Job	Truss	Truss Type	Qty	Ply	S D-CRAWFORD ADG
72433825REP1	A2	Truss	6	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, clm — Run: 8.81 S Sep 13 2024 Print: 8.810 S Sep 13 2024 MiTek Industries, Inc. Mon Jan 13 16:00:12 — Page: 1

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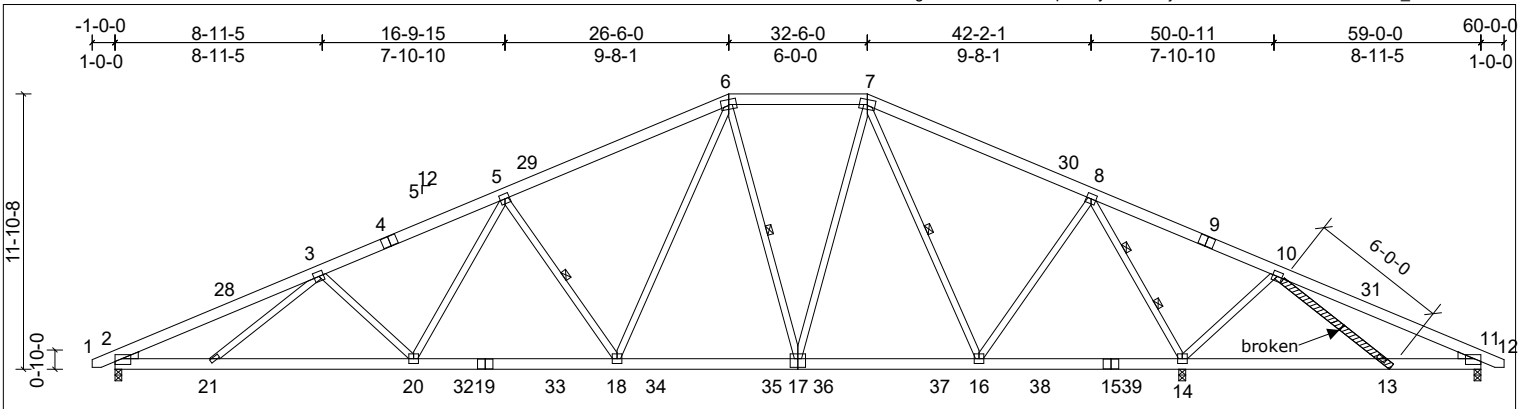

Repair for a broken web as shown.

Attach 2x4 x 6' SPF No.2 scab to each face of truss as shown with 2 rows of 10d (.131" x 3") nails 4" oc.

4-3-8	12-10-12	21-8-1	29-6-0	37-3-15	46-1-4	54-8-8	59-0-0
4-3-8	8-7-4	8-9-5	7-9-15	7-9-15	8-9-5	8-7-4	4-3-8

Plate Offsets (X, Y): [2:Edge,0-1-8], [11:Edge,0-1-8], [17:0-4-0,0-4-8]

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	0.67	Vert(LL)	-0.21	18-20	>999	240	MT20	244/190
Snow (Pf/Pg)	20.4/20.0	Lumber DOL	1.15	BC	0.93	Vert(CT)	-0.37	18-20	>999	180		
TCDL	10.0	Rep Stress Incr	NO	WB	0.88	Horz(CT)	0.09	14	n/a	n/a		
BCLL	0.0 *	Code	IRC2021/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 445 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.1 *Except* B2:2x6 SP No.2
WEBS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.2 Right: 2x4 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 3-4-3 oc purlins, except 2-0-0 oc purlins (5-3-4 max.): 6-7.
BOT CHORD	Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 13-14,11-13.
WEBS	1 Row at midpt 5-18, 6-17, 7-16
WEBS	2 Rows at 1/3 pts 8-14

REACTIONS (lb/size) 2=1597/0-3-8, (min. 0-2-5), 11=149/0-3-8, (min. 0-1-8), 14=2572/0-3-8, (req. 0-3-14)

Max Horiz 2=181 (LC 16)

Max Uplift 2=-216 (LC 12), 11=-108 (LC 13), 14=-157 (LC 13)

Max Grav 2=1969 (LC 3), 11=290 (LC 33), 14=3266 (LC 3)

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

TOP CHORD	2-28=-4164/331, 3-28=-4070/351, 3-4=-3881/360, 4-5=-3741/394, 5-29=-2914/370, 6-29=-2811/411, 6-7=-1919/363, 7-30=-1376/312, 8-30=-1478/272, 8-9=0/1240, 9-10=-9/1101, 10-31=-88/382, 11-31=-199/344
BOT CHORD	2-21=-407/3736, 20-21=-476/3774, 20-32=-299/3099, 19-32=-299/3099, 19-33=-299/3099, 18-33=-299/3099, 18-34=-58/1966, 34-35=-58/1966, 17-35=-58/1966, 17-36=0/1550, 36-37=0/1550, 16-37=0/1550, 16-38=0/364, 15-38=0/364, 15-39=0/364, 14-39=0/364, 13-14=-666/51, 11-13=-318/115
WEBS	3-20=-423/218, 5-20=-43/786, 5-18=-1095/312, 6-18=-176/1365, 6-17=-651/187, 7-17=-93/1005, 7-16=-965/89, 8-16=0/1474, 8-14=-3157/285, 10-14=-707/234, 10-13=0/544

NOTES (13)

1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-16; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=25ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2E) -0-9-10 to 5-1-2, Interior (1) 5-1-2 to 18-1-14, Exterior(2R) 18-1-14 to 40-10-2, Interior (1) 40-10-2 to 53-10-14, Exterior(2E) 53-10-14 to 59-9-10 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) TCLL: ASCE 7-16; Pr=20.0 psf (roof LL: Lum DOL=1.15 Plate DOL=1.15); Pg=20.0 psf; Pf=20.4 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, Lu=0-0-0; Min. flat roof snow load governs. Rain surcharge applied to all exposed surfaces with slopes less than 0.500/12 in accordance with IBC 1608.3.4.
4) This truss has been checked for uniform snow load only, except as noted.
5) This truss has been designed for greater of min roof live load of 12.0 psf or 2.00 times flat roof load of 15.4 psf on overhangs non-concurrent with other live loads.
6) Provide adequate drainage to prevent water ponding.
7) All plates are 5x5 MT20 unless otherwise indicated.
8) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
9) * 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.
10) WARNING: Required bearing size at joint(s) 14 greater than input bearing size.
11) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 216 lb uplift at joint 2, 108 lb uplift at joint 11 and 157 lb uplift at joint 14.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) 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.