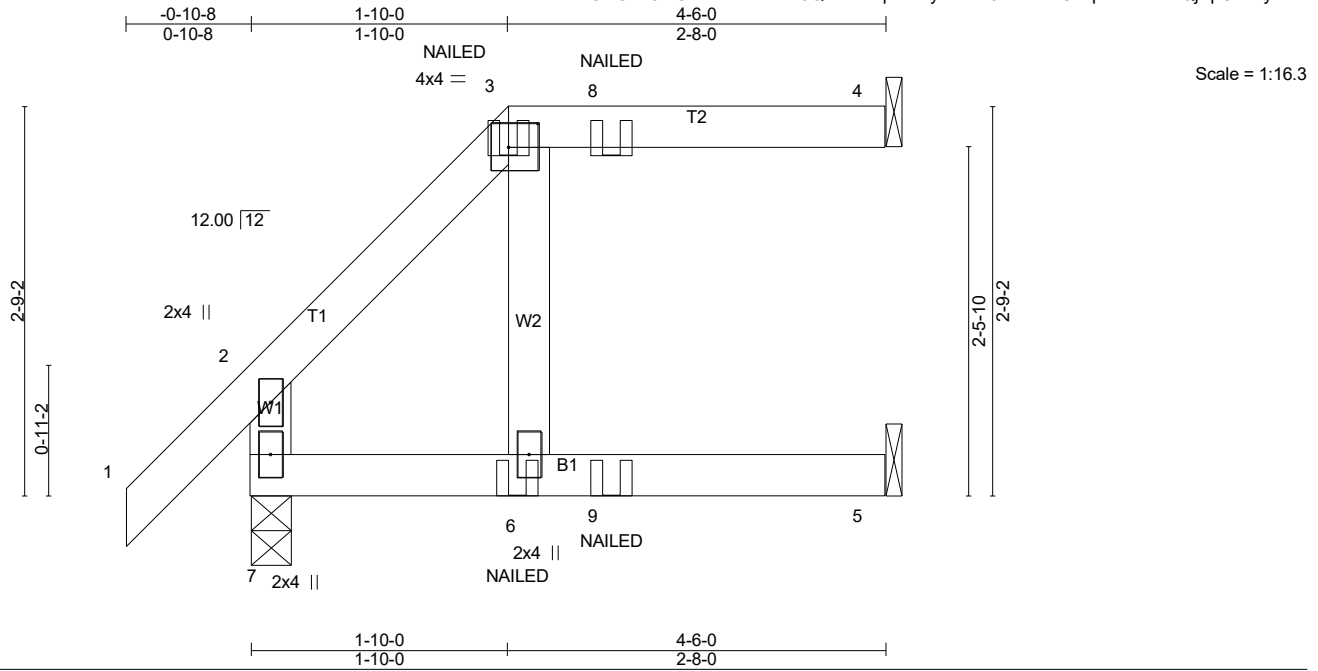ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-pkrdHycIDYB3omwkibGknpvsBXlcKHQjPpCermyePtN

Scale = 1:16.3

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.31	Vert(LL)	-0.03	6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.37	Vert(CT)	-0.06	5-6	>933	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.02	Horz(CT)	0.08	4	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP							Weight: 21 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 4-6-0 oc purlins, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS	2x4 SP No.3		

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
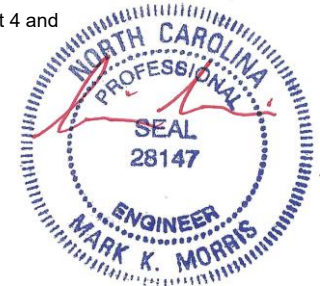
REACTIONS. (lb/size) 7=281/0-3-8 (min. 0-1-8), 4=116/Mechanical, 5=88/Mechanical
Max Horz 7=72(LC 10)
Max Uplift7=-31(LC 10), 4=-39(LC 7), 5=-9(LC 10)
Max Grav 7=281(LC 1), 4=118(LC 26), 5=96(LC 5)

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

NOTES-   (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 31 lb uplift at joint 7, 39 lb uplift at joint 4 and 9 lb uplift at joint 5.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-2=-60, 2-3=-60, 3-4=-60, 5-7=-20
Concentrated Loads (lb)
Vert: 3=-12(F) 6=-29(F) 8=-12(F) 9=-29(F)

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J08	Jack-Open	2	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:19 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-HxP?VIdw_sJwQwVwFInzK0S2yx7v3kPteTxBNDyePtM
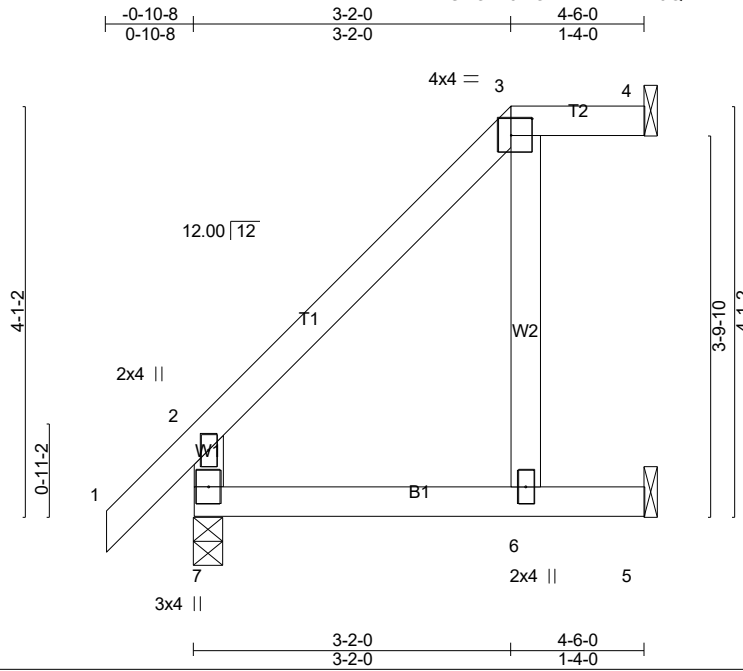
Scale = 1:23.0

-0-10-8 | 3-2-0 | 4-6-0
0-10-8 | 3-2-0 | 1-4-0

12.00 [12]

Plate Offsets (X,Y)-- [3:0-2-8,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.25	Vert(LL)	0.04	6-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.24	Vert(CT)	-0.04	6-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	-0.06	4	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 24 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
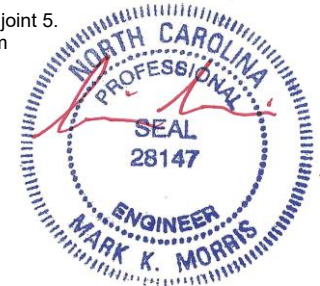BOT CHORD   Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size) 7=240/0-3-8 (min. 0-1-8), 4=70/Mechanical, 5=94/Mechanical
Max Horz 7=113(LC 12)
Max Uplift4=-14(LC 9), 5=-48(LC 12)
Max Grav 7=240(LC 1), 4=70(LC 1), 5=97(LC 20)

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

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 14 lb uplift at joint 4 and 48 lb uplift at joint 5.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
    sheetrock be applied directly to the bottom chord.
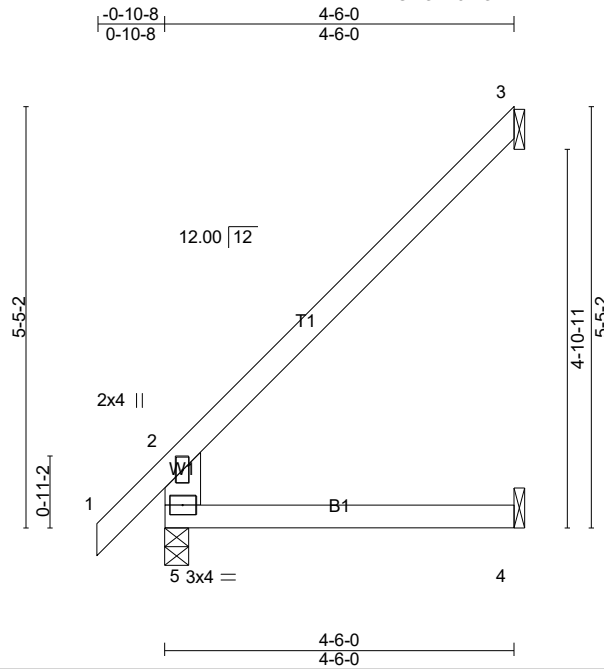11) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J09	Jack-Open	12	1	# 52244

Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:20 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-l7zNieeYlARn2446p0ICsE?BMLR7oBH0t7hlwfyePtL

-0-10-8 | 4-6-0
0-10-8 | 4-6-0

Scale = 1:29.7

12.00 ⎡12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	0.04	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.36	Vert(CT)	-0.03	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	3	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 20 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x6 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)   5=243/0-3-8 (min. 0-1-8), 3=111/Mechanical, 4=49/Mechanical
Max Horz 5=149(LC 12)
Max Uplift3=-102(LC 12), 4=-7(LC 12)
Max Grav 5=243(LC 1), 3=127(LC 20), 4=79(LC 5)

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

NOTES- (9)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 102 lb uplift at joint 3 and 7 lb uplift at joint 4.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Trusses designed with 2018 IRC also comply with 2015 IRC.

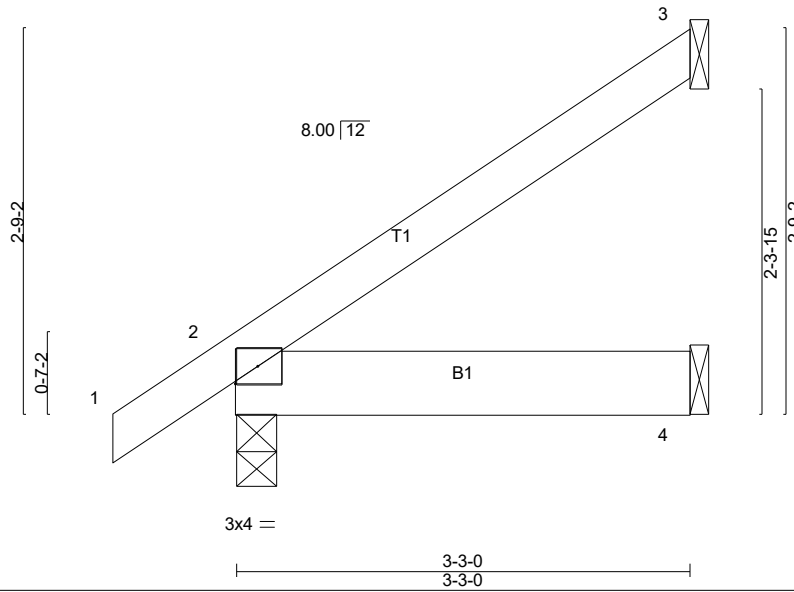**LOAD CASE(S)** Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J11	Jack-Open	2	1	Job Reference (optional) **# 52244**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:21 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-DJWlw_fAWTZefEfJNjqRPRXQfls6XdX95nQlS5yePtK

Scale = 1:16.5

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC	0.10	Vert(LL)	-0.00	7	>999	240	MT20	244/190
Snow (Pf) 20.0	Lumber DOL	1.15	BC	0.06	Vert(CT)	-0.00	4-7	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Code IRC2021/TPI2014		Matrix-MP							Weight: 15 lb	FT = 20%
BCDL 10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 3-3-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=72/Mechanical, 2=187/0-3-8 (min. 0-1-8), 4=49/Mechanical
Max Horz 2=80(LC 12)
Max Uplift3=-40(LC 12), 2=-8(LC 12)
Max Grav 3=74(LC 24), 2=187(LC 1), 4=66(LC 5)

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

NOTES- (8)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 40 lb uplift at joint 3 and 8 lb uplift at joint 2.
8) Trusses designed with 2018 IRC also comply with 2015 IRC.
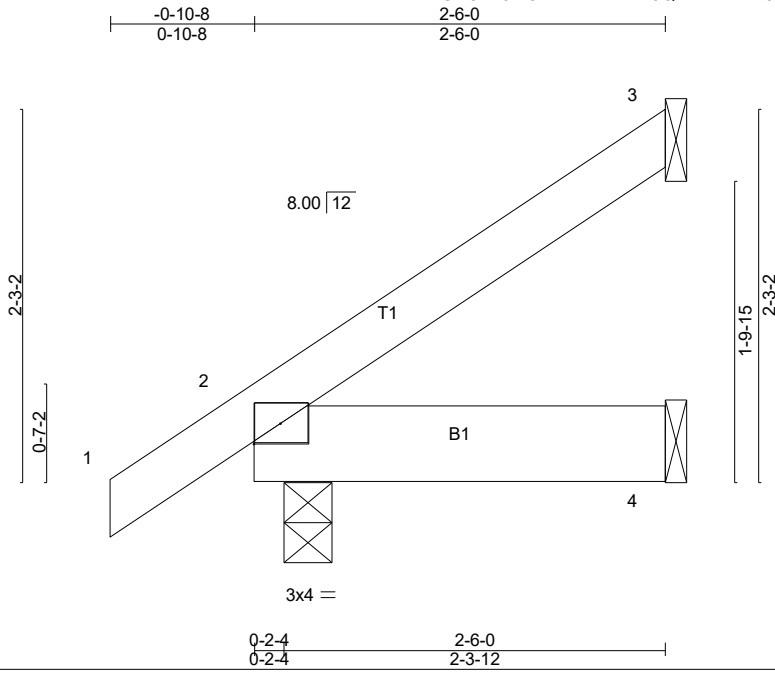
LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J12	Jack-Open	2	1	
					Job Reference (optional) # *52244*

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:22 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-iW487KfpHnhVHNEVxRLgxf4bc8CoG4mJKQAs_YyePtJ

Scale = 1:14.0

-0-10-8
0-10-8
2-6-0
2-6-0

8.00 [12

3

2-3-2

T1

2

1-9-15
2-3-2

0-7-2

1

B1

4

3x4 =

0-2-4
0-2-4
2-6-0
2-3-12

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 2-6-0 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size)   3=53/Mechanical, 2=159/0-3-8 (min. 0-1-8), 4=35/Mechanical
Max Horz 2=65(LC 12)
Max Uplift3=-30(LC 12), 2=-10(LC 12)
Max Grav 3=55(LC 20), 2=159(LC 1), 4=50(LC 5)

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

NOTES-   (8)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 3 and 10 lb uplift at joint 2.
8) Trusses designed with 2018 IRC also comply with 2015 IRC.
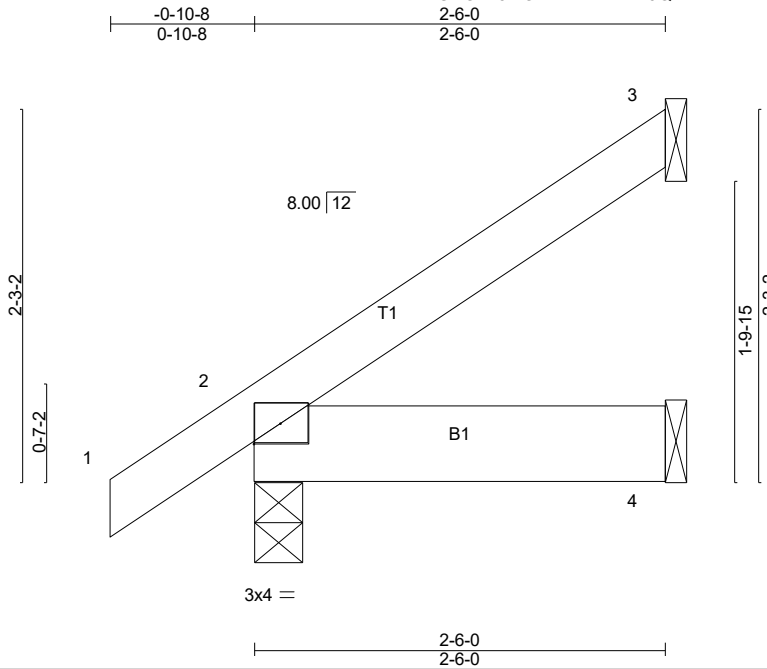
LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J13	Jack-Open	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:23 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-AieWLggR25pMvXphU8svUsdmMYY1?X0SZ4vPX_yePtI

-0-10-8
0-10-8
2-6-0
2-6-0

Scale = 1:14.0

8.00 ⟌12

2-3-2

T1

1-9-15
2-3-2

0-7-2

3

2

1

B1

4

3x4 ═

2-6-0
2-6-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP								
BCDL	10.0										Weight: 12 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-6-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size) 3=53/Mechanical, 2=159/0-3-8 (min. 0-1-8), 4=35/Mechanical
Max Horz 2=65(LC 12)
Max Uplift3=-30(LC 12), 2=-10(LC 12)
Max Grav 3=55(LC 24), 2=159(LC 1), 4=50(LC 5)

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

NOTES- (8)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 30 lb uplift at joint 3 and 10 lb uplift at joint 2.
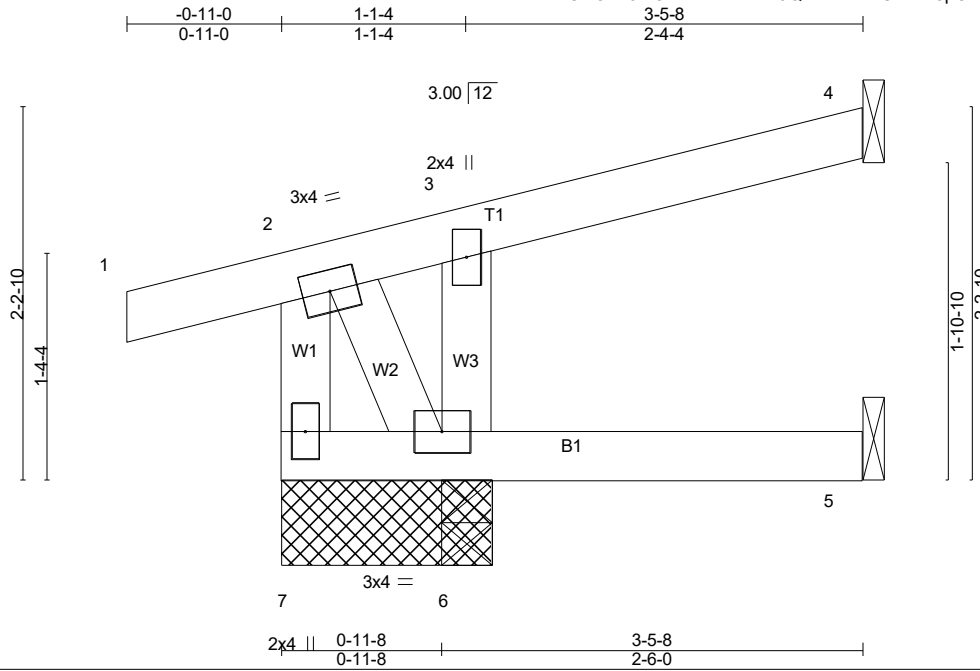8) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J14	Jack-Open Structural Gable	1	1	# 52244
					Job Reference (optional)	

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:24 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-euCuY?h3pOxDXhOu2sN8149xcyt8k_scokfy3QyePtH

Scale = 1:13.7

-0-11-0　　1-1-4　　3-5-8
0-11-0　　1-1-4　　2-4-4

3.00 ⌐12

2x4 ‖
3x4 =

3x4 =

2x4 ‖　0-11-8　　3-5-8
0-11-8　　2-6-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.12	Vert(LL)	-0.00	6	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	5-6	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.03	Horz(CT)	-0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP							Weight: 16 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 3-5-8 oc purlins, except end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
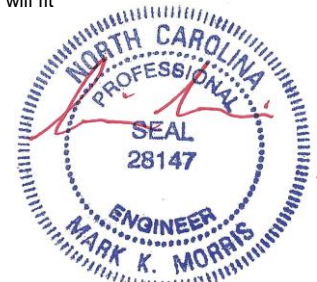
REACTIONS.   All bearings 1-3-0 except (jt=length) 4=Mechanical, 5=Mechanical.
    (lb) -   Max Horz 7=38(LC 11)
             Max Uplift All uplift 100 lb or less at joint(s) 4, 7, 6
             Max Grav   All reactions 250 lb or less at joint(s) 4, 7, 5, 6, 6

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

NOTES-   (11)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 7, 6.
11) Trusses designed with 2018 IRC also comply with 2015 IRC.
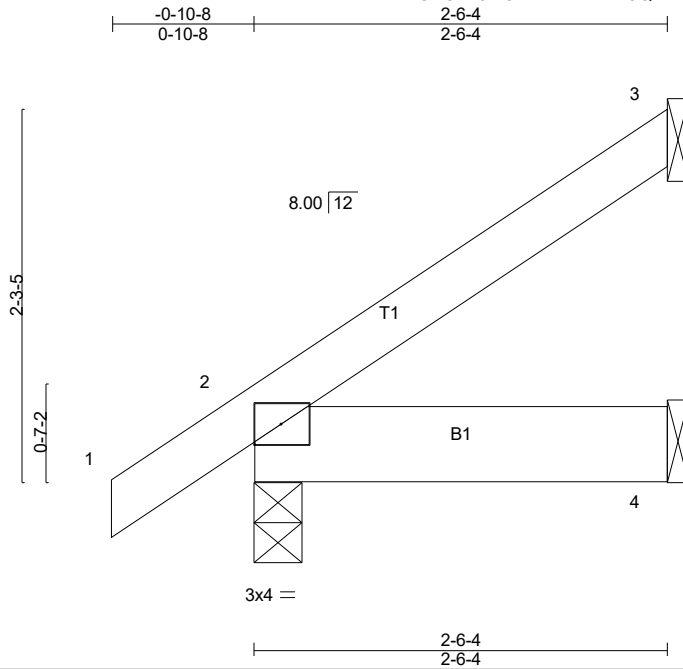
LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J15	Jack-Closed	7	1	
					Job Reference (optional) **# 52244**

Scale = 1:14.1

3x4 =

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.03	Vert(CT)	-0.00	7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP							Weight: 12 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 2-6-4 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size)   3=54/Mechanical, 2=160/0-3-8 (min. 0-1-8), 4=35/Mechanical
Max Horz 2=65(LC 12)
Max Uplift3=-30(LC 12), 2=-10(LC 12)
Max Grav 3=56(LC 24), 2=160(LC 1), 4=50(LC 5)

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

NOTES-   (8)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
8) Trusses designed with 2018 IRC also comply with 2015 IRC.

