

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 #: 57300

JOB: 25-2031-R01

JOB NAME: LOT 0.0013 CAMPBELL RIDGE

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.

37 Truss Design(s)

Trusses:

J01, R01, R02, R02A, R02B, R02C, R03, R03A, R03B, R04, R05, R06, R07, R08, R09, R11, R12, R13, R14, R15, R16, R17, R18, R19, R20, R21, R22, R23, SP01, SP02, VT01, VT02,



3/3/2025

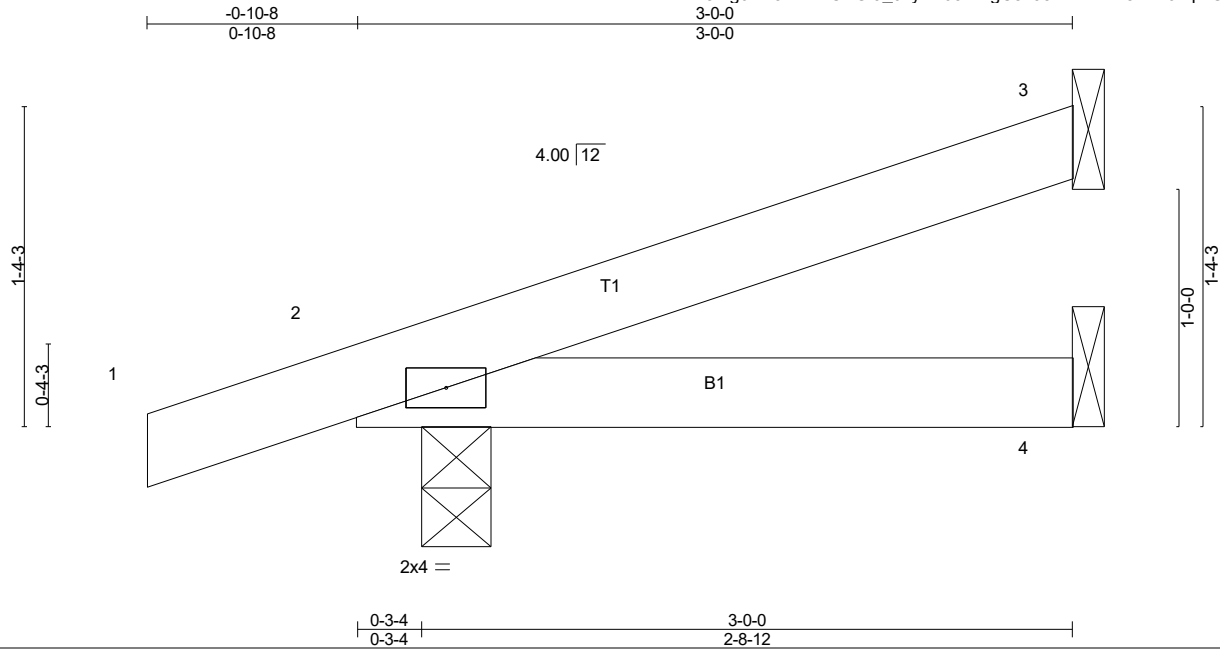
Mark Morris

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	J01	Jack-Open	3	1	
Job Reference (optional)					# 57300

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 4 12:28:07 2025 Page 1
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Scale = 1:9.6

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.11	Vert(LL)	0.01	4-7	>999	240	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.10	Vert(CT)	-0.01	4-7	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Horz(CT)	0.00	2	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-MP							
BCDL 10.0	Code IRC2021/TPI2014								
								Weight: 11 lb	FT = 20%

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

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-0-0 oc purlins.
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.

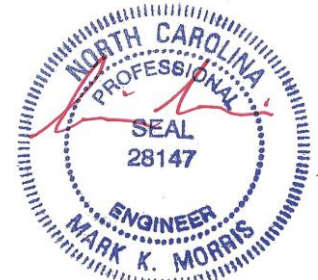
REACTIONS. (lb/size) 3=61/Mechanical, 4=36/Mechanical, 2=155/0-3-8 (min. 0-1-8)
Max Horz 2=42(LC 10)
Max Uplift 3=-27(LC 10), 4=-11(LC 10), 2=-63(LC 10)
Max Grav 3=83(LC 21), 4=52(LC 7), 2=206(LC 21)

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); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); ls=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 15.4 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.

LOAD CASE(S) Standard

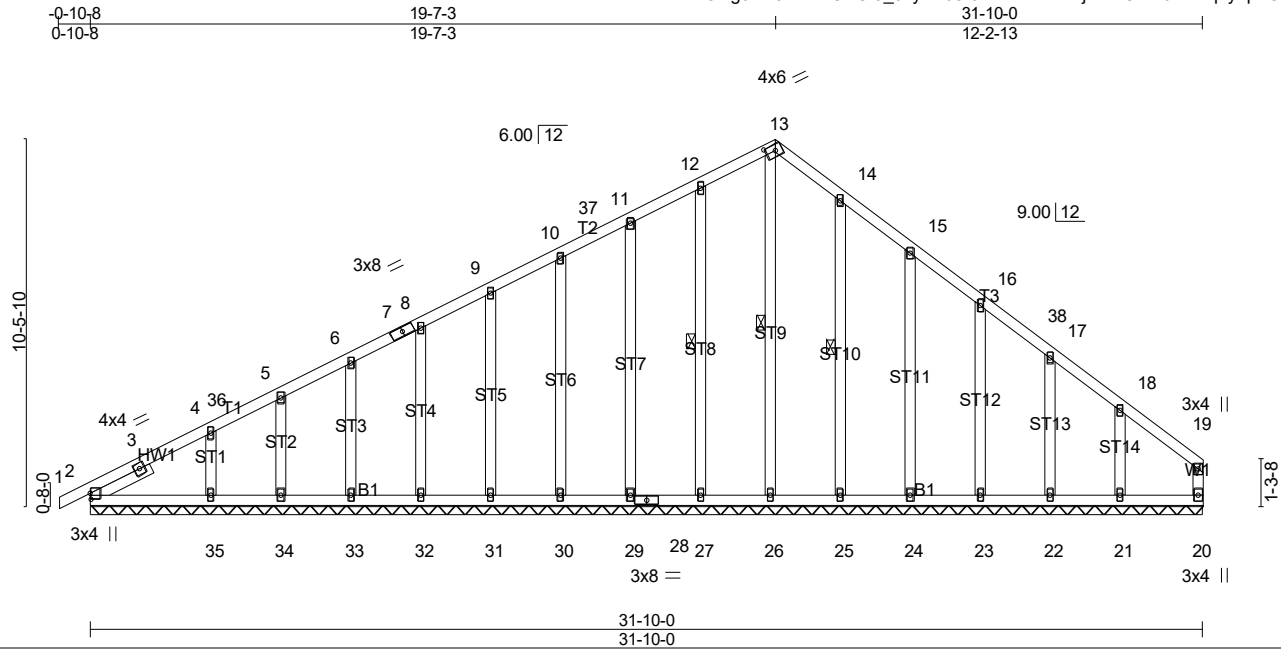


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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R01	GABLE	2	1	
Job Reference (optional)					# 57300

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 4 12:28:08 2025 Page 1
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Scale = 1:65.9

Plate Offsets (X,Y)-- [2:0-2-1,0-0-5], [13:0-3-8,0-2-0]

LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	2-0-0		TC	0.13	in (loc)	l/defl	L/d	MT20	244/190	
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.14	Vert(LL)	-0.00	1			
TCDL	10.0	Lumber DOL	1.15	WB	0.18	Vert(CT)	0.00	1			
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-S		Horz(CT)	0.00	20			
BCDL	10.0	Code IRC2021/TPI2014									
Weight: 228 lb										FT = 20%	

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

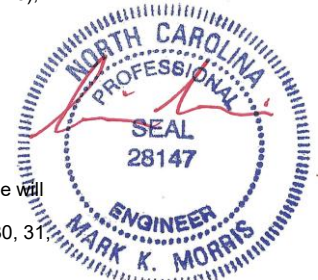
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
WEBS 1 Row at midpt 13-26, 12-27, 14-25

REACTIONS. All bearings 31-10-0.
(lb) - Max Horz 2=211(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 2, 26, 27, 29, 30, 31, 32, 33, 34, 35, 25, 24, 23, 22 except 21=104(LC 15)
Max Grav All reactions 250 lb or less at joint(s) 20, 2, 29, 30, 31, 32, 33, 34, 22, 21 except 26=317(LC 31), 27=276(LC 5), 35=260(LC 34), 25=275(LC 6), 24=256(LC 29), 23=264(LC 29)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 10-37=-128/251, 11-37=-111/259, 11-12=-130/299, 12-13=-147/331, 13-14=-159/358, 14-15=-133/306
WEBS 13-26=-296/99

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - 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, Exterior(2N) 3-11-2 to 14-9-10, Corner(3R) 14-9-10 to 24-4-13, Exterior(2N) 24-4-13 to 26-10-10, Corner(3E) 26-10-10 to 31-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 26, 27, 29, 30, 31, 32, 33, 34, 35, 25, 24, 23, 22 except (jt=lb) 21=104.

LOAD CASE(S) Standard



3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R02	Roof Special	3	1	
Job Reference (optional)					# 57300

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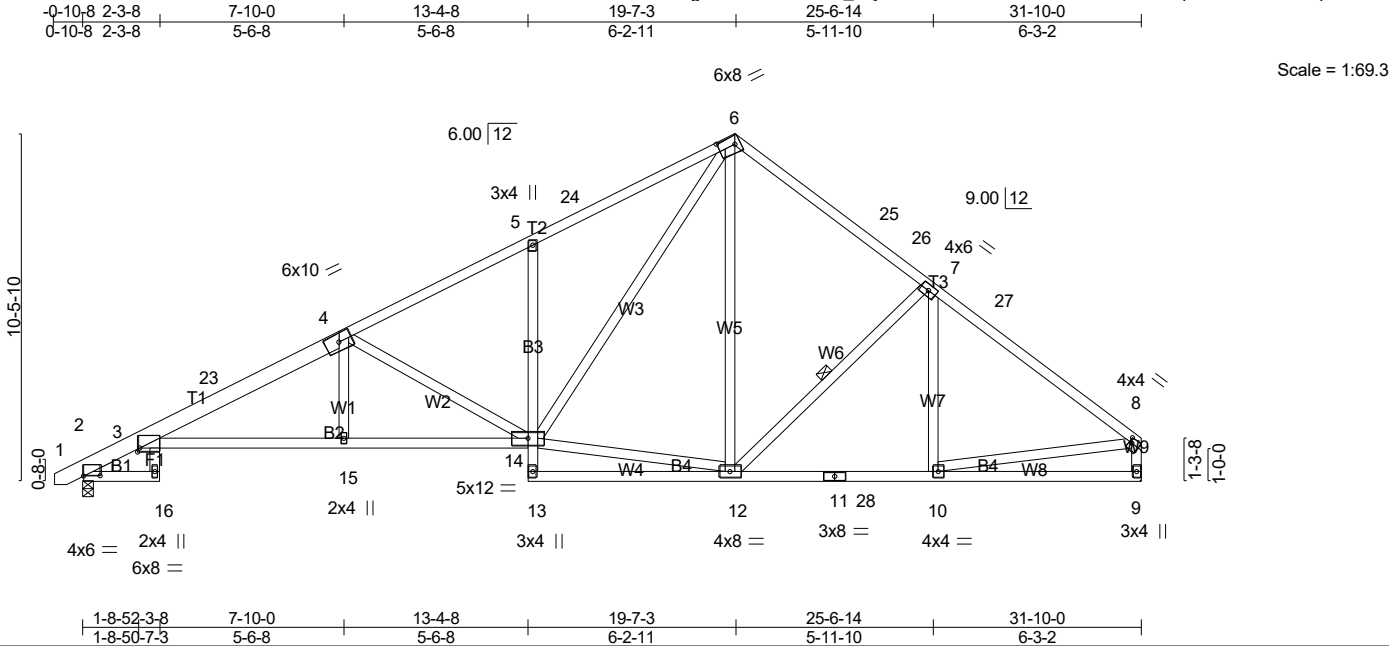


Plate Offsets (X,Y)-- [2:0-6-0,0-0-1], [3:0-0-13,0-1-8], [6:0-6-0,0-3-0], [8:0-1-0,0-1-12]					
LOADING (psf)		SPACING-	CSI.	DEFL.	PLATES
TCLL (roof)	20.0	2-0-0	TC 0.78	in (loc) l/defl L/d	MT20
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL 1.15	BC 1.00	Vert(LL) -0.26 15-22 >999 240	GRIP 244/190
TCDL	10.0	Lumber DOL 1.15	WB 0.78	Vert(CT) -0.54 16 >708 180	
BCLL	0.0 *	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.30 9 n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014			Weight: 208 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2 *Except* T1: 2x6 SP DSS	TOP CHORD Structural wood sheathing directly applied, except end verticals.
BOT CHORD 2x4 SP No.2 *Except* B2: 2x4 SP No.1	BOT CHORD Rigid ceiling directly applied.
WEBS 2x4 SP No.3 *Except* F1: 2x4 SP No.2	WEBS 1 Row at midpt 7-12
WEDGE	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.
Left: 2x4 SP No.3	

REACTIONS. (lb/size) 2=1168/0-3-8 (min. 0-1-9), 9=1122/Mechanical
Max Horz 2=210(LC 11)
Max Uplift 2=-120(LC 14), 9=-65(LC 15)
Max Grav 2=1321(LC 2), 9=1268(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-589/114, 3-23=-2684/249, 4-23=-2633/270, 4-5=-1907/253, 5-24=-1893/321,
6-24=-1810/345, 6-25=-1193/257, 25-26=-1229/234, 7-26=-1306/225, 7-27=-1341/199,
8-27=-1540/179, 8-9=-1204/165
BOT CHORD 3-15=-318/2443, 14-15=-316/2454, 5-14=-349/171, 11-12=-85/1149, 11-28=-85/1149,
10-28=-85/1149
WEBS 4-15=0/328, 4-14=-945/183, 12-14=-17/852, 6-14=-244/1203, 6-12=-68/283, 7-12=-374/163,
8-10=-47/989

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - 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) -0-8-5 to 4-1-5, Interior(1) 4-1-5 to 14-9-10, Exterior(2R) 14-9-10 to 24-4-13, Interior(1) 24-4-13 to 26-10-10, Exterior(2E) 26-10-10 to 31-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 9 except (jt=lb) 2=120.
 - 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.



3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R02	Roof Special	3	1	Job Reference (optional) # 57300

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NOTES- (12)
11) See Standard Industry Piggyback Truss Connection Detail for Connection to base truss as applicable, or consult qualified building designer.

