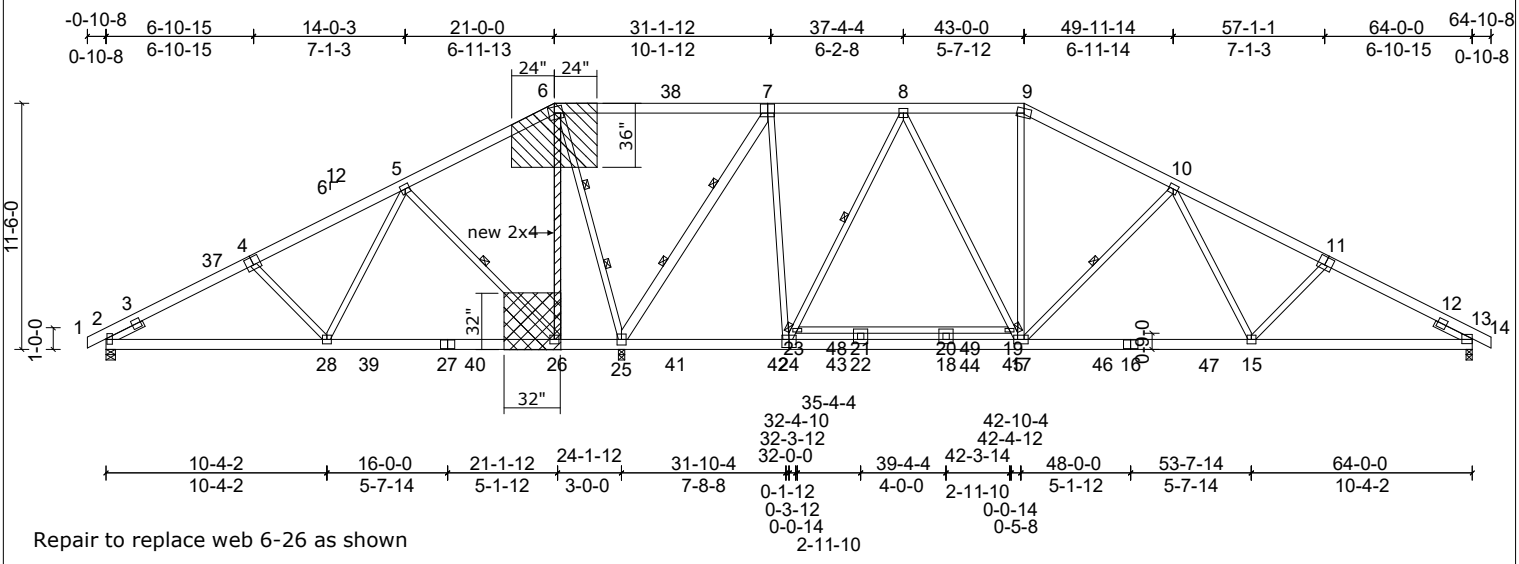
Job	Truss	Truss Type	Qty	Ply	Pro Bldrs / Clayton Craftsman - GL
72331508REP2	A2	Truss	7	1	Job Reference (optional)



Repair to replace web 6-26 as shown

Cut and fit tight a new 2x4 SP or SPF No.2
Attach 1/2" Plywood or 7/16" OSB (APA Rated Sheathing Exposure 1) gusset
to both sides of truss as shown with two rows of 10d (.131" x 3") nails
spaced 4" oc in all members from each face, driven through both sheets of plywood.

Plate Offsets (X, Y): [2:0-3-2,0-0-8], [4:0-4-0,0-4-8], [6:0-3-4,0-3-8], [7:0-3-12,0-5-0], [11:0-4-0,0-4-8], [13:Edge,0-2-10], [24:0-4-0,0-4-8]

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	0.92	Vert(LL)	-0.27	20-21	>999	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	1.00	Vert(CT)	-0.47	20-21	>999	180		
BCLL	0.0 *	Rep Stress Incr	NO	WB	0.98	Horz(CT)	0.06	13	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 534 lb	FT = 20%

LUMBER

TOP CHORD	2x6 SP No.2 *Except* T3:2x6 SP SS
BOT CHORD	2x6 SP No.2 *Except* B2:2x4 SP No.3
WEBS	2x4 SP No.3 *Except* W6:2x6 SP No.2
SLIDER	Left 2x4 SP No.3 -- 1-11-0, Right 2x4 SP No.3 -- 1-11-0