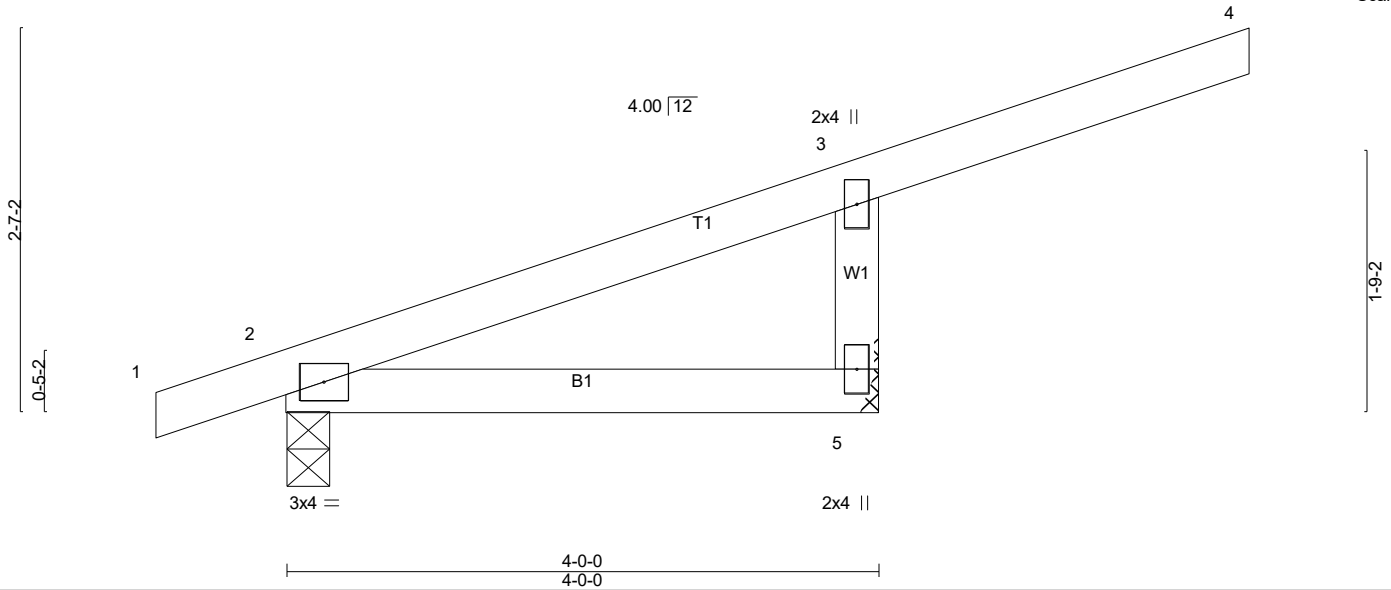**LOAD CASE(S)** Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J16	Monopitch	3	1	# 52244
					Job Reference (optional)	

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:25 2024 Page 1
ID:GHOhT5MOv4FkLKIPfX2c9QzXMNI-65mGmLihai348rz4cZuNZHiwkMAKTRWl0OOWbsyePtG

LOADING (psf)
- TCLL (roof) 20.0
- Snow (Pf) 20.0
- TCDL 10.0
- BCLL 0.0 *
- BCDL 10.0

SPACING- 2-0-0
- Plate Grip DOL 1.15
- Lumber DOL 1.15
- Rep Stress Incr YES
- Code IRC2021/TPI2014

CSI.
- TC 0.87
- BC 0.23
- WB 0.00
- Matrix-MP

DEFL.
	in	(loc)	l/defl	L/d
Vert(LL)	0.02	5-8	>999	240
Vert(CT)	0.02	5-8	>999	180
Horz(CT)	-0.00	2	n/a	n/a

PLATES **GRIP**
- MT20 244/190

Weight: 19 lb   FT = 20%

LUMBER-
- TOP CHORD 2x4 SP No.2
- BOT CHORD 2x4 SP No.2
- WEBS 2x4 SP No.3

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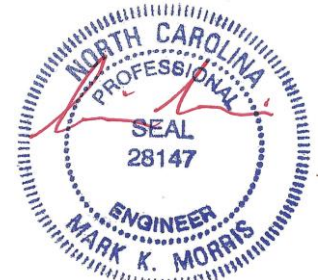- BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=361/Mechanical, 2=158/0-3-8 (min. 0-1-8)
- Max Horz 2=76(LC 11)
- Max Uplift5=-97(LC 11), 2=-21(LC 10)
- Max Grav 5=511(LC 21), 2=186(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 3-5=-481/291

NOTES- (9)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
9) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J17	Monopitch	7	1	
					Job Reference (optional)	**# 52244**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:26 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-aHKezhjJL0Bxm?YGAGPc6VFEimW?CumvF2837JyePtF
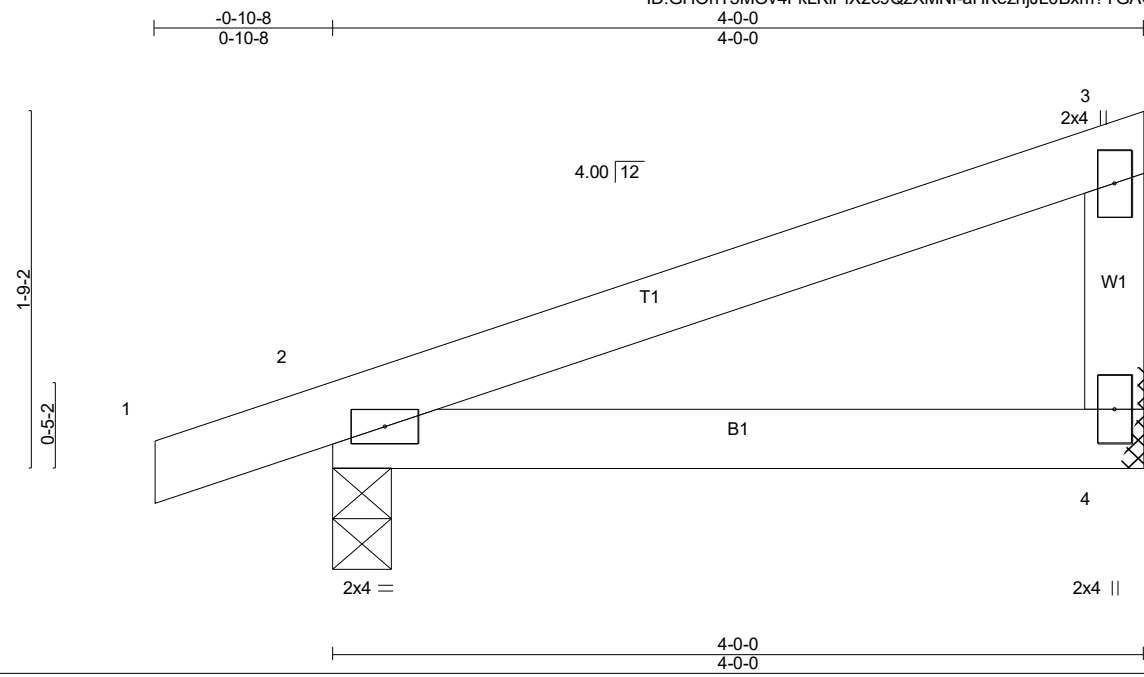
Scale = 1:11.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	-0.02	4-7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.21	Vert(CT)	-0.03	4-7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP							Weight: 15 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)   4=148/Mechanical, 2=213/0-3-8 (min. 0-1-8)
Max Horz 2=50(LC 13)
Max Uplift4=-23(LC 14), 2=-47(LC 10)
Max Grav 4=197(LC 21), 2=290(LC 21)

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

NOTES-   (9)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4, 2.
9) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

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 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J19	Monopitch	1	1	**# 52244**
					Job Reference (optional)	

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:27 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-2Tu1A1jx6JJoO96Tj_wreinNq9r_xL02UitcglyePtE

Scale = 1:17.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.38	Vert(LL)	0.07	5-8	>827	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.29	Vert(CT)	-0.07	5-8	>902	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 23 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size) 5=333/0-3-8 (min. 0-1-8), 2=243/0-3-8 (min. 0-1-8)
   Max Horz 2=83(LC 11)
   Max Uplift5=-109(LC 10), 2=-77(LC 10)
   Max Grav 5=462(LC 21), 2=290(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   3-5=-396/251

NOTES-   (9)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2 except (jt=lb) 5=109.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
   sheetrock be applied directly to the bottom chord.
9) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

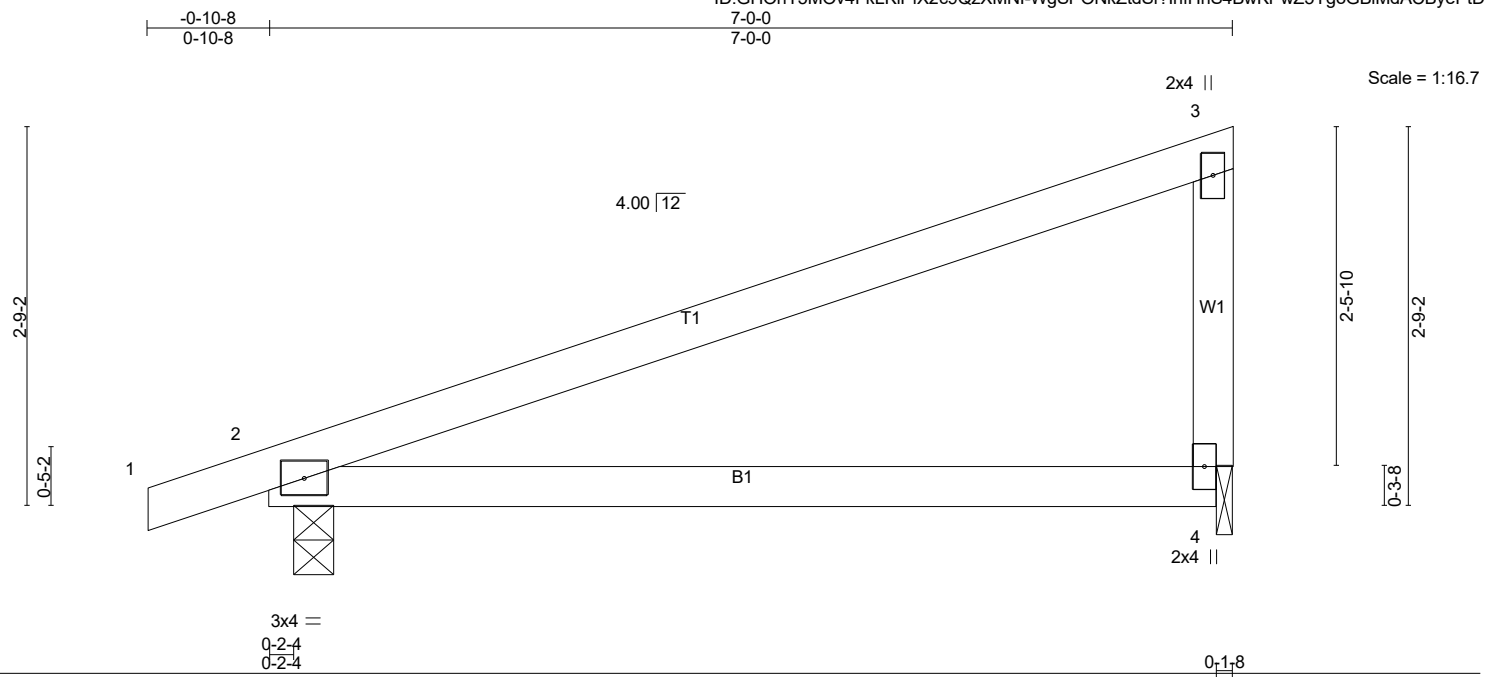| Job | Truss | Truss Type | Qty | Ply | LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC |
|-----|-------|-----------|-----|-----|---|
| 24-7625-R01 | J20 | Monopitch | 9 | 1 | # 52244 |

Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 2024 10:35:28 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-WgSPONkZtdSf?IhfHhS4BwKPwZ5YgoGBiMdACByePtD

Scale = 1:16.7

2x4 ||
3

4.00 [12]

T1

W1

2-9-2   2-5-10   2-9-2

2
B1

1   0-5-2   0-3-8

4
2x4 ||

3x4 =

0-2-4
0-2-4

0-1-8

-0-10-8   7-0-0
0-10-8   7-0-0

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.93	Vert(LL)	0.26	4-7	>320	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.26	4-7	>318	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 26 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=330/0-3-8 (min. 0-1-8), 4=271/0-1-8 (min. 0-1-8)
Max Horz 2=84(LC 13)
Max Uplift2=-108(LC 10), 4=-90(LC 10)
Max Grav 2=410(LC 21), 4=364(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   3-4=-268/161

NOTES-   (11)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
8) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 4.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 4 except (jt=lb) 2=108.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Trusses designed with 2018 IRC also comply with 2015 IRC.
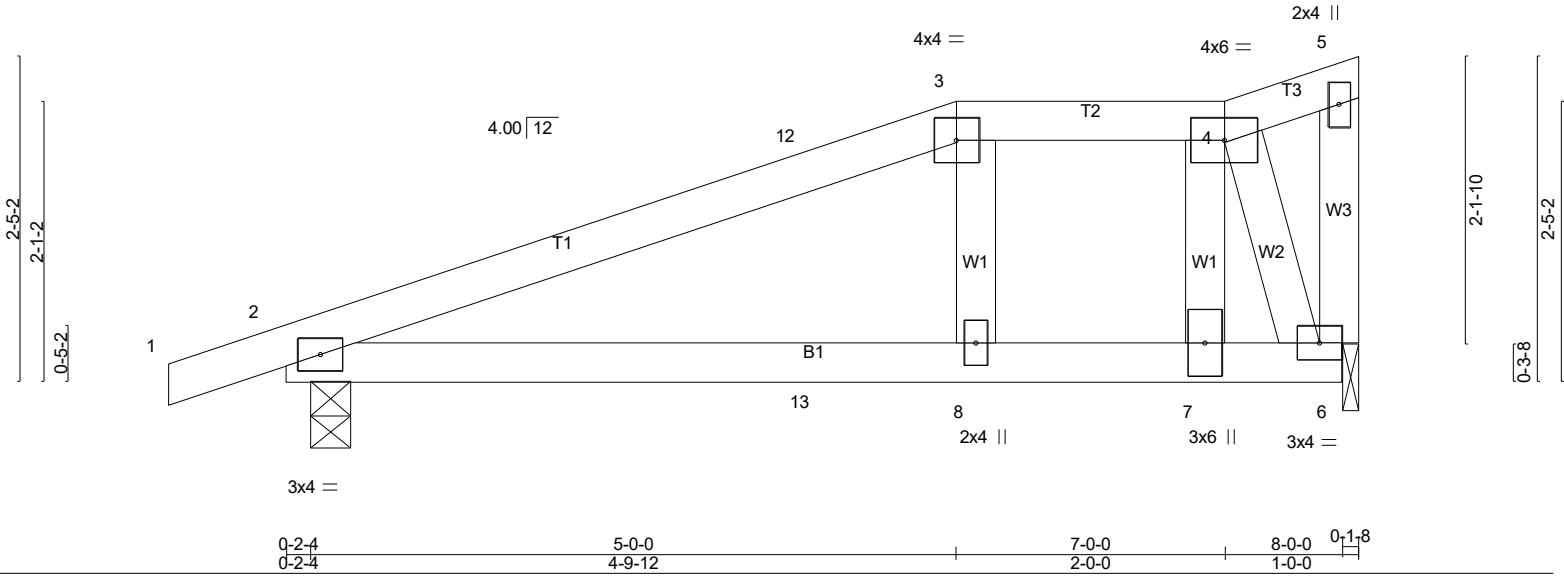
LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J21	Roof Special	1	1	
					Job Reference (optional) # 52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:30 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNl-T2Z9p3mqPEiMFcr1P6UYGLPrqNmP8fVUAg6HG4yePtB

Scale = 1:17.2

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.52	Vert(LL)	0.11	8-11	>871	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.69	Vert(CT)	-0.13	8-11	>735	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.21	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 35 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
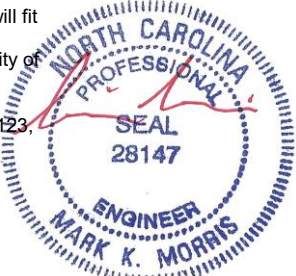BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=370/0-3-8 (min. 0-1-8), 6=311/0-1-8 (min. 0-1-8)
Max Horz 2=72(LC 13)
Max Uplift2=-123(LC 10), 6=-101(LC 10)
Max Grav 2=504(LC 40), 6=348(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-396/308, 3-12=-308/315, 3-4=-313/331
BOT CHORD 2-13=-281/323, 8-13=-281/323, 7-8=-278/313, 6-7=-237/272
WEBS   4-7=-513/503, 4-6=-635/629

NOTES- (12)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 5-0-0, Exterior(2E) 5-0-0 to 7-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=123, 6=101.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
12) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J22	Roof Special	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:31 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-xF7X0PmS9YqDsmQEyq?npYy3sn9Ft7hePKrqpWyePtA

Scale = 1:17.2
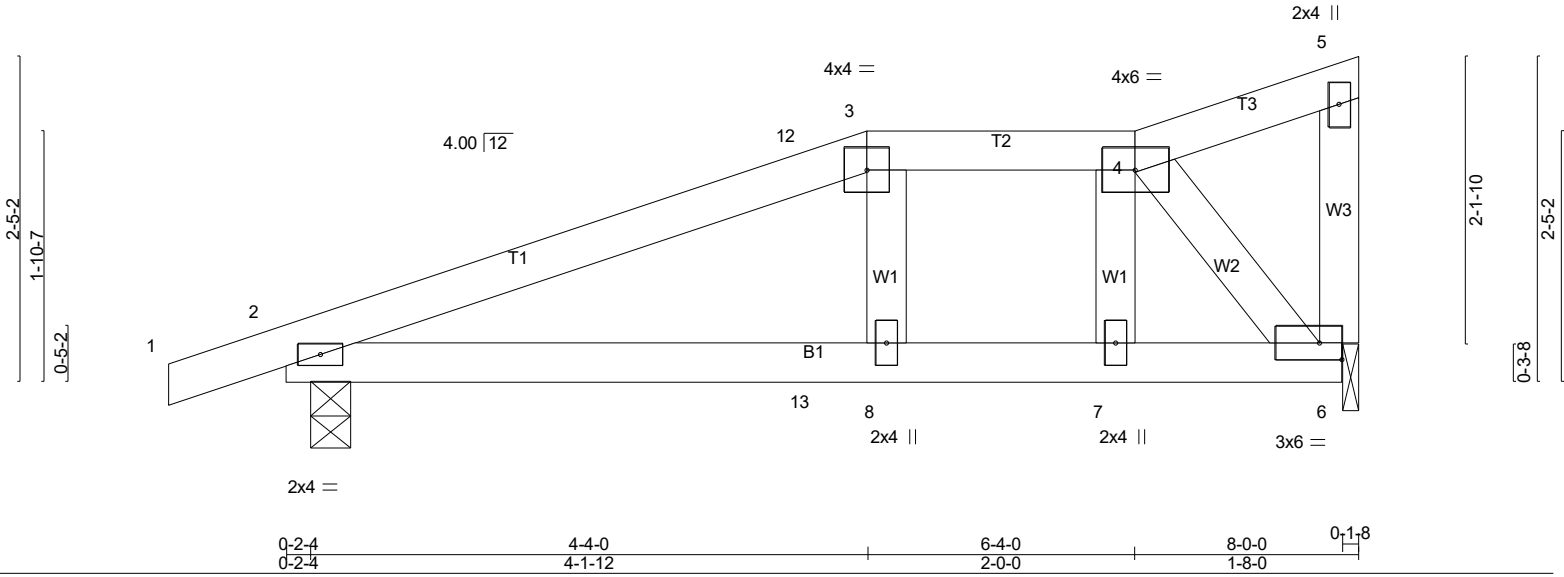
LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	2-0-0 1.15	TC	0.38	Vert(LL)	0.06	8-11	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.46	Vert(CT)	-0.08	8-11	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 35 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
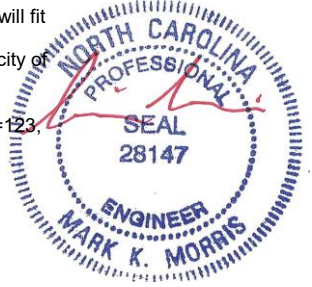BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=370/0-3-8 (min. 0-1-8), 6=311/0-1-8 (min. 0-1-8)
Max Horz 2=72(LC 13)
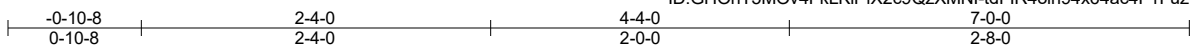Max Uplift2=-123(LC 10), 6=-101(LC 10)
Max Grav 2=494(LC 40), 6=358(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-12=-457/367, 3-12=-367/373, 3-4=-382/383
BOT CHORD 2-13=-339/389, 8-13=-339/389, 7-8=-340/382, 6-7=-313/357
WEBS 4-7=-293/269, 4-6=-515/498

NOTES- (12)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 4-4-0, Exterior(2E) 4-4-0 to 7-10-4 zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=123, 6=101.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
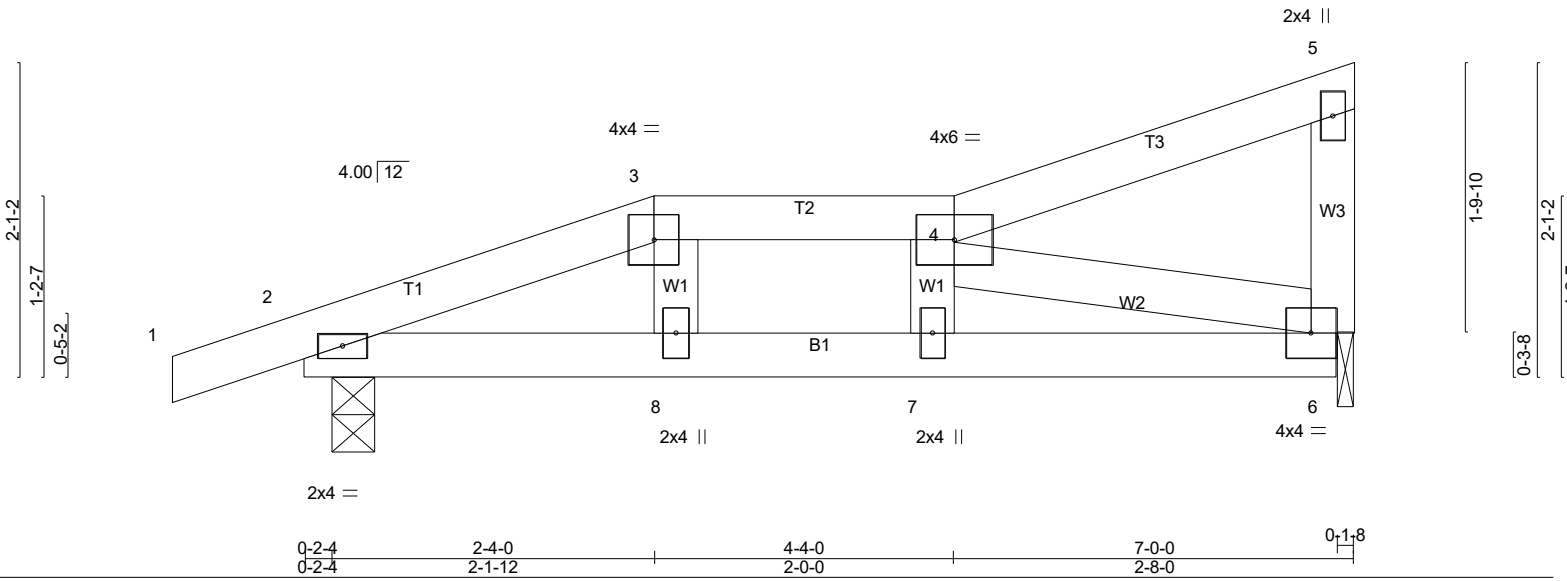12) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J23	Roof Special	1	1	**# 52244**
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:33 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-tdFIR4oih94x64ac4F1Fuz1SfawKL16wseKxtPyePt8

Scale = 1:15.3

LOADING (psf)		**SPACING-**	2-0-0	**CSI.**		**DEFL.**	in	(loc)	l/defl	L/d	**PLATES**	**GRIP**
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.02	7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.16	Vert(CT)	-0.02	7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.15	Horz(CT)	0.01	6	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 30 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
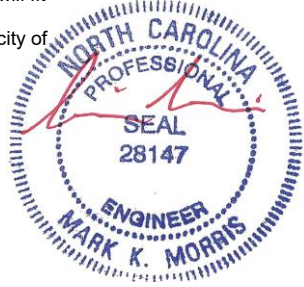WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size) 2=330/0-3-8 (min. 0-1-8), 6=271/0-1-8 (min. 0-1-8)
Max Horz 2=61(LC 13)
Max Uplift2=-111(LC 10), 6=-87(LC 10)
Max Grav 2=414(LC 40), 6=325(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-532/489, 3-4=-483/488
BOT CHORD   2-8=-457/474, 7-8=-471/483, 6-7=-457/479
WEBS   4-6=-510/515

NOTES- (12)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
8) Bearing at joint(s) 6 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of
   bearing surface.
9) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 6.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6 except (jt=lb)
    2=111.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
    sheetrock be applied directly to the bottom chord.
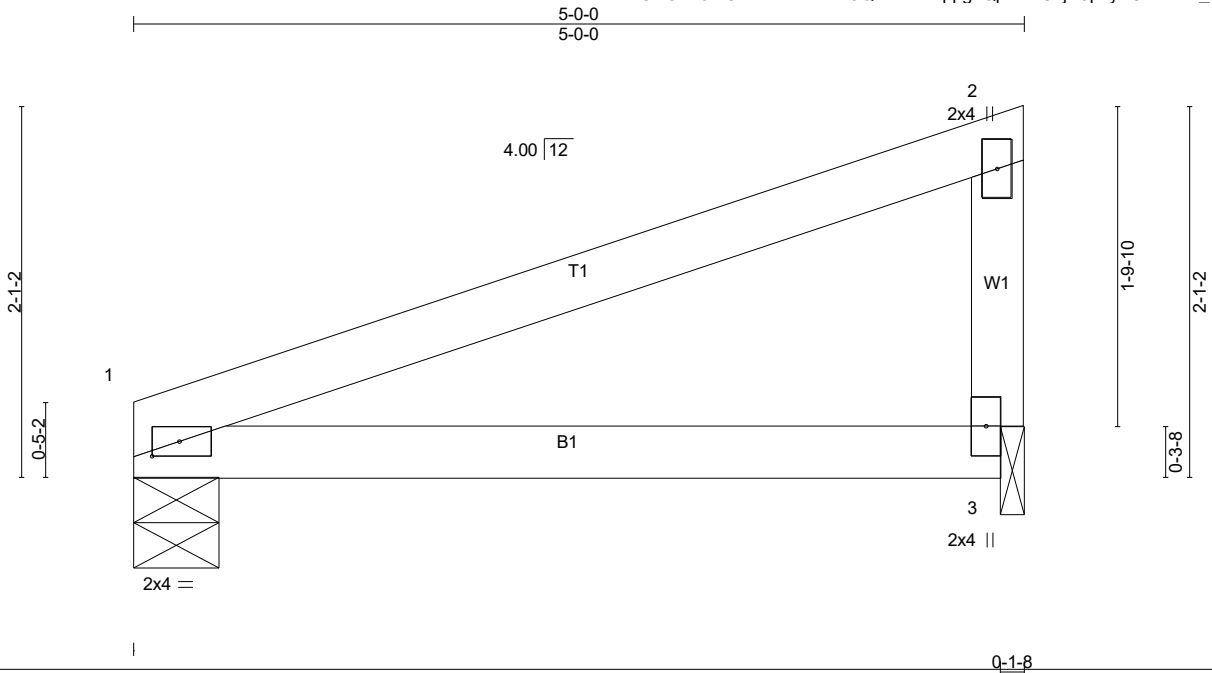12) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J24	Monopitch	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:34 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-LppgeQpKSTCojD9peyYURBaYo_Db4Wl45I4UPryePt7

