

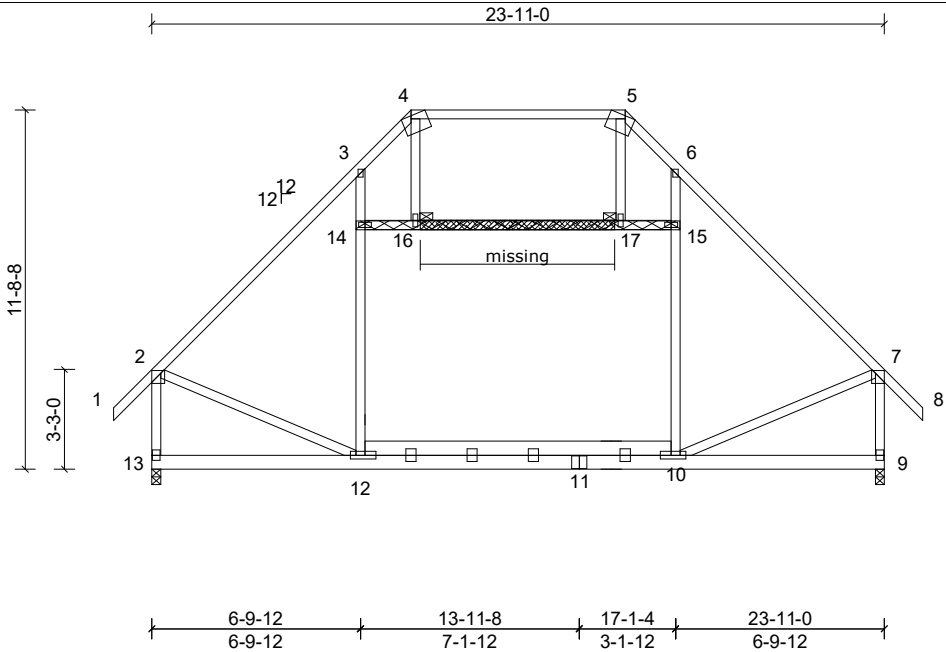
Job	Truss	Truss Type	Qty	Ply	AMERICAS HOME PLACE/JOHNSON RES
72521976REP1	D4	Truss	2	1	Job Reference (optional)

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Repair for a section of web missing between joints 16 and 17.

Replace the missing section with new 2x4 and attach 2x4 x 8' SP or SPF No.2 scab to each face of truss as shown with 2 rows of 10d (.131" x 3") nails spaced 6" oc

Plate Offsets (X, Y): [2:Edge,0-4-0], [4:0-3-11,Edge], [5:0-3-11,Edge], [7:Edge,0-4-0], [10:0-2-4,0-1-8], [12:0-2-4,0-1-8]															
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		0.78	Vert(LL)	0.29	12-13	>984	240	M18AHS	186/179
TCDL		10.0	Lumber DOL		1.15	BC		0.49	Vert(CT)	-0.35	12-13	>812	180	MT20	244/190
BCLL		0.0 *	Rep Stress Incr		YES	WB		0.70	Horz(CT)	0.00	9	n/a	n/a		
BCDL		10.0	Code		IRC2015/TP12014	Matrix-MSH			Attic	-0.12	10-12	>999	360	Weight: 212 lb	FT = 20%
LUMBER												BRACING			
TOP CHORD		2x4 SP No.2				TOP CHORD		Structural wood sheathing directly applied or 3-2-10 oc purlins, except end verticals, and 2-0-0 oc purlins (6-0-0 max.); 4-5.							
BOT CHORD		2x6 SP No.2				BOT CHORD		Rigid ceiling directly applied or 9-5-1 oc bracing.							
WEBS		2x4 SP No.2				JOINTS		1 Brace at Jt(s): 16, 17							
REACTIONS															
		(lb/size)		9=1080/0-3-8, (min. 0-1-8), 13=1080/0-3-8, (min. 0-1-8)											
		Max Horiz		13=364 (LC 8)											
		Max Uplift		9=68 (LC 11), 13=68 (LC 10)											
		Max Grav		9=1180 (LC 2), 13=1180 (LC 2)											
FORCES															
		(lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown.													
TOP CHORD		2-3=1003/220, 3-4=641/260, 4-5=516/243, 5-6=641/260, 6-7=1003/220, 2-13=1119/220, 7-9=1119/220													
BOT CHORD		12-13=358/420, 11-12=91/698, 10-11=91/698													
WEBS		12-14=89/304, 10-15=89/304, 2-12=140/676, 7-10=141/676													

- NOTES (13)**
- Unbalanced roof live loads have been considered for this design.
 - 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) 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
 - Provide adequate drainage to prevent water ponding.
 - All plates are MT20 plates unless otherwise indicated.
 - 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 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.
 - Ceiling dead load (5.0 psf) on member(s). 14-16, 16-17, 15-17
 - Bottom chord live load (30.0 psf) and additional bottom chord dead load (0.0 psf) applied only to room. 10-12
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 68 lb uplift at joint 13 and 68 lb uplift at joint 9.
 - This truss is designed in accordance with the 2015 International Residential Code sections R502.11.1 and R802.10.2 and referenced standard ANSI/TP1 1.
 - Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
 - Attic room checked for L/360 deflection.
 - 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.

