

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 1/4-1-(2)1" means 2" thick tenon x 4" long w/ a 1" deep housing and (2) 1" dia. Pegs.

ALWAYS 2" OFF OF SHOULDER OF TENON (UNLESS THERE IS ANOTHER BRACE ON THE OTHER SIDE - SEE EXCEPTION). THEREFORE 2 1/2" FROM BEAM ARRIS WITH 1/2" HOUSING. 2 3/4" FROM BEAM ARRIS WITH 3/4" HOUSING. ETC.

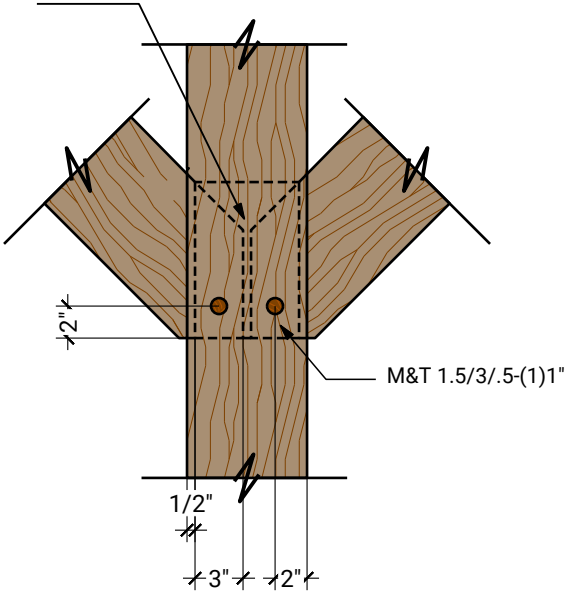
1" NOSE - 1/2" OF IT IS HOUSED AND 1/2" IS VISIBLE.

HOUSED BRACE IS CENTERED ON LEVEL BEAM. WITH ROUGH SAWN MATERIAL CONSIDER JUSTIFYING TO ONE FACE AND USING A BAREFACE TENON. YOU MAY FIND THAT DRAWING IN OUR JOINT AND PEG CONNECTIONS LIBRARY.

ALL BRACE RELIEF CUTS SHALL BE NO MORE THAN 25% OF NOMINAL BRACE HEIGHT (AKA - DEPTH).

ALWAYS 2" FROM BEARING NOSE TO FIRST PEG (THICKNESS OF THE BODY OF THE FRAMING SQUARE). IF MORE THAN ONE PEG IS CALLED OUT, THE SPACING IS 3.5 DIAMETERS AWAY FROM THE FIRST. I.E. 3 1/2" WITH A 1" DIA. PEG.

1/2" GAP BETWEEN TENON ENDS ALLOWS FOR SHRINKAGE OF POST.



EXCEPTION:

Scale: 1" = 1' - 0"

WHEN TWO BRACES SPRING FROM THE SAME HEIGHT ON OPPOSITE FACES ON AN 8X8 POST (7 1/2 X 7 1/2); THE JOINERY MUST BE REDUCED SO THAT TENONS DO NOT COLLIDE.

TYPICAL BRACE JOINERY

Scale: 1" = 1' - 0"

JOINT GROUP: **S4S**

FRAME AREA: **BRACE**

DETAIL: **FUNDAMENTAL BRACE JOINT**

Date: 01-08-2024

Designer: Moyer Fountain

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JOINT LIBRARY

REFER TO LEFT SIDE OF SHEET

FOR CLASSIFICATIONS

3D file name: 14x24 Square Rule Shed Roof

File name: Connection Library.2d