Scale = 1:12.9

5-0-0
5-0-0

2
2x4 ∥

4.00 ⎣12

2-1-2

T1

1-9-10

2-1-2

W1

1

0-5-2

B1

0-3-8

3
2x4 ∥

2x4 =

0-1-8

Plate Offsets (X,Y)-- [1:0-1-14,0-1-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	0.07	3-6	>849	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.35	Vert(CT)	-0.07	3-6	>805	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.01	1	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 17 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS.   (lb/size)   1=194/0-5-12 (min. 0-1-8), 3=194/0-1-8 (min. 0-1-8)
Max Horz 1=57(LC 13)
Max Uplift1=-56(LC 10), 3=-65(LC 10)
Max Grav 1=260(LC 21), 3=260(LC 21)

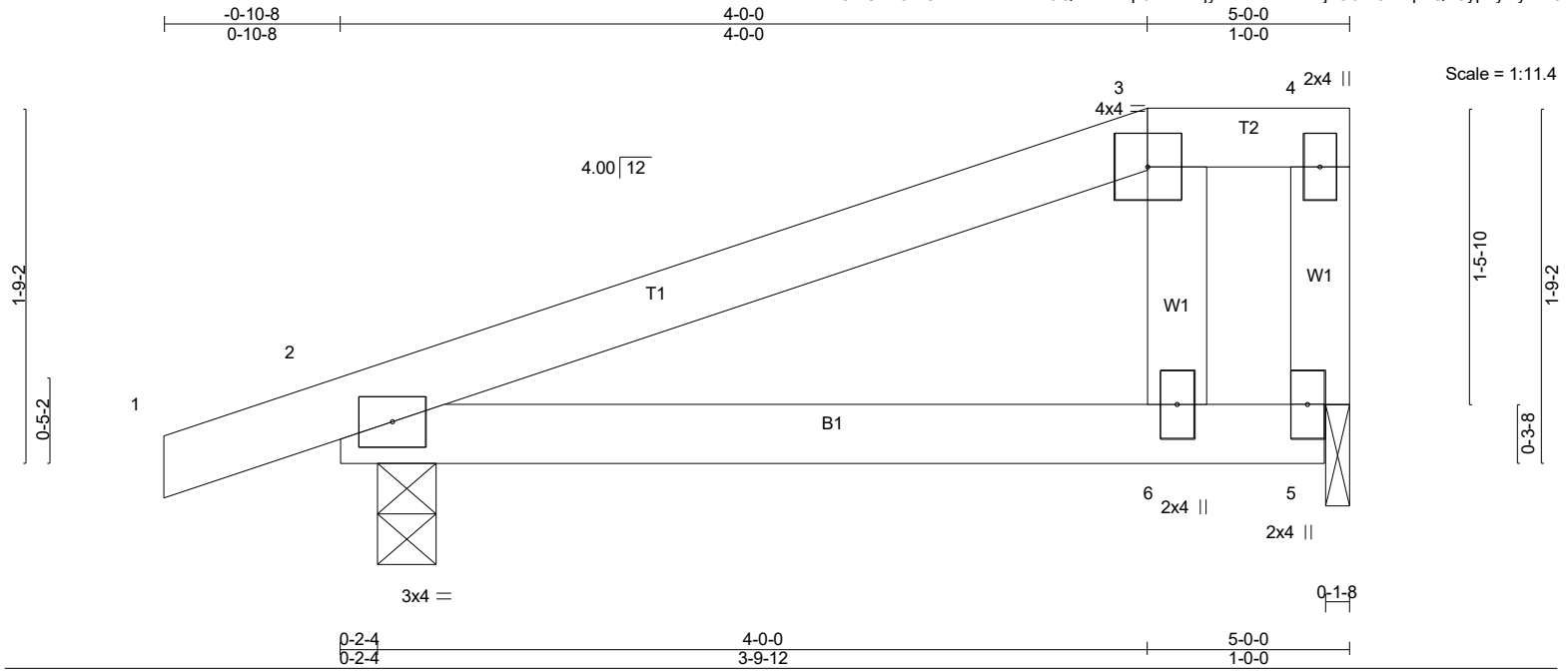FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-   (10)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left
   exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
6) Bearing at joint(s) 3 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of
   bearing surface.
7) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 3.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
   sheetrock be applied directly to the bottom chord.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J25	Half Hip	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:35 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-p0N2smqyDnKfLNk?Bf4jzO6l2OYHpzQDJyp2yHyePt6

Scale = 1:11.4

4.00 ⎡12

3 4x4 =
4 2x4 ||
T2
T1
W1
W1
B1
6 2x4 ||
5
2x4 ||

3x4 =

-0-10-8 / 0-10-8
4-0-0 / 4-0-0
5-0-0 / 1-0-0

0-2-4 / 0-2-4
4-0-0 / 3-9-12
5-0-0 / 1-0-0

0-1-8

1-9-2
0-5-2
1-5-10
1-9-2
0-3-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.36	Vert(LL)	0.07	6-9	>843	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.39	Vert(CT)	-0.08	6-9	>707	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.04	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 20 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=251/0-3-8 (min. 0-1-8), 5=189/0-1-8 (min. 0-1-8)
Max Horz 2=52(LC 13)
Max Uplift2=-87(LC 10), 5=-61(LC 10)
Max Grav 2=361(LC 36), 5=221(LC 36)

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

NOTES- (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
12) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
13) Trusses designed with 2018 IRC also comply with 2015 IRC.

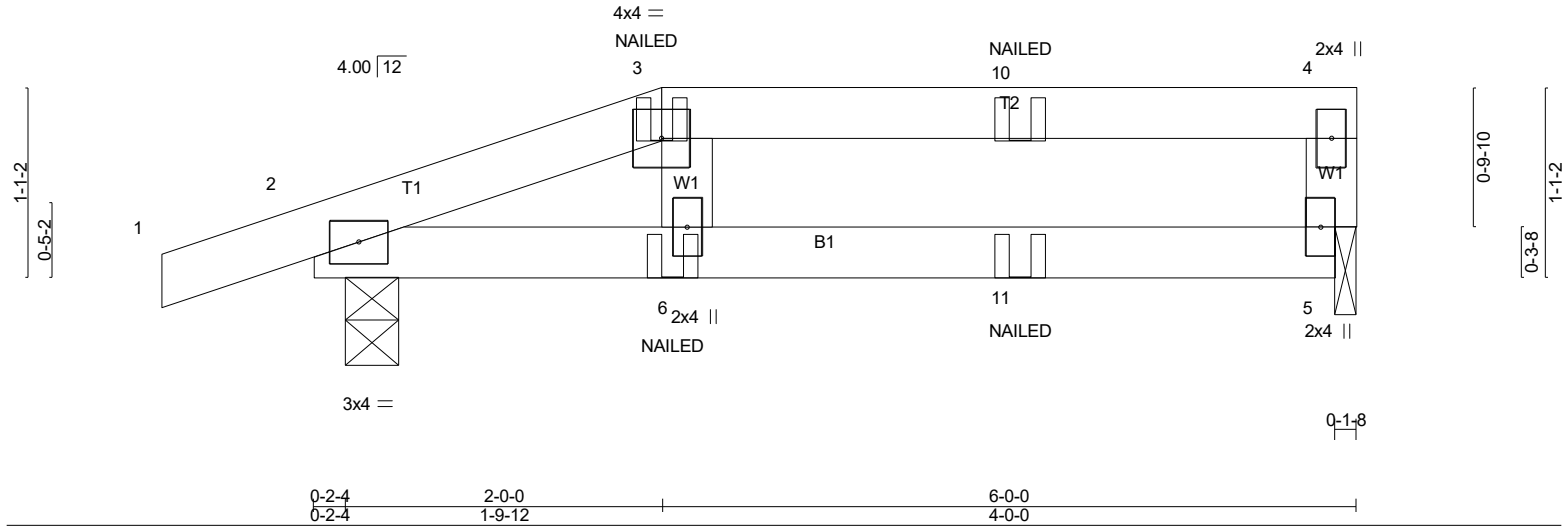LOAD CASE(S) Standard

NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J26	Half Hip Girder	1	1	Job Reference (optional)	# 52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:37 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-lOUoHSrDlOaNahtOJ46B2pC3UB8FHtfWnGl80AyePt4
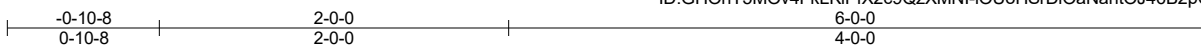
Scale = 1:13.3

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.50	Vert(LL)	-0.11	5-6	>629	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.21	5-6	>339	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.05	Horz(CT)	0.01	2	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP							Weight: 21 lb	FT = 20%
BCDL	10.0											

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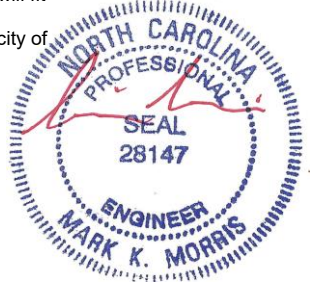BOT CHORD 2x4 SP No.1
WEBS 2x4 SP No.3

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.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=299/0-3-8 (min. 0-1-8), 5=239/0-1-8 (min. 0-1-8)
Max Horz 2=30(LC 54)
Max Uplift2=-103(LC 8), 5=-73(LC 8)
Max Grav 2=359(LC 34), 5=317(LC 33)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-6=-272/71

NOTES- (14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Bearing at joint(s) 5 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
10) Provide mechanical connection (by others) of truss to bearing plate at joint(s) 5.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5 except (jt=lb) 2=103.
12) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
13) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
14) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-60, 3-4=-60, 5-7=-20

9/11/2024

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J26	Half Hip Girder	1	1	
					Job Reference (optional) # 52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:37 2024 Page 2
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-lOUoHSrDlOaNahtOJ46B2pC3UB8FHtfWnGl80AyePt4

LOAD CASE(S) Standard
  Concentrated Loads (lb)
    Vert: 3=-2(B) 6=-7(B) 10=-2(B) 11=-7(B)
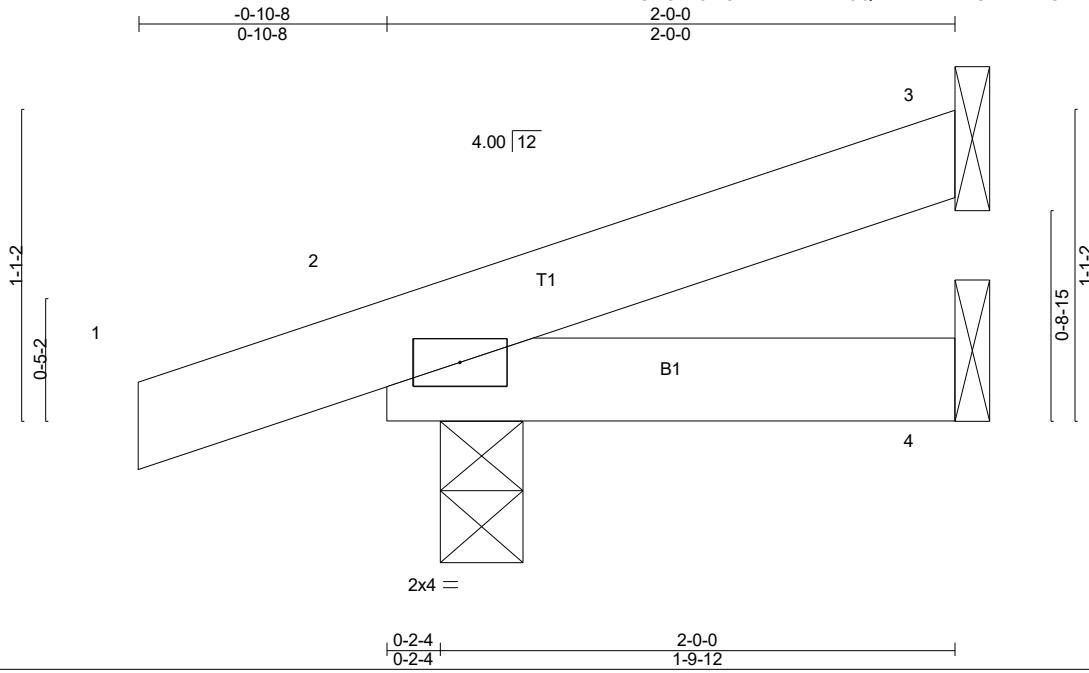
9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J27	Jack-Open	2	1	
					Job Reference (optional) # 52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:38 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-Eb2BUosrWiiECrSatodQb1kKfbfT0Kkg0w2iYcyePt3

Scale = 1:8.1

4.00 $\overline{12}$

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.09	Vert(LL)	0.00	7	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.04	Vert(CT)	-0.00	7	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.00	3	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP							Weight: 8 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied or 2-0-0 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 3=45/Mechanical, 4=23/Mechanical, 2=144/0-3-8 (min. 0-1-8)
Max Horz 2=32(LC 10)
Max Uplift3=-17(LC 10), 4=-6(LC 10), 2=-53(LC 10)
Max Grav 3=59(LC 21), 4=34(LC 7), 2=186(LC 21)

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

NOTES- (9)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed; porch left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4, 2.
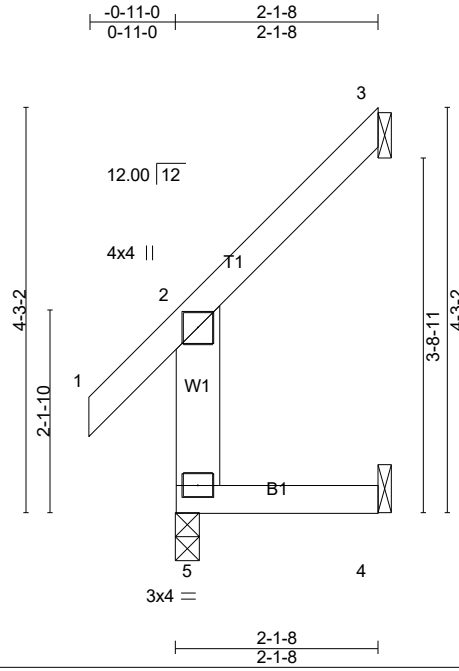9) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	J28	Jack-Open	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:39 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-incZi8tTH?q5q?1mQV8f8EHU5?xUlm_pEanF53yePt2

Scale: 1/2"=1'

-0-11-0 | 2-1-8
0-11-0 | 2-1-8

12.00 ⌐12

4x4 ||

T1

2

W1

B1

3-8-11

4-3-2

4-3-2

2-1-10

1

5   4

3x4 =

2-1-8
2-1-8

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.17	Vert(LL)	0.01	4-5	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.31	Vert(CT)	0.01	4-5	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	-0.04	3	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MR							Weight: 14 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x6 SP No.2

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 2-1-8 oc purlins, except
             end verticals.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size) 5=164/0-3-0 (min. 0-1-8), 3=38/Mechanical, 4=13/Mechanical
            Max Horz 5=79(LC 9)
            Max Uplift3=-69(LC 12), 4=-36(LC 12)
            Max Grav 5=187(LC 18), 3=61(LC 24), 4=47(LC 10)

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

NOTES-   (8)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
4) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
5) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
6) Refer to girder(s) for truss to truss connections.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 4.
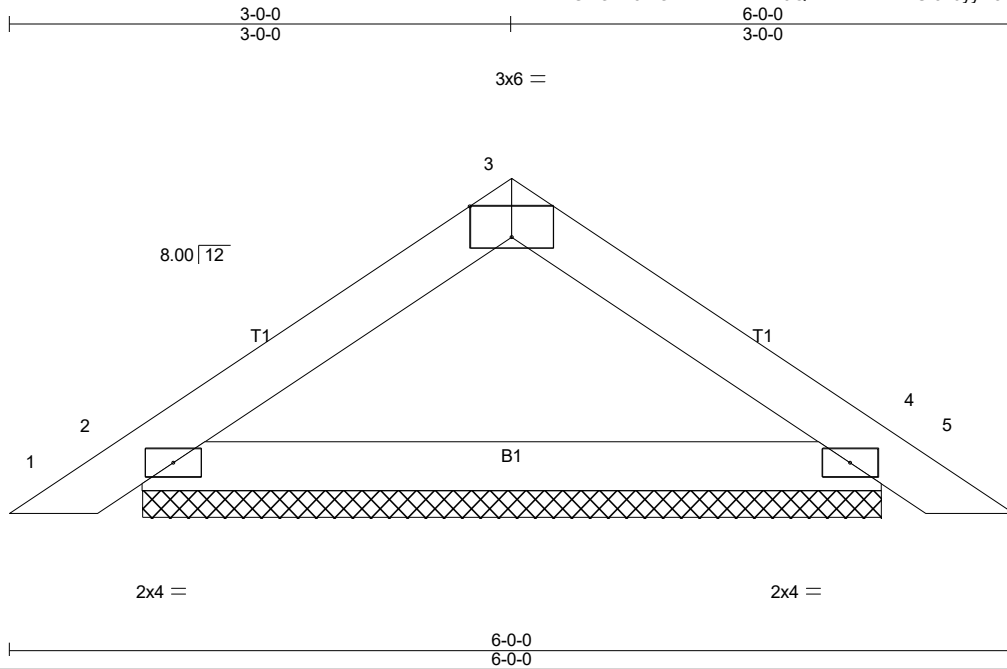8) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

North Carolina Professional Seal 28147 - Mark K. Morris, Engineer

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	P01	Piggyback	5	1	
					Job Reference (optional)

52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:40 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-AzAxvUt52JyyR8cy_DfugSqgIPF1UDEyTEXpdVyePt1

3-0-0
3-0-0
6-0-0
3-0-0

3x6 =

Scale = 1:13.8

8.00 [12]

2-0-0
0-4-11
0-1-10

3

T1   T1

2   4   5

B1

1   0-4-11   0-1-10

2x4 =   2x4 =

6-0-0
6-0-0

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	5	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.41	Vert(CT)	0.00	5	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	4	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P							Weight: 17 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins.
BOT CHORD	2x4 SP No.3	BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
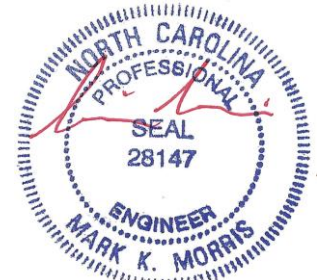Installation guide.

REACTIONS. (lb/size)   2=208/4-5-0 (min. 0-1-8), 4=208/4-5-0 (min. 0-1-8)
Max Horz 2=36(LC 11)
Max Uplift2=-21(LC 12), 4=-21(LC 13)

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

NOTES-   (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Gable requires continuous bottom chord bearing.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
9) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building
   designer.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

*[Seal: NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS]*

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R01	HIP GIRDER	1	1	**# 52244**

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:48 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-xWfzaD_69mzpPNDVSupm?79s2dvlMdI8JTTEu1yePsv

Scale = 1:73.7
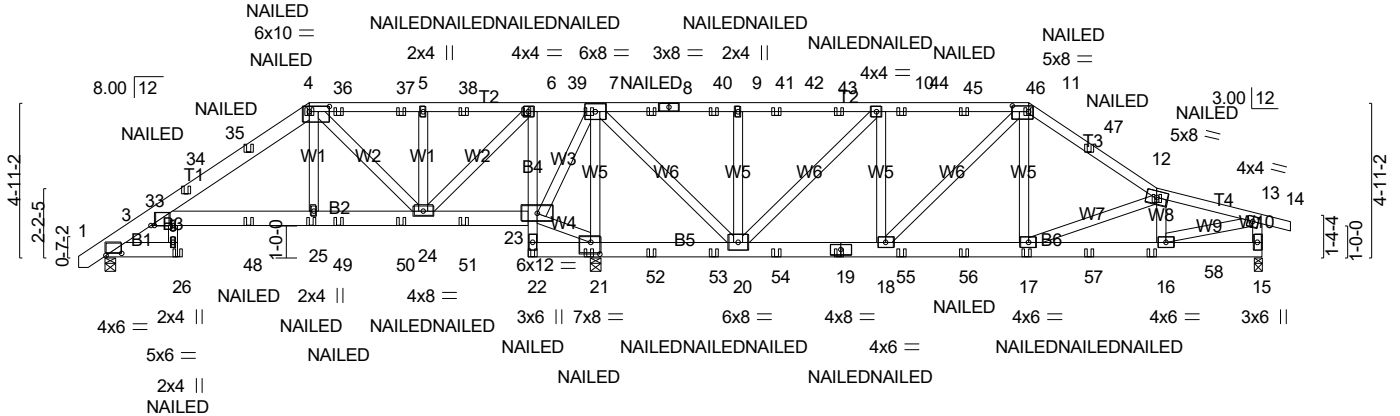
Plate Offsets (X,Y)-- [2:0-6-0,0-0-12], [3:0-1-6,0-0-0], [4:0-7-12,0-2-0], [11:0-6-4,0-2-4], [21:0-3-8,0-4-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.12	26	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.21	26	>893	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.95	Horz(CT)	0.09	15	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MSH							Weight: 261 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T1: 2x6 SP No.2
BOT CHORD 2x6 SP No.2 *Except*
B3,B4: 2x4 SP No.2, B5: 2x6 SP DSS
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-11-9 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=499/0-3-8 (min. 0-1-8), 21=2778/0-3-8 (min. 0-3-7), 15=879/0-3-0 (min. 0-1-8)
Max Horz 2=-96(LC 62)
Max Uplift2=-129(LC 12), 21=-1230(LC 9), 15=-261(LC 13)
Max Grav 2=684(LC 39), 21=3379(LC 38), 15=917(LC 45)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-261/132, 3-34=-453/207, 34-35=-400/179, 4-35=-349/183, 4-36=-26/392,
36-37=-26/392, 5-37=-26/392, 5-38=-26/392, 38-39=-26/392, 6-39=-26/392, 6-7=-398/1310,
7-40=-70/377, 8-40=-70/377, 8-41=-70/377, 41-42=-70/377, 9-42=-70/377, 9-43=-70/377,
43-44=-70/377, 10-44=-70/377, 10-45=-761/403, 45-46=-761/403, 11-46=-761/403,
11-47=-1033/450, 12-47=-1083/442, 12-13=-1283/426, 13-15=-859/263
BOT CHORD 3-48=-159/367, 25-48=-159/367, 25-49=-162/383, 49-50=-162/383, 24-50=-162/383,
24-51=-1296/462, 23-51=-1296/462, 6-23=-1253/438, 21-52=-1497/549, 52-53=-1497/549,
20-53=-1497/549, 20-54=-320/775, 19-54=-320/775, 18-19=-320/775, 18-55=-312/888,
55-56=-312/888, 17-56=-312/888, 17-57=-394/1254, 57-58=-394/1254, 16-58=-394/1254
WEBS 4-25=-138/458, 4-24=-997/314, 5-24=-437/169, 6-24=-521/1424, 21-23=-1557/574,
7-23=-201/577, 7-21=-2302/895, 7-20=-698/1968, 9-20=-489/253, 11-18=-440/49,
11-17=-71/406, 12-17=-530/131, 12-16=-312/164, 13-16=-385/1212, 10-18=-35/456,
10-20=-1220/406

NOTES- (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed;Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=129, 21=1230, 15=261.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.