BRACING

TOP CHORD	Structural wood sheathing directly applied or 4-0-1 oc purlins, except 2-0-0 oc purlins (6-0-0 max.): 6-9. Rigid ceiling directly applied or 10-0-0 oc bracing, Except: 6-0-0 oc bracing: 26-28,25-26. 10-0-0 oc bracing: 19-23
BOT CHORD	
WEBS	1 Row at midpt 5-26, 8-23, 10-17
WEBS	2 Rows at 1/3 pts 6-25, 7-25

REACTIONS (lb/size) 2=1070/0-5-4, (min. 0-1-8), 13=1413/0-3-8, (min. 0-1-12), 25=4048/0-3-8, (req. 0-5-0)
Max Horiz 2=-191 (LC 11)
Max Uplift 2=-262 (LC 10), 13=-204 (LC 11), 25=-280 (LC 7)
Max Grav 2=1161 (LC 21), 13=1460 (LC 22), 25=4239 (LC 2)

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

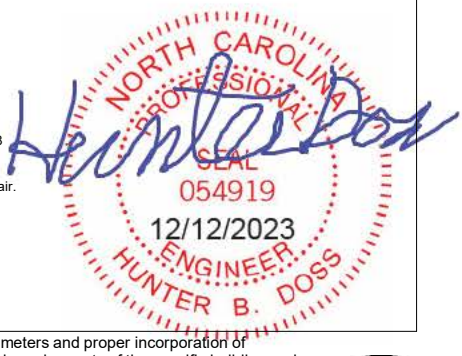
TOP CHORD	2-3=-637/12, 3-37=-1465/439, 4-37=-1129/365, 4-5=-832/290, 5-6=-2/938, 6-38=-33/1267, 7-38=-33/1267, 7-8=-424/205, 8-9=-1265/370, 9-10=-1500/355, 10-11=-2168/481, 11-12=-2359/509, 12-13=-886/49
BOT CHORD	2-28=-439/1289, 28-39=-288/228, 27-39=-288/228, 27-40=-288/228, 26-40=-288/228, 25-26=-745/405, 25-41=-11/301, 41-42=-11/301, 24-42=-11/301, 24-43=0/800, 22-43=0/800, 18-22=0/800, 18-44=0/800, 44-45=0/800, 17-45=0/800, 17-46=-123/1711, 16-46=-123/1711, 16-47=-123/1711, 15-47=-123/1711, 13-15=-323/2031
WEBS	4-28=-986/425, 5-28=-214/1130, 5-26=-1007/420, 6-26=-172/922, 8-19=-120/919, 17-19=-153/911, 9-17=0/352, 11-15=-287/251, 23-24=-1097/225, 8-23=-1083/256, 7-24=-28/1596, 6-25=-1908/466, 7-25=-2739/445, 10-17=-719/368, 10-15=-72/434

NOTES (14)

