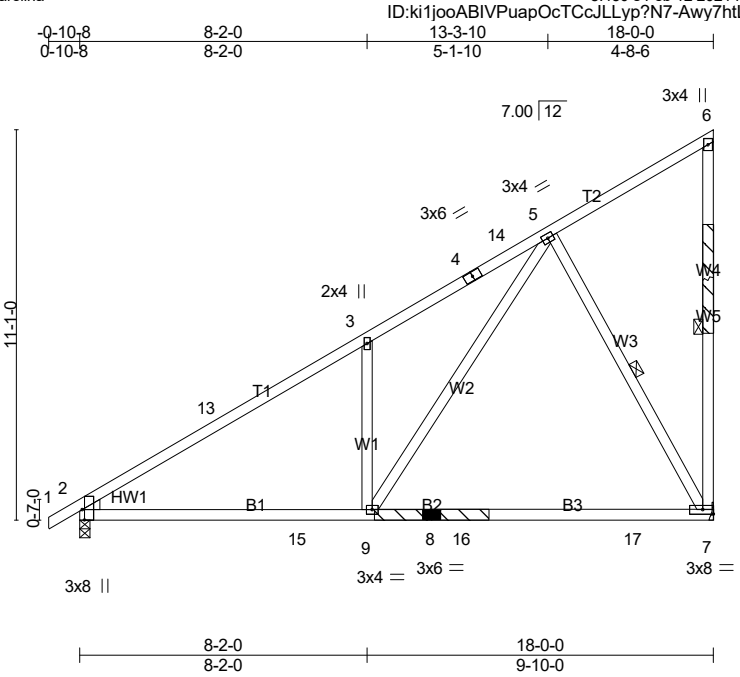
Job	Truss	Truss Type	Qty	Ply	LOT 0.0046 HONEYCUTT HILLS | 92 SHELBY MEADOW LANE ANGIER, NC
23-4637-R01	R19RP1	MONOPITCH	9	1	Job Reference (optional)

Atlantic Building Components, Moncks Corner, South Carolina 8.430 s Feb 12 2021 MiTek Industries, Inc. Tue Oct 10 11:32:35 2023 Page 1
ID:ki1jooABIVPuapOcTCcJLLyp?N7-Awy7htL0WCf1bVQ7XpMhRE7IWbQRR4v0azcJchyUrJg



REPAIR(S) REQUIRED

Plate Offsets (X,Y)-- [2:0-3-8,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	0.86	Vert(LL)	-0.49	7-9	>440	240	MT20	244/190
Snow (Pf)	20.0	Lumber DOL	1.15	BC	0.62	Vert(CT)	-0.67	7-9	>321	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.39	Horz(CT)	0.02	2	n/a	n/a		
BCLL	0.0 *	Code IRC2021/TPI2014		Matrix-AS							Weight: 119 lb	FT = 20%
BCDL	10.0											

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

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

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

REACTIONS. (lb/size) 2=767/0-3-8 (min. 0-1-8), 7=713/Mechanical
Max Horz 2=331(LC 14)
Max Uplift2=-11(LC 14), 7=-191(LC 14)
Max Grav 2=835(LC 24), 7=935(LC 5)

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
TOP CHORD 2-13=-1097/0, 3-13=-1004/0, 3-4=-1118/72, 4-14=-1000/94, 5-14=-987/96
BOT CHORD 2-15=-190/932, 9-15=-190/932, 8-9=-96/367, 8-16=-96/367, 16-17=-96/367, 7-17=-96/367
WEBS 3-9=-427/226, 5-9=-173/1044, 5-7=-716/202

NOTES- (15)
1) Repair Condition: top chord has 0-1-0 long break centered at 3-10-13 below joint 6.
2) Repair Condition: Missing or damaged plate(s) on both side(s) of truss at joint(s) 8.
3) Apply 48" long 2x4 SP No.2 scab to front side(s) of truss centered on damage located 3-10-13 below joint 6 with 2 row(s) of 10d (0.131"x3") nails spaced 2" o.c. from front face. Minimum 0-3-0 end distance.
4) Apply 48" long 2x4 SP No.2 scab to front side(s) of truss centered on damage at joint 8 with 2 row(s) of 10d (0.131"x3") nails spaced 2" o.c. from front face. Minimum 0-3-0 end distance.
5) Repairs specified by this program will be subject to review and change.
6) 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) -0-10-6 to 3-11-3, Interior(1) 3-11-3 to 13-0-10, Exterior(2E) 13-0-10 to 17-10-4 zone; cantilever left and right exposed ; end vertical left exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
7) 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
8) Unbalanced snow loads have been considered for this design.
9) 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.
10) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
11) * This truss has been designed for a live load of 30.0psf on the bottom chord in all areas where a rectangle 3-6-0 tall by 1-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
12) Refer to girder(s) for truss to truss connections.

Continued on page 2

NOTES- (15)

13) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 11 lb uplift at joint 2 and 191 lb uplift at joint 7.
14) 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