Continued on page 2

9/11/2024

WARNING - Verify design parameters and READ NOTES ON THIS AND INCLUDED MITEK REFERENCE PAGE MII-7473 rev. 5/19/2020 BEFORE USE.
Design valid for use only with MiTek® connectors. 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 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R01	HIP GIRDER	1	1	# **52244**
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:49 2024 Page 2
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-PiDLoZ_lw45g0Xoh0cK?YLi1o1E_54YHY7CnQTyePsu

NOTES- (12)
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-3=-60, 3-4=-60, 4-11=-60, 11-12=-60, 12-13=-60, 13-14=-60, 26-27=-20, 23-30=-20, 15-22=-20
   Concentrated Loads (lb)
      Vert: 4=-22(F) 11=-36(F) 12=-64(F) 26=-36(F) 6=-22(F) 19=-22(F) 25=-42(F) 21=-22(F) 23=-42(F) 7=-36(F) 17=-22(F) 34=-43(F) 35=-8(F) 36=-22(F) 37=-22(F)
      38=-22(F) 40=-36(F) 42=-36(F) 43=-36(F) 44=-36(F) 45=-36(F) 46=-36(F) 47=-11(F) 48=-58(F) 49=-42(F) 50=-42(F) 51=-42(F) 52=-22(F) 53=-22(F) 54=-22(F)
      55=-22(F) 56=-22(F) 57=-57(F) 58=-25(F)

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R02	HIP	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:51 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-L5K5DE0?ShLOGry470MTdmnNkrtGZ14a?RhuVMyePss

Scale = 1:69.0

Plate Offsets (X,Y)-- [2:0-2-0,0-1-8], [2:0-3-2,0-1-8], [3:0-6-4,0-3-0], [7:0-5-0,0-2-5], [17:0-2-8,0-3-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.83	Vert(LL)	-0.28	18-26	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.52	18-26	>843	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.76	Horz(CT)	0.28	11	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 243 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
    T1: 2x8 SP DSS, T4: 2x6 SP No.2
BOT CHORD 2x4 SP No.2 *Except*
    B1: 2x6 SP No.2
WEBS 2x4 SP No.3 *Except*
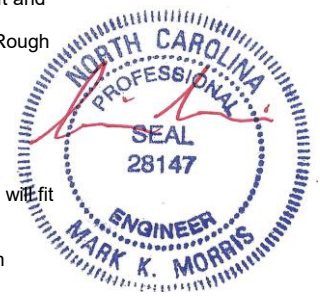   W4,W10: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=1480/0-3-8 (min. 0-2-0), 11=1532/0-3-0 (min. 0-1-14)
    Max Horz 1=-130(LC 10)
    Max Uplift1=-44(LC 14), 11=-78(LC 15)
    Max Grav 1=1684(LC 41), 11=1615(LC 40)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-22=-863/183, 2-27=-2827/397, 27-28=-2807/406, 3-28=-2777/432, 3-4=-3019/516,
    4-29=-3016/517, 5-29=-3016/517, 5-6=-3016/517, 6-30=-2799/498, 7-30=-2799/498,
    7-31=-2584/437, 8-31=-2591/399, 8-9=-2529/434, 9-11=-1573/307
BOT CHORD 2-32=-211/2418, 18-32=-211/2418, 18-33=-209/2424, 17-33=-209/2424, 4-17=-509/117,
    15-34=-201/2149, 14-34=-201/2149, 13-14=-201/2149, 12-13=-374/2486
WEBS 3-18=0/380, 3-17=-167/984, 15-17=-264/2605, 6-17=-52/302, 6-15=-931/183,
    7-15=-135/909, 7-13=0/433, 8-13=-730/180, 8-12=-753/202, 9-12=-397/2465

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-11-6, Exterior(2R) 4-11-6 to 16-3-7, Interior(1) 16-3-7 to 19-8-9, Exterior(2R)
   19-8-9 to 33-3-7, Interior(1) 33-3-7 to 33-7-3, Exterior(2E) 33-7-3 to 37-10-8 zone; cantilever left and right exposed ; end vertical left and
   right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
    sheetrock be applied directly to the bottom chord.
11) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R03	HIP	1	1	**# 52244**
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:55 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-Esac2c3VWwrplSFrMsRPncx35SEwVoXAw3f5e7yePso
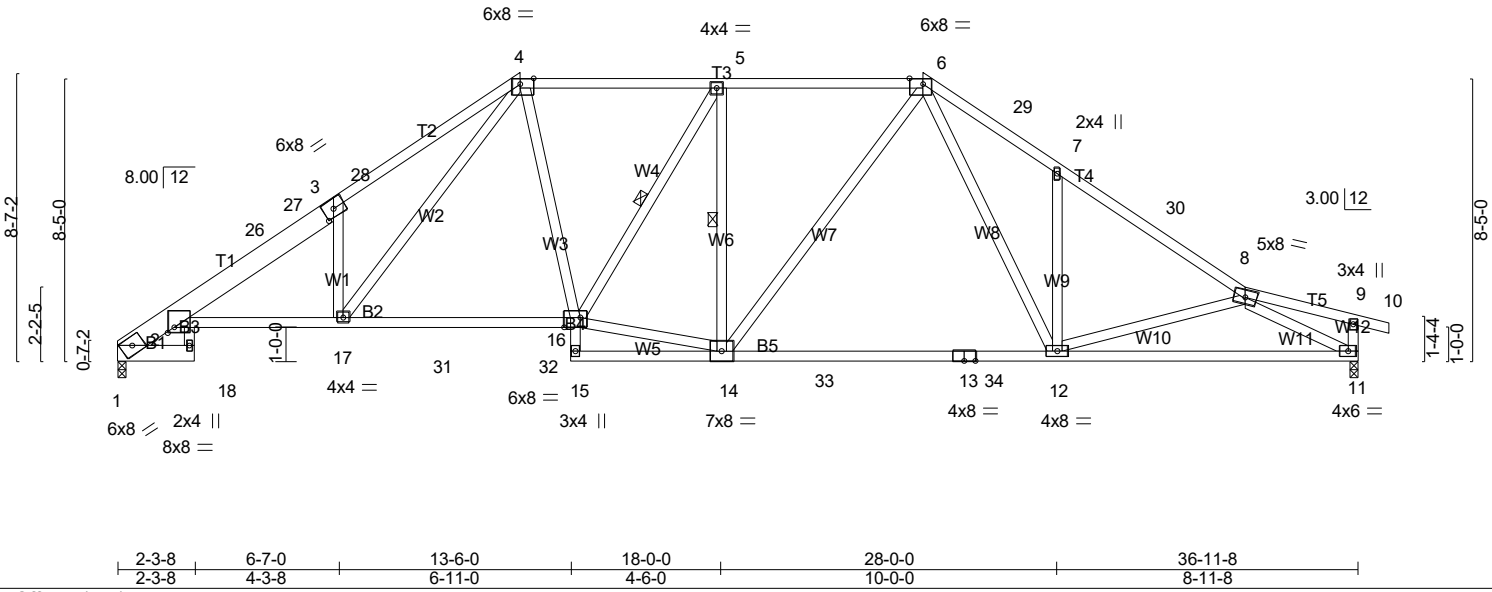
Scale = 1:68.6

Plate Offsets (X,Y)-- [2:0-2-6,0-2-0], [3:0-3-12,0-2-12], [4:0-4-13,Edge], [6:0-4-13,Edge], [16:0-5-12,Edge]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.53	12-14	>835	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-0.80	12-14	>554	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.92	Horz(CT)	0.24	11	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 245 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
 T1: 2x8 SP DSS
BOT CHORD 2x4 SP No.1 *Except*
 B1: 2x6 SP No.2, B3,B4: 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt 5-16, 5-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=1480/0-3-8 (min. 0-2-3), 11=1532/0-3-0 (min. 0-2-0)
 Max Horz 1=-164(LC 10)
 Max Uplift1=-63(LC 14), 11=-96(LC 15)
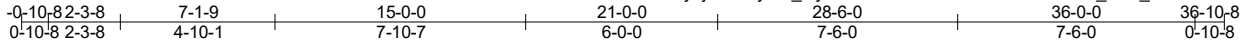 Max Grav 1=1844(LC 41), 11=1701(LC 41)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-21=-968/178, 2-26=-3159/476, 26-27=-3009/487, 27-28=-2984/489, 3-28=-2935/498,
 3-4=-3373/669, 4-5=-2010/455, 5-6=-2016/467, 6-29=-2533/577, 7-29=-2648/557,
 7-30=-2547/446, 8-30=-2687/430, 9-11=-302/73
BOT CHORD 2-17=-333/2709, 17-31=-166/1865, 31-32=-166/1865, 16-32=-166/1865, 14-33=-155/1692,
 13-33=-155/1692, 13-34=-155/1692, 12-34=-155/1692, 11-12=-405/2682
WEBS 3-17=-902/264, 4-17=-259/1383, 4-16=-55/644, 5-16=-74/270, 5-14=-735/163,
 6-14=-97/561, 6-12=-176/1110, 7-12=-550/203, 8-12=-598/181, 8-11=-2974/533,
 14-16=-147/2218

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-1-12 to 4-11-6, Exterior(2R) 4-11-6 to 30-9-7, Interior(1) 30-9-7 to 33-7-3, Exterior(2E) 33-7-3 to 37-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 11.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Trusses designed with 2018 IRC also comply with 2015 IRC.

9/11/2024

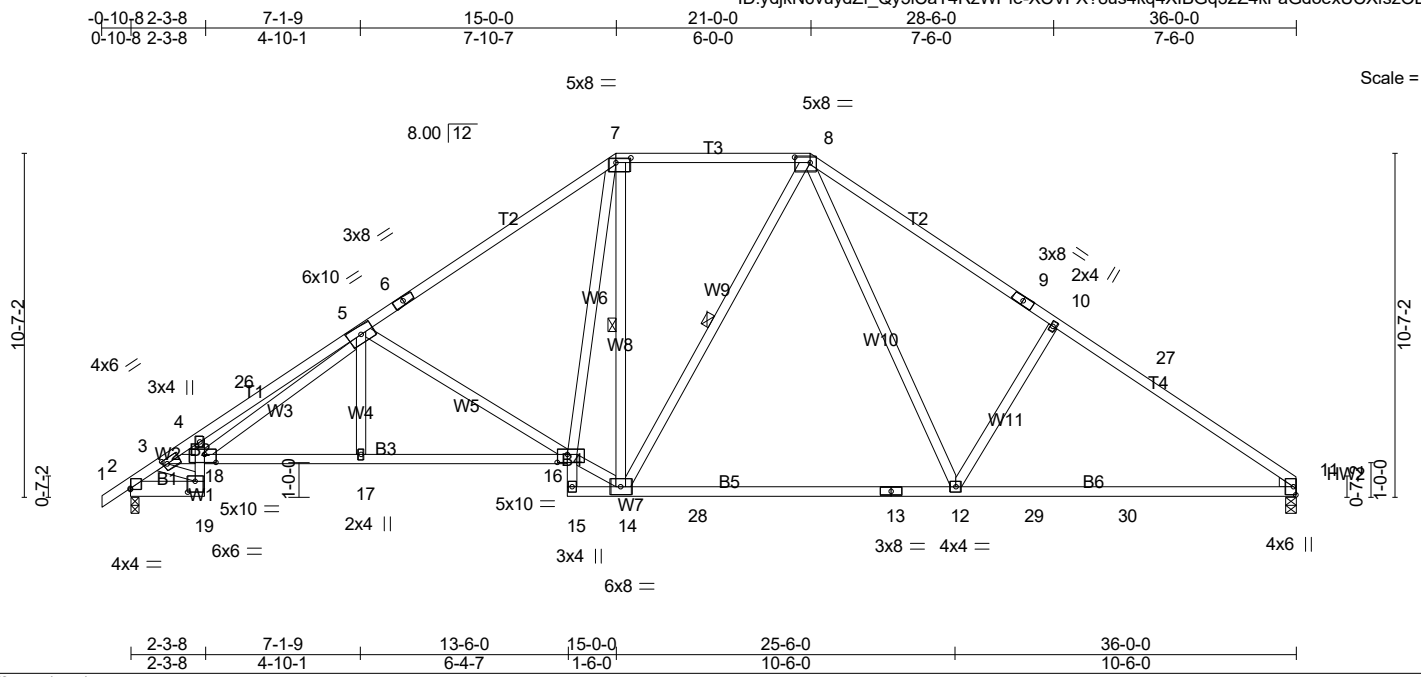| Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R04	HIP	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:35:58 2024 Page 1
ID:ydjkN6vuydZf_Qy5lCaT4RzWPfe-eRGlhe5OorDOcv_Q2?_6PEZaXfGri8vcc1ulFSyePsI

Scale = 1:72.3

Plate Offsets (X,Y)--	[2:0-0-0,0-0-7], [3:0-1-4,0-1-12], [7:0-4-13,Edge], [8:0-4-13,Edge], [17:0-3-12,0-3-0], [19:0-4-4,0-3-0], [20:0-2-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.45	13-15	>963	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.69	13-15	>625	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.95	Horz(CT)	0.23	11	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 226 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.1 *Except*
    B1: 2x6 SP No.2, B4: 2x4 SP No.2, B5: 2x4 SP SS
WEBS   2x4 SP No.3 *Except*
    W2: 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied.
BOT CHORD   Rigid ceiling directly applied.
WEBS   1 Row at midpt   7-15, 8-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)   2=1493/0-3-8 (min. 0-1-12), 11=1493/0-3-8 (min. 0-1-14)
   Max Horz 2=205(LC 11)
   Max Uplift2=-104(LC 12), 11=-104(LC 13)
   Max Grav 2=1493(LC 1), 11=1577(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2077/132, 3-4=-3983/347, 4-27=-4192/405, 5-27=-4080/425, 5-6=-1925/184,
    6-7=-1805/222, 7-8=-1355/232, 8-9=-1960/241, 9-10=-2072/205, 10-28=-2075/192,
    11-28=-2247/158
BOT CHORD   2-20=-198/1621, 19-20=-87/768, 18-19=-194/2283, 17-18=-194/2284, 16-17=-391/0,
    15-29=0/1330, 14-29=0/1330, 13-14=0/1330, 13-30=-64/1796, 30-31=-64/1796,
    11-31=-64/1796
WEBS   5-19=-250/1720, 5-18=0/324, 5-17=-856/220, 15-17=0/1710, 7-17=-97/1185, 7-15=-641/156,
    3-19=-301/2751, 3-20=-1166/146, 8-13=-106/857, 10-13=-395/228

NOTES-   (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-2-9, Exterior(2R) 8-2-9 to 27-9-7, Interior(1)
   27-9-7 to 32-0-14, Exterior(2E) 32-0-14 to 36-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=104,
   11=104.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
   sheetrock be applied directly to the bottom chord.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R04	HIP	1	1	# 52244

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R05	HIP	1	1	
					Job Reference (optional) # 52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:02 2024 Page 1
ID:ydjkN6vuydZf_Qy5lCaT4RzWPfe-XCVFX?8us4kq4XIBGq32Z4kFaGdoexUCXfszODyePsh

Scale = 1:71.2

Plate Offsets (X,Y)-- [2:0-0-0,0-0-7], [3:0-1-4,0-1-12], [7:0-5-8,0-1-12], [8:0-5-12,0-2-0], [16:0-3-12,0-3-0], [18:0-4-4,0-3-0], [19:0-2-12,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.45	12-14	>958	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.69	12-14	>623	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.23	11	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 225 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.1 *Except*
                      B1: 2x6 SP No.2, B4: 2x4 SP No.2, B5: 2x4 SP SS
WEBS   2x4 SP No.3 *Except*
                      W2: 2x4 SP No.2
WEDGE
Right: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied.
BOT CHORD   Rigid ceiling directly applied.
WEBS   1 Row at midpt   7-14, 8-14

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS.   (lb/size)   2=1493/0-3-8 (min. 0-1-12), 11=1439/0-3-8 (min. 0-1-13)
Max Horz 2=203(LC 9)
Max Uplift 2=-104(LC 12), 11=-89(LC 13)
Max Grav 2=1493(LC 1), 11=1529(LC 21)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2078/133, 3-4=-3980/355, 4-26=-4179/412, 5-26=-4067/432, 5-6=-1921/188,
                      6-7=-1802/227, 7-8=-1342/235, 8-9=-1968/250, 9-10=-2080/212, 10-27=-2081/199,
                      11-27=-2253/165
BOT CHORD   2-19=-206/1619, 18-19=-92/768, 17-18=-205/2284, 16-17=-205/2284, 15-16=-393/0,
                      14-28=-1/1318, 13-28=-1/1318, 12-13=-1/1318, 12-29=-92/1803, 29-30=-92/1803,
                      11-30=-92/1803
WEBS   5-18=-255/1703, 5-17=0/323, 5-16=-880/225, 14-16=0/1690, 7-16=-104/1188,
                      7-14=-633/161, 3-18=-315/2746, 3-19=-1167/153, 8-12=-110/881, 10-12=-421/232

NOTES-   (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-2-9, Exterior(2R) 8-2-9 to 27-9-7, Interior(1)
   27-9-7 to 31-2-6, Exterior(2E) 31-2-6 to 36-0-0 zone; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 11 except (jt=lb)
   2=104.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
   sheetrock be applied directly to the bottom chord.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R05	HIP	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:02 2024 Page 2
ID:ydjkN6vuydZf_Qy5lCaT4RzWPfe-XCVFX?8us4kq4XIBGq32Z4kFaGdoexUCXfszODyePsh

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R06	Piggyback Base	1	1	# 52244

Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:06 2024 Page 1
ID:ydjkN6vuydZf_Qy5lCaT4RzWPfe-P_kmMNCPwIEFZ8byVg7_kwvxru?tanfnSHqBX_yePsd

Scale = 1:77.8

8.00 [12]
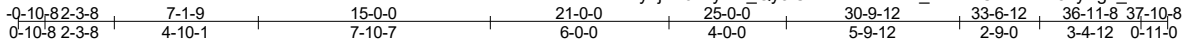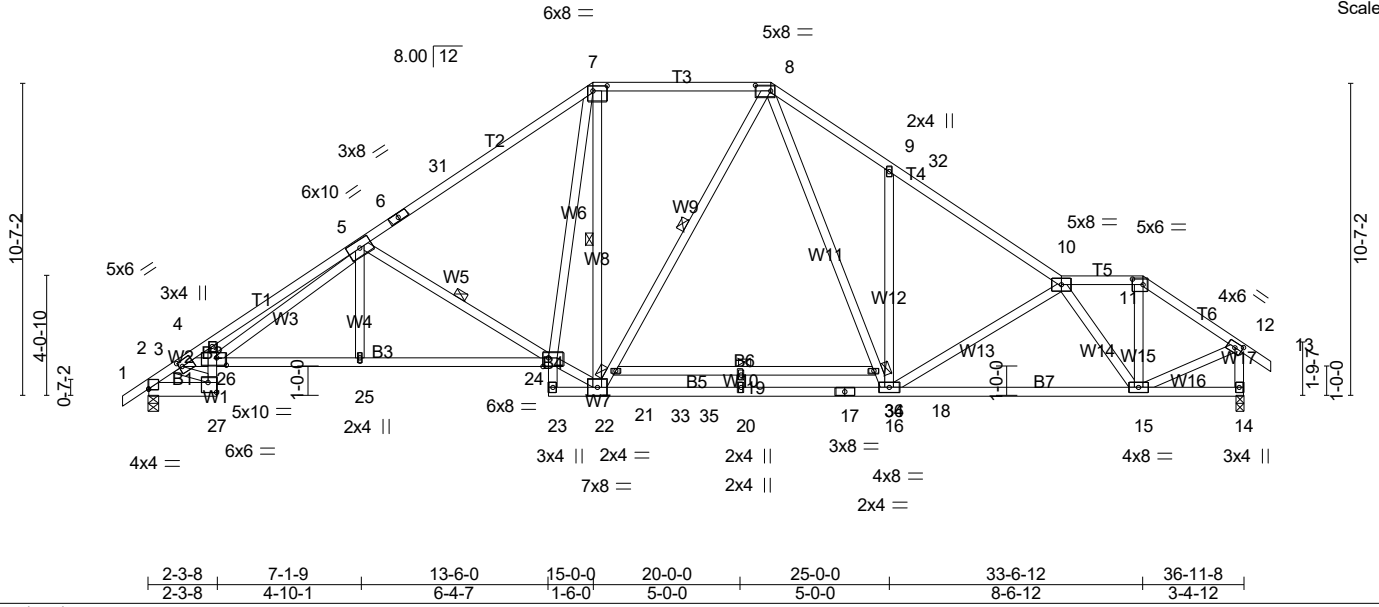
Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [3:0-1-4,0-2-4], [7:0-5-12,0-2-0], [8:0-6-4,0-2-4], [11:0-4-4,0-2-4], [12:0-2-14,0-2-0], [24:0-2-4,Edge], [26:0-4-0,0-3-0], [27:Edge,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.59	16-20	>749	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.94	Vert(CT)	-0.93	16-20	>474	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.83	Horz(CT)	0.25	14	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 273 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
  T1: 2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except*
  B1: 2x6 SP No.2, B4: 2x4 SP No.2, B5: 2x4 SP SS
WEBS 2x4 SP No.3 *Except*
  W2: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
  6-0-0 oc bracing: 18-21
WEBS 1 Row at midpt 5-24, 7-22, 8-21

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1607/0-3-8 (min. 0-1-15), 14=1635/0-3-0 (min. 0-2-0)
  Max Horz 2=227(LC 11)
  Max Uplift2=-63(LC 12), 14=-65(LC 13)
  Max Grav 2=1635(LC 20), 14=1704(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2292/104, 3-4=-4513/228, 4-5=-4736/296, 5-6=-2270/129, 6-31=-2185/142,
  7-31=-2150/169, 7-8=-1619/190, 8-9=-2444/250, 9-32=-2305/141, 10-32=-2450/124,
  10-11=-1376/102, 11-12=-1675/104, 12-14=-1653/109
BOT CHORD 2-27=-151/1802, 26-27=-67/874, 25-26=-121/2608, 24-25=-121/2609, 23-24=-520/0,
  22-33=0/1571, 20-33=0/1571, 20-34=0/1571, 17-34=0/1571, 16-17=0/1571, 15-16=-29/2295
WEBS 5-25=0/329, 5-24=-916/216, 22-24=0/2045, 7-24=-74/1265, 7-22=-588/185, 8-18=-140/1191,
  16-18=-179/1057, 9-16=-356/193, 10-16=-453/146, 10-15=-1616/97, 11-15=-20/785,
  12-15=0/1433, 5-26=-204/1894, 3-26=-224/3132, 3-27=-1323/115

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 10-2-6, Exterior(2R) 10-2-6 to 25-9-10, Interior(1) 25-9-10 to 30-9-12, Exterior(2R) 30-9-12 to 33-6-12, Exterior(2E) 33-6-12 to 37-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

NORTH CAROLINA
PROFESSIONAL
SEAL
28147
ENGINEER
MARK K. MORRIS

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R07	Piggyback Base	1	1	# 52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:09 2024 Page 1
ID:ydjkN6vuydZf_Qy5lCaT4RzWPfe-pYQv?OEHDDcqQcKXBohhLZXSk51vn6GE8E2r8JyePsa
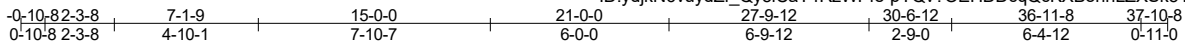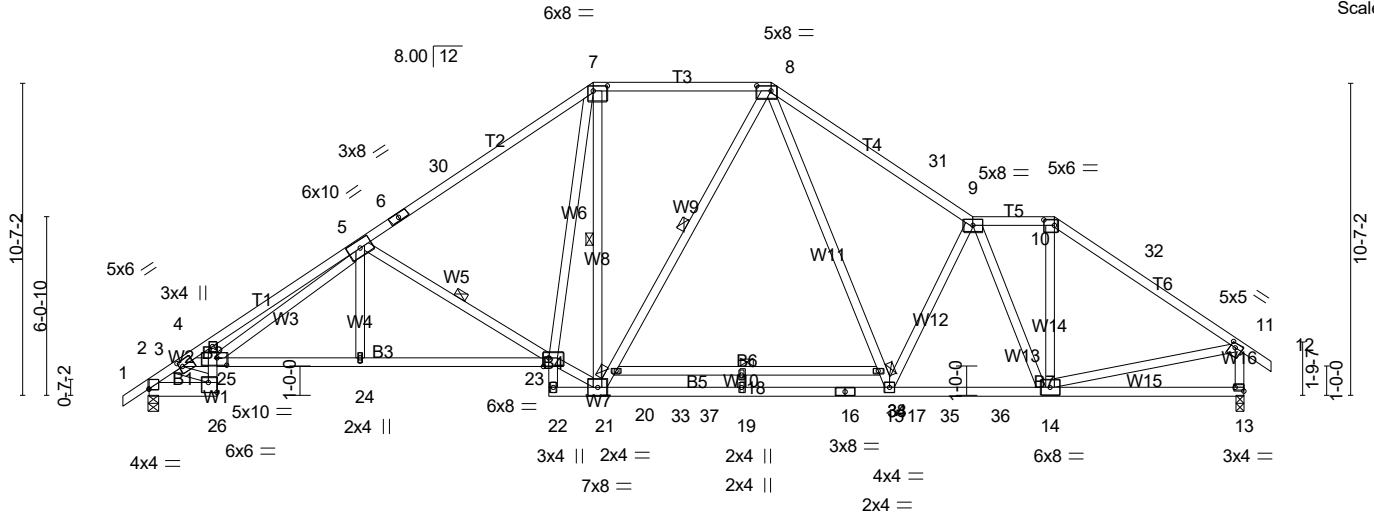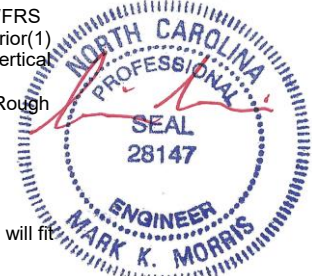
Scale = 1:77.8

Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [3:0-1-4,0-2-4], [7:0-5-12,0-2-0], [8:0-5-12,0-2-0], [10:0-4-4,0-2-4], [11:0-2-0,0-1-12], [13:Edge,0-1-8], [23:0-2-4,Edge], [25:0-4-0,0-3-0], [26:Edge,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.80	Vert(LL)	-0.57	17-18	>778	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.86	Vert(CT)	-0.92	15-19	>481	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.97	Horz(CT)	0.24	13	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 271 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
  T1: 2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except*
  B1: 2x6 SP No.2, B4: 2x4 SP No.2, B5,B7: 2x4 SP SS
WEBS 2x4 SP No.3 *Except*
  W2: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
  6-0-0 oc bracing: 17-20
WEBS 1 Row at midpt 5-23, 7-21, 8-20

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1608/0-3-8 (min. 0-1-15), 13=1637/0-3-0 (min. 0-2-1)
  Max Horz 2=227(LC 11)
  Max Uplift2=-63(LC 12), 13=-64(LC 13)
  Max Grav 2=1658(LC 20), 13=1768(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2326/109, 3-4=-4578/227, 4-5=-4803/293, 5-6=-2314/135, 6-30=-2229/148,
  7-30=-2194/174, 7-8=-1652/194, 8-31=-2424/208, 9-31=-2512/182, 9-10=-1694/154,
  10-32=-1975/139, 11-32=-2079/124, 11-13=-1686/142
BOT CHORD 2-26=-151/1827, 25-26=-67/885, 24-25=-121/2650, 23-24=-121/2650, 22-23=-516/0,
  21-33=0/1702, 19-33=0/1702, 19-34=0/1702, 16-34=0/1702, 15-16=0/1702, 15-35=0/2201,
  35-36=0/2201, 14-36=0/2201
WEBS 5-24=0/329, 5-23=-922/217, 21-23=0/2081, 7-23=-77/1262, 7-21=-580/192, 8-17=-52/1087,
  15-17=-87/923, 9-15=-498/198, 9-14=-1299/46, 10-14=-2/898, 11-14=0/1531,
  5-25=-203/1913, 3-25=-223/3175, 3-26=-1341/115