LOAD CASE(S) Standard

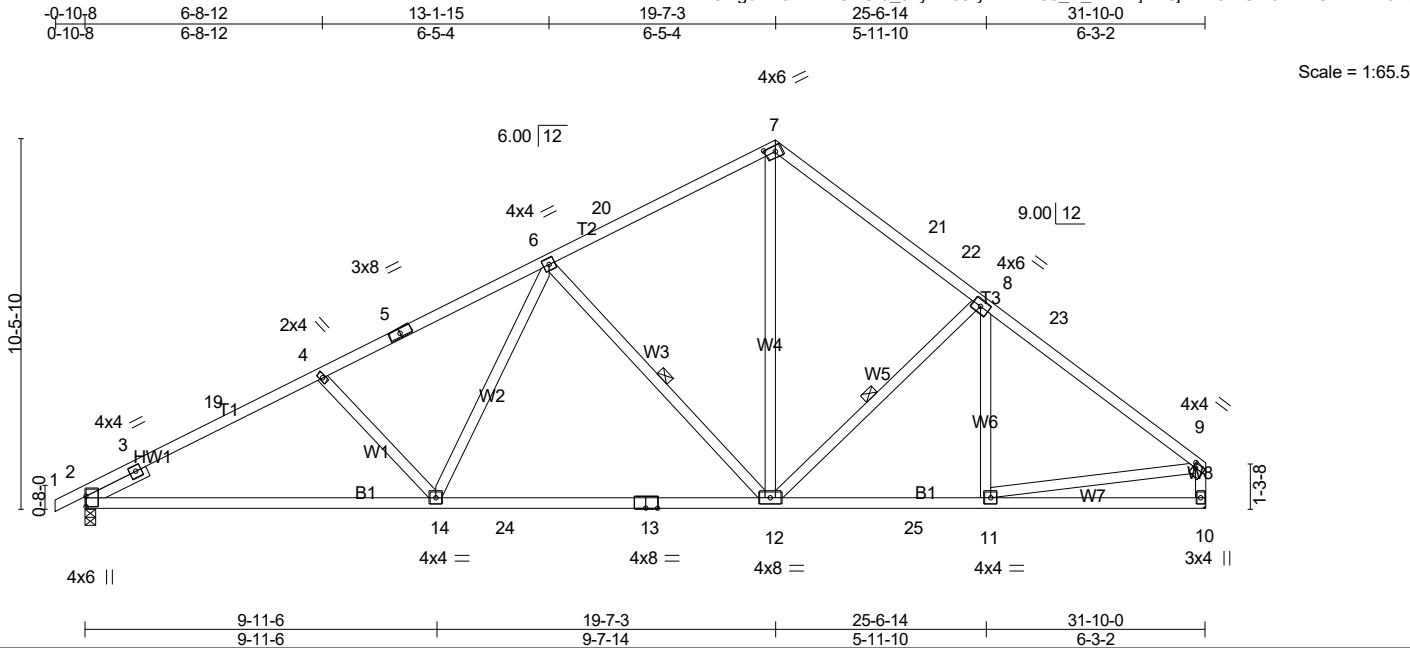


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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R02A	Roof Special	6	1	
					# 57300

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R02B	ROOF SPECIAL	1	1	
					# 57300
					Job Reference (optional)

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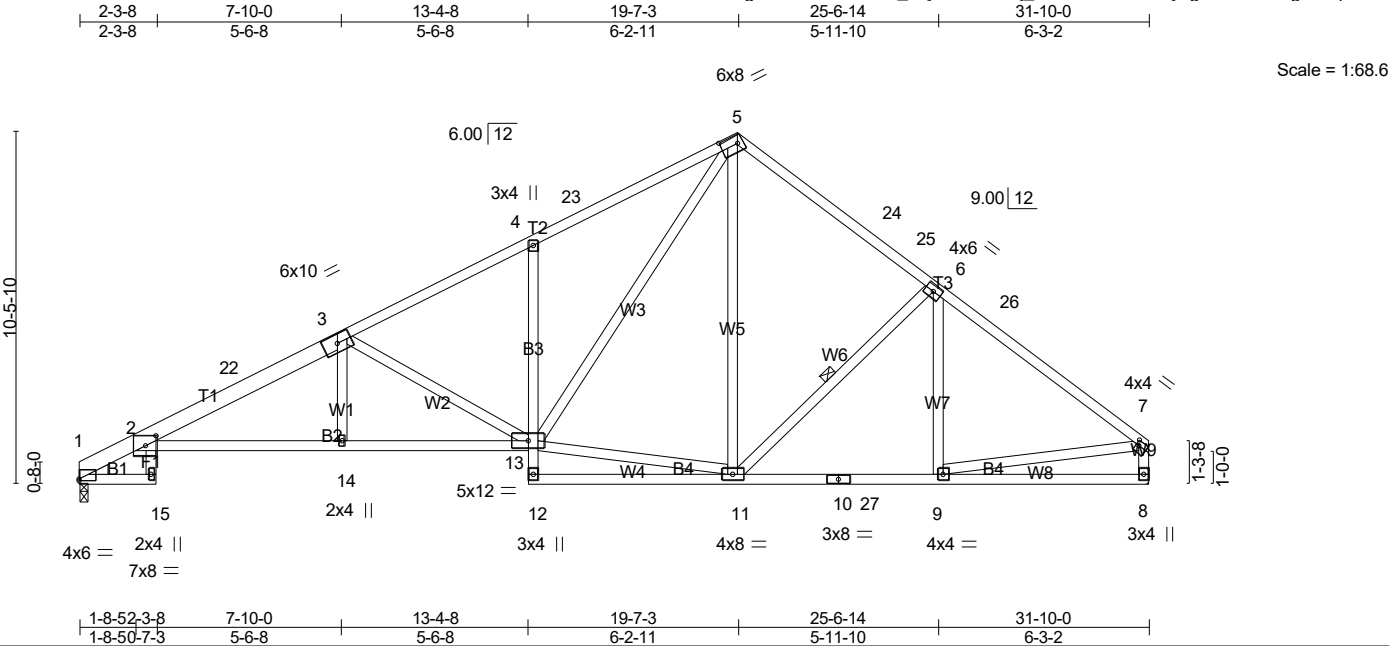


Plate Offsets (X,Y)-- [1:0-0-0,0-0-11], [2:0-3-11,0-3-8], [5:0-6-0,0-3-0], [7:0-1-0,0-1-12]					
LOADING (psf)	SPACING-	2-0-0	CSI.	DEFL.	in (loc) l/defl L/d
TCLL (roof) 20.0	Plate Grip DOL	1.15	TC 0.78	Vert(LL) -0.26	15 >999 240
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.68	Vert(CT) -0.53	15 >715 180
TCDL 10.0	Rep Stress Incr	YES	WB 0.78	Horz(CT) 0.29	8 n/a n/a
BCLL 0.0 *	Code IRC2021/TPI2014		Matrix-AS		
BCDL 10.0					
				Weight: 206 lb	FT = 20%

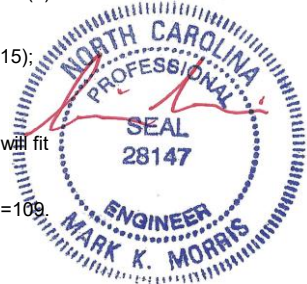
LUMBER-	BRACING-	
TOP CHORD 2x4 SP No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
T1: 2x6 SP DSS	BOT CHORD	Rigid ceiling directly applied.
BOT CHORD 2x4 SP No.2 *Except*	WEBS	1 Row at midpt 6-11
B2: 2x4 SP SS		MiTek recommends that Stabilizers and required cross bracing
WEBS 2x4 SP No.3 *Except*		be installed during truss erection, in accordance with Stabilizer
F1: 2x4 SP No.2		Installation guide.
WEDGE		
Left: 2x4 SP No.3		

REACTIONS. (lb/size) 1=1133/0-3-8 (min. 0-1-8), 8=1122/Mechanical
Max Horz 1=205(LC 11)
Max Uplift 1=-109(LC 14), 8=-65(LC 15)
Max Grav 1=1279(LC 2), 8=1268(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-589/114, 2-22=-2694/251, 3-22=-2624/272, 3-4=-1907/256, 4-23=-1894/323,
5-23=-1811/348, 5-24=-1193/258, 24-25=-1228/236, 6-25=-1307/226, 6-26=-1342/200,
7-26=-1540/180, 7-8=-1205/166
BOT CHORD 2-14=-319/2450, 13-14=-317/2461, 4-13=-349/171, 10-11=-86/1150, 10-27=-86/1150,
9-27=-86/1150
WEBS 3-14=0/337, 3-13=-953/184, 11-13=-17/846, 5-13=-244/1203, 5-11=-68/284, 6-11=-374/163,
7-9=-48/989

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - 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, Interior(1) 4-9-10 to 14-9-10, Exterior(2R) 14-9-10 to 24-4-13, Interior(1) 24-4-13 to 26-10-10, Exterior(2E) 26-10-10 to 31-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8 except (jt=lb) 1=109.
 - 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.

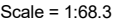
LOAD CASE(S) Standard



3/3/2025

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Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 4 12:28:12 2025 Page 1
D:\Wl8rk6gBK5SaRYCYGf9_0xywFJ5-vzT5BZ7HVnEuUOW5XqABgtqMaZEKqxUqvaOPQFzeJXH



Weight: 207 lb FT = 20%

3/3/2025

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 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R03	Roof Special	3	1	
Job Reference (optional)					# 57300

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 4 12:28:12 2025 Page 1
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-0-10-8	6-8-12	12-8-9	19-7-3	25-6-14	31-10-0
0-10-8	6-8-12	5-11-13	6-10-10	5-11-10	6-3-2

Scale = 1:72.6

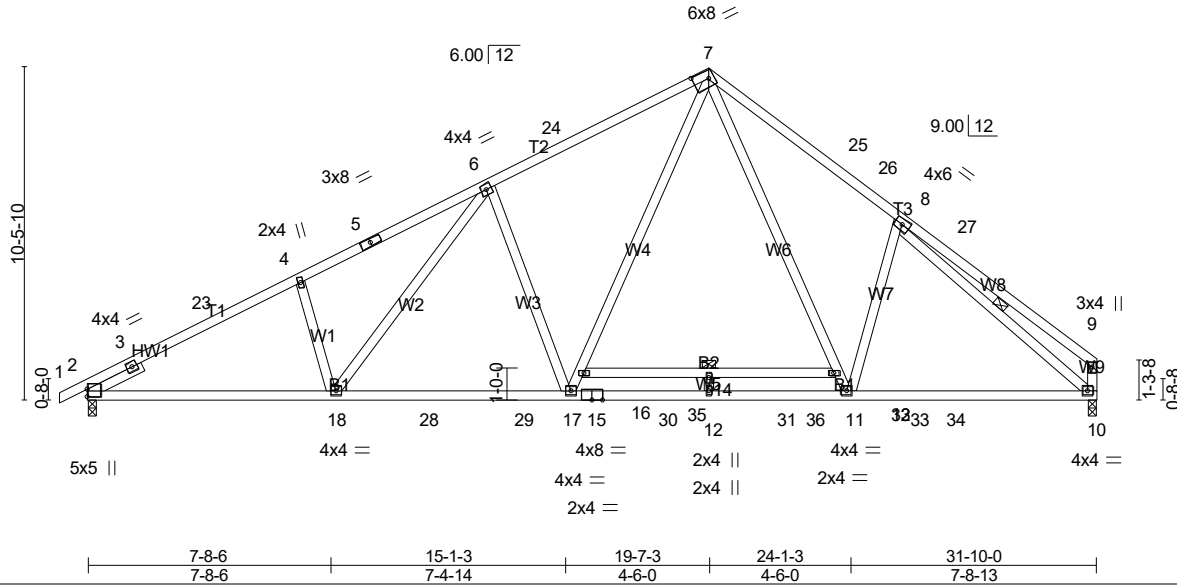


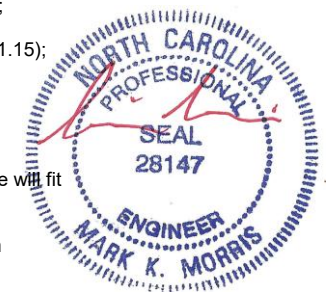
Plate Offsets (X,Y)-- [7:0-6-0,0-3-0]					
LOADING (psf)		SPACING-	CSI.	DEFL.	PLATES
TCLL (roof)	20.0	2-0-0	TC 0.71	in (loc)	MT20
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) -0.42 14 >910 240	GRIP 244/190
TCDL	10.0	Lumber DOL 1.15	WB 0.67	Vert(CT) -0.64 14 >596 180	
BCLL	0.0 *	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.07 10 n/a n/a	
BCDL	10.0	Code IRC2021/TPI2014			Weight: 201 lb FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x4 SP SS *Except*	BOT CHORD
B2: 2x4 SP No.2	
WEBS 2x4 SP No.3	WEBS
SLIDER Left 2x4 SP No.3 1-11-0	

Structural wood sheathing directly applied, except end verticals.
Rigid ceiling directly applied. Except:
6-0-0 oc bracing: 13-16
1 Row at midpt 8-10
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS.	(lb/size) 2=1229/0-3-8 (min. 0-1-12), 10=1223/0-3-8 (min. 0-1-14) Max Horz 2=209(LC 11) Max Uplift 2=-98(LC 14), 10=-15(LC 15) Max Grav 2=1475(LC 3), 10=1607(LC 29)
FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD	2-3=-867/0, 3-23=-2495/150, 4-23=-2421/164, 4-5=-2415/186, 5-6=-2295/210, 6-24=-1992/195, 7-24=-1910/216, 7-25=-1905/238, 25-26=-1933/215, 8-26=-2002/205, 9-27=-377/109, 9-10=-342/118
BOT CHORD	2-18=-203/2174, 18-28=-98/1891, 28-29=-98/1891, 17-29=-98/1891, 15-17=0/1246, 15-30=0/1246, 12-30=0/1246, 12-31=0/1246, 31-32=0/1246, 11-32=0/1246, 11-33=-35/1527, 33-34=-35/1527, 10-34=-35/1527
WEBS	4-18=-274/153, 6-18=-107/470, 6-17=-604/224, 16-17=-120/1060, 7-16=-88/1169, 7-13=-97/753, 11-13=-129/646, 8-10=-1811/8

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - 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 14-9-10, Exterior(2R) 14-9-10 to 24-4-13, Interior(1) 24-4-13 to 26-10-10, Exterior(2E) 26-10-10 to 31-8-4 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 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.



LOAD CASE(S) Standard

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3/3/2025

Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R03A	ROOF SPECIAL	2	1	
Job Reference (optional)					# 57300

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 4 12:28:13 2025 Page 1
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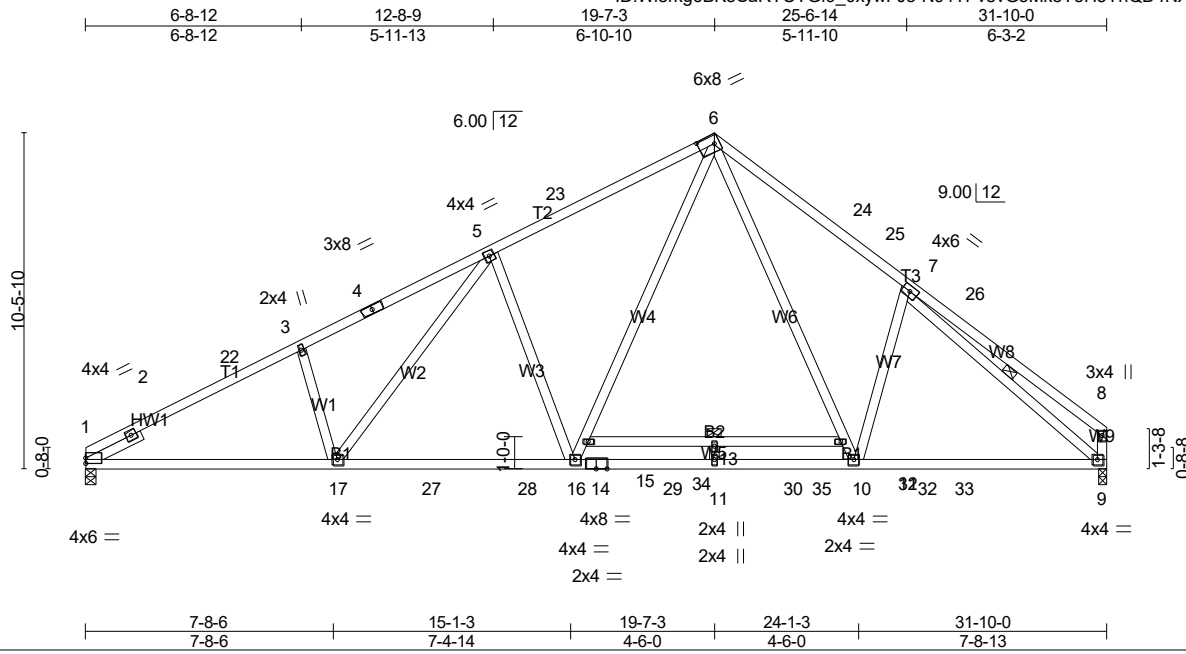


Plate Offsets (X,Y)-- [1:0-0-0,0-2-1], [6:0-6-0,0-3-0]					
LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.69	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.80	Vert(LL) -0.42 13 >910 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.67	Vert(CT) -0.64 13 >596 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.07 9 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014				
				Weight: 199 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD
BOT CHORD 2x4 SP SS *Except*	BOT CHORD
B2: 2x4 SP No.2	
WEBS 2x4 SP No.3	WEBS
SLIDER Left 2x4 SP No.3 1-11-0	
Structural wood sheathing directly applied, except end verticals.	
Rigid ceiling directly applied. Except:	
6-0-0 oc bracing: 12-15	
1 Row at midpt 7-9	
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.	

REACTIONS. (lb/size) 1=1184/0-3-8 (min. 0-1-11), 9=1223/0-3-8 (min. 0-1-14)
Max Horz 1=203(LC 11)
Max Uplift 1=-83(LC 14), 9=-15(LC 15)
Max Grav 1=1430(LC 3), 9=1608(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-894/0, 2-22=-2499/158, 3-22=-2426/172, 3-4=-2420/195, 4-5=-2300/219,
5-23=-1993/197, 6-23=-1911/218, 6-24=-1906/240, 24-25=-1932/217, 7-25=-2003/207,
8-26=-377/109, 8-9=-342/118
BOT CHORD 1-17=-204/2179, 17-27=-98/1892, 27-28=-98/1892, 16-28=-98/1892, 14-16=0/1246,
14-29=0/1246, 11-29=0/1246, 11-30=0/1246, 30-31=0/1246, 10-31=0/1246, 10-32=-37/1527,
32-33=-37/1527, 9-33=-37/1527
WEBS 3-17=-276/153, 5-17=-108/475, 5-16=-605/224, 15-16=-120/1061, 6-15=-88/1171,
6-12=-97/753, 10-12=-129/646, 7-9=-1812/10

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) 0-0-0 to 4-9-10, Interior(1) 4-9-10 to 14-9-10, Exterior(2R) 14-9-10 to 24-4-13, Interior(1) 24-4-13 to 26-10-10, Exterior(2E) 26-10-10 to 31-8-4 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); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.0
4) Unbalanced snow loads have been considered for this design.
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) 1, 9.
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.

