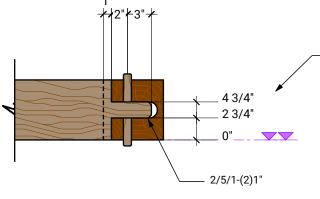
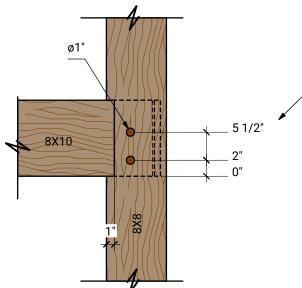
This is a detail sheet illustrating an option on how to layout and cut this particular joint. This entry includes the following:

This is a primary and fundamental joint.

The intent is to use our frame drawings to gather the right lengths and then when it comes time to laying out joinery you refer to these. Mortise and tenon joints are signified by tenon thickness, tenon length, housing depth, and qty of diameter pegs. I.e.: 2/4/1-(2)1" means 2" thick tenon x 4" long w/ a 1" deep housing and (2) 1" dia. Pegs.



A NOTE ON TENON THICKNESS - AS A GENERAL RULE THE TENON THICKNESS SHOULD BE ROUGHLY 25% THE WIDTH OF THE NOMINAL BEAM SIZE. HOWEVER FOR TOOLING PURPOSES AND RESTRAINTS, 1 1/2" IS THE THINNEST TENON THICKNESS. THEREFORE 2" THICK TENONS FOR 8X'S AND 1 1/2" THICK TENONS FOR 6X AND 4X.



HOUSE YOUR BEAM 1" INTO YOUR POST MINIMUM. WITH GREATER LOADS A DEEPER HOUSING WITH A BIGGER POST MAY BE REQUIRED. PEGS SHOULD BE JUSTIFIED TOWARDS GRAVITY. WITH THIS JUSTIFICATION, AS THE BEAM DRIES THE PEGS STAY TRUE AND THE BEAM FIRMLY ON ITS HOUSING SEAT. SPACING SHOULD BE A MINIMUM OF 3 PEG DIAMETERS (I.E. 3" FOR 1" DIA. PEGS). TYPICALLY (2) PEGS SHOULD BE USED AND IN SOME CASES MORE WITH DEEPER BEAMS.

## TYPICAL BEAM JOINT

Scale: 1" = 1' - 0"

JOINT GROUP: \$4\$

FRAME AREA: **BEAM** 

**DETAIL: FUNDAMENTAL BEAM JOINT**  01-08-

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REFER TO LEFT SIDE OF SHEET FOR CLASSIFICATIONS

3D file name: 14x24 Square Rule Shed Roof

File name: Connection Library.2d