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 10-2-6, Exterior(2R) 10-2-6 to 25-9-10, Interior(1) 25-9-10 to 27-9-12, Exterior(2R) 27-9-12 to 33-0-14, Exterior(2E) 33-0-14 to 37-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

Continued on page 2

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R07	Piggyback Base	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:10 2024 Page 2
ID:ydjkN6vuydZf_Qy5lCaT4RzWPfe-Il_HCkFw_Xkh2lvjkWCwum3dUVN8WZWNNuoOgmyePsZ

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R08	Piggyback Base	1	1	# 52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:13 2024 Page 1
ID:ydjkN6vuydZf_Qy5lCaT4RzWPfe-iKgPqmHoGS6GvDdlQeldWPh8SiPhjy1p3s02H4yePsW
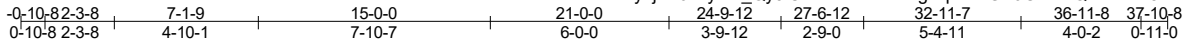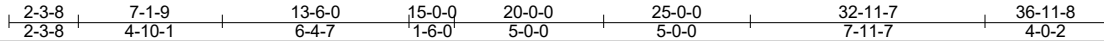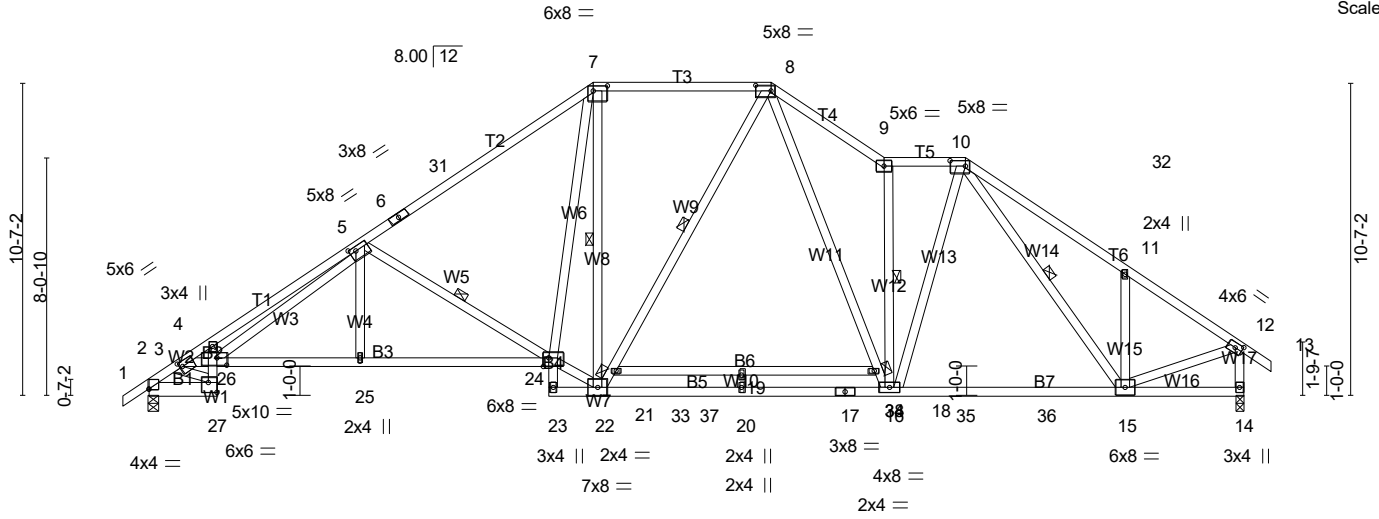
Scale = 1:77.8

Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [3:0-1-4,0-2-0], [5:0-2-10,0-1-12], [7:0-5-12,0-2-0], [8:0-6-4,0-2-4], [10:0-6-4,0-2-4], [12:0-2-14,0-2-0], [24:0-2-4,Edge], [26:0-4-0,0-3-0], [27:Edge,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.81	Vert(LL)	-0.54	16-20	>813	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.87	Vert(CT)	-0.88	16-20	>503	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.25	14	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 283 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
    T1: 2x4 SP No.1
BOT CHORD 2x4 SP No.1 *Except*
    B1: 2x6 SP No.2, B4: 2x4 SP No.2, B5,B7: 2x4 SP SS
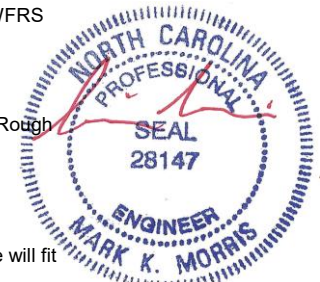WEBS 2x4 SP No.3 *Except*
    W2: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.
WEBS 1 Row at midpt   5-24, 7-22, 8-21, 9-16, 10-15

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1607/0-3-8 (min. 0-2-0), 14=1635/0-3-0 (min. 0-2-3)
    Max Horz 2=227(LC 11)
    Max Uplift2=-63(LC 12), 14=-65(LC 13)
    Max Grav 2=1674(LC 20), 14=1832(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2350/99, 3-4=-4624/228, 4-5=-4852/295, 5-6=-2345/123, 6-31=-2260/136,
    7-31=-2225/163, 7-8=-1673/185, 8-9=-2539/238, 9-10=-2060/158, 10-32=-1895/227,
    11-32=-1968/200, 11-12=-1947/120, 12-14=-1806/119
BOT CHORD   2-27=-151/1844, 26-27=-67/893, 25-26=-121/2678, 24-25=-121/2679, 23-24=-493/0,
    22-33=0/1648, 20-33=0/1648, 20-34=0/1648, 17-34=0/1648, 16-17=0/1648, 16-35=0/1723,
    35-36=0/1723, 15-36=0/1723
WEBS   5-25=0/329, 5-24=-925/217, 22-24=0/2099, 7-24=-74/1265, 7-22=-585/185, 8-18=-116/1228,
    16-18=-154/1104, 5-26=-204/1929, 3-26=-224/3206, 3-27=-1353/115, 9-16=-1470/160,
    10-16=0/1074, 11-15=-303/176, 10-15=-326/75, 12-15=-21/1658

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 10-2-6, Exterior(2R) 10-2-6 to 21-0-0, Exterior(2E) 21-0-0 to 24-9-12, Exterior(2R) 24-9-12 to 32-4-6, Interior(1) 32-4-6 to 32-11-6, Exterior(2E) 32-11-6 to 37-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.0; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 14.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum wallboard be applied directly to the bottom chord.

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R08	Piggyback Base	1	1	Job Reference (optional) # *52244*

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:14 2024 Page 2
ID:ydjkN6vuydZf_Qy5lCaT4RzWPfe-AWDo26IQ1mE7WNCVzMGs2cEJC6lwSPHzHWmcpXyePsV
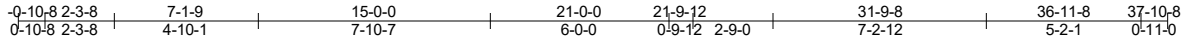
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R09	Piggyback Base	1	1	# 52244

Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:17 2024 Page 1
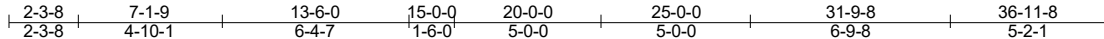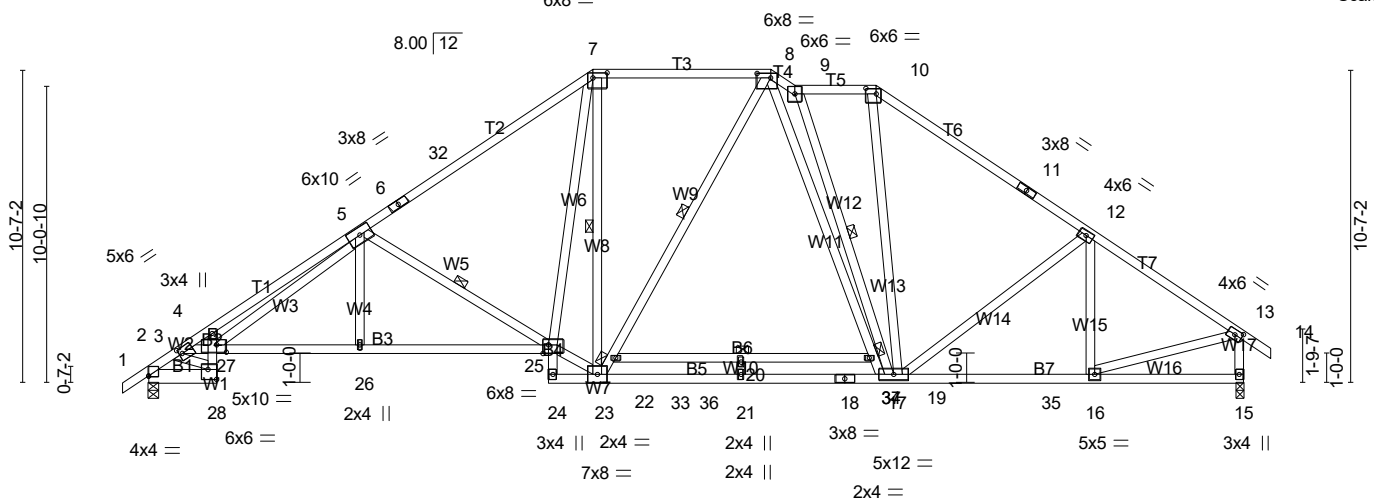ID:ydjkN6vuydZf_Qy5lCaT4RzWPfe-a5vwg7KJKhdiNqx4fUqZgFsp1JlEflLP_U_GQsyePsS

Scale = 1:77.8

Plate Offsets (X,Y)-- [2:0-0-0,0-0-3], [3:0-1-4,0-2-4], [7:0-5-12,0-2-0], [8:0-5-8,0-1-12], [10:0-4-4,0-2-4], [13:0-2-14,0-2-0], [25:0-2-4,Edge], [27:0-4-0,0-3-0], [28:Edge,0-4-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.78	Vert(LL)	-0.57	17-21	>777	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.95	Vert(CT)	-0.91	17-21	>488	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.84	Horz(CT)	0.24	15	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 290 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T1: 2x4 SP No.1
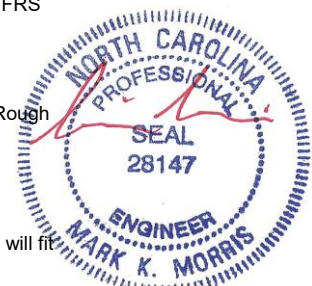BOT CHORD 2x4 SP No.1 *Except*
B1: 2x6 SP No.2, B4: 2x4 SP No.2, B5: 2x4 SP SS
WEBS 2x4 SP No.3 *Except*
W2: 2x4 SP No.2

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
6-0-0 oc bracing: 19-22
WEBS 1 Row at midpt 5-25, 7-23, 8-22, 9-17

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1606/0-3-8 (min. 0-1-15), 15=1633/0-3-0 (min. 0-2-1)
Max Horz 2=227(LC 11)
Max Uplift2=-64(LC 12), 15=-38(LC 13)
Max Grav 2=1639(LC 20), 15=1753(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2300/107, 3-4=-4513/229, 4-5=-4733/297, 5-6=-2282/132, 6-32=-2196/145,
7-32=-2161/172, 7-8=-1626/192, 8-9=-1840/202, 9-10=-1570/191, 10-11=-1939/166,
11-12=-2038/138, 12-13=-1963/132, 13-15=-1687/127
BOT CHORD 2-28=-152/1799, 27-28=-68/872, 26-27=-122/2606, 25-26=-122/2606, 24-25=-508/0,
23-33=0/1585, 21-33=0/1585, 21-34=0/1585, 18-34=0/1585, 17-18=0/1585, 17-35=0/1585,
16-35=0/1585
WEBS 5-26=0/329, 5-25=-919/216, 23-25=0/2036, 7-25=-75/1264, 7-23=-563/185, 8-19=-39/502,
17-19=-81/377, 5-27=-205/1885, 3-27=-225/3125, 3-28=-1320/115, 9-17=-643/37,
10-17=0/725, 12-16=-368/58, 13-16=-27/1586

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
(envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 10-2-6, Exterior(2R) 10-2-6 to 21-0-0,
Exterior(2E) 21-0-0 to 21-9-12, Exterior(2R) 21-9-12 to 29-4-6, Interior(1) 29-4-6 to 33-0-14, Exterior(2E) 33-0-14 to 37-10-8 zone;
cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 15.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
sheetrock be applied directly to the bottom chord.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

9/11/2024

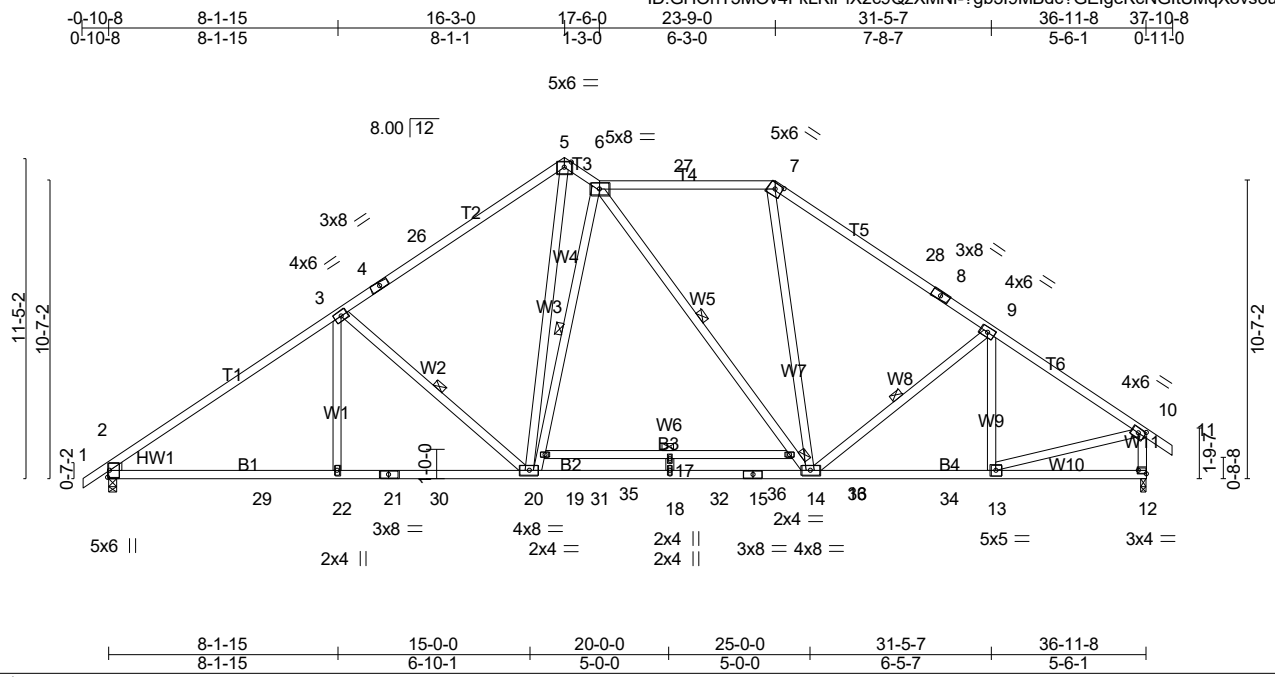| Job | Truss | Truss Type | Qty | Ply | LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC |
|-----|-------|-----------|-----|-----|---|
| 24-7625-R01 | R09 | Piggyback Base | 1 | 1 | |
| | | | | | Job Reference (optional)   # *52244* |

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:17 2024 Page 2
ID:ydjkN6vuydZf_Qy5lCaT4RzWPfe-a5vwg7KJKhdiNqx4fUqZgFsp1JlEflLP_U_GQsyePsS

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R10	Roof Special	1	1	# *52244*

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:20 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNl-?gb3I9MBdc?GElgeKcNGltUMqXovs8urgSDw0AyePsP

Scale = 1:82.0

Plate Offsets (X,Y)-- [7:0-3-0,0-2-3], [10:0-2-14,0-2-0], [12:Edge,0-1-8]

LOADING (psf)	SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.62	17-19	>718	240	MT20	244/190
Snow (Pf) 20.0	Lumber DOL	1.15	BC	0.89	Vert(CT)	-0.93	17-19	>473	180		
TCDL 10.0	Rep Stress Incr	YES	WB	0.72	Horz(CT)	0.09	12	n/a	n/a		
BCLL 0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 252 lb	FT = 20%
BCDL 10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP SS *Except*
    B1: 2x4 SP No.2
WEBS 2x4 SP No.3 *Except*
    W4: 2x4 SP No.1
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
    6-0-0 oc bracing: 16-19
WEBS 1 Row at midpt 6-20, 6-16, 3-20, 9-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1608/0-3-8 (min. 0-2-4), 12=1634/0-3-0 (min. 0-2-2)
    Max Horz 2=243(LC 11)
    Max Uplift2=-69(LC 12), 12=-94(LC 13)
    Max Grav 2=1891(LC 20), 12=1798(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2764/130, 3-4=-2206/126, 4-26=-2115/140, 5-26=-2091/166, 5-6=-1762/176,
    6-27=-1564/191, 7-27=-1564/191, 7-28=-1992/157, 8-28=-2019/130, 8-9=-2099/118,
    9-10=-2051/123, 10-12=-1727/119
BOT CHORD 2-29=-106/2357, 22-29=-106/2357, 21-22=-106/2357, 21-30=-106/2357, 20-30=-106/2357,
    20-31=0/1992, 18-31=0/1992, 18-32=0/1992, 15-32=0/1992, 15-33=0/1992, 14-33=0/1992,
    14-34=-38/1655, 13-34=-38/1655
WEBS 5-20=-64/1737, 19-20=-1044/128, 6-19=-805/168, 6-16=-347/97, 14-16=-581/52,
    7-14=0/765, 9-13=-356/57, 10-13=-27/1638, 3-20=-679/221, 3-22=0/324

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 16-3-0, Exterior(2E) 16-3-0 to 17-6-0, Interior(1) 17-6-0 to 18-11-6, Exterior(2R) 18-11-6 to 28-6-10, Interior(1) 28-6-10 to 33-0-14, Exterior(2E) 33-0-14 to 37-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 12.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R10	Roof Special	1	1	Job Reference (optional) # *52244*

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:20 2024 Page 2
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-?gb3I9MBdc?GEIgeKcNGItUMqXovs8urgSDw0AyePsP
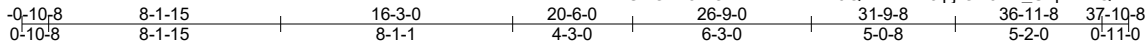
LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R11	Roof Special	1	1	# 52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:22 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-x3ipjrOR9DF_Ubp1R1QkNIZi4KSNK_487mi153yePsN
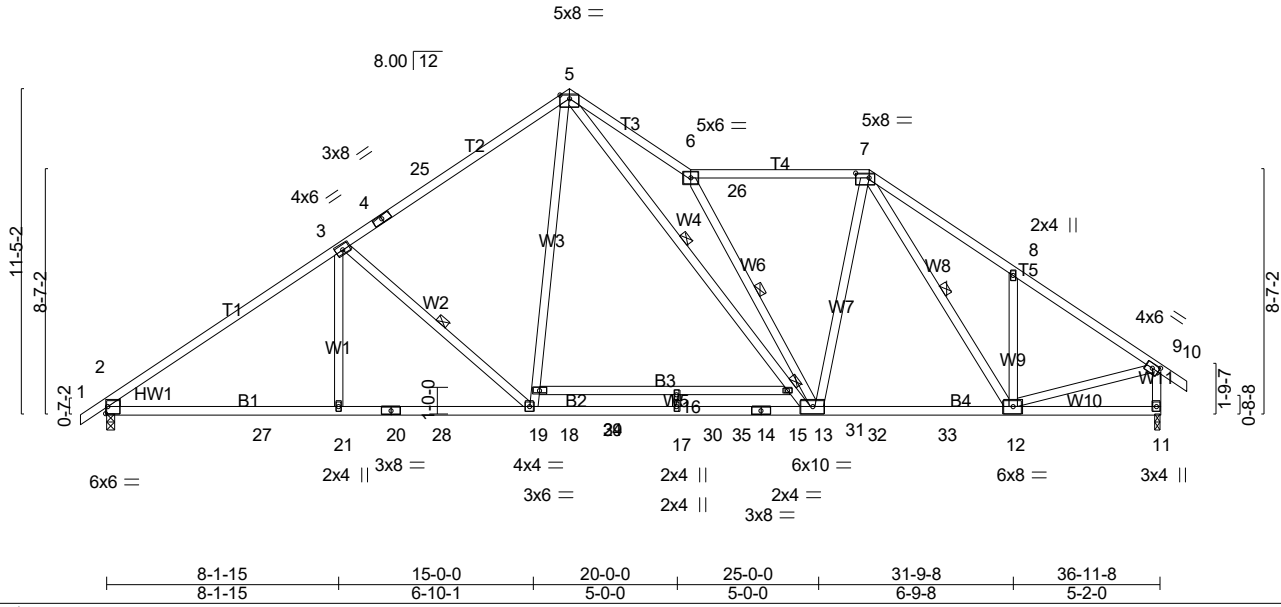
Scale = 1:80.7

Plate Offsets (X,Y)-- [7:0-5-12,0-2-0], [9:0-2-14,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.69	Vert(LL)	-0.62	16-18	>712	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.96	Vert(CT)	-0.99	16-18	>448	180		
TCDL	10.0	Rep Stress Incr	YES	WB	1.00	Horz(CT)	0.08	11	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 251 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP SS *Except*
            B1: 2x4 SP No.2, B4: 2x4 SP No.1
WEBS   2x4 SP No.3 *Except*
            W3,W6,W4: 2x4 SP No.1
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.
WEBS   1 Row at midpt   6-13, 7-12, 3-19, 5-15

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size) 2=1609/0-3-8 (min. 0-2-5), 11=1632/0-3-0 (min. 0-2-3)
            Max Horz 2=243(LC 11)
            Max Uplift2=-68(LC 12), 11=-94(LC 13)
            Max Grav 2=1938(LC 20), 11=1853(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2845/122, 3-4=-2289/117, 4-25=-2197/130, 5-25=-2174/157, 5-6=-3807/415,
            6-26=-1953/151, 7-26=-1953/151, 7-8=-2096/233, 8-9=-2105/123, 9-11=-1805/124
BOT CHORD   2-27=-105/2425, 21-27=-105/2425, 20-21=-105/2425, 20-28=-105/2425, 19-28=-105/2425,
            19-29=0/1403, 17-29=0/1403, 17-30=0/1403, 14-30=0/1403, 14-31=0/1403, 13-31=0/1403,
            13-32=0/1775, 32-33=0/1775, 12-33=0/1775, 18-34=-107/442, 16-34=-107/442,
            16-35=-107/442, 15-35=-107/442
WEBS   18-19=-40/924, 5-18=-1/1099, 6-13=-2563/360, 7-13=0/989, 8-12=-312/179, 3-19=-679/223,
            9-12=-2/1681, 3-21=0/322, 5-15=-382/2383, 13-15=-475/2566

NOTES-   (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 16-3-0,
   Exterior(2E) 16-3-0 to 20-6-0, Interior(1) 20-6-0 to 21-11-6, Exterior(2R) 21-11-6 to 31-9-8, Interior(1) 31-9-8 to 33-0-14, Exterior(2E)
   33-0-14 to 37-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for
   reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
   sheetrock be applied directly to the bottom chord.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

Continued on page 2

9/11/2024

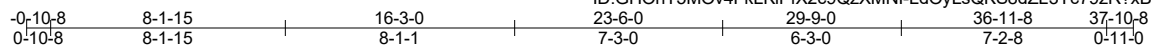| Job | Truss | Truss Type | Qty | Ply | LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC |
|-----|-------|-----------|-----|-----|--|
| 24-7625-R01 | R11 | Roof Special | 1 | 1 | |
| | | | | | Job Reference (optional)   **# 52244** |

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:22 2024 Page 2
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-x3ipjrOR9DF_Ubp1R1QkNIZi4KSNK_487mi153yePsN

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R12	Roof Special	1	1	# 52244

Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:25 2024 Page 1
ID:GHOhT5MOv4FkLKlPfXZc9QzXMNI-LdOyLsQKS8dZL3Yc79zR?xBAwYTtXPxapkwhiOyePsK