LOAD CASE(S) Standard



3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R03B	ROOF SPECIAL	2	1	
Job Reference (optional)					# 57300

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 4 12:28:14 2025 Page 1
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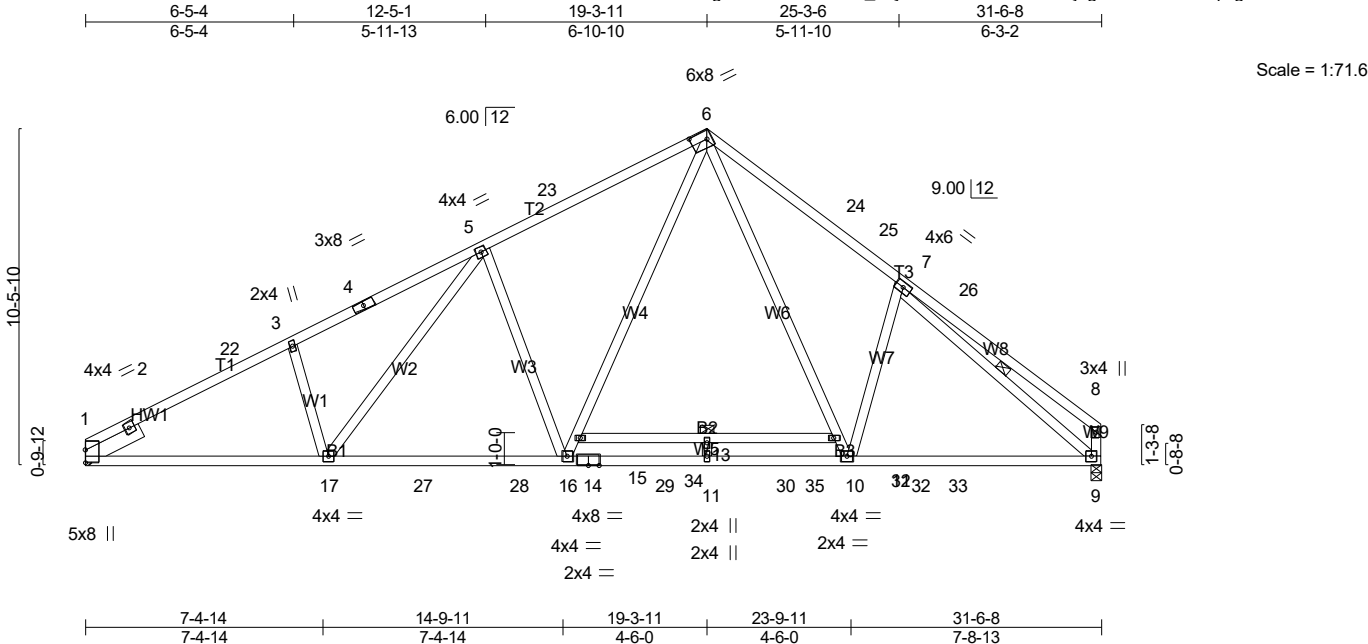


Plate Offsets (X,Y)-- [1:0-4-13,0-0-1], [6:0-6-0,0-3-0]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	
TCLL (roof)	20.0	2-0-0		TC	0.75	in (loc)	l/defl	MT20	GRIP
Snow (Pf/Pg)	15.4/20.0	Plate Grip DOL	1.15	BC	0.80	-0.42	13 >901		244/190
TCDL	10.0	Lumber DOL	1.15	WB	0.67	-0.64	13 >592		
BCLL	0.0 *	Rep Stress Incr	YES	Matrix-AS		0.06	9 n/a		
BCDL	10.0	Code IRC2021/TPI2014					n/a		
								Weight: 200 lb FT = 20%	

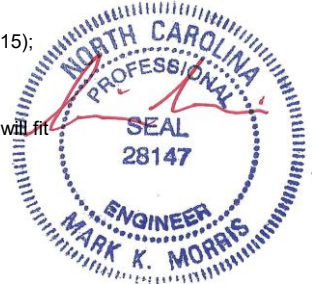
LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2 *Except*	TOP CHORD	Structural wood sheathing directly applied, except end verticals.
	T1: 2x4 SP No.1	BOT CHORD	Rigid ceiling directly applied. Except:
BOT CHORD	2x4 SP SS *Except*		6-0-0 oc bracing: 12-15
	B2: 2x4 SP No.2	WEBS	1 Row at midpt 7-9
WEBS	2x4 SP No.3		MiTek recommends that Stabilizers and required cross bracing
SLIDER	Left 2x6 SP No.2 1-11-0		be installed during truss erection, in accordance with Stabilizer
			Installation guide.

REACTIONS. (lb/size) 1=1175/Mechanical, 9=1212/0-3-8 (min. 0-1-14)
Max Horz 1=200(LC 11)
Max Uplift1=-81(LC 14), 9=-15(LC 15)
Max Grav 1=1423(LC 3), 9=1595(LC 28)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-622/0, 2-22=-2394/155, 3-22=-2306/167, 3-4=-2297/190, 4-5=-2261/214,
5-23=-1966/196, 6-23=-1883/217, 6-24=-1888/239, 24-25=-1914/216, 7-25=-1985/206,
8-26=-376/109, 8-9=-341/118
BOT CHORD 1-17=-197/2073, 17-27=-96/1857, 27-28=-96/1857, 16-28=-96/1857, 14-16=0/1232,
14-29=0/1232, 11-29=0/1232, 11-30=0/1232, 30-31=0/1232, 10-31=0/1232, 10-32=-36/1513,
32-33=-36/1513, 9-33=-36/1513
WEBS 5-17=-102/392, 5-16=-578/222, 15-16=-118/1038, 6-15=-87/1147, 6-12=-98/754,
10-12=-129/648, 7-9=-1793/9

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - 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) 0-3-8 to 5-1-2, Interior(1) 5-1-2 to 14-9-10, Exterior(2R) 14-9-10 to 24-4-13, Interior(1) 24-4-13 to 26-10-10, Exterior(2E) 26-10-10 to 31-8-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 psf (Lum DOL=1.15 Plate DOL=1.15); Is=1.0; Rough Cat B; Partially Exp.; Ce=1.0; Cs=1.00; Ct=1.0
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 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.

LOAD CASE(S) Standard



3/3/2025

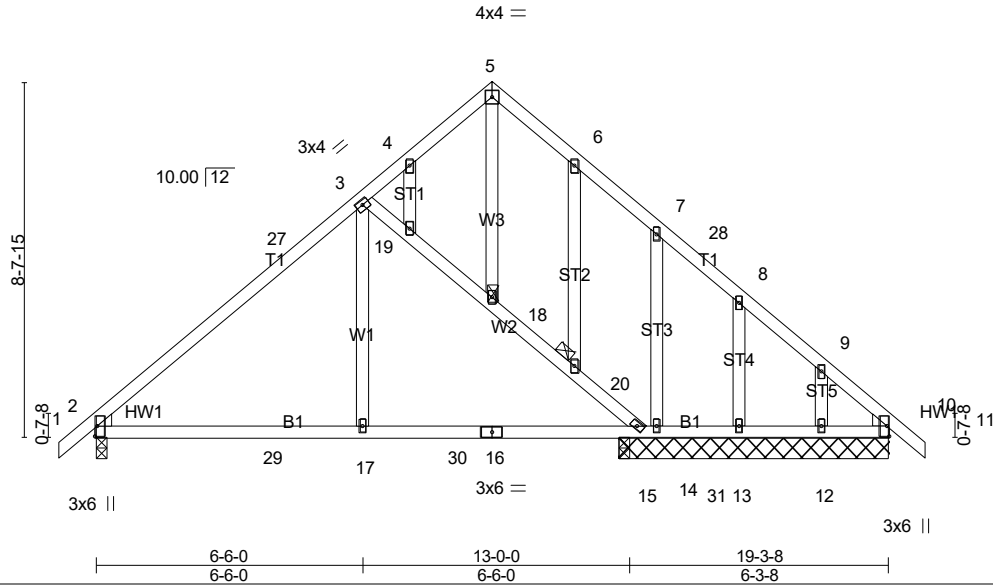
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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R04	Common Structural Gable	1	1	
Job Reference (optional)					# 57300

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 4 12:28:15 2025 Page 1
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0-10-8 6-6-0 9-7-12 19-3-8 20-2-0
0-10-8 6-6-0 3-1-12 9-7-12 0-10-8

Scale = 1:56.0



LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.37	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.43	Vert(LL) 0.05 17-23 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.20	Vert(CT) -0.07 17-23 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 2 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 124 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
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.
JOINTS 1 Brace at Jt(s): 18, 20

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

REACTIONS.

All bearings 6-7-0 except (jt=length) 2=0-3-8.
(lb) - Max Horz 2=-171(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 13 except 14=-399(LC 5), 12=-106(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 10, 12, 13, 10 except 2=664(LC 24), 15=852(LC 5), 15=540(LC 1)

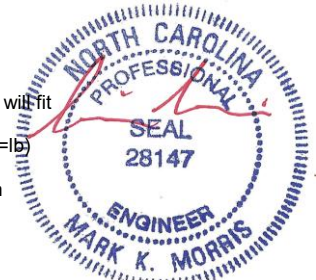
FORCES.

(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-27=-682/14, 3-27=-540/34
BOT CHORD 2-29=-38/555, 17-29=-38/555, 17-30=-38/555, 16-30=-38/555, 15-16=-38/555
WEBS 3-19=-573/165, 18-19=-543/146, 18-20=-546/147, 15-20=-564/157, 3-17=0/384

NOTES-

- Unbalanced roof live loads have been considered for this design.
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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 4-10-2, Exterior(2R) 4-10-2 to 14-5-6, Interior(1) 14-5-6 to 15-4-6, Exterior(2E) 15-4-6 to 20-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- 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.
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- All plates are 2x4 MT20 unless otherwise indicated.
- Gable studs spaced at 2-0-0 oc.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13 except (jt=lb) 14=399, 12=106.
- 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.

LOAD CASE(S) Standard



3/3/2025

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 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R05	Common	4	1	
Job Reference (optional)					# 57300

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 4 12:28:15 2025 Page 1
ID:Wl8rkg6BK5SaRYCYGf9_0xywFJ5-JX9Ep99oicSLrEgCzkuIVSzmld1Q3GbYd30azeJXE

-0-10-8 4-10-3 9-7-12 14-5-5 19-3-8 20-2-0
0-10-8 4-10-3 4-9-9 4-9-9 4-10-3 0-10-8

4x4 =

Scale = 1:54.8

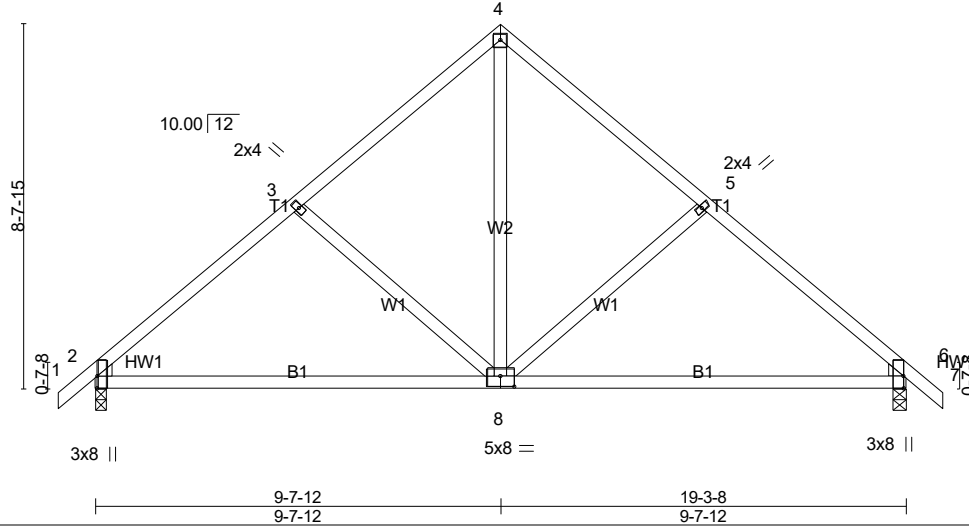


Plate Offsets (X,Y)-- [2:0-3-8,Edge], [6:0-3-8,Edge], [8:0-4-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.26	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.76	Vert(LL) -0.12 8-14 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Vert(CT) -0.25 8-14 >919 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 6 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 101 lb	FT = 20%

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
BOT CHORD

Structural wood sheathing directly applied.
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=727/0-3-8 (min. 0-1-8), 6=727/0-3-8 (min. 0-1-8)
Max Horz 2=-171(LC 10)
Max Uplift 2=-60(LC 12), 6=-60(LC 13)
Max Grav 2=824(LC 2), 6=824(LC 2)

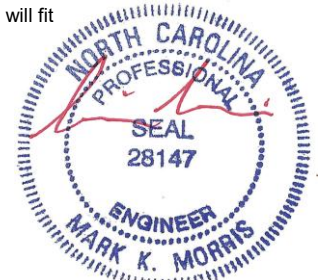
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-3=-921/127, 3-4=-716/138, 4-5=-716/138, 5-6=-921/127
BOT CHORD 2-8=-91/687, 6-8=-13/656
WEBS 4-8=-63/555, 5-8=-267/161, 3-8=-267/161

NOTES-

- Unbalanced roof live loads have been considered for this design.
- 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 4-8-14, Exterior(2R) 4-8-14 to 14-6-10, Interior(1) 14-6-10 to 15-4-6, Exterior(2E) 15-4-6 to 20-2-0 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
- 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.

LOAD CASE(S) Standard

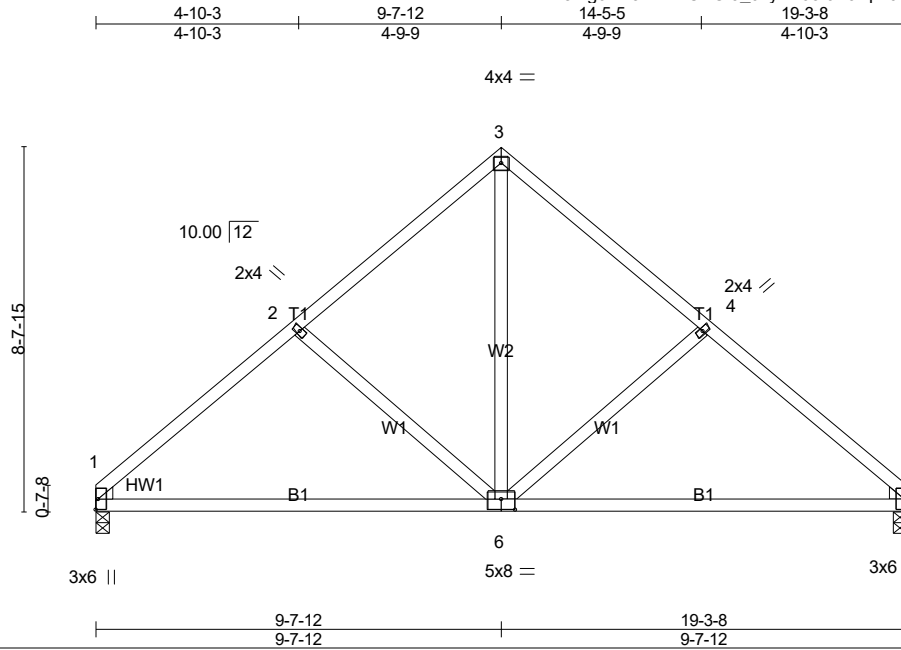


3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R06	Common	1	1	Job Reference (optional) # 57300

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Scale = 1:54.8

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.27	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.77	Vert(LL) -0.12 6-12 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.21	Vert(CT) -0.25 6-12 >913 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 1 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 98 lb	FT = 20%

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
BOT CHORD

Structural wood sheathing directly applied.
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=683/0-3-8 (min. 0-1-8), 5=683/0-3-8 (min. 0-1-8)
Max Horz 1=157(LC 9)
Max Uplift1=-46(LC 12), 5=-46(LC 13)
Max Grav 1=772(LC 2), 5=772(LC 2)

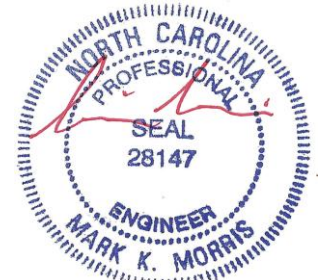
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 1-2=-910/130, 2-3=-721/141, 3-4=-721/141, 4-5=-910/130
BOT CHORD 1-6=-102/685, 5-6=-38/662
WEBS 3-6=-67/557, 4-6=-271/163, 2-6=-271/162

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- 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 4-8-14, Exterior(2R) 4-8-14 to 14-6-10, Exterior(2E) 14-6-10 to 19-3-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 5.
- 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.