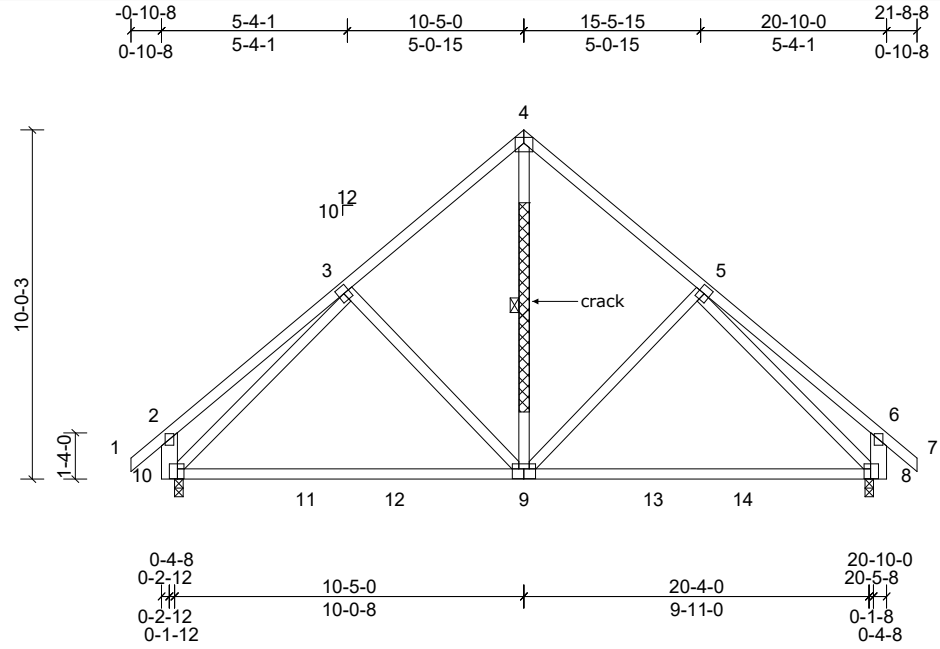
1) Unbalanced roof live loads have been considered for this design.
2) Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCDL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) zone; cantilever left and right exposed ; end vertical left and right exposed;C-C for members and forces & MWFRS for reactions shown; Lumber DOL=1.60 plate grip DOL=1.60
3) WARNING: This long span truss requires extreme care and experience for proper and safe handling and erection. For general handling and erection guidance, see Guide to Good Practice for Handling, Installing & Bracing of Metal Plate Connected Wood Trusses ("BCSI"), jointly produced by SBCA and TPI. The building owner or the owner's authorized agent shall contract with a qualified registered design professional for the design and inspection of the temporary installation restraint/bracing and the permanent individual truss member restraint/bracing. MiTek assumes no responsibility for truss manufacture, handling, erection, or bracing.
4) Provide adequate drainage to prevent water ponding.
5) All plates are 5x5 MT20 unless otherwise indicated.
6) This truss has been designed for a 10.0 psf bottom chord live load nonconcurrent with any other live loads.
7) * 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.
8) WARNING: Required bearing size at joint(s) 25 greater than input bearing size.
9) Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 262 lb uplift at joint 2, 204 lb uplift at joint 13 and 280 lb uplift at joint 25.
10) 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.
11) Magnitude of user added load(s) on this truss have been applied uniformly across all gravity load cases with no adjustments.
12) Graphical purlin representation does not depict the size or the orientation of the purlin along the top and/or bottom chord.
13) Hanger(s) or other connection device(s) shall be provided sufficient to support concentrated load(s) 750 lb down and 193 lb up at 5-4-12, and 350 lb down and 90 lb up at 26-5-8 on top chord. The design/selection of such connection device(s) is the responsibility of others.
14) 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 + Roof Live (balanced): Lumber Increase=1.15, Plate Increase=1.15
Uniform Loads (lb/ft)
Vert: 1-6=-60, 6-9=-60, 9-14=-60, 29-33=-20, 19-23=-20
Concentrated Loads (lb)
Vert: 37=-750, 38=-350



Job	Truss	Truss Type	Qty	Ply	Pro Bldrs / Clayton Craftsman - GL
72331508REP2	B1	Truss	2	1	Job Reference (optional)



Repair for a crack in the web where indicated.

Attach 2x4 x 6' SP or SPF No.2 scab to each face of truss
centered on crack with 2 rows of 10d (.131" x 3") nails spaced 4" oc

Plate Offsets (X, Y): [5:0-0-0,0-0-0], [8:0-2-4,0-3-4], [9:0-4-0,0-3-4], [10:0-2-4,0-3-4]

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	0.32	Vert(LL)	0.35	9-10	>695	240	MT20	244/190
TCDL	10.0	Lumber DOL	1.15	BC	0.98	Vert(CT)	-0.41	9-10	>591	180		
BCLL	0.0 *	Rep Stress Incr	YES	WB	0.63	Horz(CT)	0.02	8	n/a	n/a		
BCDL	10.0	Code	IRC2015/TPI2014	Matrix-MSH							Weight: 136 lb	FT = 20%

LUMBER

TOP CHORD	2x4 SP No.2
BOT CHORD	2x4 SP No.2
WEBS	2x4 SP No.3 *Except* W1:2x6 SP No.2

BRACING

TOP CHORD	Structural wood sheathing directly applied or 6-0-0 oc purlins, except end verticals.
BOT CHORD	Rigid ceiling directly applied or 2-2-0 oc bracing.
WEBS	1 Row at midpt 4-9

REACTIONS (lb/size) 8=881/0-3-0, (min. 0-1-8), 10=881/0-3-0, (min. 0-1-8)
Max Horiz 10=288 (LC 9)
Max Uplift 8=-109 (LC 11), 10=-109 (LC 10)

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

TOP CHORD	2-3=-332/425, 3-4=-700/656, 4-5=-700/656, 5-6=-332/425, 2-10=-356/373, 6-8=-355/372
BOT CHORD	10-11=-283/632, 11-12=-283/632, 9-12=-283/632, 9-13=-283/573, 13-14=-283/573, 8-14=-283/573
WEBS	3-10=-619/207, 4-9=-691/525, 5-9=-259/248, 3-9=-259/247, 5-8=-619/207

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) zone; cantilever left and right exposed ; end vertical left and right exposed; porch 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) 10, 8 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 109 lb uplift at joint 10 and 109 lb uplift at joint 8.
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.