Scale = 1:80.7

Plate Offsets (X,Y)-- [7:0-5-12,0-2-0], [8:0-3-0,0-1-12], [10:Edge,0-1-8]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.85	Vert(LL)	-0.68	15-17	>649	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.97	Vert(CT)	-1.07	15-17	>412	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.73	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 237 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
T3: 2x4 SP SS
BOT CHORD 2x4 SP SS *Except*
B1: 2x4 SP No.2, B4: 2x4 SP No.1
WEBS 2x4 SP No.3 *Except*
W4: 2x4 SP No.2
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
6-0-0 oc bracing: 14-17
WEBS 1 Row at midpt 6-12, 3-18, 5-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1611/0-3-8 (min. 0-2-4), 10=1637/0-3-0 (min. 0-2-2)
Max Horz 2=243(LC 11)
Max Uplift2=-67(LC 12), 10=-92(LC 13)
Max Grav 2=1928(LC 20), 10=1818(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2826/136, 3-4=-2274/131, 4-24=-2183/145, 5-24=-2159/172, 5-25=-3705/341,
6-25=-3795/315, 6-26=-2515/140, 7-26=-2515/140, 7-27=-2063/132, 8-27=-2168/113,
8-10=-1736/137
BOT CHORD 2-28=-104/2409, 20-28=-104/2409, 19-20=-104/2409, 19-29=-104/2409, 18-29=-104/2409,
18-30=0/1730, 16-30=0/1730, 16-31=0/1730, 13-31=0/1730, 13-32=0/1730, 12-32=0/1730,
12-33=0/1721, 11-33=0/1721
WEBS 17-18=-36/916, 5-17=0/1125, 6-12=-2426/311, 7-12=0/1356, 3-18=-675/222, 8-11=0/1592,
5-14=-283/2280, 12-14=-328/2201, 3-20=0/312

NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1) 21-0-10 to 24-11-6, Exterior(2R) 24-11-6 to 33-0-14, Exterior(2E) 33-0-14 to 37-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

9/11/2024

Continued on page 2

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 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R12	Roof Special	1	1	Job Reference (optional) # 52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:25 2024 Page 2
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNl-LdOyLsQKS8dZL3Yc79zR?xBAwYTtXPxapkwhiOyePsK

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R13	Roof Special	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:28 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-mC44_uTCk3?8CWHBoIW8dZpiHlU1kjQ1Vi9LJjyePsH

Scale = 1:82.0

8.00 ⌐12
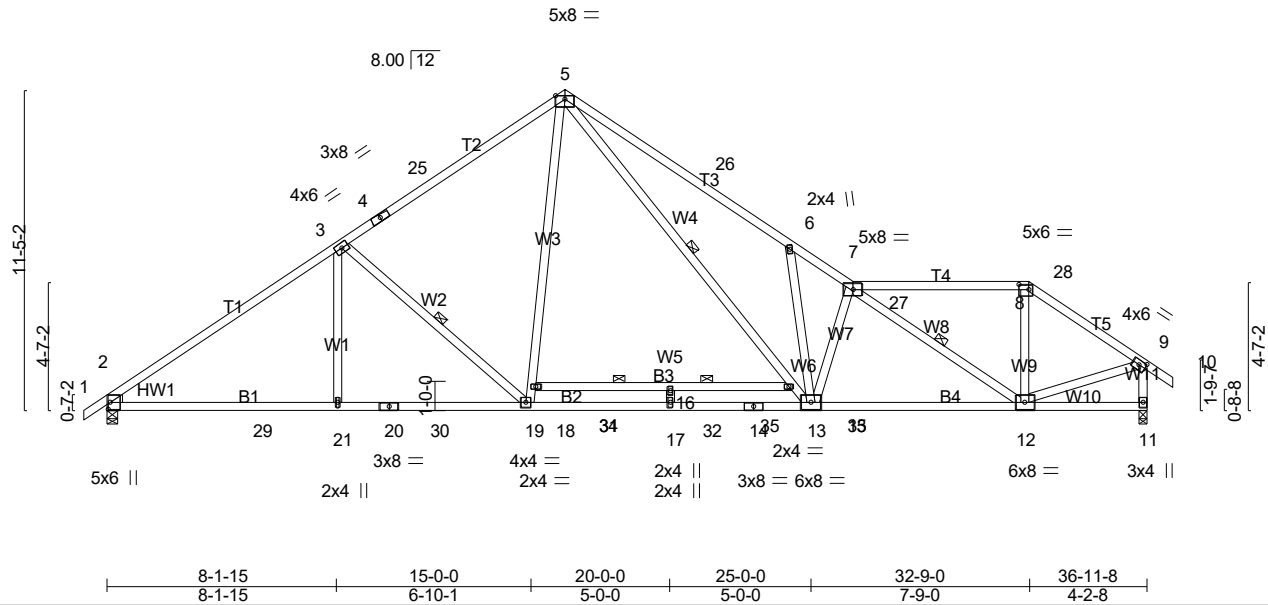
Plate Offsets (X,Y)-- [8:0-4-4,0-2-4], [9:0-2-14,0-2-0]

LOADING (psf)				SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0			Plate Grip DOL	1.15	TC	0.77	Vert(LL)	-0.73	16-18	>606	240	MT20	244/190
Snow (Pf)	20.0			Lumber DOL	1.15	BC	1.00	Vert(CT)	-1.13	16-18	>390	180		
TCDL	10.0			Rep Stress Incr	YES	WB	0.94	Horz(CT)	0.11	11	n/a	n/a		
BCLL	0.0	*		Code IRC2021/TPI2014		Matrix-AS							Weight: 235 lb	FT = 20%
BCDL	10.0													

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
          T3: 2x4 SP SS
BOT CHORD 2x4 SP No.1 *Except*
          B1: 2x4 SP No.2, B2: 2x4 SP SS
WEBS   2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied. Except:
          3-1-0 oc bracing: 15-18
WEBS   1 Row at midpt   3-19, 5-13, 7-12

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

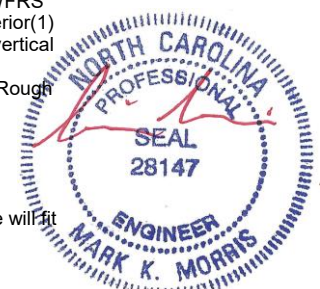REACTIONS. (lb/size) 2=1611/0-3-8 (min. 0-2-4), 11=1637/0-3-0 (min. 0-2-1)
          Max Horz 2=243(LC 11)
          Max Uplift2=-67(LC 12), 11=-92(LC 13)
          Max Grav 2=1910(LC 20), 11=1752(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2794/126, 3-4=-2245/121, 4-25=-2154/135, 5-25=-2130/162, 5-26=-3611/308,
           6-26=-3716/282, 6-7=-3538/128, 7-27=-1564/114, 8-27=-1564/114, 8-28=-1764/109,
           9-28=-1878/108, 9-11=-1691/112
BOT CHORD   2-29=-104/2383, 21-29=-104/2383, 20-21=-104/2383, 20-30=-104/2383, 19-30=-104/2383,
           19-31=0/1721, 17-31=0/1721, 17-32=0/1721, 14-32=0/1721, 14-33=0/1721, 13-33=0/1721,
           12-13=-19/3255
WEBS   18-19=-35/925, 5-18=0/1129, 3-19=-673/222, 9-12=-15/1555, 5-15=-273/2228,
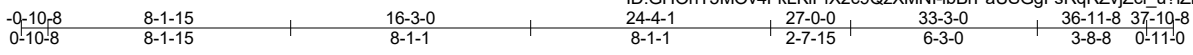   13-15=-315/2144, 8-12=0/756, 7-13=-926/101, 7-12=-2096/24, 3-21=0/308, 6-13=-496/266

NOTES-   (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1)
   21-0-10 to 27-11-6, Exterior(2R) 27-11-6 to 33-0-14, Exterior(2E) 33-0-14 to 37-10-8 zone; cantilever left and right exposed ; end vertical
   left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 11.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
   sheetrock be applied directly to the bottom chord.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

9/11/2024

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R14	Roof Special Girder	1	1	**# 52244**

Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:30 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-ibBrPaUSGgFsRqRZvjZci_u?iZBvCi4Jz0eSNbyePsF

Scale = 1:77.5

Plate Offsets (X,Y)-- [8:0-4-4,0-2-4], [9:0-2-14,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.97	Vert(LL)	-0.20	14-15	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.37	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.61	Horz(CT)	0.11	11	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MSH							Weight: 214 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2 *Except*
                    T2: 2x4 SP No.1, T3: 2x4 SP SS
BOT CHORD 2x4 SP No.2 *Except*
                    B2: 2x4 SP No.1
WEBS   2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing,   Except:
                    6-0-0 oc bracing: 11-12.
WEBS   1 Row at midpt   3-15, 6-15, 7-12

> MiTek recommends that Stabilizers and required cross bracing
> be installed during truss erection, in accordance with Stabilizer
> Installation guide.

REACTIONS. (lb/size)   2=1525/0-3-8 (min. 0-1-15), 11=1535/0-3-0 (min. 0-1-13)
            Max Horz 2=243(LC 9)
            Max Uplift2=-120(LC 10), 11=-223(LC 11)
            Max Grav 2=1626(LC 42), 11=1535(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2334/169, 3-4=-1631/182, 4-5=-1515/222, 5-6=-1657/207, 6-7=-2643/264,
            7-8=-1271/218, 8-9=-1561/228, 9-11=-1522/226
BOT CHORD   2-21=-176/2002, 17-21=-176/2002, 16-17=-176/2002, 16-22=-176/2002, 15-22=-176/2002,
            15-23=-140/2247, 14-23=-140/2247, 13-14=-228/2690, 12-13=-228/2690
WEBS   3-17=0/445, 3-15=-806/213, 5-15=-99/1300, 6-15=-1232/271, 6-14=-43/947, 7-14=-849/157,
            7-12=-1720/137, 8-12=0/567, 9-12=-134/1345

NOTES-   (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=120,
   11=223.
9) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
10) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
11) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R14	Roof Special Girder	1	1	
					Job Reference (optional) # 52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:30 2024 Page 2
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-ibBrPaUSGgFsRqRZvjZci_u?iZBvCi4Jz0eSNbyePsF

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
    Uniform Loads (plf)
        Vert: 1-5=-60, 5-7=-60, 7-8=-60, 8-9=-60, 9-10=-60, 11-18=-20
   Concentrated Loads (lb)
        Vert: 12=2(B)

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R15	Roof Special	1	1	**# 52244**
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:31 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-AnlDcwV51_Oi3_0mTQ4rECRFizavxBhTCgO?v2yePsE
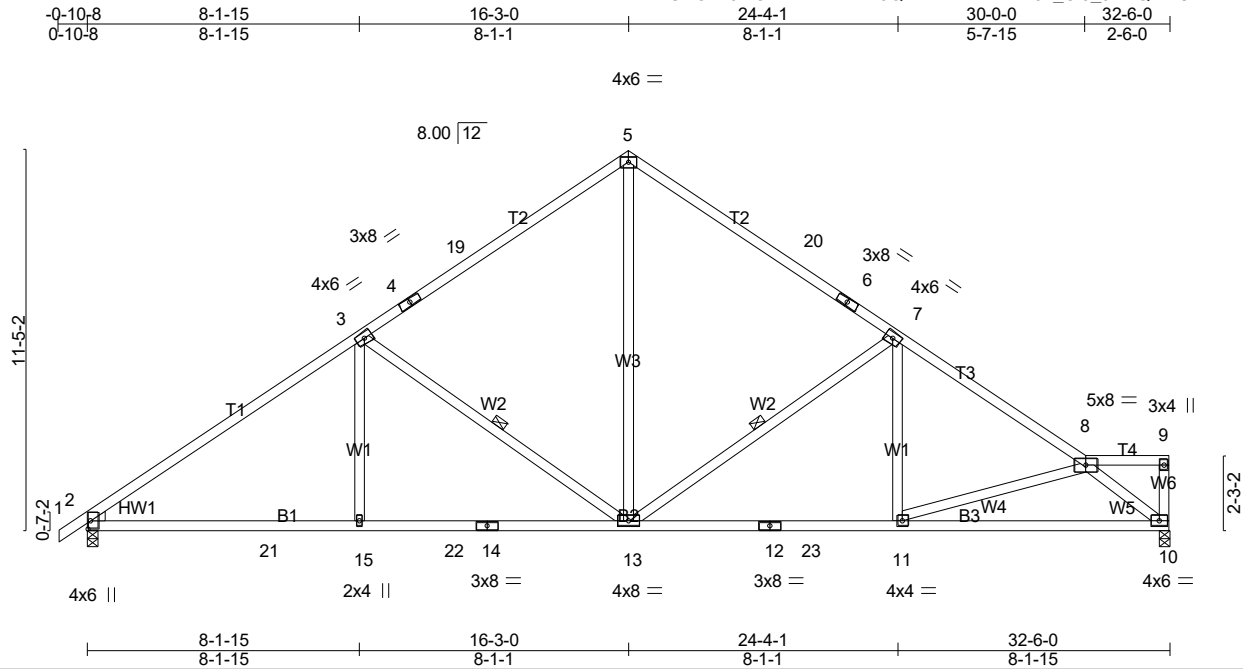
Scale = 1:69.3

LOADING (psf)

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.14	11-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.25	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.46	Horz(CT)	0.08	10	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 184 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.
WEBS   1 Row at midpt   3-13, 7-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
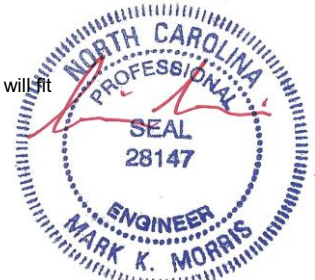
REACTIONS. (lb/size) 10=1293/0-3-8 (min. 0-1-8), 2=1347/0-3-8 (min. 0-1-11)
    Max Horz 2=242(LC 11)
    Max Uplift10=-94(LC 13), 2=-106(LC 12)
    Max Grav 10=1293(LC 1), 2=1451(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2034/168, 3-4=-1349/167, 4-19=-1258/181, 5-19=-1237/208, 5-20=-1240/206,
             6-20=-1259/179, 6-7=-1351/166, 7-8=-1856/170
BOT CHORD   2-21=-166/1748, 15-21=-166/1748, 15-22=-166/1748, 14-22=-166/1748, 13-14=-166/1748,
             12-13=-73/1494, 12-23=-73/1494, 11-23=-73/1494, 10-11=-135/1423
WEBS   3-15=0/451, 3-13=-814/210, 5-13=-64/955, 7-13=-677/186, 7-11=0/316, 8-10=-1818/186
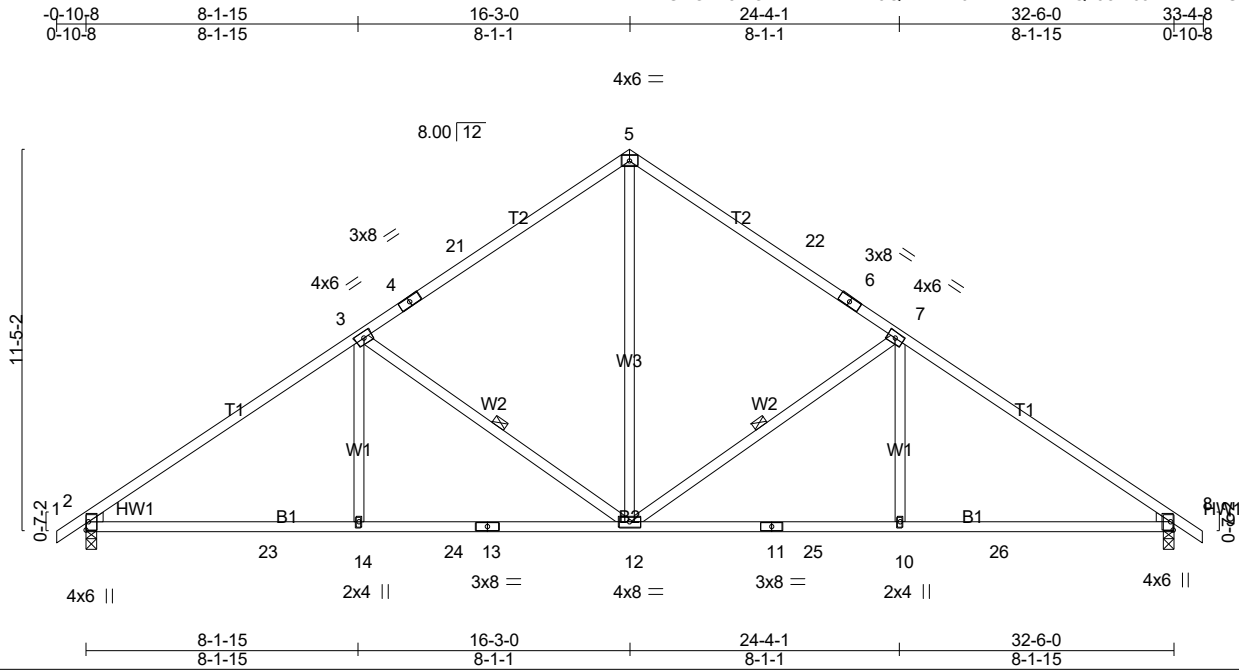
NOTES- (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1)
   21-0-10 to 30-0-0, Exterior(2E) 30-0-0 to 32-4-4 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb)
   2=106.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
   sheetrock be applied directly to the bottom chord.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R16	Common	2	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:33 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-6Atz1bWLZbeQII98br6JKdWbBmGDP6rmfzt6_wyePsC

8.00 ‾12‾

Scale = 1:68.9

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.12	10-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.24	10-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 172 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied.
BOT CHORD   Rigid ceiling directly applied.
WEBS   1 Row at midpt   7-12, 3-12

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1352/0-3-8 (min. 0-1-12), 8=1353/0-3-8 (min. 0-1-12)
Max Horz 2=-223(LC 10)
Max Uplift2=-107(LC 12), 8=-107(LC 13)
Max Grav 2=1482(LC 20), 8=1482(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-2088/168, 3-4=-1406/166, 4-21=-1315/180, 5-21=-1294/206, 5-22=-1294/206,
6-22=-1315/180, 6-7=-1406/166, 7-8=-2089/168
BOT CHORD 2-23=-159/1799, 14-23=-159/1799, 14-24=-159/1799, 13-24=-159/1799, 12-13=-159/1799,
11-12=-35/1643, 11-25=-35/1643, 10-25=-35/1643, 10-26=-35/1643, 8-26=-35/1643
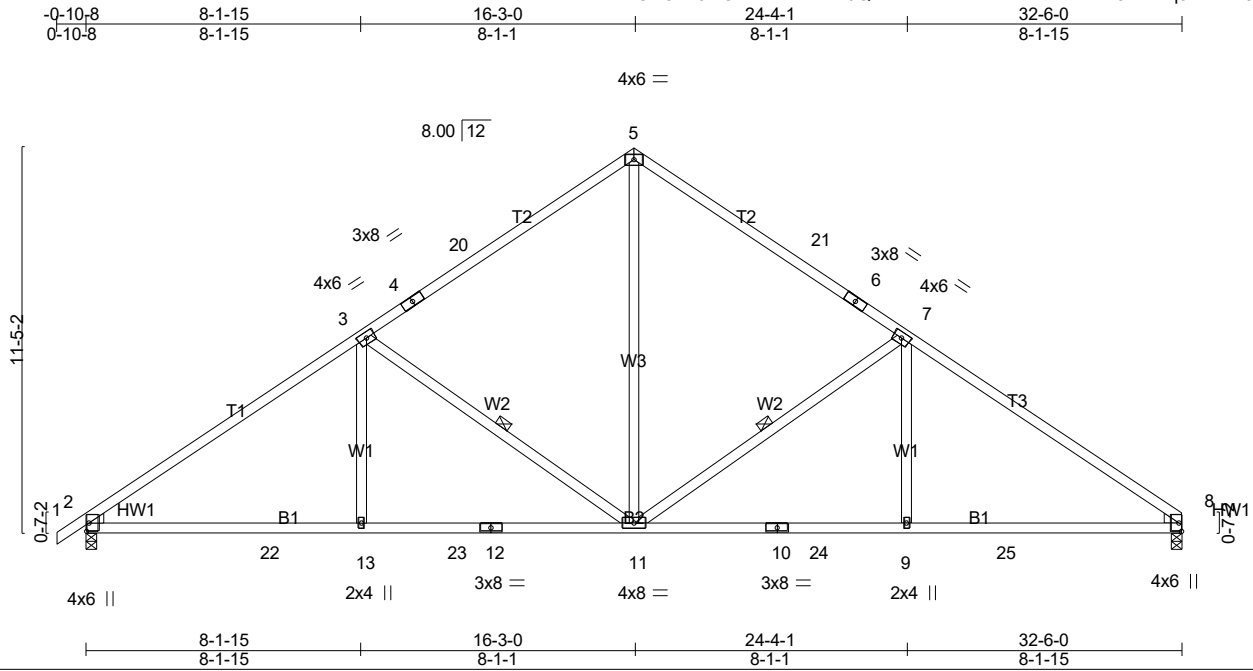WEBS   5-12=-67/1018, 7-12=-814/212, 7-10=0/452, 3-12=-813/211, 3-14=0/452

NOTES- (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1) 21-0-10 to 28-6-14, Exterior(2E) 28-6-14 to 33-4-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=107, 8=107.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
9) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R17	COMMON	1	1	# *52244*

Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:34 2024 Page 1
ID:GHOhT5MOv4FkLKIPfX2c9QzXMNI-bMRMExXzKvmHwRkL8YdYsq3mtAbM8Y4vudcfWMyePsB

Scale = 1:68.4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.64	Vert(LL)	-0.12	11-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.75	Vert(CT)	-0.24	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.08	8	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 171 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3
WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied.
BOT CHORD   Rigid ceiling directly applied.
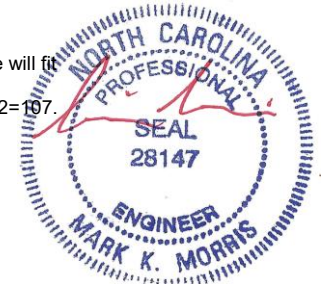WEBS   1 Row at midpt   7-11, 3-11

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS. (lb/size) 2=1353/0-3-8 (min. 0-1-12), 8=1299/0-3-8 (min. 0-1-11)
Max Horz 2=219(LC 9)
Max Uplift2=-107(LC 12), 8=-92(LC 13)
Max Grav 2=1483(LC 20), 8=1434(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2089/168, 3-4=-1408/167, 4-20=-1316/180, 5-20=-1295/207, 5-21=-1295/207,
             6-21=-1316/181, 6-7=-1407/167, 7-8=-2092/169
BOT CHORD   2-22=-166/1794, 13-22=-166/1794, 13-23=-166/1794, 12-23=-166/1794, 11-12=-166/1794,
             10-11=-60/1640, 10-24=-60/1640, 9-24=-60/1640, 9-25=-60/1640, 8-25=-60/1640
WEBS   5-11=-68/1020, 7-11=-817/213, 7-9=0/452, 3-11=-813/211, 3-13=0/452
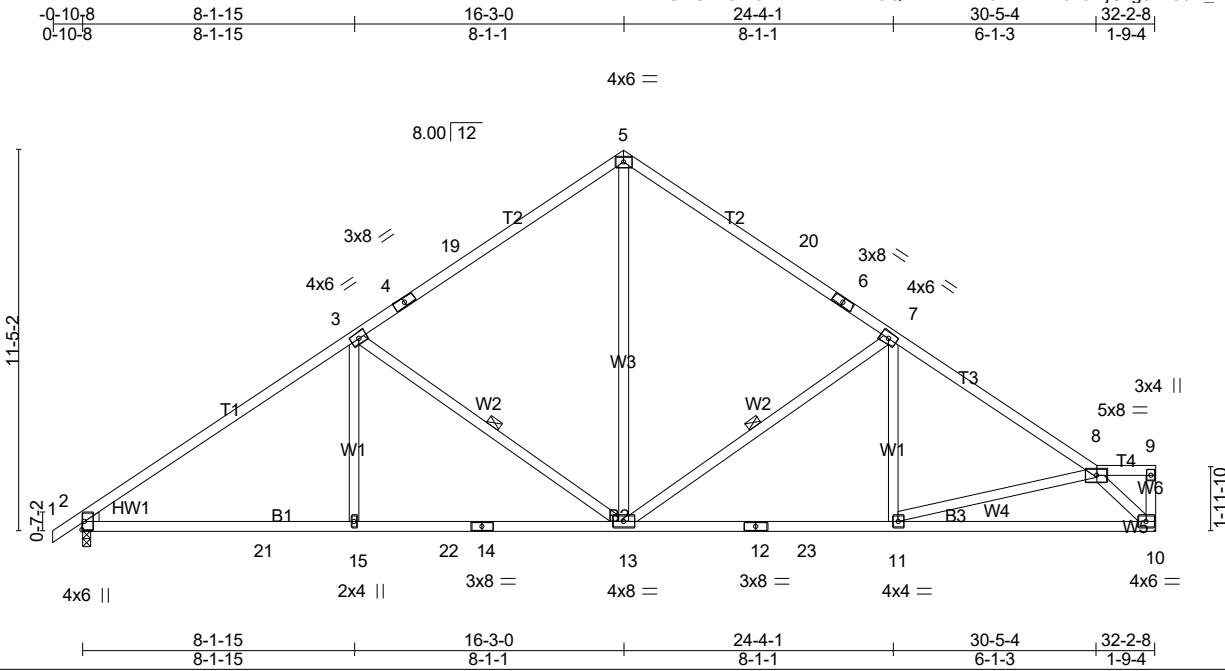
NOTES-   (9)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1)
   21-0-10 to 27-8-6, Exterior(2E) 27-8-6 to 32-6-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 2=107.
8) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
   sheetrock be applied directly to the bottom chord.
9) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R18	Roof Special	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:36 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-XlY6fdZDsW0?9IujGzg0xF86R_H6cSoCLx5mbFyePs9

8.00 ⌐12

Scale = 1:69.1

Dimensions:
-0-10-8, 8-1-15, 16-3-0, 24-4-1, 30-5-4, 32-2-8
0-10-8, 8-1-15, 8-1-1, 8-1-1, 6-1-3, 1-9-4