LOAD CASE(S) Standard

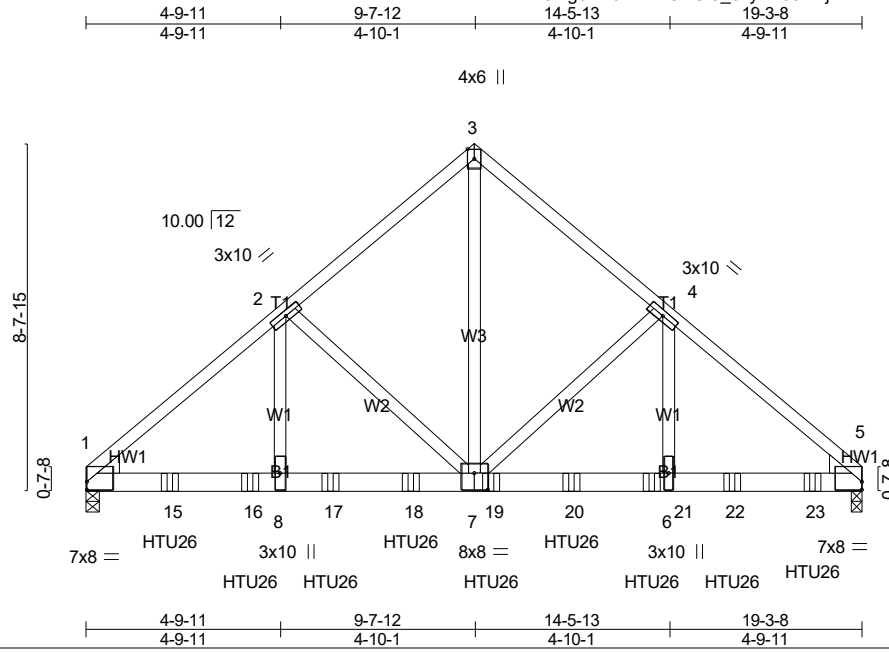


3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R07	Common Girder	1	2	# 57300

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Scale = 1:57.4

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

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.51	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.50	Vert(LL) -0.09 7-8 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.81	Vert(CT) -0.19 7-8 >999 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MSH	Horz(CT) 0.04 5 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 254 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x6 SP DSS
WEBS 2x4 SP No.3 *Except*
W3: 2x4 SP No.2
WEDGE
Left: 2x6 SP No.2, Right: 2x6 SP No.2

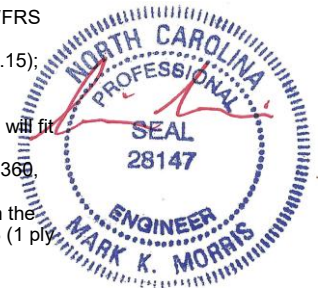
BRACING-
TOP CHORD Structural wood sheathing directly applied or 4-0-6 oc purlins.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (lb/size) 1=5442/0-3-8 (min. 0-3-2), 5=6003/0-3-8 (min. 0-3-7)
Max Horz 1=157(LC 34)
Max Uplift 1=-360(LC 10), 5=-312(LC 11)
Max Grav 1=6157(LC 2), 5=6843(LC 3)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-2=-7910/479, 2-3=-5488/401, 3-4=-5490/401, 4-5=-8044/440
BOT CHORD 1-15=-400/6005, 15-16=-400/6005, 8-16=-400/6005, 8-17=-400/6005, 17-18=-400/6005,
7-18=-400/6005, 7-19=-290/6115, 19-20=-290/6115, 20-21=-290/6115, 6-21=-290/6115,
6-22=-290/6115, 22-23=-290/6115, 5-23=-290/6115
WEBS 3-7=-415/6610, 4-7=-2718/236, 4-6=-89/3239, 2-7=-2474/276, 2-8=-138/2906

NOTES- (11)
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 0-6-0 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=120mph (3-second gust) Vasd=95mph; 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); Pg=20.0 psf; Pf=15.4 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 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) except (jt=lb) 1=360, 5=312.
9) Use Simpson Strong-Tie HTU26 (10-16d Girder, 14-10dx1 1/2 Truss) or equivalent spaced at 2-0-0 oc max. starting at 2-0-12 from the left end to 18-0-12 to connect truss(es) R02A (1 ply 2x4 SP), R02 (1 ply 2x4 SP), R02B (1 ply 2x4 SP), R02C (1 ply 2x4 SP), R03B (1 ply 2x4 SP) to back face of bottom chord.
10) Fill all nail holes where hanger is in contact with lumber.

Continued on page 2
LOAD CASE(S) Standard



3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R07	Common Girder	1	2	Job Reference (optional) # 57300

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LOAD CASE(S) Standard
1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (plf)
Vert: 1-3=-51, 3-5=-51, 9-12=-20
Concentrated Loads (lb)
Vert: 15=-1101(B) 16=-1102(B) 17=-1102(B) 18=-1102(B) 19=-1102(B) 20=-1092(B) 21=-1092(B) 22=-1192(B) 23=-1192(B)

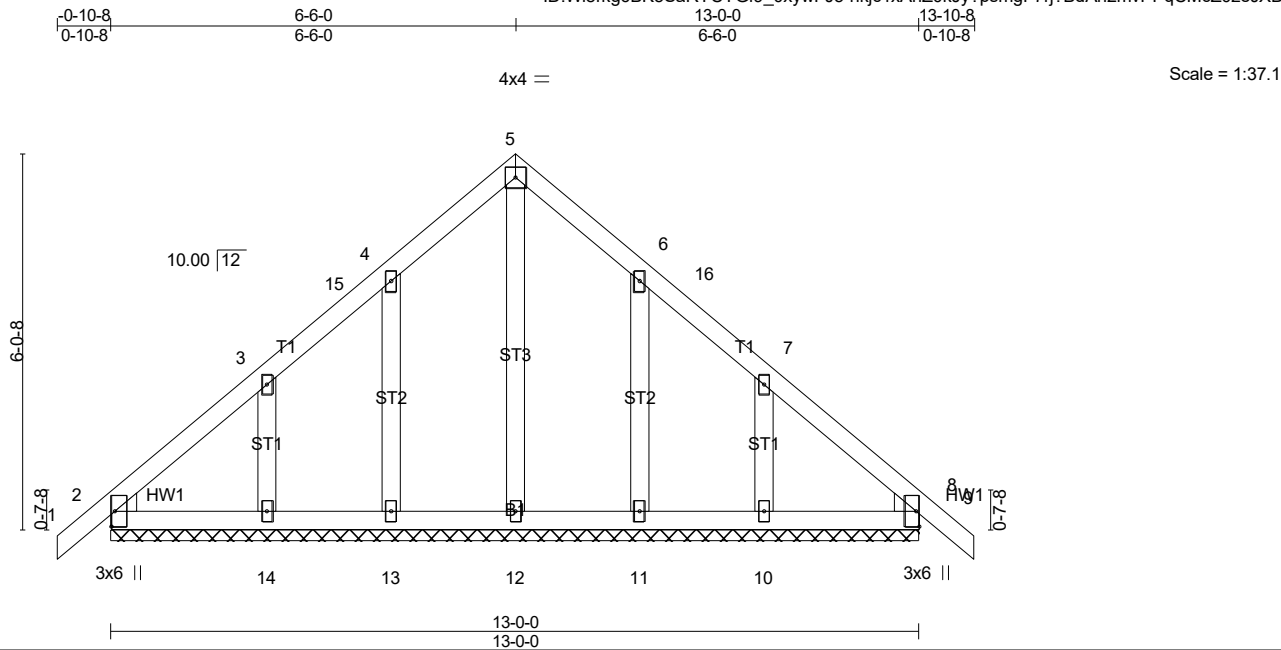


3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R08	Common Supported Gable	1	1	Job Reference (optional) # 57300

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LOADING (psf)	SPACING-	CS.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.07	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.11	Vert(LL) 0.00 8 n/r 180		
TCDL 10.0	Lumber DOL 1.15	WB 0.08	Vert(CT) 0.00 9 n/r 80		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 8 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 75 lb	FT = 20%

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

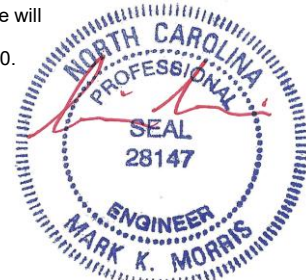
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 13-0-0.
(lb) - Max Horz 2=-120(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 2, 13, 14, 11, 10
Max Grav All reactions 250 lb or less at joint(s) 2, 8, 12, 13, 14, 11, 10

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

- NOTES-** (12)
- Unbalanced roof live loads have been considered for this design.
 - 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 9-0-14, Corner(3E) 9-0-14 to 13-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 13, 14, 11, 10.

LOAD CASE(S) Standard

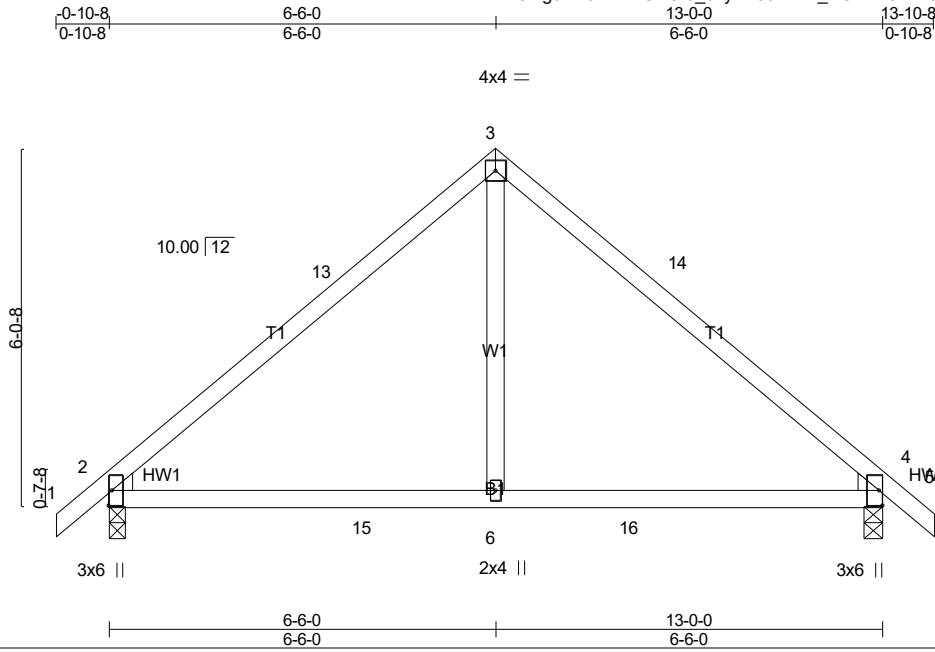


3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R09	Common	2	1	Job Reference (optional) # 57300

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Scale = 1:38.7

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 0.41	Vert(LL)	-0.05 6-12	>999	240	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.47	Vert(CT)	-0.08 6-12	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.15	Horz(CT)	0.02 2	n/a	n/a		
BCLL 0.0 *	Code IRC2021/TPI2014		Matrix-AS						
BCDL 10.0								Weight: 58 lb	FT = 20%

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.

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

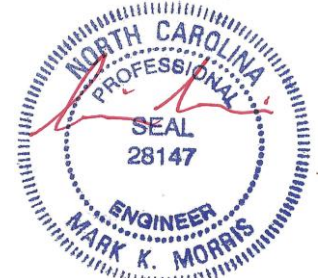
REACTIONS. (lb/size) 2=505/0-3-8 (min. 0-1-8), 4=505/0-3-8 (min. 0-1-8)
Max Horz 2=120(LC 11)
Max Uplift 2=-45(LC 12), 4=-45(LC 13)
Max Grav 2=616(LC 24), 4=616(LC 25)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-650/97, 3-13=-508/117, 3-14=-508/117, 4-14=-650/97
BOT CHORD 2-15=0/456, 6-15=0/456, 6-16=0/456, 4-16=0/456
WEBS 3-6=0/389

NOTES- (9)

- Unbalanced roof live loads have been considered for this design.
- 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 9-0-14, Exterior(2E) 9-0-14 to 13-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 4.
- 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.

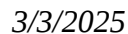
LOAD CASE(S) Standard



3/3/2025

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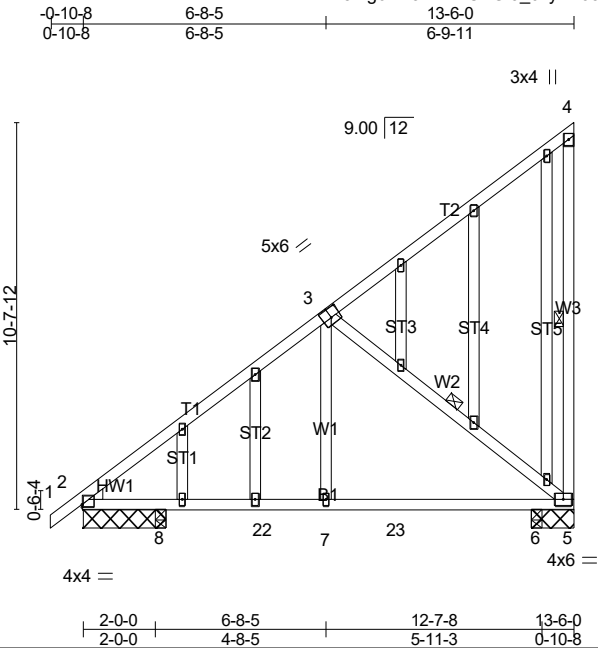
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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R12	Monopitch Structural Gable	1	1	
Job Reference (optional)					# 57300

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 4 12:28:17 2025 Page 1
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Scale = 1:63.2

Plate Offsets (X,Y)-- [2:0-0-0,0-0-15], [3:0-3-0,0-3-0]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.78	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.55	Vert(LL) -0.02 6-7 >999 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.22	Vert(CT) -0.05 6-7 >999 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.01 5 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 117 lb	FT = 20%

LUMBER-
TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
WEBS 2x4 SP No.3
OTHERS 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 4-5, 3-5
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 2-3-8 except (jt=length) 5=1-2-0, 8=0-3-8, 6=0-3-8.
(lb) - Max Horz 2=311(LC 11)
Max Uplift All uplift 100 lb or less at joint(s) 8, 6 except 5=-272(LC 9)
Max Grav All reactions 250 lb or less at joint(s) 8 except 2=508(LC 25), 5=544(LC 24), 6=328(LC 11), 2=402(LC 1)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-678/62
BOT CHORD 2-8=-127/499, 8-22=-127/499, 7-23=-127/499, 7-23=-127/497, 6-23=-127/497, 5-6=-127/497
WEBS 3-7=0/300, 3-5=-587/168

- NOTES-** (11-14)
- 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 8-6-10, Exterior(2E) 8-6-10 to 13-4-4 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
 - 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.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6 except (jt=lb) 5=272.
 - 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.



