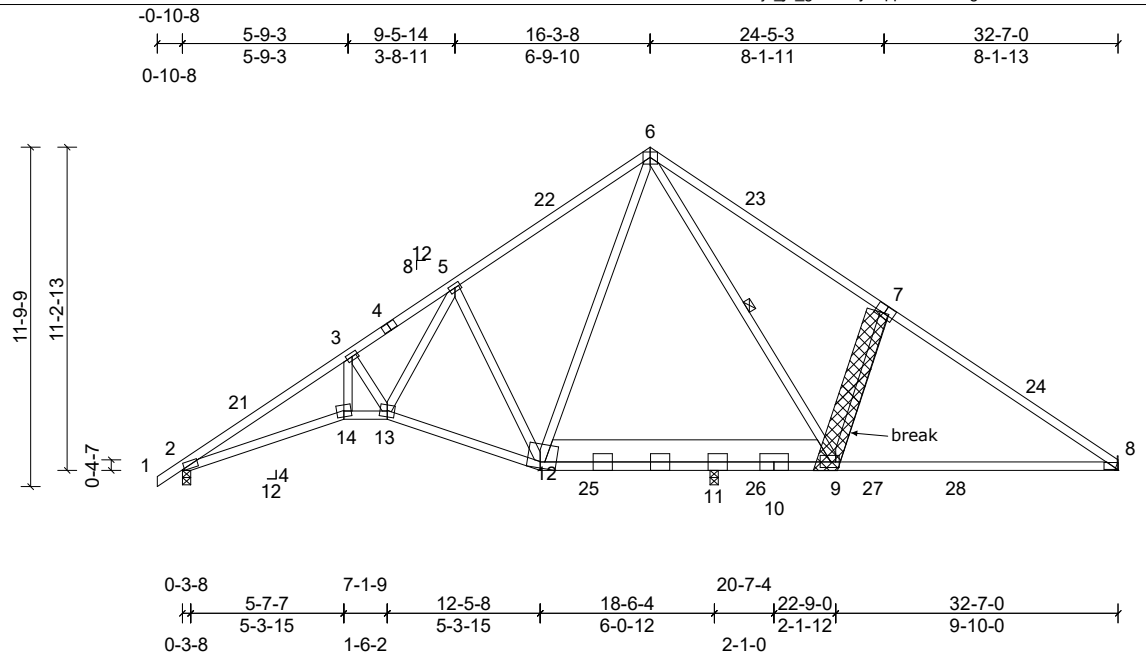
Job	Truss	Truss Type	Qty	Ply	LGI HOMES\TAYLOR PLAN RF
72505106REP1	A5	Truss	3	1	Job Reference (optional)



Repair for a breakin web 6-9 ay +/- 9" up from the bottom chord.

Attach 2x10 x 6' SP or SPF No.2 scab to one face of truss as shown with 2 rows of 10d (.131" x 3") nails spaced 4" oc in the web and six evenly spaced 10d nails in the bottom chord.

Plate Offsets (X, Y): [7:0-4-0,0-3-4], [8:0-3-9,0-1-8], [9:0-1-8,0-2-4], [12:0-5-7,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	0.97	Vert(LL)	-0.19	9-20	>868	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.91	Vert(CT)	-0.46	9-20	>367	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.86	Horz(CT)	0.11	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 216 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2 *Except* B5:2x10 SP No.2
WEBS	2x4 SP No.3

BRACING

TOP CHORD	Structural wood sheathing directly applied.
BOT CHORD	Rigid ceiling directly applied or 7-2-6 oc bracing.
WEBS	1 Row at midpt 6-9

REACTIONS (lb/size) 2=961/0-3-8, (min. 0-1-8), 8=785/ Mechanical, 11=914/0-3-8, (min. 0-1-8)
Max Horiz 2=291 (LC 9)
Max Uplift 2=-137 (LC 10), 8=-154 (LC 11), 11=-108 (LC 10)
Max Grav 2=961 (LC 1), 8=831 (LC 18), 11=1038 (LC 17)

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

TOP CHORD	2-21=-2400/397, 3-21=-2321/420, 3-4=-1813/345, 4-5=-1720/368, 5-22=-840/267, 6-22=-800/289, 6-23=-863/398, 7-23=-1001/375, 7-24=-987/246, 8-24=-1046/214
BOT CHORD	2-14=-476/2243, 13-14=-428/2066, 12-13=-200/1161, 12-25=0/560, 11-25=0/552, 11-26=0/571, 10-26=0/571, 9-10=0/601, 9-27=-80/798, 27-28=-80/798, 8-28=-80/798
WEBS	6-12=-133/343, 6-9=-267/431, 7-9=-542/361, 5-12=-912/350, 5-13=-234/1164, 3-14=-132/746, 3-13=-782/252

NOTES (8)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) -0-10-8 to 2-4-10, Interior (1) 2-4-10 to 13-0-6, Exterior (2) 13-0-6 to 19-6-10, Interior (1) 19-6-10 to 29-3-14, Exterior (2) 29-3-14 to 32-7-0 zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) 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 20.0psf on the bottom chord in all areas where a rectangle 3-06-00 tall by 2-00-00 wide will fit between the bottom chord and any other members, with BCDL = 10.0psf.
5) Bearing at joint(s) 2 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
6) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 137 lb uplift at joint 2, 154 lb uplift at joint 8 and 108 lb uplift at joint 11.
7) This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TPI 1.
8) This repair has been prepared based on information and use conditions supplied by client. Designer has made a good faith effort to outline damage and repair conditions as reported by client. When actual field conditions do not approximate those indicated on this drawing, client shall immediately inform the engineer and refrain from applying the repair.