4x6 =

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.63	Vert(LL)	-0.13	11-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.74	Vert(CT)	-0.24	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.40	Horz(CT)	0.07	10	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 183 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3
WEDGE
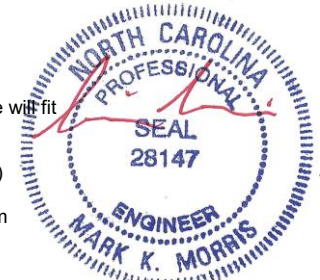Left: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.
WEBS   1 Row at midpt   3-13, 7-13

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)   10=1282/Mechanical, 2=1336/0-3-8 (min. 0-1-11)
Max Horz 2=239(LC 11)
Max Uplift10=-91(LC 13), 2=-106(LC 12)
Max Grav 10=1282(LC 1), 2=1439(LC 20)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2014/166, 3-4=-1330/166, 4-19=-1239/179, 5-19=-1218/206, 5-20=-1219/205,
             6-20=-1240/178, 6-7=-1331/164, 7-8=-1809/165
BOT CHORD   2-21=-165/1732, 15-21=-165/1732, 15-22=-165/1732, 14-22=-165/1732, 13-14=-165/1732,
             12-13=-62/1447, 12-23=-62/1447, 11-23=-62/1447, 10-11=-120/1195
WEBS   3-15=0/451, 3-13=-815/211, 5-13=-63/934, 7-13=-642/188, 7-11=0/279, 8-11=0/281,
             8-10=-1684/193

NOTES-   (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1)
   21-0-10 to 30-5-4, Exterior(2E) 30-5-4 to 32-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb)
   2=106.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
    sheetrock be applied directly to the bottom chord.
11) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

North Carolina Professional Seal 28147 - Mark K. Morris, Engineer

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R19	Roof Special	1	1	# **52244**

Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:38 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-T8gs4JaUO8GjP326NOiU1gDREnzc4LFVpFatf8yePs7

Scale = 1:69.6

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

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.68	Vert(LL)	-0.12	12-14	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	-0.26	12-14	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.47	Horz(CT)	0.07	10	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 193 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.2
WEBS   2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.
WEBS   1 Row at midpt   3-14, 6-14

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
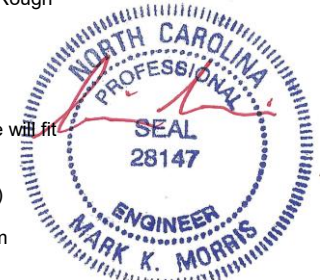
REACTIONS. (lb/size) 2=1336/0-3-8 (min. 0-1-11), 10=1282/Mechanical
Max Horz 2=245(LC 11)
Max Uplift2=-106(LC 12), 10=-92(LC 13)
Max Grav 2=1439(LC 20), 10=1282(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2014/169, 3-4=-1321/168, 4-20=-1230/182, 5-20=-1210/208, 5-21=-1221/206,
            6-21=-1330/180, 6-7=-1702/178, 7-8=-749/104, 8-9=-916/110, 9-10=-1258/105
BOT CHORD   2-22=-166/1732, 16-22=-166/1732, 16-23=-166/1732, 15-23=-166/1732, 14-15=-166/1732,
            13-14=-77/1439, 13-24=-77/1439, 12-24=-77/1439, 11-12=-91/1396
WEBS   3-16=0/450, 3-14=-813/211, 5-14=-64/930, 6-14=-611/182, 6-12=0/269, 8-11=-10/354,
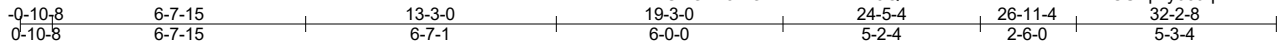   9-11=-59/1010, 7-11=-1206/93

NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 11-5-6, Exterior(2R) 11-5-6 to 21-0-10, Interior(1)
   21-0-10 to 27-5-4, Exterior(2R) 27-5-4 to 29-11-4, Exterior(2E) 29-11-4 to 32-0-12 zone; cantilever left and right exposed ; end vertical
   left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 10 except (jt=lb)
   2=106.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
    sheetrock be applied directly to the bottom chord.
11) Trusses designed with 2018 IRC also comply with 2015 IRC.
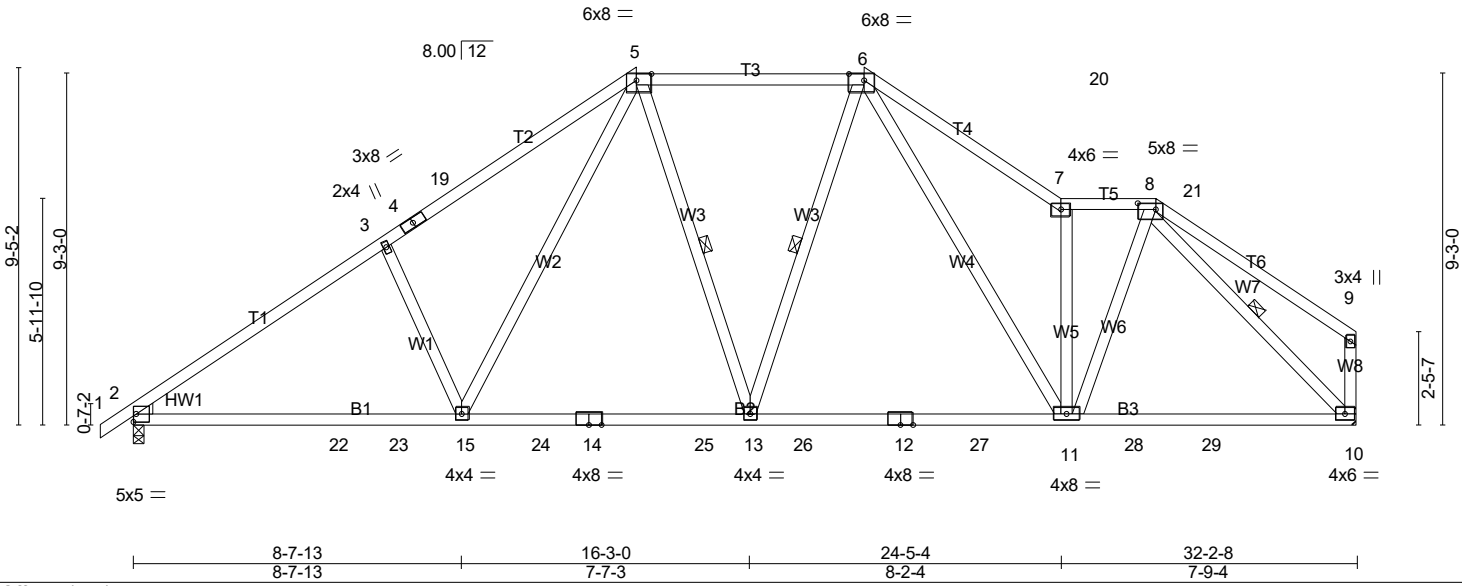
LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R20	Roof Special	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:40 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-PWodV?ckvlWReNCUVpky65JqDba7YBYoGZ3_k0yePs5

Plate Offsets (X,Y)-- [2:Edge,0-2-9], [5:0-4-13,Edge], [6:0-4-13,Edge], [8:0-5-12,0-2-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.46	Vert(LL)	-0.23	11-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.99	Vert(CT)	-0.37	11-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.07	10	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 201 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
WEBS	2x4 SP No.3	WEBS	1 Row at midpt 5-13, 6-13, 8-10
WEDGE			
Left: 2x4 SP No.3			

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1336/0-3-8 (min. 0-1-11), 10=1282/Mechanical
Max Horz 2=204(LC 11)
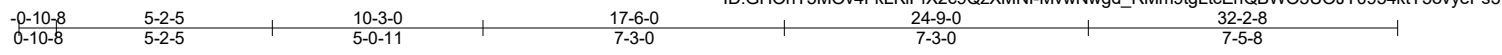Max Uplift2=-93(LC 12), 10=-79(LC 13)
Max Grav 2=1441(LC 20), 10=1420(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2067/203, 3-4=-1942/233, 4-19=-1906/239, 5-19=-1847/265, 5-6=-1348/225,
6-20=-1899/302, 7-20=-1913/274, 7-8=-1528/191
BOT CHORD   2-22=-147/1739, 22-23=-147/1739, 15-23=-147/1739, 15-24=-62/1304, 14-24=-62/1304,
14-25=-62/1304, 13-25=-62/1304, 13-26=-19/1273, 12-26=-19/1273, 12-27=-19/1273,
11-27=-19/1273, 11-28=-44/1115, 28-29=-44/1115, 10-29=-44/1115
WEBS   3-15=-333/203, 5-15=-125/662, 5-13=-54/290, 6-13=-26/324, 6-11=-142/611,
7-11=-1159/224, 8-11=-51/1078, 8-10=-1540/71

NOTES-   (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 8-5-6, Exterior(2R) 8-5-6 to 24-0-10, Interior(1) 24-0-10 to 24-5-4, Exterior(2E) 24-5-4 to 27-3-2, Exterior(2E) 27-3-2 to 32-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 10.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
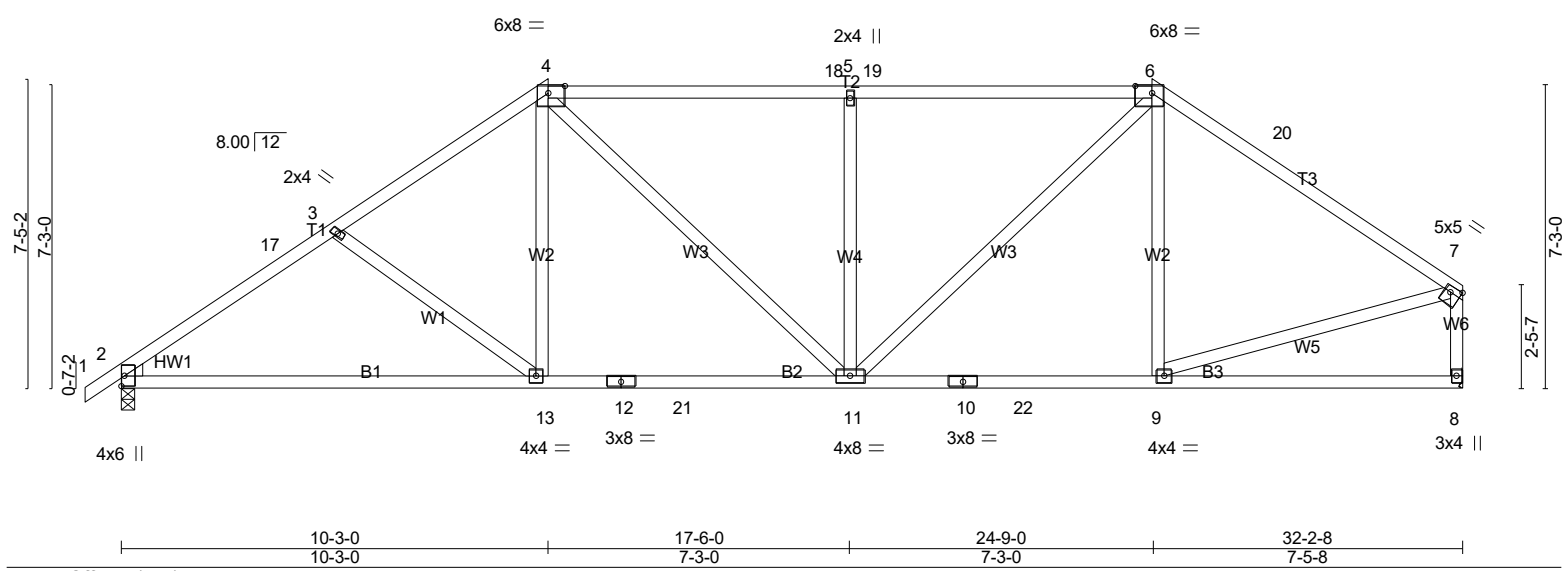11) Trusses designed with 2018 IRC also comply with 2015 IRC.

9/11/2024

LOAD CASE(S) Standard

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R21	Hip	1	1	
					Job Reference (optional) # 52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:42 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-MvwNwgd_RMm9tgLtcEnQBWO5UOJY0954ktY5ovyePs3

Scale = 1:55.3

Plate Offsets (X,Y)-- [4:0-4-13,Edge], [6:0-4-13,Edge], [7:Edge,0-1-12]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.79	Vert(LL)	-0.18	13-16	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.80	Vert(CT)	-0.36	13-16	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.48	Horz(CT)	0.05	8	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 185 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3
WEDGE
Left: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied, except end verticals.
BOT CHORD   Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1336/0-3-8 (min. 0-1-9), 8=1282/Mechanical
Max Horz 2=165(LC 11)
Max Uplift2=-75(LC 12), 8=-36(LC 13)
Max Grav 2=1336(LC 1), 8=1284(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-17=-1877/208, 3-17=-1753/230, 3-4=-1681/219, 4-18=-1557/245, 5-18=-1558/244,
5-19=-1558/244, 6-19=-1557/245, 6-20=-1295/179, 7-20=-1427/160, 7-8=-1226/145
BOT CHORD   2-13=-171/1496, 12-13=-134/1349, 12-21=-134/1349, 11-21=-134/1349, 10-11=-54/1113,
10-22=-54/1113, 9-22=-54/1113
WEBS   4-13=-0/433, 4-11=-139/389, 5-11=-508/177, 6-11=-133/686, 7-9=-75/1074
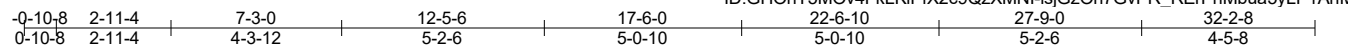
NOTES- (11)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 17-0-7, Interior(1) 17-0-7 to 17-11-9, Exterior(2R) 17-11-9 to 27-3-2, Exterior(2E) 27-3-2 to 32-0-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
10) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.
11) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R22	Hip Girder	1	1	# 52244
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:47 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-isjGzOh7GvPR_RErPnMbua5yLP1AhMrqt9GrU6yePs_

Scale = 1:59.0

Plate Offsets (X,Y)-- [4:0-6-4,0-2-4], [9:0-6-4,0-2-4]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.72	Vert(LL)	0.21	15-16	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.28	15-16	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.77	Horz(CT)	0.07	11	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MSH							Weight: 222 lb	FT = 20%
BCDL	10.0											

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied or 2-8-8 oc purlins, except end verticals.
BOT CHORD	2x6 SP No.2	BOT CHORD	Rigid ceiling directly applied or 6-1-2 oc bracing.
WEBS	2x4 SP No.3		

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=1985/0-3-8 (min. 0-2-5), 11=1966/Mechanical
Max Horz 2=127(LC 35)
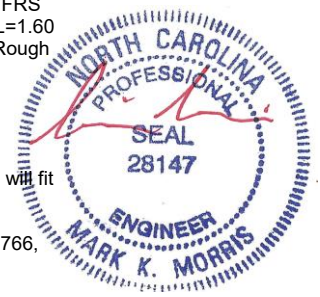Max Uplift2=-766(LC 10), 11=-812(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-2964/1211, 3-23=-2819/1271, 23-24=-2772/1259, 4-24=-2699/1271, 4-25=-3011/1458,
25-26=-3011/1458, 26-27=-3011/1458, 5-27=-3011/1458, 5-28=-3108/1497, 6-28=-3108/1497,
6-7=-3108/1497, 7-29=-3108/1497, 29-30=-3108/1497, 8-30=-3108/1497, 8-31=-2625/1275,
31-32=-2625/1275, 9-32=-2625/1275, 9-33=-1780/847, 10-33=-1868/837, 10-11=-1827/792
BOT CHORD   2-19=-1094/2426, 19-34=-1094/2426, 34-35=-1094/2426, 18-35=-1094/2426,
17-18=-1113/2266, 17-36=-1113/2266, 36-37=-1113/2266, 16-37=-1113/2266,
16-38=-1491/3011, 38-39=-1491/3011, 15-39=-1491/3011, 15-40=-1286/2625,
14-40=-1286/2625, 14-41=-1286/2625, 13-41=-1286/2625, 13-42=-696/1476,
42-43=-696/1476, 12-43=-696/1476
WEBS   4-18=-80/438, 4-16=-569/1067, 5-16=-586/413, 7-15=-411/293, 8-15=-346/690,
8-13=-960/587, 9-13=-823/1616, 9-12=-484/310, 10-12=-763/1602

NOTES-   (12)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
5) Provide adequate drainage to prevent water ponding.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
8) Refer to girder(s) for truss to truss connections.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 2=766,
   11=812.
10) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.
11) In the LOAD CASE(S) section, loads applied to the face of the truss are noted as front (F) or back (B).
12) Trusses designed with 2018 IRC also comply with 2015 IRC.

9/11/2024

LOAD CASE(S) Standard

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R22	Hip Girder	1	1	Job Reference (optional) # 52244

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:47 2024 Page 2
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-isjGzOh7GvPR_RErPnMbua5yLP1AhMrqt9GrU6yePs_

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
      Vert: 1-4=-60, 4-9=-60, 9-10=-60, 11-20=-20
   Concentrated Loads (lb)
      Vert: 4=-51(B) 6=-51(B) 9=-51(B) 18=-58(B) 7=-51(B) 15=-29(B) 12=-29(B) 23=-58(B) 24=-15(B) 25=-51(B) 26=-51(B) 27=-51(B) 28=-51(B) 29=-51(B) 30=-51(B)
      31=-51(B) 32=-51(B) 33=-15(B) 34=-68(B) 35=-74(B) 36=-29(B) 37=-29(B) 38=-29(B) 39=-29(B) 40=-29(B) 41=-29(B) 42=-29(B) 43=-29(B) 44=-74(B) 45=-74(B)

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R23	Common Supported Gable	1	1	**# 52244**
					Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:49 2024 Page 1
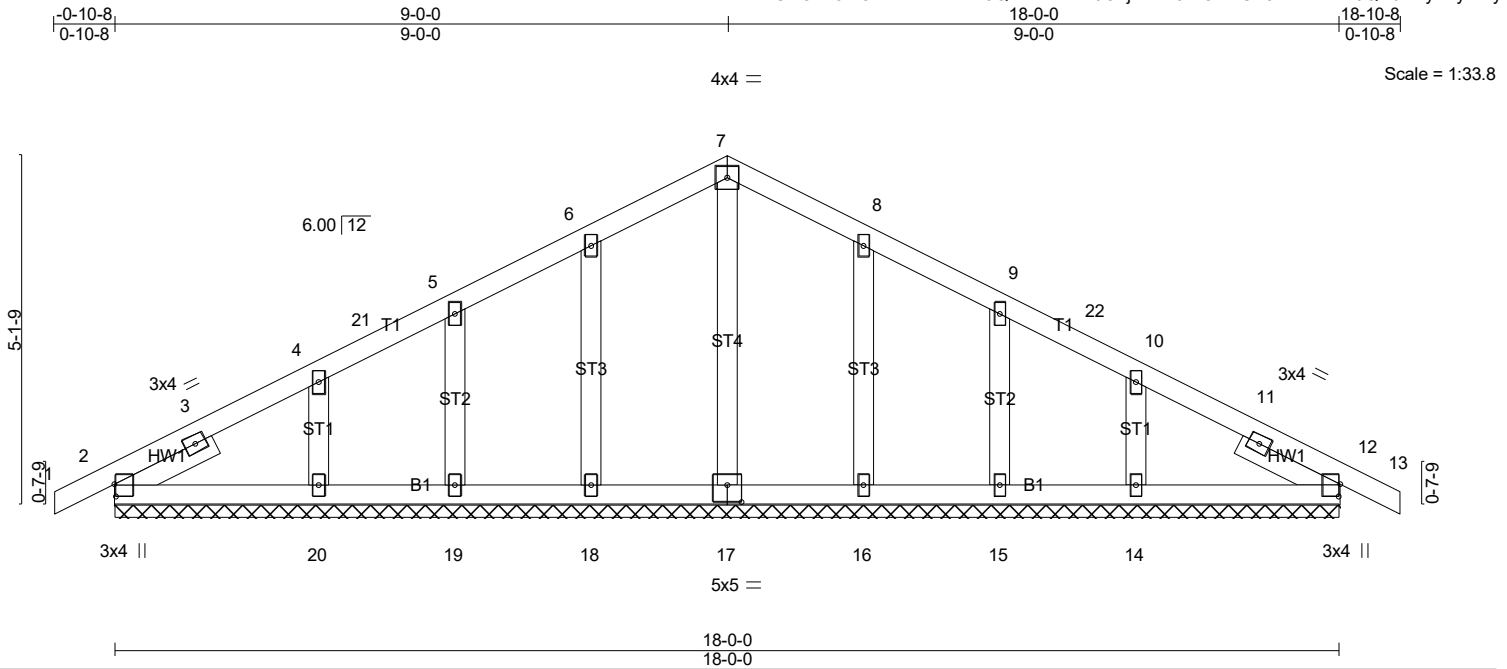ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-eFr0O4jNoWf9DlODXCP3z?BSoDtb9QH6LTlyX?yePry

Scale = 1:33.8

Plate Offsets (X,Y)-- [2:0-2-2,0-0-4], [12:0-2-2,0-0-4], [17:0-2-8,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.08	Vert(LL)	0.00	12	n/r	180	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.07	Vert(CT)	0.00	13	n/r	80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.07	Horz(CT)	0.00	12	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-S							Weight: 95 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
OTHERS   2x4 SP No.3
SLIDER   Left 2x4 SP No.3 1-7-3, Right 2x4 SP No.3 1-7-3

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

REACTIONS. All bearings 18-0-0.
(lb) - Max Horz 2=65(LC 14)
        Max Uplift All uplift 100 lb or less at joint(s) 2, 18, 19, 20, 16, 15, 14, 12
        Max Grav All reactions 250 lb or less at joint(s) 2, 17, 18, 19, 20, 16, 15, 14, 12

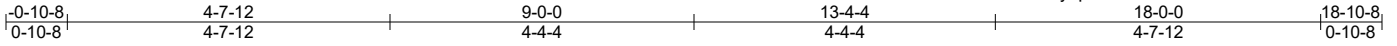**FORCES.** (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

NOTES-   (13)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Corner(3E) -0-10-8 to 3-11-2, Corner(3R) 3-11-2 to 14-0-14, Corner(3E) 14-0-14 to 18-10-8 zone;
   cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;
   Lumber DOL=1.60 plate grip DOL=1.60
3) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry
   Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
4) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
7) All plates are 2x4 MT20 unless otherwise indicated.
8) Gable requires continuous bottom chord bearing.
9) Gable studs spaced at 2-0-0 oc.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will
    fit between the bottom chord and any other members, with BCDL = 10.0psf.
12) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 18, 19, 20, 16, 15,
    14, 12.
13) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R24	Common	1	1	Job Reference (optional) # 52244

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:51 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-beynplkdK7vtS3XcedRX2QGkP1QzdlkPonE3ctyePrw

Scale = 1:33.1

Plate Offsets (X,Y)-- [2:0-3-4,0-0-4], [8:0-3-6,0-0-4], [10:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.08	10-13	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.17	10-13	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	8	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 87 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD   2x4 SP No.2
BOT CHORD   2x4 SP No.2
WEBS   2x4 SP No.3
SLIDER   Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0

BRACING-
TOP CHORD   Structural wood sheathing directly applied.
BOT CHORD   Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=773/0-3-8 (min. 0-1-8), 8=773/0-3-8 (min. 0-1-8)
Max Horz 2=65(LC 14)
Max Uplift2=-71(LC 14), 8=-71(LC 15)
Max Grav 2=820(LC 21), 8=820(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-3=-777/0, 3-19=-1124/256, 4-19=-1114/270, 4-5=-888/212, 5-6=-888/212,
6-20=-1114/270, 7-20=-1124/256, 7-8=-777/0
BOT CHORD   2-10=-162/1037, 8-10=-162/1037
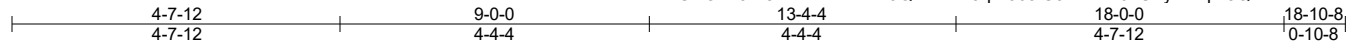WEBS   5-10=-49/485, 6-10=-378/141, 4-10=-378/141

NOTES-   (10)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
(envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Exterior(2R) 3-11-2 to 14-0-14, Exterior(2E) 14-0-14 to 18-10-8 zone;
cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown;
Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 8.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum
sheetrock be applied directly to the bottom chord.
10) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R24A	Common	5	1	

52244

Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:52 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-3qW905lG5R1k4D6oCKymbdpv8QmAMkvZ1Rzc8KyePrv

Truss diagram dimensions (top): 4-7-12 | 9-0-0 | 13-4-4 | 18-0-0 | 18-10-8
4-7-12 | 4-4-4 | 4-4-4 | 4-7-12 | 0-10-8

4x4

Scale = 1:32.7

6.00 ⌐12

Bottom dimensions: 9-0-0 | 18-0-0

3x6 || 5x8   3x6 ||

Plate Offsets (X,Y)-- [1:0-3-4,0-0-4], [7:0-3-6,0-0-4], [9:0-4-0,0-3-0]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.33	Vert(LL)	-0.08	9-12	>999	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.65	Vert(CT)	-0.18	9-12	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.20	Horz(CT)	0.02	7	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS								
BCDL	10.0										Weight: 86 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3
SLIDER   Left 2x4 SP No.3 1-11-0, Right 2x4 SP No.3 1-11-0