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R12	Monopitch Structural Gable	1	1	Job Reference (optional) # 57300

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- 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



3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R13	Monopitch	10	1	Job Reference (optional) # 57300

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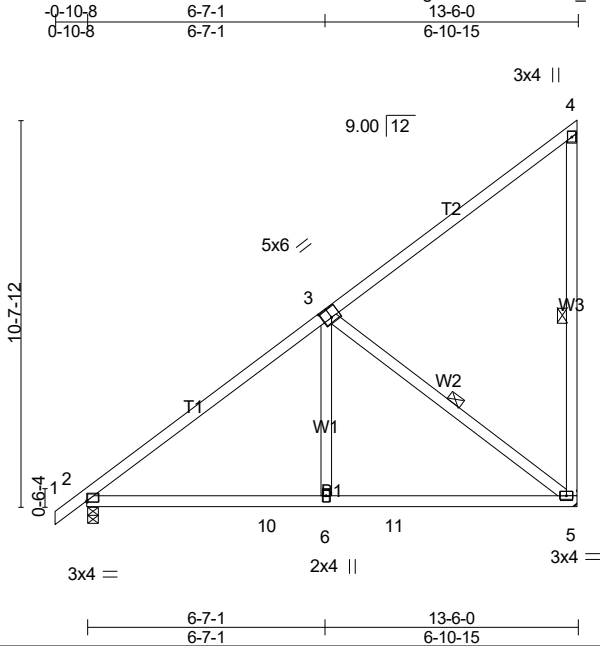


Plate Offsets (X,Y)-- [2:0-0-0,0-0-7], [3:0-3-0,0-3-4]					
LOADING (psf)	TCLL (roof)	20.0	SPACING-	2-0-0	CSI.
	Snow (Pf/Pg)	15.4/20.0		Plate Grip DOL	
	TCDL	10.0		Lumber DOL	
	BCLL	0.0 *		Rep Stress Incr	
	BCDL	10.0		Code IRC2021/TPI2014	
DEFLECT.	in (loc)	l/defl	L/d	PLATES	GRIP
	Vert(LL)	-0.05	5-6		
	Vert(CT)	-0.10	5-6		
	Horz(CT)	0.01	5		
				Weight: 81 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.
WEBS 1 Row at midpt 4-5, 3-5

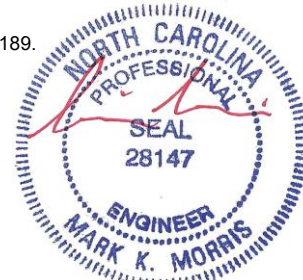
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 2=519/0-3-8 (min. 0-1-8), 5=471/Mechanical
Max Horz2=323(LC 12)
Max Uplift5=-189(LC 12)
Max Grav2=620(LC 24), 5=631(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-667/0
BOT CHORD 2-10=-153/534, 6-10=-153/534, 6-11=-154/530, 5-11=-154/530
WEBS 3-6=0/353, 3-5=-657/191

- NOTES-** (9)
- 1) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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 8-6-10, Exterior(2E) 8-6-10 to 13-4-4 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 2) TCCL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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 15.4 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, with BCDL = 10.0psf.
 - 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) except (jt=lb) 5=189.
 - 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.

LOAD CASE(S) Standard



3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R14	Monopitch Girder	1	1	
					Job Reference (optional) # 57300

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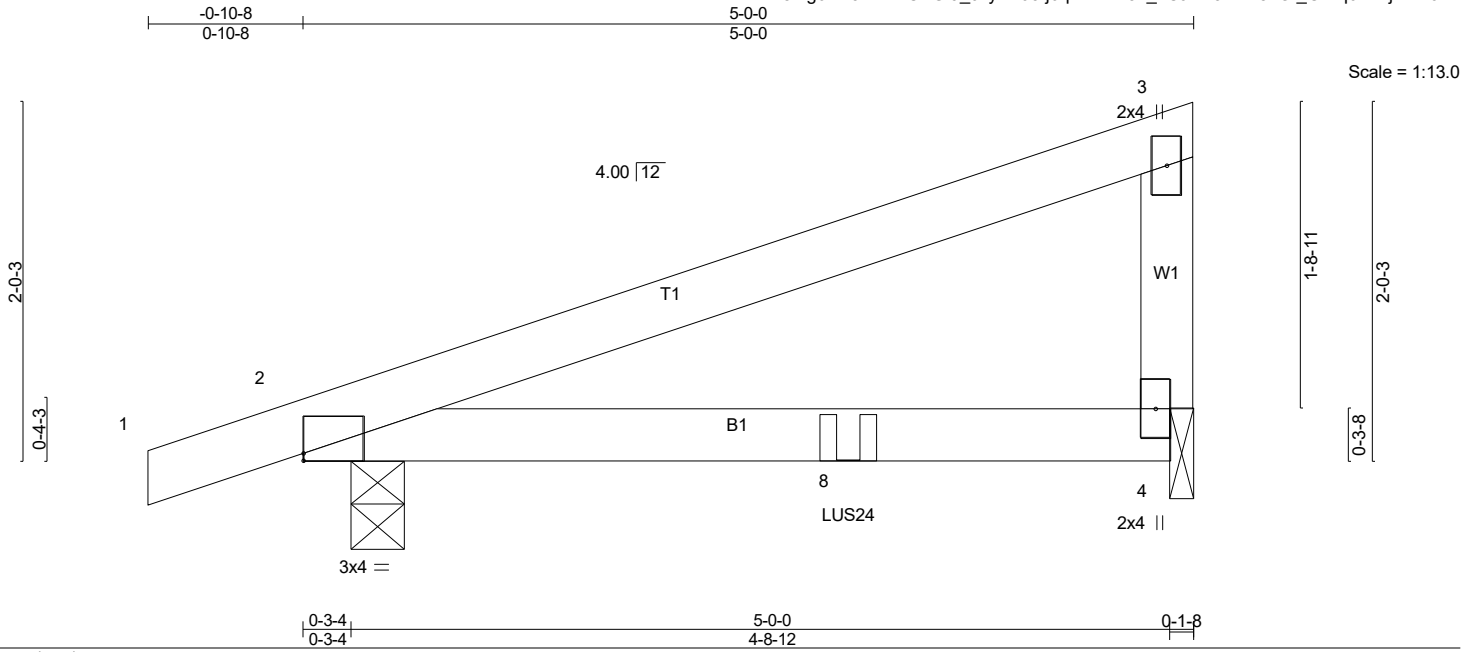


Plate Offsets (X,Y)-- [2:0-0-0,0-0-8]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.70	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.92	Vert(LL) -0.09 4-7 >625 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.17 4-7 >350 180		
BCLL 0.0 *	Rep Stress Incr NO	Matrix-MP	Horz(CT) 0.00 2 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 19 lb	FT = 20%

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

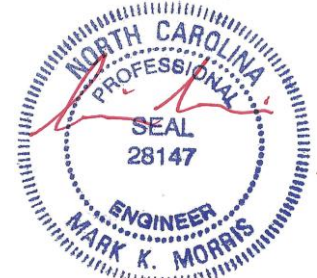
BRACING-
TOP CHORD Structural wood sheathing directly applied or 5-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 8-1-8 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 4=396/0-1-8 (min. 0-1-8), 2=354/0-3-8 (min. 0-1-8)
Max Horz2=61(LC 8)
Max Uplift4=-86(LC 8), 2=-92(LC 8)
Max Grav4=451(LC 19), 2=433(LC 19)

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

- NOTES-** (13)
- 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; porch left exposed; 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); Pg=20.0 psf; Pf=15.4 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 15.4 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, 2.
 - 10) Use Simpson Strong-Tie LUS24 (4-10dx1 1/2 Girder, 2-10d Truss, Single Ply Girder) or equivalent at 3-0-12 from the left end to connect truss(es) R15 (1 ply 2x4 SP) to front face of bottom chord.
 - 11) Fill all nail holes where hanger is in contact with lumber.
 - 12) 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: 1-3=-51, 4-5=-20



Continued on page 2

3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R14	Monopitch Girder	1	1	Job Reference (optional) # 57300

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LOAD CASE(S) Standard
Concentrated Loads (lb)
Vert: 8--361(F)



3/3/2025

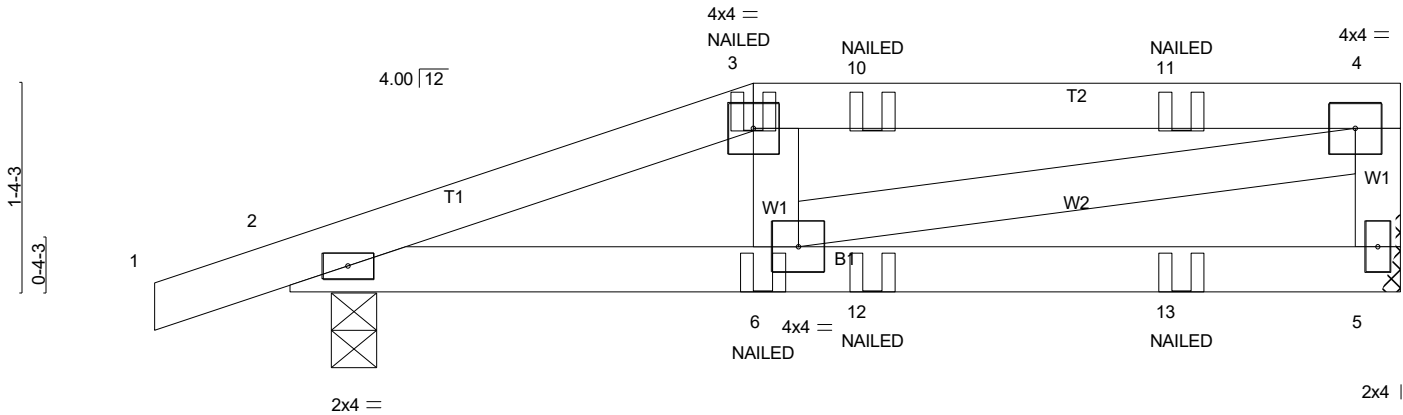
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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R15	Half Hip Girder	1	1	
Job Reference (optional)					# 57300

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Scale = 1:14.9



LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES		GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.53	in (loc)	l/defl	L/d	MT20	244/190	
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.26	Vert(LL)	0.02	5-6 >999			
TCDL	10.0	Rep Stress Incr	NO	WB	0.27	Vert(CT)	-0.03	5-6 >999			
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-MP		Horz(CT)	0.00	5 n/a			
BCDL	10.0										
										Weight: 31 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 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

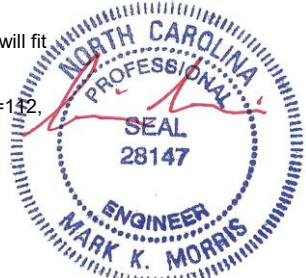
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=357/Mechanical, 2=365/0-3-8 (min. 0-1-8)
Max Horz 2=39(LC 11)
Max Uplift 5=-112(LC 8), 2=-132(LC 8)
Max Grav 5=381(LC 33), 2=445(LC 34)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-682/203, 3-10=-620/198, 10-11=-620/198, 4-11=-620/198, 4-5=-330/99
BOT CHORD 2-6=-183/623
WEBS 4-6=-197/643

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TC DL=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
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=50-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
 - Unbalanced snow loads have been considered for this design.
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - Provide adequate drainage to prevent water ponding.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=142, 2=132.
 - "NAILED" indicates 3-10d (0.148"x3") or 3-12d (0.148"x3.25") toe-nails per NDS guidelines.
 - 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



Continued on page 2

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R15	Half Hip Girder	1	1	Job Reference (optional) # 57300

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LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (plf)

Vert: 1-3=-51, 3-4=-61, 5-7=-20

Concentrated Loads (lb)

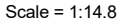
Vert: 3=-27(B) 6=-21(B) 10=-24(B) 11=-23(B) 12=-21(B) 13=-21(B)



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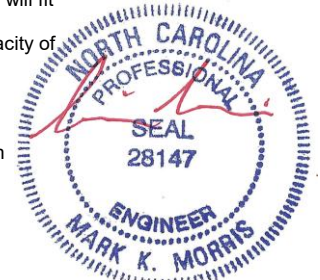
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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.

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 4 12:28:19 2025 Page 1
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Weight: 26 lb FT = 20

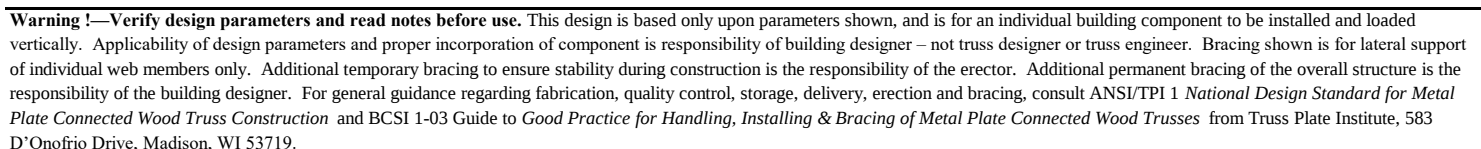
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

LOAD CASE(S) Standard



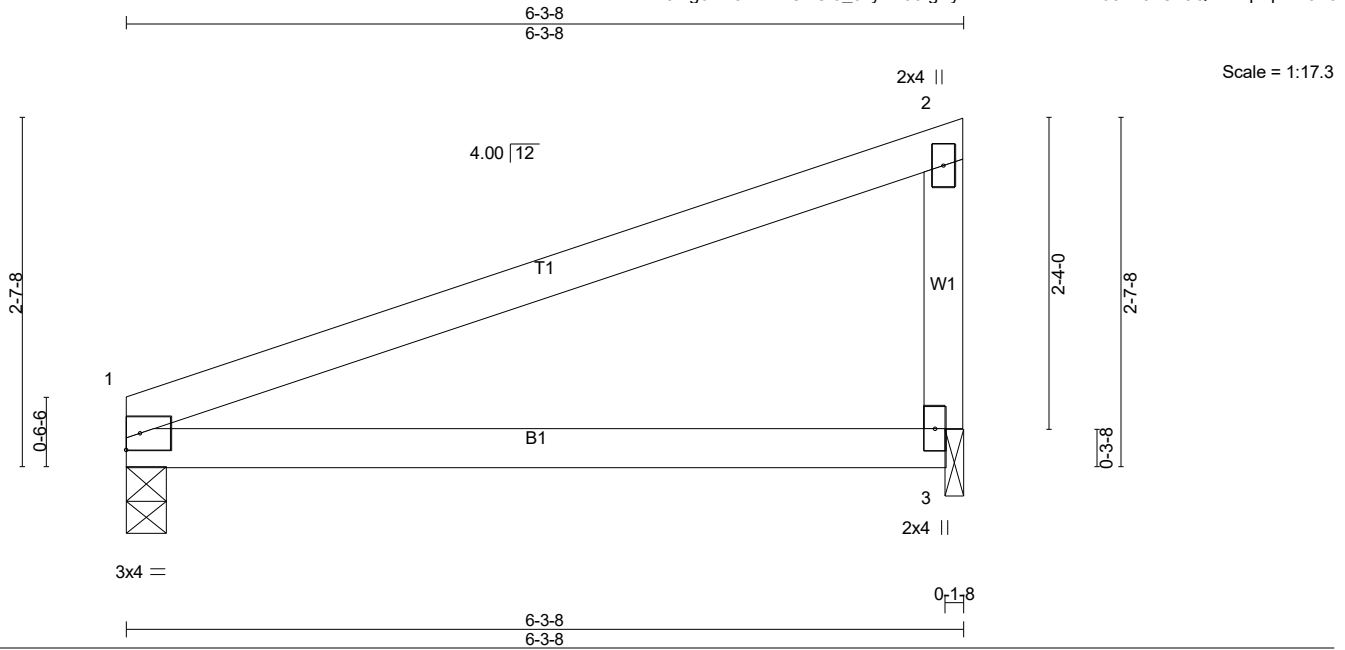
Warning !—Verify design parameters and read notes before use. This design is based only upon parameters shown, and is for an individual building component to be installed and loaded vertically. Applicability of design parameters and proper incorporation of component is responsibility of building designer – 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.

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R18	Monopitch	2	1	Job Reference (optional) # 57300

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LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.67	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.47	Vert(LL) 0.17 3-6 >424 240		
TCDL 10.0	Lumber DOL 1.15	WB 0.00	Vert(CT) -0.15 3-6 >492 180		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS	Horz(CT) 0.02 1 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 22 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.

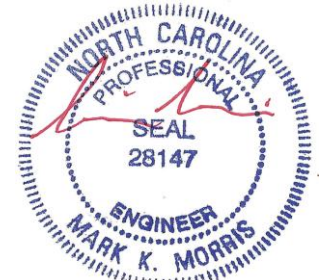
REACTIONS. (lb/size) 1=218/0-3-8 (min. 0-1-8), 3=218/0-1-8 (min. 0-1-8)
Max Horz 1=73(LC 13)
Max Uplift1=-71(LC 10), 3=-83(LC 10)
Max Grav 1=285(LC 21), 3=290(LC 21)

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); Pg=20.0 psf; Pf=15.4 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.

