Job	Truss	Truss Type	Qty	Ply	SDH - LANCASTER CFI RANCH NO TRAY
72281245REP1	A6	Truss	2	1	Job Reference (optional)

UFP Mid Atlantic LLC, 5631 S. NC 62, Burlington, NC, clm — Run: 8.33 S Apr 7 2020 Print: 8.510 S Oct 22 2021 MiTek Industries, Inc. Mon Nov 14 16:10:48 — Page: 1

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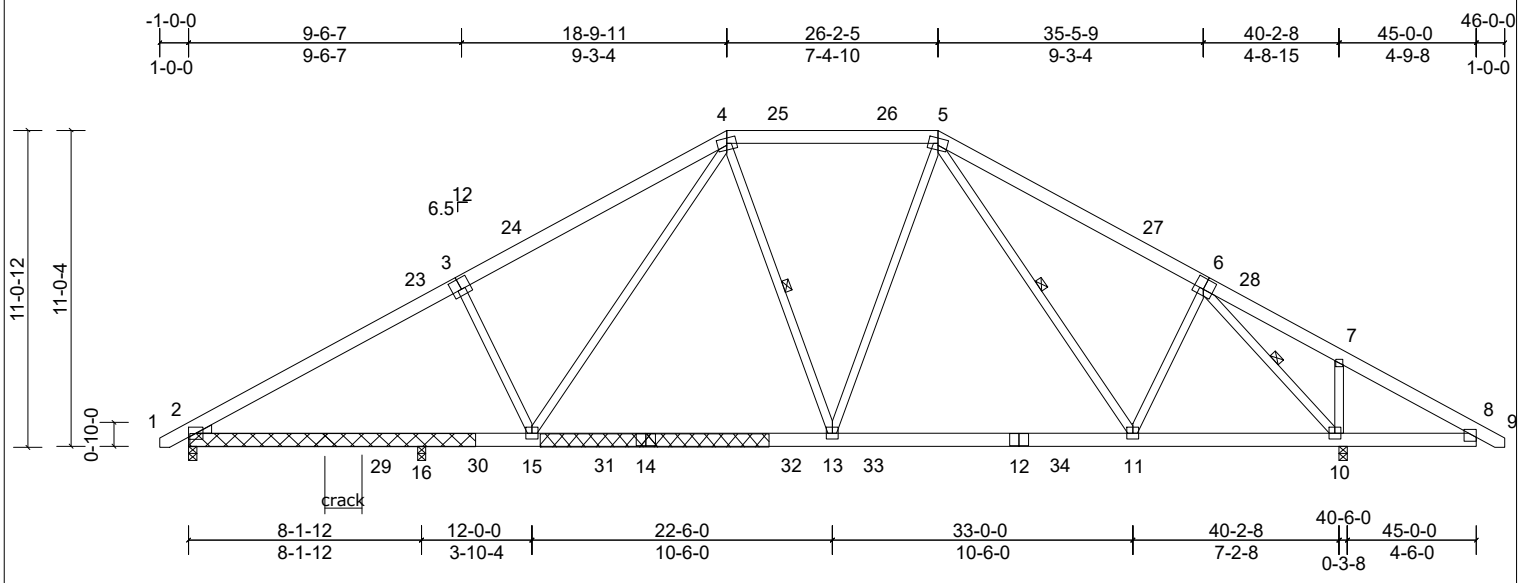

Repair for a crack in the bottom chord where indicated.

Attach 2x6 x 10' SP or SPF No.2 scab to each face of truss as shown with 2 rows of 10d (.131" x 3") nails spaced 4" oc

Repair for a break in the bottom chord at the plate at joint 14.

Attach 2x6 x 8' SP or SPF No.2 scab to each face of truss centered at the brea = with 2 rows of 10d (.131" x 3") nails spaced 4" oc

Plate Offsets (X, Y): [2:Edge,0-0-14], [3:0-4-0,0-4-8], [4:0-4-0,0-2-4], [5:0-4-0,0-2-4], [6:0-4-0,0-4-8]

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	0.76	Vert(LL)	-0.19	13-15	>999	240	MT20	244/190
Snow (Ps/Pg)	8.0/15.0	Lumber DOL	1.15	BC	0.77	Vert(CT)	-0.34	13-15	>999	180		
TCDL	10.0	Rep Stress Incr	YES	WB	0.74	Horz(CT)	0.06	10	n/a	n/a		
BCLL	0.0 *	Code	IRC2015/TPI2014	Matrix-MSH								
BCDL	10.0										Weight: 328 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2
BOT CHORD	2x6 SP No.2
WEBS	2x4 SP No.3
WEDGE	Left: 2x4 SP No.2

BRACING

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

REACTIONS (lb/size) 2=1036/0-3-8, (min. 0-1-11), 10=1474/0-3-8, (min. 0-2-6), 16=196/0-3-8, (min. 0-1-8)

Max Horiz 2=-212 (LC 12)

Max Uplift 2=-231 (LC 14), 10=-270 (LC 15)

Max Grav 2=1454 (LC 3), 10=2022 (LC 2), 16=288 (LC 7)

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

TOP CHORD 2-23=-2393/512, 3-23=-2197/518, 3-24=-2198/542, 4-24=-2079/591, 4-25=-1524/433, 25-26=-1524/433, 5-26=-1524/433, 5-27=-1469/387, 6-27=-1587/338, 6-28=-140/432, 7-28=-164/401, 7-8=-262/422

BOT CHORD 2-29=-368/2061, 16-29=-368/2061, 16-30=-368/2061, 15-30=-368/2061, 15-31=-79/1496, 14-31=-79/1496, 14-32=-79/1496, 13-32=-79/1496, 13-33=-20/1375, 12-33=-20/1375, 12-34=-20/1375, 11-34=-20/1375, 10-11=-33/1128, 8-10=-302/290

WEBS 3-15=-533/367, 4-15=-246/691, 5-13=-45/527, 6-11=-19/497, 7-10=-260/157, 6-10=-2118/498

NOTES (13)

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) 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 7-10; Pr=20.0 psf (roof live load: Lumber DOL=1.15 Plate DOL=1.15); Pg=15.0 psf (ground snow); Ps= varies (min. roof snow=8.0 psf Lumber DOL=1.15 Plate DOL=1.15) see load cases; Category II; Exp B; Partially Exp.; Ct=1.10, Lu=50-0-0; Unobstructed slippery surface; 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) Roof design snow load has been reduced to account for slope.
5) Unbalanced snow loads have been considered for this design.
6) This truss has been designed for greater of min roof live load of 12.0 psf or 1.00 times flat roof load of 11.5 psf on overhangs non-concurrent with other live loads.
7) Provide adequate drainage to prevent water ponding.
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) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 231 lb uplift at joint 2 and 270 lb uplift at joint 10.
11) 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.
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.

LOAD CASE(S) Standard

1) Dead + Snow (balanced): Lumber Increase=1.15, Plate Increase=1.15

Uniform Loads (lb/ft)

Vert: 1-4=-36, 4-5=-53, 5-9=-36, 17-20=-20