

Procedure:

- 1) Obtain 15' (4572 mm) timbers and prepare for layout, including planing, face identification and leveling, and centerline and virtual end grid placement.
- 2) Place squaring lines on all post and beam joinery center waypoints. Kneebraces do not have waypoints and will be dealt with separately.
- 3) Begin at the top of the post tenon joinery and work your way down to the bottom of the post. Make sure there is sufficient waste wood at the post base in case of error.

4.4 45° Sloped Shouldered Tenon

This joint is used to connect the principal post and the hammer post to the principal rafter in each frame. The downward force of the rafter is countered by the 1" (25 mm) shoulder so that it does not have to rely exclusively on the strength of the tenon. As a rule, whenever a cut will be visible, it should be guided with a straight-edge rather than freehand. Refer to the straight-edge guide shown in Figure 4-2.

Figure 4-4 a,b,c,d
45° Sloped Shoulder
Tenon - Layout /
Cutting