LOAD CASE(S) Standard

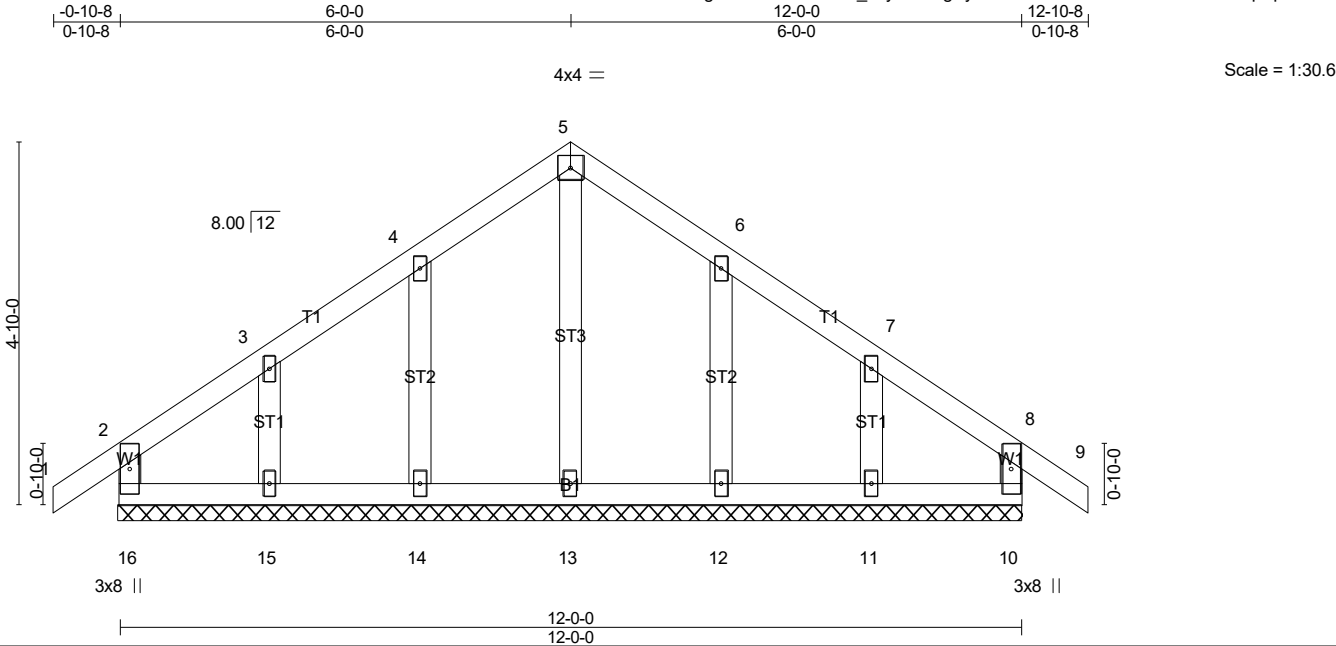


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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R19	Common Supported Gable	1	1	Job Reference (optional) # 57300

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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	9	n/r	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.05	Vert(CT)	-0.00	9	n/r		
TCDL 10.0	Rep Stress Incr	YES	WB 0.05	Horz(CT)	0.00	10	n/a		
BCLL 0.0 *	Code IRC2021/TPI2014		Matrix-R						
BCDL 10.0								Weight: 64 lb	FT = 20%

LUMBER-	BRACING-
TOP CHORD 2x4 SP No.2	TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD 2x4 SP No.3	BOT CHORD Rigid ceiling directly applied or 6-0-0 oc bracing.
WEBS 2x4 SP No.3	
OTHERS 2x4 SP No.3	
	MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 12-0-0.
(lb) - Max Horz 16=-90(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 16, 10, 14, 15, 12, 11
Max Grav All reactions 250 lb or less at joint(s) 16, 10, 13, 14, 15, 12, 11

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

- NOTES-** (13)
- Unbalanced roof live loads have been considered for this design.
 - 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 4-0-0, Corner(3R) 4-0-0 to 8-0-0, Corner(3E) 8-0-0 to 12-10-8 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Truss to be fully sheathed from one face or securely braced against lateral movement (i.e. diagonal web).
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 16, 10, 14, 15, 12, 11.

LOAD CASE(S) Standard

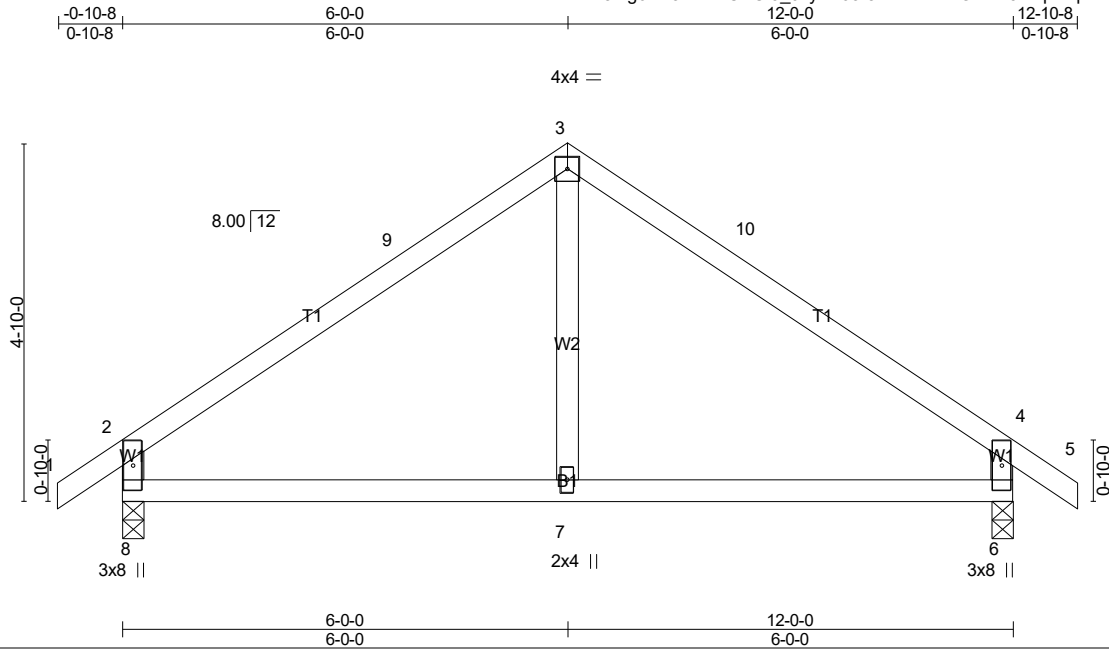


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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R20	Common	4	1	
Job Reference (optional)					# 57300

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Scale = 1:31.1

LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.57	Vert(LL)	-0.02	6-7	>999	240	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.29	Vert(CT)	-0.05	6-7	>999	180		
TCDL 10.0	Lumber DOL 1.15	WB 0.09	Horz(CT)	0.01	6	n/a	n/a		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-AS							
BCDL 10.0	Code IRC2021/TPI2014								
								Weight: 50 lb	FT = 20%

LUMBER-

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

BRACING-

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied, except end verticals.
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=466/0-3-8 (min. 0-1-8), 6=466/0-3-8 (min. 0-1-8)
Max Horz 8=90(LC 11)
Max Uplift 8=48(LC 12), 6=48(LC 13)
Max Grav 8=530(LC 2), 6=530(LC 2)

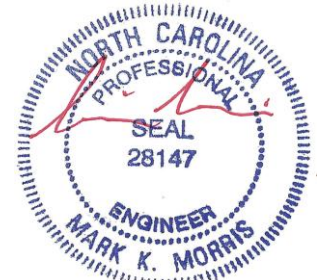
FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.

TOP CHORD 2-9=-506/82, 3-9=-380/99, 3-10=-380/99, 4-10=-506/82, 2-8=-472/144, 4-6=-472/144
BOT CHORD 7-8=-2/334, 6-7=-2/334

NOTES- (9)

- Unbalanced roof live loads have been considered for this design.
- 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 8-0-14, Exterior(2E) 8-0-14 to 12-10-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
- This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 8, 6.
- 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.

LOAD CASE(S) Standard

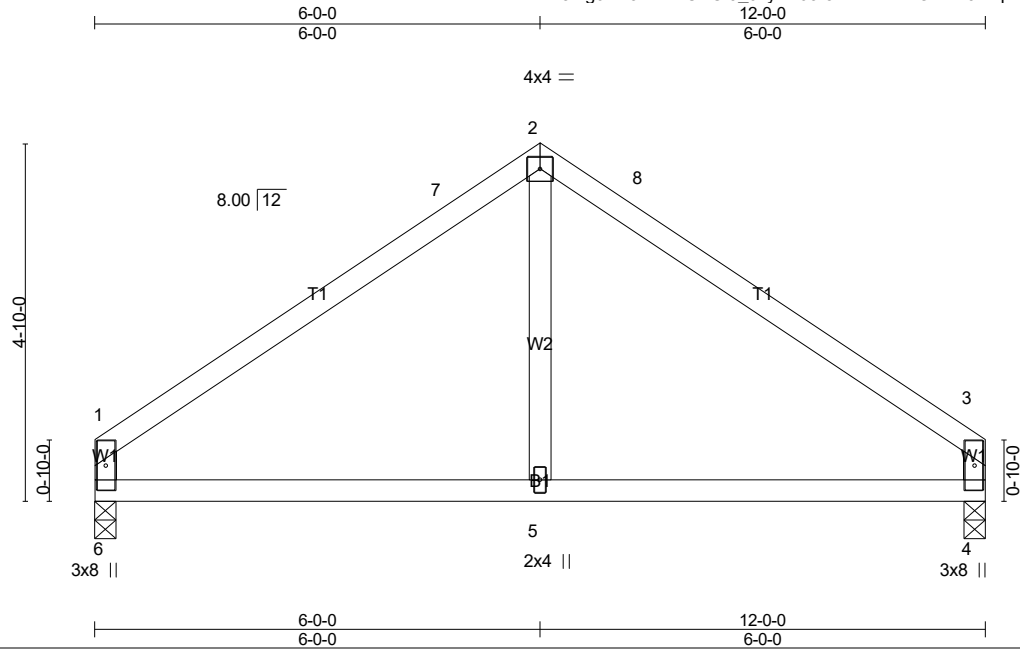


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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R21	Common	1	1	Job Reference (optional) # 57300

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Scale = 1:31.1

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 0.54	Vert(LL)	-0.02	4-5	>999	240	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.28	Vert(CT)	-0.05	4-5	>999	180		
TCDL 10.0	Rep Stress Incr	YES	WB 0.09	Horz(CT)	0.01	4	n/a	n/a		
BCLL 0.0 *	Code IRC2021/TPI2014		Matrix-AS							
BCDL 10.0									Weight: 47 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.

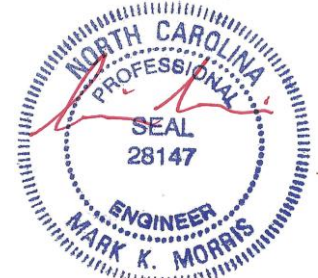
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 6=414/0-3-8 (min. 0-1-8), 4=414/0-3-8 (min. 0-1-8)
Max Horz 6=94(LC 9)
Max Uplift 6=-31(LC 12), 4=-31(LC 13)
Max Grav 6=468(LC 2), 4=468(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 1-7=-510/81, 2-7=-335/99, 2-8=-335/98, 3-8=-510/81, 1-6=-407/104, 3-4=-407/103
BOT CHORD 5-6=-1/342, 4-5=-1/342

- NOTES-** (10)
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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 7-0-10, Exterior(2E) 7-0-10 to 11-10-4 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
 - 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.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 6, 4.
 - 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.

LOAD CASE(S) Standard



3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R22	Common Supported Gable	1	1	
					Job Reference (optional) # 57300

Run: 8.630 s Jul 12 2024 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 4 12:28:22 2025 Page 1
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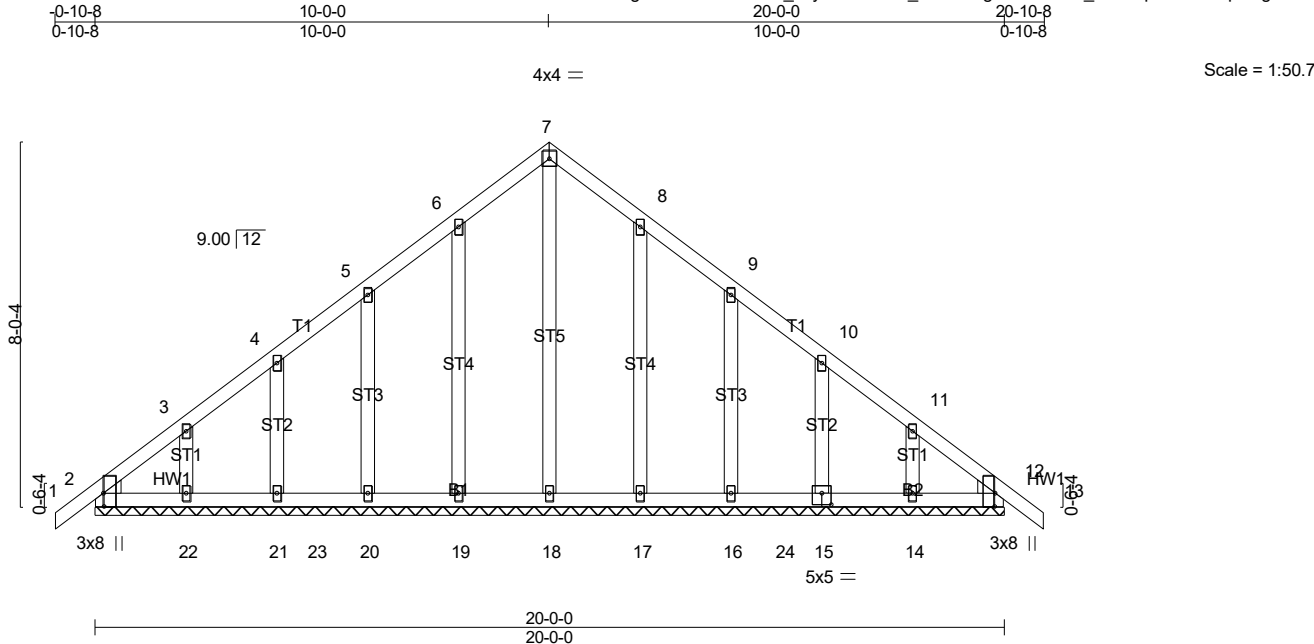


Plate Offsets (X,Y)--	[2:0-3-8,Edge], [12:0-3-8,Edge], [15:0-2-8,0-3-0]
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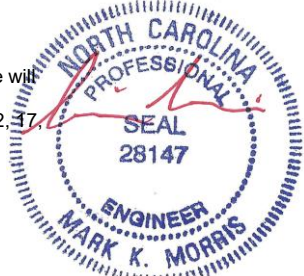
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES GRIP	
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.07	Vert(LL)	-0.00 12 n/r 180	MT20	244/190
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.09	Vert(CT)	-0.00 12 n/r 80		
TCDL	10.0	Rep Stress Incr	YES	WB	0.17	Horz(CT)	0.00 12 n/a n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-S				Weight: 127 lb	FT = 20%
BCDL	10.0								

LUMBER-	BRACING-	Structural wood sheathing directly applied or 6-0-0 oc purlins. 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.
TOP CHORD 2x4 SP No.2	TOP CHORD	
BOT CHORD 2x4 SP No.3	BOT CHORD	
OTHERS 2x4 SP No.3		
WEDGE		
Left: 2x4 SP No.3 , Right: 2x4 SP No.3		

REACTIONS.	All bearings 20-0-0.
(lb) - Max Horz 2=159(LC 11)	
Max Uplift	All uplift 100 lb or less at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12
Max Grav	All reactions 250 lb or less at joint(s) 2, 21, 22, 15, 14, 12 except 18=258(LC 27), 19=264(LC 24), 20=252(LC 24), 17=262(LC 25), 16=253(LC 25)

FORCES.	(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
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- NOTES- (12-15)
- Unbalanced roof live loads have been considered for this design.
 - 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 4-0-0, Exterior(2N) 4-0-0 to 5-2-6, Corner(3R) 5-2-6 to 14-9-10, Exterior(2N) 14-9-10 to 16-0-0, Corner(3E) 16-0-0 to 20-10-8 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
 - 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.
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 19, 20, 21, 22, 17, 16, 15, 14, 12.



Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R22	Common Supported Gable	1	1	Job Reference (optional) # 57300

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- 12) 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.
- 13) 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.
- 14) 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.
- 15) 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



3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R23	Common	6	1	

Job Reference (optional) # 57300

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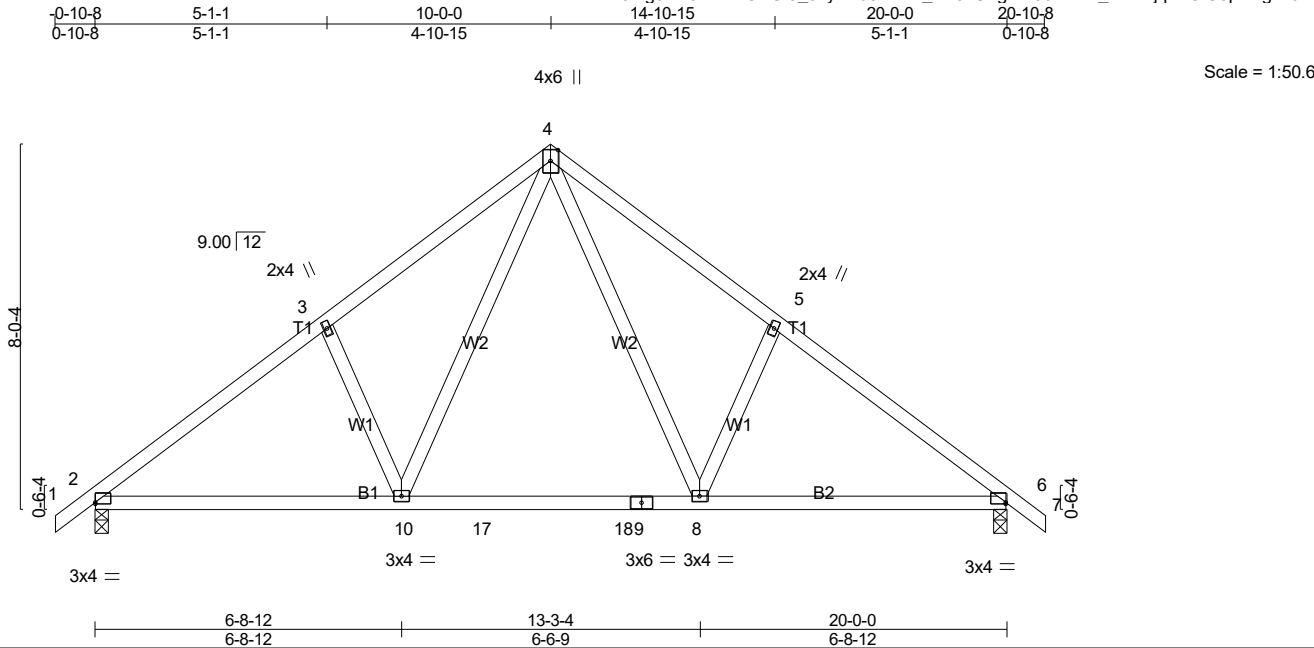


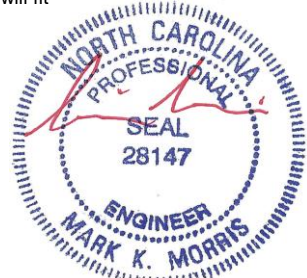
Plate Offsets (X,Y)-- [2:0-0-0,0-0-7], [6:Edge,0-0-7]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL (roof)	20.0	2-0-0	Plate Grip DOL	1.15	TC	0.25	in (loc)	I/defl	L/d
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.54	Vert(LL)	-0.13 8-10	>999	240
TCDL	10.0	Rep Stress Incr	YES	WB	0.19	Vert(CT)	-0.18 8-10	>999	180
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS		Horz(CT)	0.02 6	n/a	n/a
BCDL	10.0								
								Weight: 107 lb	FT = 20%

LUMBER-		BRACING-	
TOP CHORD	2x4 SP No.2	TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	2x4 SP No.2	BOT CHORD	Rigid ceiling directly applied.
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=752/0-3-8 (min. 0-1-8), 6=752/0-3-8 (min. 0-1-8)
Max Horz 2=-159(LC 10)
Max Uplift 2=-67(LC 12), 6=-67(LC 13)
Max Grav 2=852(LC 2), 6=853(LC 2)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-3=-1062/120, 3-4=-979/181, 4-5=-980/181, 5-6=-1062/120
BOT CHORD 2-10=-91/894, 10-17=0/593, 17-18=0/593, 9-18=0/593, 8-9=0/593, 6-8=-14/804
WEBS 4-8=-100/503, 5-8=-267/168, 4-10=-99/503, 3-10=-267/167

- NOTES-** (9-12)
- Unbalanced roof live loads have been considered for this design.
 - 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 5-0-6, Exterior(2R) 5-0-6 to 14-11-10, Interior(1) 14-11-10 to 16-0-14, Exterior(2E) 16-0-14 to 20-10-8 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
 - TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
 - This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 2, 6.
 - 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.



Continued on page 2

3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	R23	Common	6	1	Job Reference (optional) # 57300

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- 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

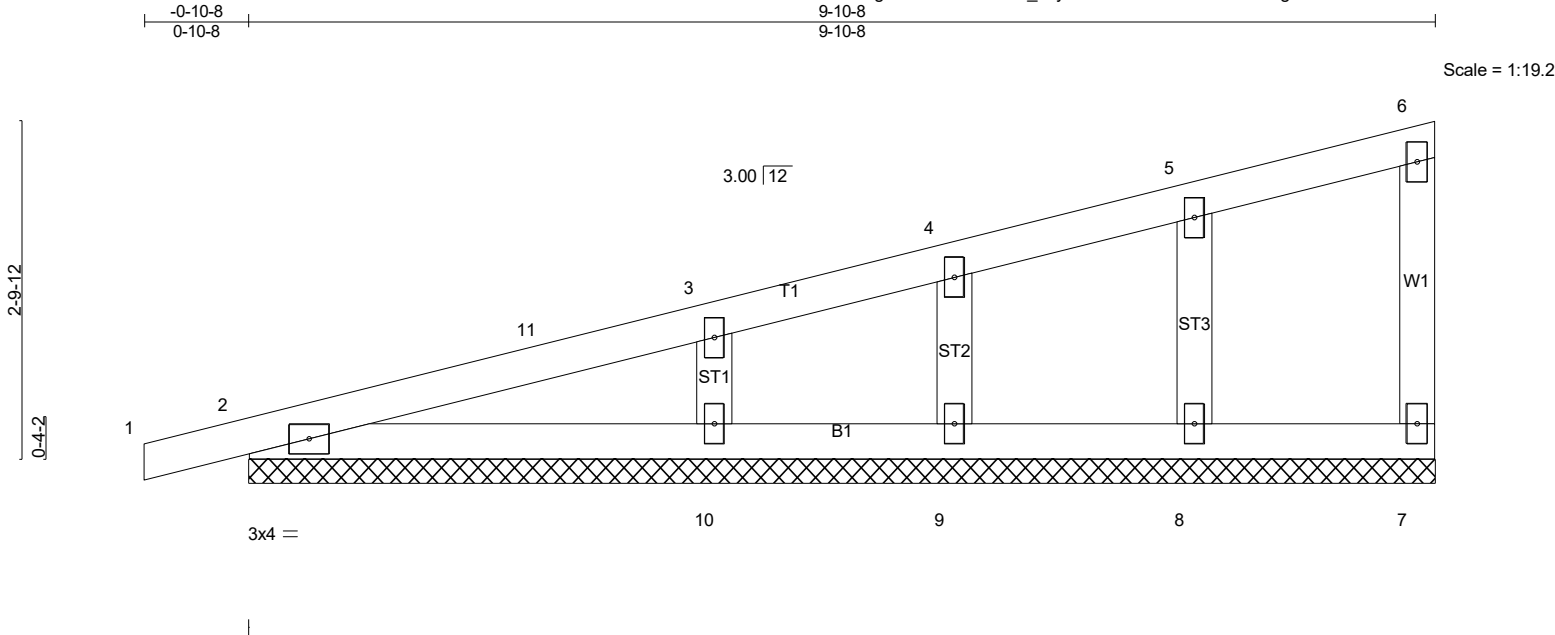


3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	SP01	GABLE	1	1	
					Job Reference (optional) # 57300

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LOADING (psf)	SPACING-	CSI.	DEFL.	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.18	Vert(LL) 0.01	1	n/r	180		MT20	244/190
Snow (Pf) 20.0	Plate Grip DOL 1.15	BC 0.18	Vert(CT) 0.01	1	n/r	80			
TCDL 10.0	Lumber DOL 1.15	WB 0.06	Horz(CT) 0.00	7	n/a	n/a			
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S							
BCDL 10.0	Code IRC2021/TPI2014							Weight: 40 lb	FT = 20%

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

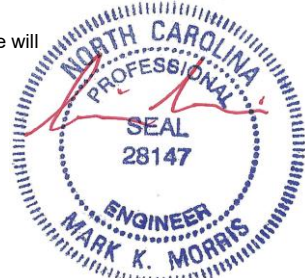
BRACING-
TOP CHORD Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 9-10-8.
(lb) - Max Horz 2=83(LC 10)
Max Uplift All uplift 100 lb or less at joint(s) 7, 2, 8, 9, 10
Max Grav All reactions 250 lb or less at joint(s) 7, 2, 8, 9 except 10=362(LC 21)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 3-10=-275/187

- NOTES-** (12)
- Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=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 3-10-8, Exterior(2N) 3-10-8 to 4-11-2, Corner(3E) 4-11-2 to 9-8-12 zone;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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.
 - 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
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - All plates are 2x4 MT20 unless otherwise indicated.
 - Gable requires continuous bottom chord bearing.
 - Gable studs spaced at 2-0-0 oc.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 7, 2, 8, 9, 10.

LOAD CASE(S) Standard



3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	SP02	Monopitch	5	1	
					Job Reference (optional) # 57300

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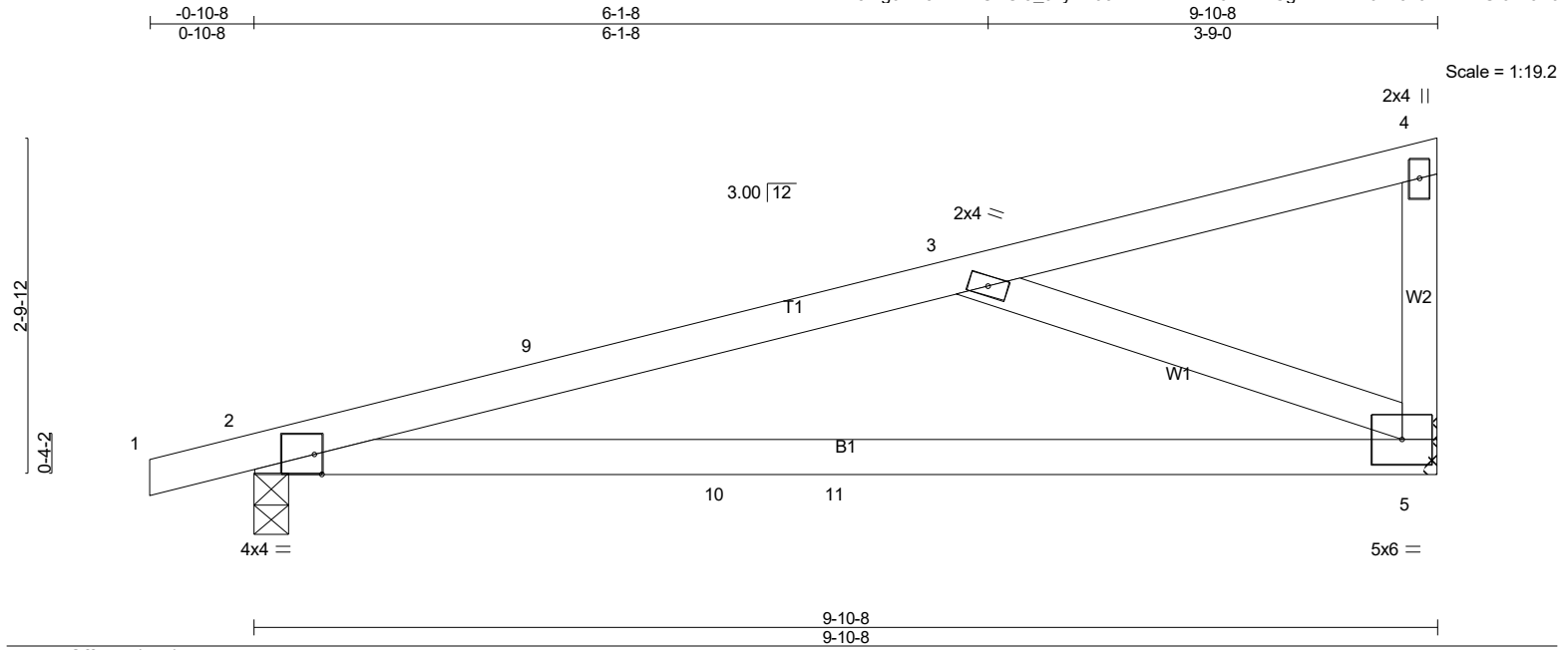


Plate Offsets (X,Y)-- [2:0-0-12,Edge]									
LOADING (psf)		SPACING- 2-0-0		CSI.		DEFL. in (loc) l/defl L/d		PLATES	GRIP
TCLL (roof)	20.0	Plate Grip DOL	1.15	TC	0.77	Vert(LL)	0.37 5-8 >318 240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.66	Vert(CT)	-0.37 5-8 >314 180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.28	Horz(CT)	0.01 5 n/a n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS				Weight: 40 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
BOT CHORD

Structural wood sheathing directly applied, except end verticals.
Rigid ceiling directly applied.

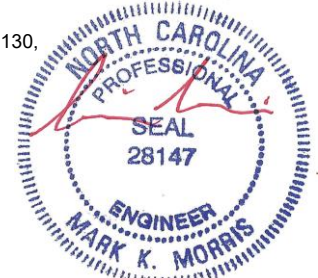
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. (lb/size) 5=387/Mechanical, 2=444/0-3-8 (min. 0-1-8)
Max Horz 2=83(LC 10)
Max Uplift 5=-130(LC 10), 2=-140(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=-865/477, 3-9=-849/488
BOT CHORD 2-10=-558/823, 10-11=-558/823, 5-11=-558/823
WEBS 3-5=-816/499

- NOTES-** (10)
- 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 4-11-2, Exterior(2E) 4-11-2 to 9-8-12 zone; porch left exposed; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 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
 - Unbalanced snow loads have been considered for this design.
 - 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.
 - This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - * 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.
 - Refer to girder(s) for truss to truss connections.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) except (jt=lb) 5=130, 2=140.
 - 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.

LOAD CASE(S) Standard

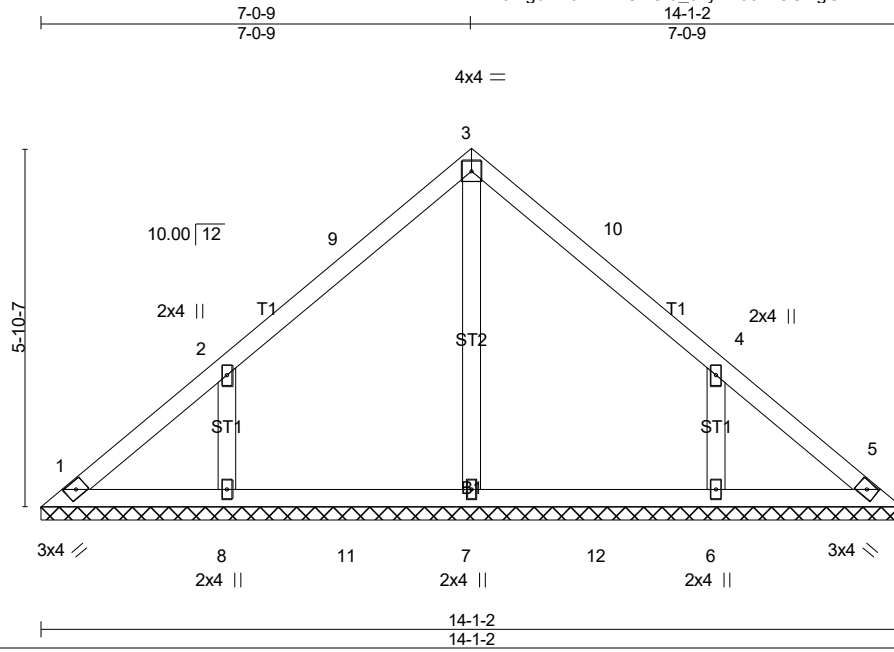


3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	VT01	Valley	1	1	Job Reference (optional) # 57300

Run: 8.430 s Feb 12 2021 Print: 8.630 s Jul 12 2024 MiTek Industries, Inc. Tue Mar 4 12:28:24 2025 Page 1
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Scale = 1:37.7

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL (roof) 20.0	2-0-0	TC 0.18	in (loc) l/defl L/d	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Plate Grip DOL 1.15	BC 0.31	Vert(LL) n/a - n/a 999		
TCDL 10.0	Lumber DOL 1.15	WB 0.10	Vert(CT) n/a - n/a 999		
BCLL 0.0 *	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.00 5 n/a n/a		
BCDL 10.0	Code IRC2021/TPI2014			Weight: 61 lb	FT = 20%

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

BRACING-
TOP CHORD
BOT CHORD

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

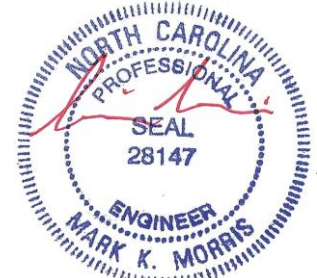
MiTek recommends that Stabilizers and required cross bracing be installed during truss erection, in accordance with Stabilizer Installation guide.

