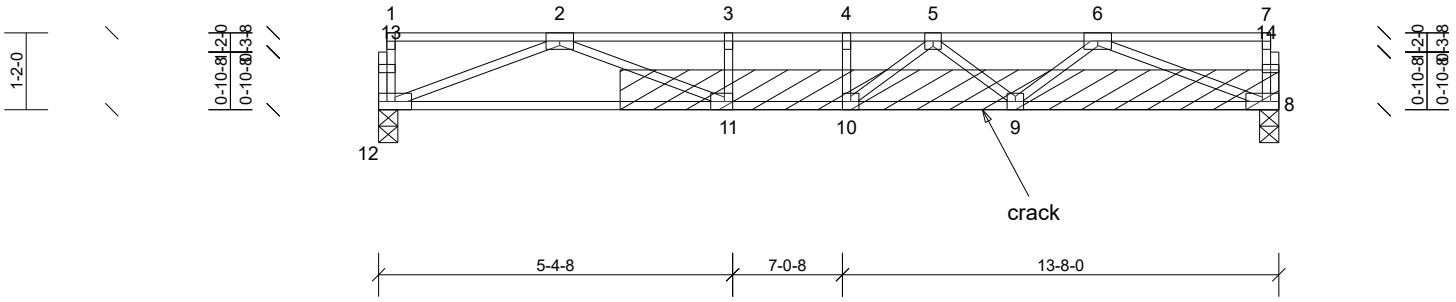
Job	Truss	Truss Type	Qty	Ply	PROFESSIONAL\PLAN # 6 THE RALEIGH ROOF
72341285REP1	2F7	Truss	2	1	Job Reference (optional)



Repair for a crack in the bottom chord where indicated.

Attach 2x8 x 10' SP or SPF No.2 scab to each face of truss as shown with 10d (.131" x 3") nails spaced 3" oc in the chord, and two evenly spaced 10d nails in each web.

Plate Offsets (X, Y): [11:0-1-8,Edge]

Loading	(psf)	Spacing	2-0-0	CSI		DEFL	in	(loc)	l/defl	L/d	PLATES	GRIP
TCLL	40.0	Plate Grip DOL	1.00	TC	0.56	Vert(LL)	-0.17	9-10	>934	480	MT20	244/190
TCDL	10.0	Lumber DOL	1.00	BC	0.91	Vert(CT)	-0.22	9-10	>728	360		
BCLL	0.0	Rep Stress Incr	YES	WB	0.45	Horz(CT)	0.04	8	n/a	n/a		
BCDL	5.0	Code	IRC2015/TPI2014	Matrix-SH							Weight: 67 lb	FT = 20%F, 11%E

LUMBER

TOP CHORD	2x4 SP No.2(flat)
BOT CHORD	2x4 SP No.2(flat)
WEBS	2x4 SP No.3(flat)
OTHERS	2x4 SP No.3(flat)

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.

REACTIONS (lb/size) 8=732/0-3-8, (min. 0-1-8), 12=732/0-3-8, (min. 0-1-8)

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

TOP CHORD	2-3=-2331/0, 3-4=-2331/0, 4-5=-2331/0, 5-6=-1933/0
BOT CHORD	11-12=0/1536, 10-11=0/2331, 9-10=0/2260, 8-9=0/1547
WEBS	6-8=-1657/0, 2-12=-1645/0, 6-9=0/502, 2-11=0/911, 5-9=-426/0, 5-10=-144/387, 3-11=-254/0

NOTES (4)

1) Unbalanced floor live loads have been considered for this design.
2) 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.
3) Recommend 2x6 strongbacks, on edge, spaced at 10-00-00 oc and fastened to each truss with 3-10d (0.131" X 3") nails. Strongbacks to be attached to walls at their outer ends or restrained by other means.
4) 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.