BRACING-
TOP CHORD Structural wood sheathing directly applied.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 1=719/0-3-8 (min. 0-1-8), 7=774/0-3-8 (min. 0-1-8)
Max Horz 1=-71(LC 19)
Max Uplift1=-57(LC 14), 7=-71(LC 15)
Max Grav 1=766(LC 21), 7=821(LC 22)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-802/4, 2-18=-1130/256, 3-18=-1121/269, 3-19=-891/191, 4-19=-878/211,
4-5=-889/211, 5-20=-1116/269, 6-20=-1125/256, 6-7=-777/0
BOT CHORD 1-9=-161/1045, 7-9=-162/1038
WEBS   4-9=-49/486, 5-9=-378/141, 3-9=-384/140

NOTES- (10-14)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-0-0 to 4-9-10, Exterior(2R) 4-9-10 to 14-0-14, Exterior(2E) 14-0-14 to 18-10-8 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 7.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R24A	Common	5	1	Job Reference (optional)	# 52244

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:36:53 2024 Page 2
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-X04XERmusk9biMh_m2T?8rL4uq5P5B9iF5jAgmyePru

10) Trusses designed with 2018 IRC also comply with 2015 IRC.
11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
12) 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.
13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.
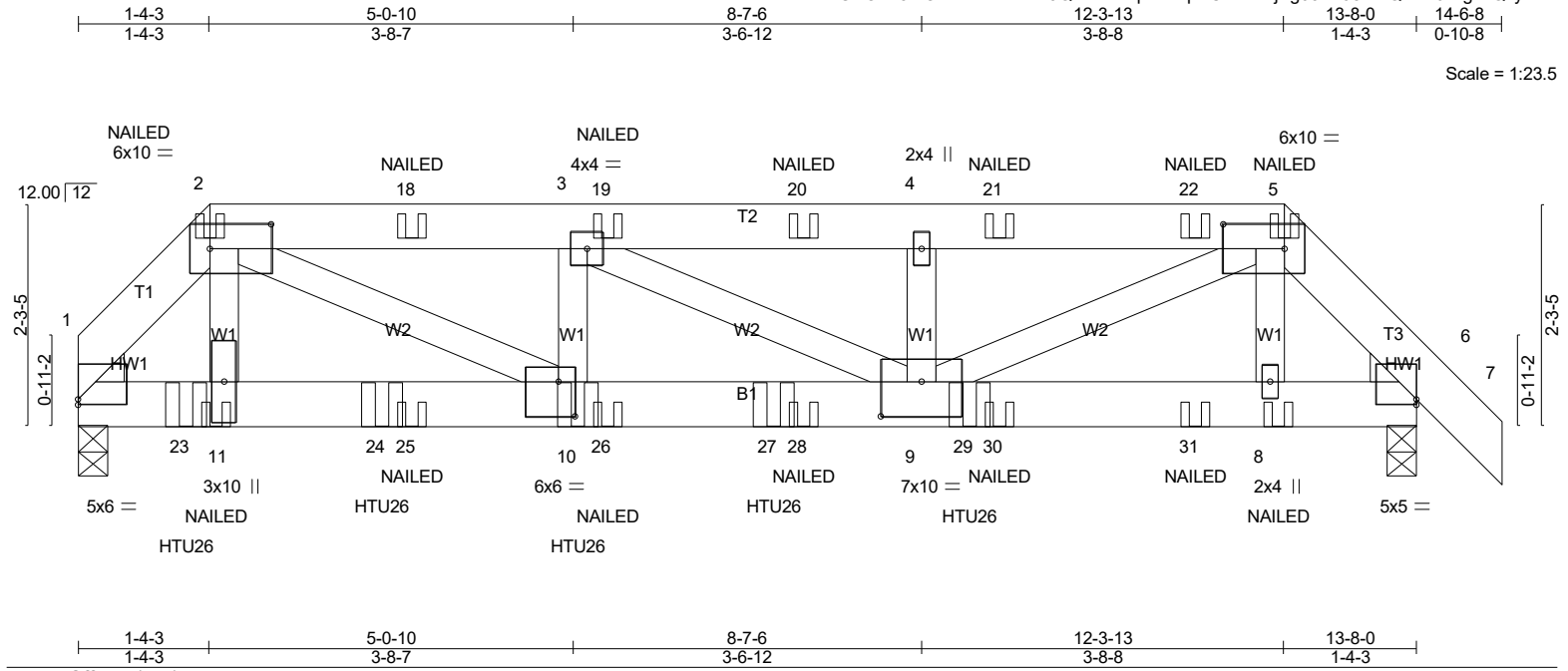
LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R25	Hip Girder	1	**2**	# *52244*
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:37:00 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-qM?BiqrHCu1b2RjKg05ewJ8HvfQ?EE6ksgv1QsyePrn

Scale = 1:23.5

Plate Offsets (X,Y)-- [1:0-0-0,0-0-11], [2:0-7-8,0-3-0], [5:0-7-8,0-3-0], [6:0-0-0,0-0-11], [9:0-5-0,0-4-4], [10:0-2-0,0-4-4]

LOADING (psf)		SPACING-		CSI.		DEFL.	in	(loc)	l/defl	L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.35	Vert(LL)	-0.08	9-10	>999	240		MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.17	9-10	>975	180			
TCDL	10.0	Rep Stress Incr	NO	WB	0.76	Horz(CT)	0.02	6	n/a	n/a			
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MSH								Weight: 192 lb	FT = 20%
BCDL	10.0												

LUMBER-
TOP CHORD   2x6 SP No.2
BOT CHORD   2x6 SP No.1
WEBS   2x4 SP No.3 *Except*
             W2: 2x4 SP No.2
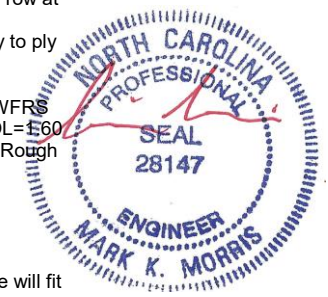WEDGE
Left: 2x4 SP No.3 , Right: 2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 5-1-4 oc purlins.
BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=4781/0-3-8 (min. 0-2-13), 6=3465/0-3-8 (min. 0-2-1)
            Max Horz 1=-42(LC 15)
            Max Uplift1=-645(LC 7), 6=-768(LC 6)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-2=-5529/776, 2-18=-8575/1361, 3-18=-8575/1361, 3-19=-8319/1782, 19-20=-8319/1782,
            4-20=-8319/1782, 4-21=-8319/1782, 21-22=-8319/1782, 5-22=-8319/1782, 5-6=-4237/1014
BOT CHORD   1-23=-512/3575, 11-23=-512/3575, 11-24=-521/3702, 24-25=-521/3702, 10-25=-521/3702,
            10-26=-1357/8575, 26-27=-1357/8575, 27-28=-1357/8575, 9-28=-1357/8575, 9-29=-653/2727,
            29-30=-653/2727, 30-31=-653/2727, 8-31=-653/2727, 6-8=-642/2708
WEBS   2-11=-117/1579, 2-10=-944/5430, 3-10=-161/323, 5-9=-1249/6227, 5-8=-144/263,
            3-9=-553/224

NOTES- (15)
1) 2-ply truss to be connected together with 10d (0.131"x3") nails as follows:
   Top chords connected as follows: 2x6 - 2 rows staggered at 0-9-0 oc.
   Bottom chords connected as follows: 2x6 - 2 rows staggered at 0-5-0 oc.
   Webs connected as follows: 2x4 - 1 row at 0-5-0 oc, Except member 10-2 2x4 - 1 row at 0-9-0 oc, member 3-10 2x4 - 1 row at 0-9-0 oc,
   member 9-5 2x4 - 1 row at 0-9-0 oc, member 8-5 2x4 - 1 row at 0-9-0 oc, member 9-4 2x4 - 1 row at 0-9-0 oc, member 3-9 2x4 - 1 row at
   0-9-0 oc.
2) All loads are considered equally applied to all plies, except if noted as front (F) or back (B) face in the LOAD CASE(S) section. Ply to ply
   connections have been provided to distribute only loads noted as (F) or (B), unless otherwise indicated.
3) Unbalanced roof live loads have been considered for this design.
4) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone; cantilever left and right exposed ; end vertical left and right exposed; Lumber DOL=1.60 plate grip DOL=1.60
5) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
6) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs
   non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 1=645,

9/11/2024

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R25	Hip Girder	1	**2**	# *52244*
					Job Reference (optional)

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:37:00 2024 Page 2
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-qM?BiqrHCu1b2RjKg05ewJ8HvfQ?EE6ksgv1QsyePrn

NOTES-   (15)

11) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 1-1-4 from the left end to 7-1-4 to connect truss(es)
   R18 (1 ply 2x4 SP), R19 (1 ply 2x4 SP), R20 (1 ply 2x4 SP), R21 (1 ply 2x4 SP) to back face of bottom chord.

12) Use Simpson Strong-Tie HTU26 (20-10d Girder, 14-10dx1 1/2 Truss, Single Ply Girder) or equivalent at 9-1-4 from the left end to connect truss(es) R22 (1 ply 2x6 SP) to back
   face of bottom chord.

13) Fill all nail holes where hanger is in contact with lumber.

14) "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidlines.

15) Trusses designed with 2018 IRC also comply with 2015 IRC.

LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
   Uniform Loads (plf)
       Vert: 1-2=-60, 2-5=-60, 5-7=-60, 12-15=-20
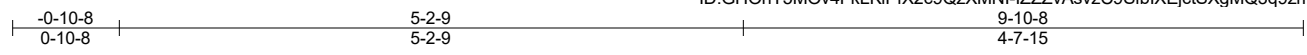   Concentrated Loads (lb)
       Vert: 11=-15(F) 10=-1262(B) 8=-15(F) 23=-1262(B) 24=-1262(B) 25=-15(F) 26=-15(F) 27=-1262(B) 28=-15(F) 29=-1946(B) 30=-15(F) 31=-15(F)

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R26	Monopitch Structural Gable	1	1	**# 52244**
					Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:37:01 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-IZZZvAsvzC9SfbIXEjctSXgMQ3q9zmet5KfbyIyePrm

Scale = 1:19.2

Plate Offsets (X,Y)-- [2:0-2-0,0-2-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.17	5-9	>684	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.35	5-9	>331	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.43	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS								
BCDL	10.0										Weight: 44 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3
OTHERS   2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=444/0-4-8 (min. 0-1-8), 5=387/Mechanical
Max Horz 2=83(LC 13)
Max Uplift2=-75(LC 10), 5=-56(LC 14)
Max Grav 2=508(LC 21), 5=494(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   2-10=-993/259, 3-10=-975/267
BOT CHORD   2-5=-247/954
WEBS   3-5=-910/297

NOTES- (12-16)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 4-11-0, Exterior(2E) 4-11-0 to 9-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) Truss designed for wind loads in the plane of the truss only. For studs exposed to wind (normal to the face), see Standard Industry Gable End Details as applicable, or consult qualified building designer as per ANSI/TPI 1.
3) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
4) Unbalanced snow loads have been considered for this design.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
6) Gable studs spaced at 2-0-0 oc.
7) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
8) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
9) Refer to girder(s) for truss to truss connections.
10) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 5.
11) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

9/11/2024

Continued on page 2

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS	448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R26	Monopitch Structural Gable	1	1	**# 52244**
					Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:37:01 2024 Page 2
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-IZZZvAsvzC9SfbIXEjctSXgMQ3q9zmet5KfbyIyePrm

12) Trusses designed with 2018 IRC also comply with 2015 IRC.
13) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
14) 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.
15) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
16) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R27	Monopitch	7	1	# 52244
					Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:37:02 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-ml7x6WtXkVHJHltjnR86?kDWBSAOiDy1K_O8UlyePrl

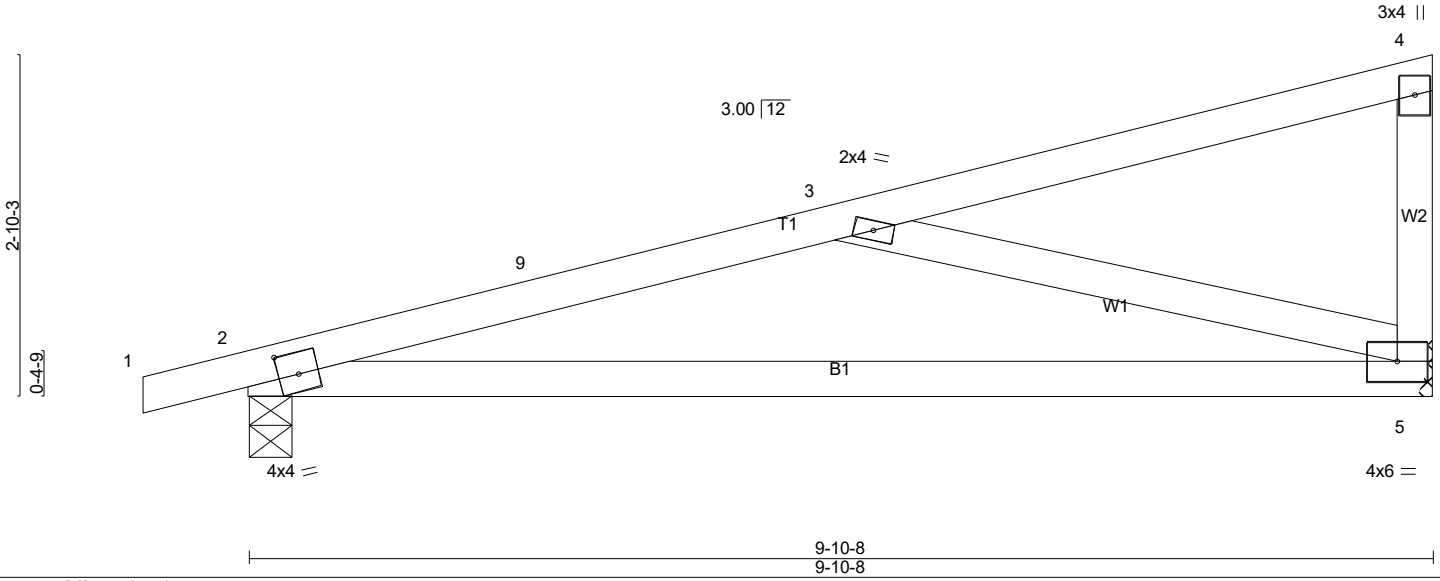-0-10-8 | 5-2-9 | 9-10-8
0-10-8 | 5-2-9 | 4-7-15

Scale = 1:19.2

3x4 ‖
4

3.00 ⌐12

2x4 ═

3
T1

9

W2

2
W1

1

B1

5

4x4 ═

4x6 ═

9-10-8
9-10-8

2-10-3

0-4-9

Plate Offsets (X,Y)-- [2:0-2-0,0-2-3]

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.74	Vert(LL)	-0.17	5-8	>685	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.35	5-8	>331	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.42	Horz(CT)	0.01	5	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 42 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.2
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD Rigid ceiling directly applied.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size)   5=387/Mechanical, 2=444/0-4-8 (min. 0-1-8)
Max Horz 2=83(LC 13)
Max Uplift5=-56(LC 14), 2=-75(LC 10)
Max Grav 5=494(LC 21), 2=508(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-9=-997/260, 3-9=-979/268
BOT CHORD 2-5=-248/958
WEBS 3-5=-913/298

NOTES- (10-14)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) -0-10-8 to 3-11-2, Interior(1) 3-11-2 to 4-10-11, Exterior(2E) 4-10-11 to 9-8-12 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 20.0 psf on overhangs non-concurrent with other live loads.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Refer to girder(s) for truss to truss connections.
8) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 5, 2.
9) This truss design requires that a minimum of 7/16" structural wood sheathing be applied directly to the top chord and 1/2" gypsum sheetrock be applied directly to the bottom chord.

[NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS]

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	R27	Monopitch	7	1	# *52244*
					Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:37:02 2024 Page 2
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-ml7x6WtXkVHJHltjnR86?kDWBSAOiDy1K_O8UlyePrl

10) Trusses designed with 2018 IRC also comply with 2015 IRC.

11) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.

12) 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.

13) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.

14) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.
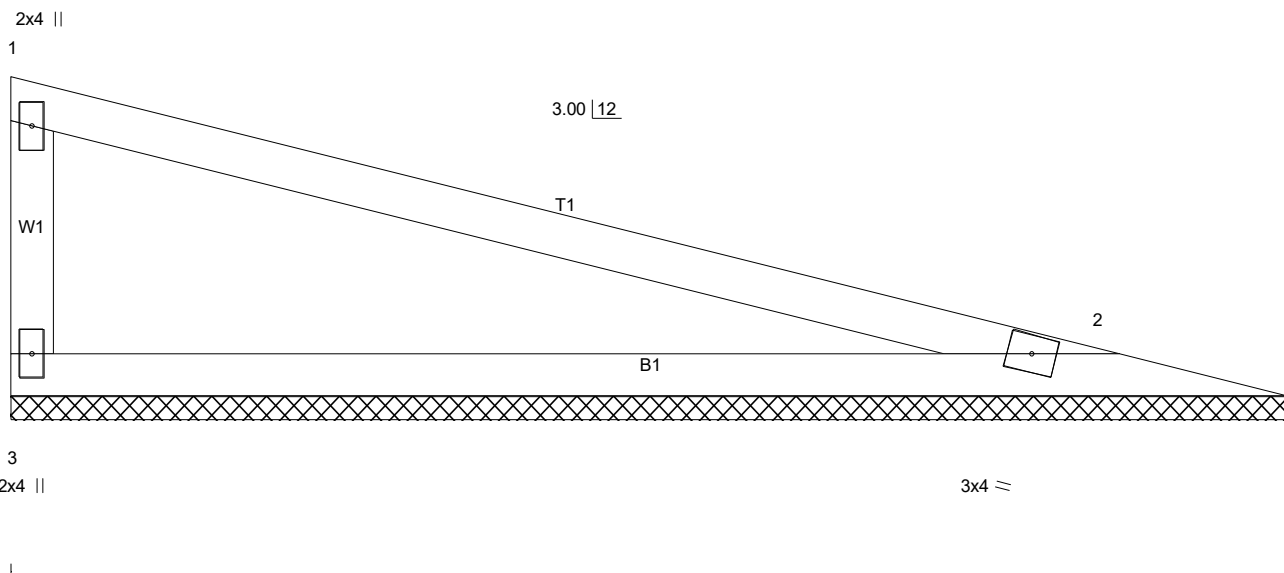
LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	VT01	Valley	1	1	# 52244
					Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:37:03 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-ExhJKsu9VpQAvvSvL8fLXymhrsVTRmnAZe8i1ByePrk

8-9-0

8-9-0

Scale = 1:15.8

2x4 ||

1

2-2-4

W1

3.00 |12

T1

2

B1

3

2x4 ||

3x4

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.75	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.73	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P							Weight: 27 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP SS
BOT CHORD 2x4 SP No.2
WEBS   2x4 SP No.3

BRACING-
TOP CHORD   Structural wood sheathing directly applied or 7-7-14 oc purlins, except
             end verticals.
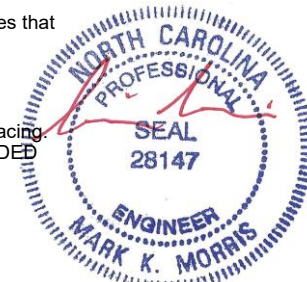BOT CHORD   Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing
be installed during truss erection, in accordance with Stabilizer
Installation guide.

REACTIONS.   (lb/size)   3=297/8-9-0 (min. 0-1-8), 2=297/8-9-0 (min. 0-1-8)
Max Horz 3=-60(LC 10)
Max Uplift3=-43(LC 15), 2=-36(LC 11)
Max Grav 3=384(LC 21), 2=384(LC 21)

FORCES.   (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD   1-3=-310/137

NOTES-   (8-12)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS
   (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for
   members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough
   Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit
   between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
8) Trusses designed with 2018 IRC also comply with 2015 IRC.
9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that
   the member must be braced.
10) 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.
11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling,
    Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED
    MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE
    MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING
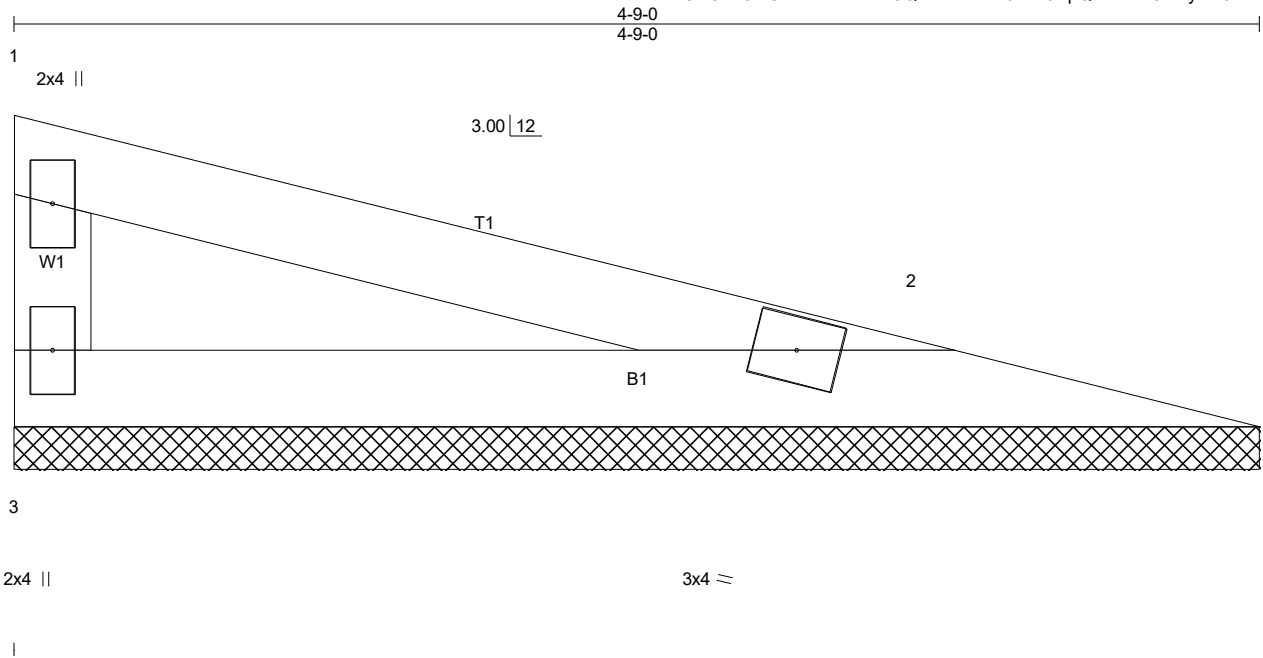   CONSIDERATIONS.

LOAD CASE(S) Standard

9/11/2024

Job	Truss	Truss Type	Qty	Ply	LOT 0.0028 HONEYCUTT HILLS | 448 ADAMS POINTE COURT ANGIER, NC
24-7625-R01	VT02	Valley	1	1	# 52244
					Job Reference (optional)

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Thu Sep 12 10:37:03 2024 Page 1
ID:GHOhT5MOv4FkLKlPfX2c9QzXMNI-ExhJKsu9VpQAvvSvL8fLXymo5sdlRmnAZe8i1ByePrk

4-9-0
4-9-0

1

2x4 ||

Scale = 1:8.8

3.00 | 12

T1

W1

2

1-2-4

B1

3

2x4 ||

3x4 ≈

|

LOADING (psf)		SPACING-	2-0-0	CSI.		DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.28	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.23	Vert(CT)	n/a	-	n/a	999		
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P							Weight: 13 lb	FT = 20%
BCDL	10.0											

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3

BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-9-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
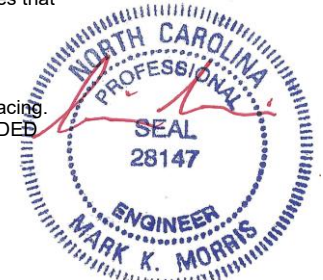
REACTIONS. (lb/size)   3=137/4-9-0 (min. 0-1-8), 2=137/4-9-0 (min. 0-1-8)
Max Horz 3=-27(LC 10)
Max Uplift3=-20(LC 15), 2=-16(LC 11)
Max Grav 3=170(LC 21), 2=170(LC 21)

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

NOTES- (8-12)
1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCDL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
2) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pf=20.0 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.10
3) Unbalanced snow loads have been considered for this design.
4) Gable requires continuous bottom chord bearing.
5) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
6) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 3, 2.
8) Trusses designed with 2018 IRC also comply with 2015 IRC.
9) Graphical bracing representation does not depict the size, type or the orientation of the brace on the member. Symbol only indicates that the member must be braced.
10) 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.
11) Web bracing shown is for lateral support of individual web members only. Refer to BCSI - Guide to Good Practice for Handling, Installing, Restraining & Bracing of Metal Plate Connected Wood Trusses for additional bracing guidelines, including diagonal bracing.
12) SEE BCSI-B3 SUMMARY SHEET- PERMANENT RESTRAING/BRACING OF CHORDS & WEB MEMBERS FOR RECOMMENDED MINIMUM BRACING REQUIREMENTS OF TOP CHORD, BOTTOM CHORD, AND WEB PLANES. IN ADDITION TO THESE MINIMUM GUIDELINES, ALWAYS CONSULT THE PROJECT ARCHITECT OR ENGINEER FOR ADDITIONAL BRACING CONSIDERATIONS.

LOAD CASE(S) Standard

NORTH CAROLINA PROFESSIONAL SEAL 28147 ENGINEER MARK K. MORRIS

9/11/2024