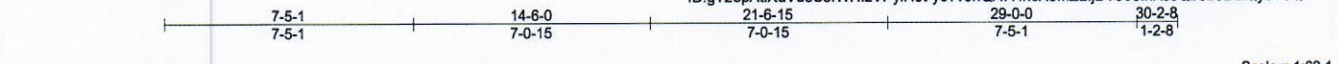


Job	Truss	Truss Type	Qty	Ply	Cumberland Homes/Lot 165 Ballard Woods	155703522
J0822-4050	A2	FINK	8	1		

Comtech, Inc. Fayetteville, NC - 28314, 8.430 s Jan 6 2022 MiTek Industries, Inc. Tue Dec 13 06:16:35 2022 Page 1
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REPAIR: PLATE LOSE AT JOINT 5.
 BREAK ON TOP CHORD AT 4' ABOVE JOINT 5.

Scale = 1:62.1

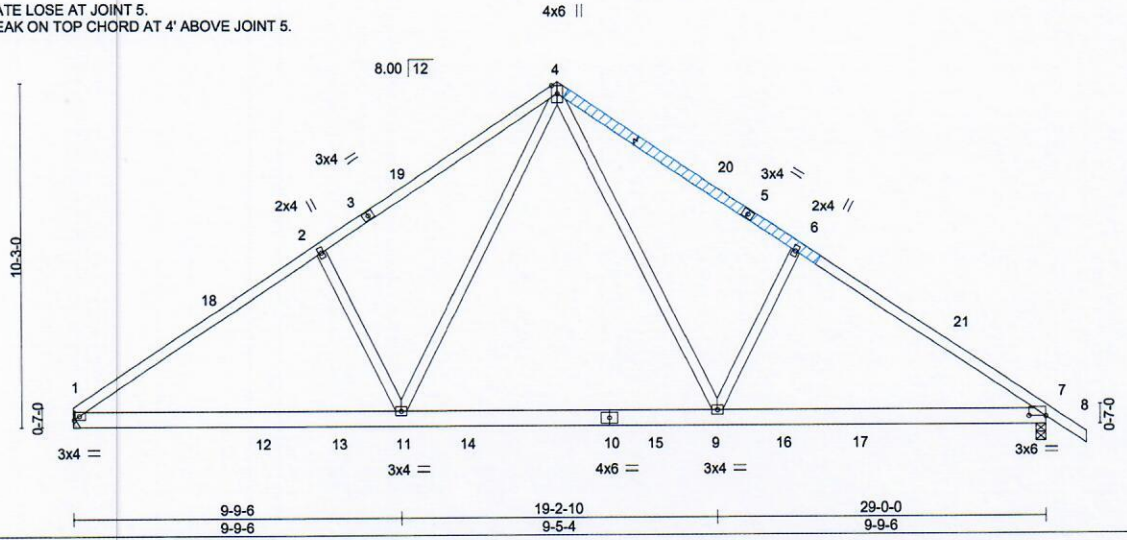


Plate Offsets (X,Y)- [1:0-1-13,0-1-8], [7:0-6-0,0-0-2]

LOADING (psf)	SPACING-	CSI.	DEFL.	PLATES	GRIP
TCLL 20.0	2-0-0	TC 0.54	in (loc) l/defl L/d	MT20	244/190
TCDL 10.0	Plate Grip DOL 1.15	BC 0.44	Ver(LL) -0.13 9-11 >999 360		
BCLL 0.0 *	Lumber DOL 1.15	WB 0.34	Ver(CT) -0.18 9-11 >999 240		
BCDL 10.0	Rep Stress Incr YES	Matrix-S	Horz(CT) 0.03 7 n/a n/a		
	Code IRC2015/TPI2014		Wind(LL) -0.05 7-9 >999 240	Weight: 169 lb	FT = 20%

LUMBER-
 TOP CHORD 2x4 SP No.1
 BOT CHORD 2x6 SP No.1
 WEBS 2x4 SP No.2

BRACING-
 TOP CHORD Structural wood sheathing directly applied or 3-9-13 oc purlins.
 BOT CHORD Rigid ceiling directly applied or 10-0-0 oc bracing.

REACTIONS. (size) 1=Mechanical, 7=0-3-8
 Max Horz 1=-246(LC 10)
 Max Uplift 1=60(LC 12), 7=-79(LC 13)
 Max Grav 1=1296(LC 19), 7=1375(LC 20)

APPLY 2 X 4 X 9' SP NO.2 SCAB(S) TO EACH FACE OF TRUSS CENTERED BETWEEN BREAK AND JOINT 5. ATTACH WITH (0.131" X 3") NAILS PER THE FOLLOWING NAIL SCHEDULE:
 2 x 3'S - 1 ROW, 2 x 4'S - 2 ROWS, 2 x 6'S AND LARGER - 3 ROWS:
 SPACED @ 4" O.C. STAGGER NAIL SPACING FROM FRONT FACE AND BACK FACE FOR A NET 2" O.C SPACING IN THE TRUSS. USE 2" MEMBER END DISTANCE.

FORCES. (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.
 TOP CHORD 1-2=-1886/357, 2-4=-1742/449, 4-6=-1731/431, 6-7=-1877/342
 BOT CHORD 1-11=-154/1633, 9-11=0/1062, 7-9=-149/1456
 WEBS 2-11=-471/291, 4-11=-161/905, 4-9=-157/889, 6-9=-456/281

- NOTES-**
- 1) Unbalanced roof live loads have been considered for this design.
 - 2) Wind: ASCE 7-10; Vult=130mph Vasd=103mph; TC DL=6.0psf; BCDL=6.0psf; h=15ft; Cat. II; Exp C; Enclosed; MWFRS (envelope) and C-C Exterior(2) 0-1-4 to 4-6-1, Interior(1) 4-6-1 to 14-6-0, Exterior(2) 14-6-0 to 18-10-13, Interior(1) 18-10-13 to 30-2-8 zone; C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
 - 3) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
 - 4) * 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 2-0-0 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
 - 5) Refer to girder(s) for truss to truss connections.
 - 6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 60 lb uplift at joint 1 and 79 lb uplift at joint 7.



December 13, 2022