REACTIONS. All bearings 14-1-2.
(lb) - Max Horz 1=-108(LC 8)
Max Uplift All uplift 100 lb or less at joint(s) 1 except 8=-132(LC 12), 6=-131(LC 13)
Max Grav All reactions 250 lb or less at joint(s) 1, 5 except 7=387(LC 23), 8=349(LC 23), 6=349(LC 24)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
WEBS 2-8=-255/166, 4-6=-255/166

NOTES- (8)
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=120mph (3-second gust) Vasd=95mph; TCCL=5.0psf; BCDL=5.0psf; h=23ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) gable end zone and C-C Exterior(2E) 0-4-13 to 5-2-7, Exterior(2R) 5-2-7 to 8-10-11, Exterior(2E) 8-10-11 to 13-8-4 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); Pg=20.0 psf; Pf=15.4 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) 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, with BCDL = 10.0psf.
7) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1 except (jt=lb) 8=132, 6=131.

LOAD CASE(S) Standard

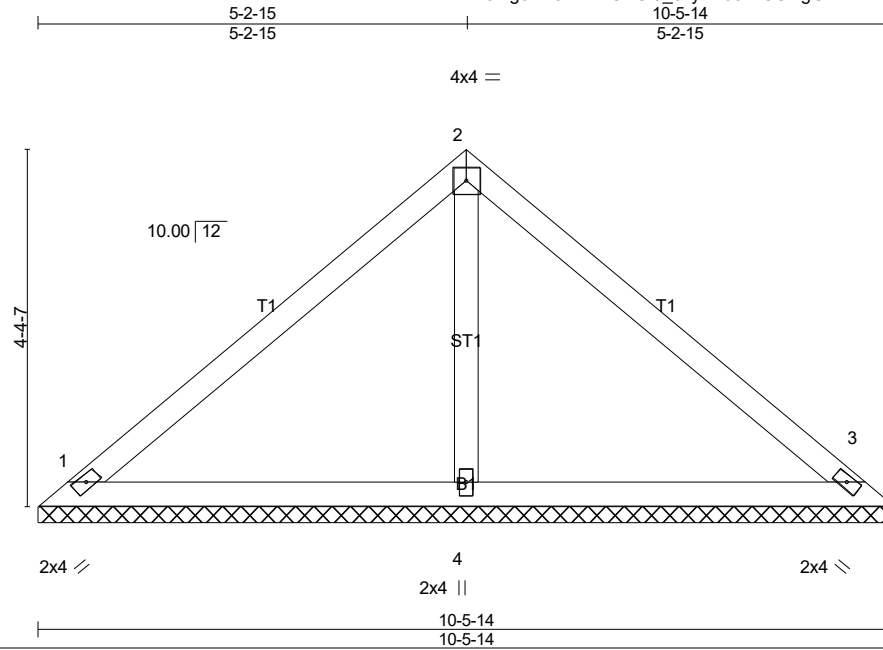


3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	VT02	Valley	1	1	Job Reference (optional) # 57300

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Scale = 1:28.3

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 0.34	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.40	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.08	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Code IRC2021/TPI2014		Matrix-S						Weight: 40 lb	FT = 20%
BCDL 10.0										

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3
OTHERS 2x4 SP No.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.

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

REACTIONS. (lb/size) 1=179/10-5-14 (min. 0-1-8), 3=179/10-5-14 (min. 0-1-8), 4=328/10-5-14 (min. 0-1-8)
Max Horz 1=-79(LC 10)
Max Uplift 1=-25(LC 13), 3=-34(LC 13)
Max Grav 1=205(LC 2), 3=205(LC 2), 4=366(LC 2)

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

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

LOAD CASE(S) Standard

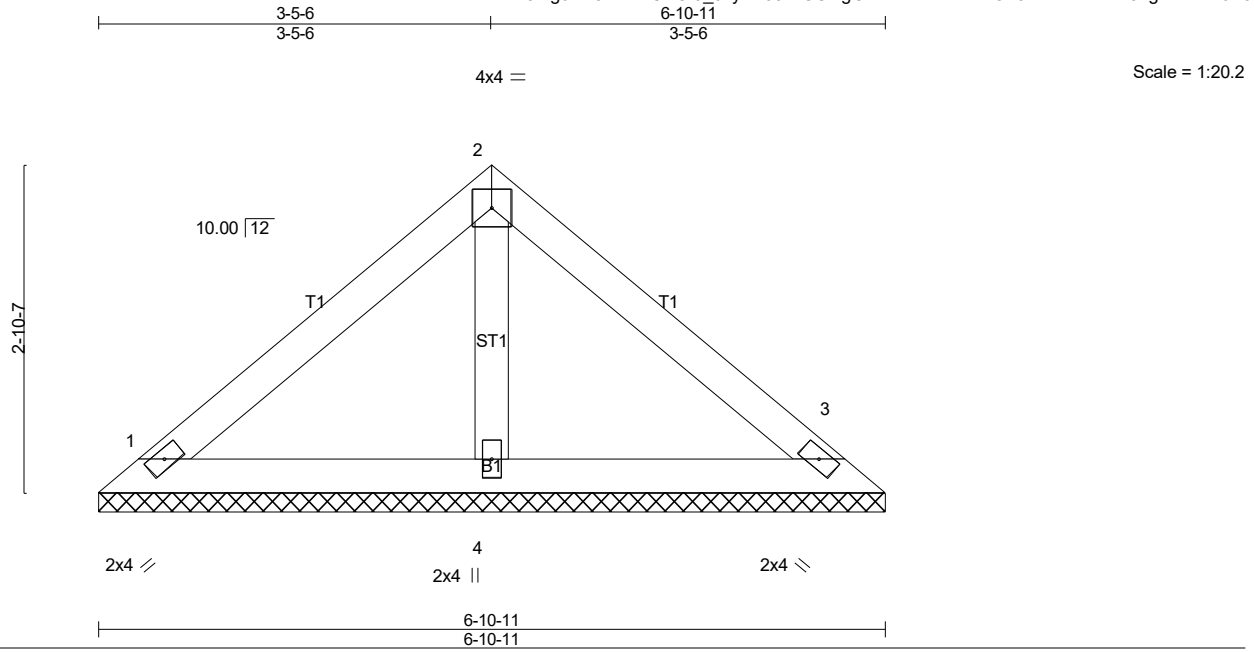


3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	VT03	Valley	1	1	Job Reference (optional) # 57300

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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)	n/a	-	n/a	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.16	Vert(CT)	n/a	-	n/a		
TCDL 10.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a		
BCLL 0.0 *	Code IRC2021/TPI2014		Matrix-P					Weight: 26 lb	FT = 20%
BCDL 10.0									

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

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

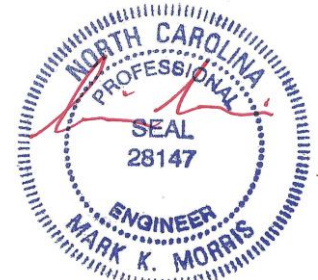
REACTIONS. (lb/size) 1=121/6-10-11 (min. 0-1-8), 3=121/6-10-11 (min. 0-1-8), 4=188/6-10-11 (min. 0-1-8)
Max Horz 1=-50(LC 8)
Max Uplift 1=-22(LC 13), 3=-28(LC 13)
Max Grav 1=139(LC 2), 3=139(LC 2), 4=208(LC 2)

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

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- 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
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

LOAD CASE(S) Standard



3/3/2025

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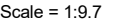


Plate Offsets (X,Y)-- [2:0-3-0,Edge]

[illegible]

LUMBER-

TOP CHORD 2x4 SP No.2
BOT CHORD 2x4 SP No.3

BRACING-

TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-3-8 oc purlins.
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) 1=88/3-3-8 (min. 0-1-8), 3=88/3-3-8 (min. 0-1-8)

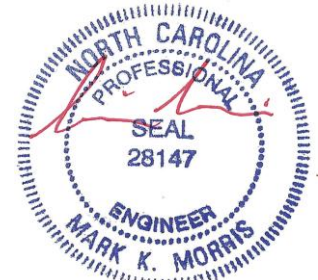
Max Horz 1=-20(LC 10)
Max Uplift 1=-6(LC 12), 3=-6(LC 13)
Max Grav 1=99(LC 2), 3=99(LC 2)

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

NOTES- (8)

- 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) TLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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) 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) 1, 3.

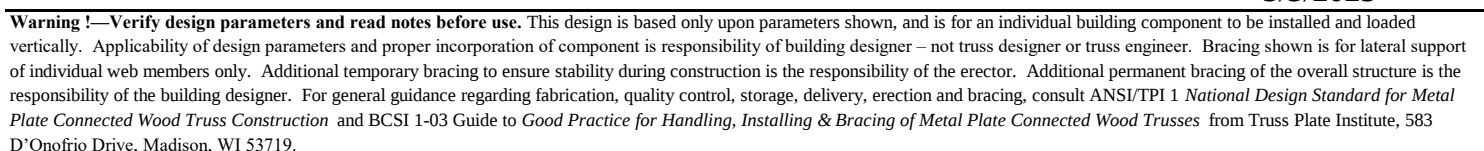
LOAD CASE(S) Standard



3/3/2025

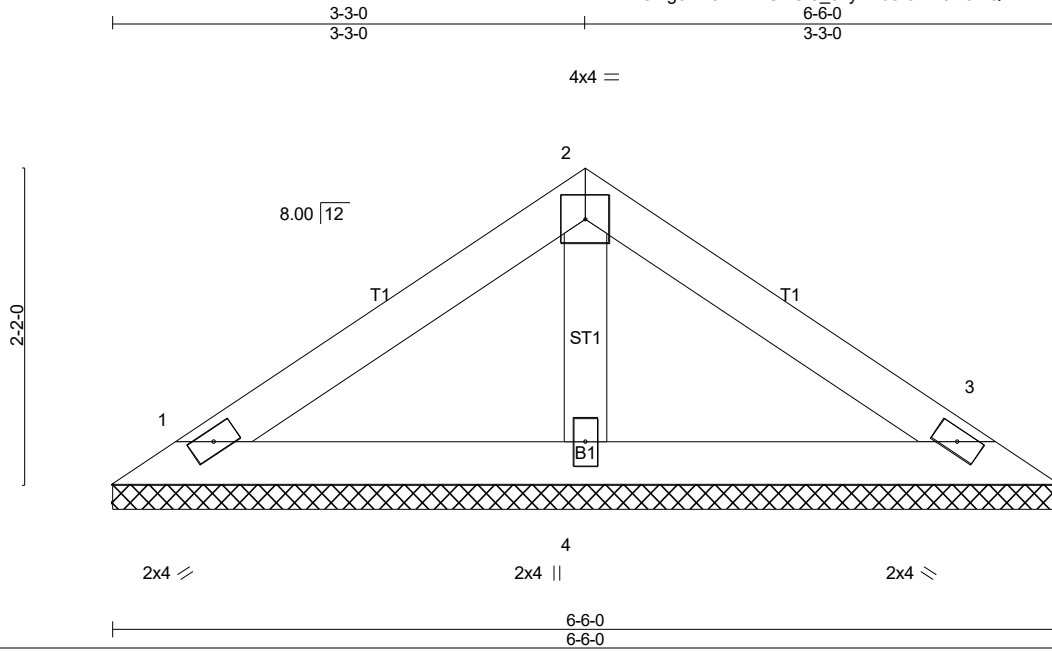
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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	VT06	Valley	1	1	Job Reference (optional) # 57300

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Scale = 1:15.8

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 0.14	Vert(LL)	n/a	-	n/a	999	MT20	244/190
Snow (Pf/Pg) 15.4/20.0	Lumber DOL	1.15	BC 0.13	Vert(CT)	n/a	-	n/a	999		
TCDL 10.0	Rep Stress Incr	YES	WB 0.03	Horz(CT)	0.00	3	n/a	n/a		
BCLL 0.0 *	Code IRC2021/TPI2014		Matrix-P						Weight: 22 lb	FT = 20%
BCDL 10.0										

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

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 6-0-0 oc purlins.
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.

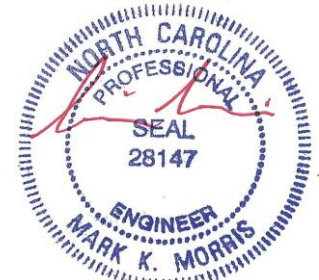
REACTIONS. (lb/size) 1=104/6-6-0 (min. 0-1-8), 3=104/6-6-0 (min. 0-1-8), 4=184/6-6-0 (min. 0-1-8)
Max Horz 1=36(LC 11)
Max Uplift1=-20(LC 12), 3=-25(LC 13)
Max Grav 1=119(LC 2), 3=119(LC 2), 4=205(LC 2)

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

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

LOAD CASE(S) Standard

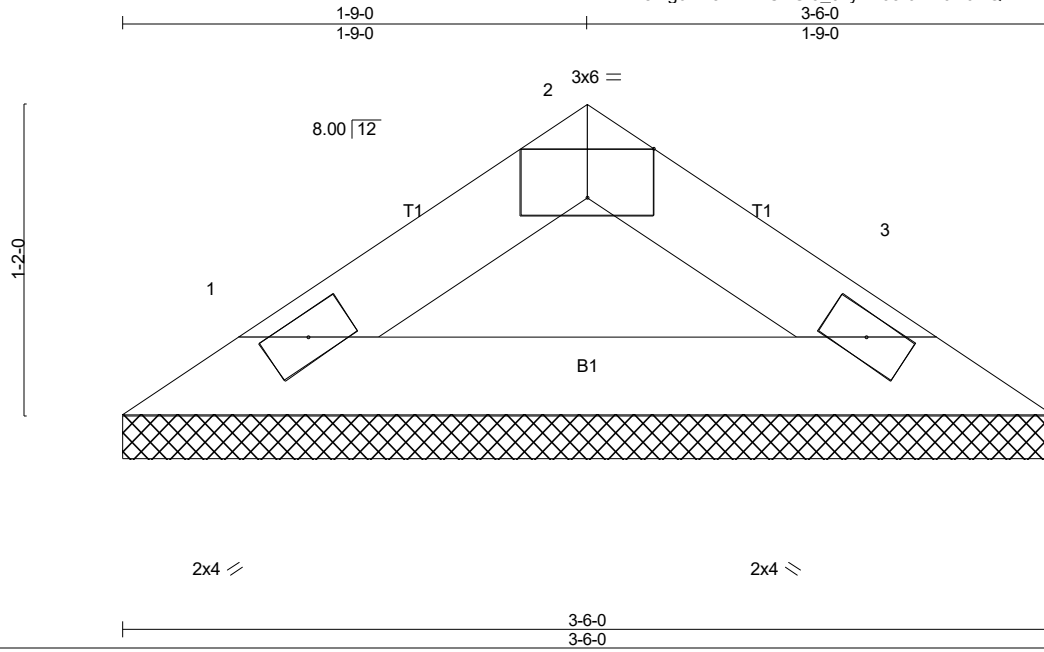


3/3/2025

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Job	Truss	Truss Type	Qty	Ply	LOT 0.0013 CAMPBELL RIDGE 311 ALDEN WAY ANGIER, NC
25-2031-R01	VT07	Valley	1	1	
Job Reference (optional)					# 57300

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Scale = 1:8.7

Plate Offsets (X,Y)-- [2:0-3-0,Edge]									
LOADING (psf)		SPACING-		CSI.		DEFL.		PLATES	GRIP
TCLL (roof)	20.0	2-0-0	Plate Grip DOL	1.15	TC	0.03	in (loc)	I/defl	L/d
Snow (Pf/Pg)	15.4/20.0	Lumber DOL	1.15	BC	0.13	Vert(LL)	n/a	n/a	999
TCDL	10.0	Rep Stress Incr	YES	WB	0.00	Vert(CT)	n/a	n/a	999
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-P		Horz(CT)	0.00	3	n/a
BCDL	10.0								
								Weight: 10 lb	FT = 20%

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

BRACING-
TOP CHORD
BOT CHORD

Structural wood sheathing directly applied or 3-6-0 oc purlins.
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.

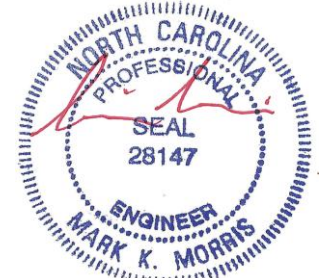
REACTIONS. (lb/size) 1=90/3-6-0 (min. 0-1-8), 3=90/3-6-0 (min. 0-1-8)
Max Horz 1=-17(LC 8)
Max Uplift1=-7(LC 12), 3=-7(LC 13)
Max Grav 1=101(LC 2), 3=101(LC 2)

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

NOTES- (8)

- Unbalanced roof live loads have been considered for this design.
- 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;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
- TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=15.4 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
- Gable requires continuous bottom chord bearing.
- This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
- * 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.
- Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 100 lb uplift at joint(s) 1, 3.

LOAD CASE(S) Standard



3/3/2025

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.