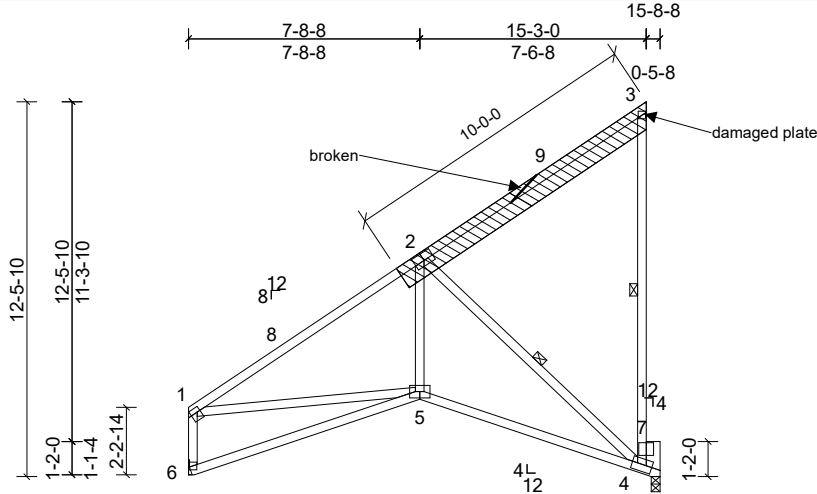


| | | | | | |
|---------------------|-------------|---------------------|----------|----------|---|
| Job 72505429REP1 | Truss C1 | Truss Type Truss | Qty 5 | Ply 1 | PBS/GUILFORD GEORGIAN LH ROOF Job Reference (optional) |
|---------------------|-------------|---------------------|----------|----------|---|



Repair for a broken top chord and damaged plate as shown.

Attach 2x10 x 10' SPF No.2 scab to one face of truss as shown with 2 rows of 10d (.131" x 3") nails 4" oc in the top chord and with 3 evenly spaced 10d nails in each web and end vertical.

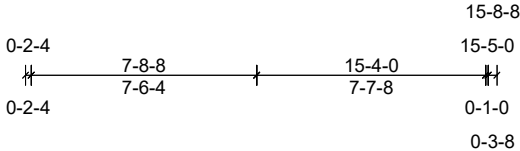


Plate Offsets (X, Y): [1:0-1-4,0-2-0], [2:0-4-0,0-3-0], [4:0-2-0,0-2-12]

| 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 | 0.79 | Vert(LL) | -0.13 | 4-5 | >999 | 240 | MT20 |
| TCDL | 10.0 | Lumber DOL | 1.15 | BC | 0.59 | Vert(CT) | -0.26 | 4-5 | >707 | 180 | |
| BCLL | 0.0 * | Rep Stress Incr | YES | WB | 0.50 | Horz(CT) | 0.04 | 4 | n/a | n/a | |
| BCDL | 10.0 | Code | IRC2015/TPI2014 | Matrix-MSH | | | | | | | |
| | | | | | | | | | | Weight: 107 lb | FT = 20% |

| LUMBER | | BRACING | |
|-----------|-------------|-----------|--|
| TOP CHORD | 2x4 SP No.2 | TOP CHORD | Structural wood sheathing directly applied or 4-11-9 oc purlins, except end verticals. |
| BOT CHORD | 2x4 SP No.2 | BOT CHORD | Rigid ceiling directly applied or 8-5-15 oc bracing. |
| WEBS | 2x4 SP No.3 | WEBS | 1 Row at midpt |
| OTHERS | 2x6 SP No.2 | | 3-4, 2-4 |

| REACTIONS | (lb/size) | 4=594/0-3-8, (min. 0-1-8), 6=607/ Mechanical |
|------------|-----------------------------|--|
| Max Horiz | 6=375 (LC 10) | |
| Max Uplift | 4=302 (LC 10) | |
| Max Grav | 4=654 (LC 17), 6=607 (LC 1) | |

| FORCES | (lb) - Max. Comp./Max. Ten. - All forces 250 (lb) or less except when shown. |
|-----------|--|
| TOP CHORD | 1-8=-824/44, 2-8=-715/75, 1-6=-562/121 |
| BOT CHORD | 5-6=-454/492, 4-5=-383/773 |
| WEBS | 2-5=-151/551, 2-4=-959/476, 1-5=0/507 |

- NOTES (9)**
- Unbalanced roof live loads have been considered for this design.
 - Wind: ASCE 7-10; Vult=130mph (3-second gust) Vasd=103mph; TCCL=6.0psf; BCDL=6.0psf; h=35ft; Cat. II; Exp B; Enclosed; MWFRS (envelope) exterior zone and C-C Exterior (2) 0-5-4 to 3-5-4, Interior (1) 3-5-4 to 12-4-12, Exterior (2) 12-4-12 to 15-4-12 zone; cantilever left and right exposed; end vertical left 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.
 - 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.
 - Bearing at joint(s) 4 considers parallel to grain value using ANSI/TPI 1 angle to grain formula. Building designer should verify capacity of bearing surface.
 - Provide mechanical connection (by others) of truss to bearing plate capable of withstanding 302 lb uplift at joint 4.
 - 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.
 - 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.

