

**Exercise 2.3B**

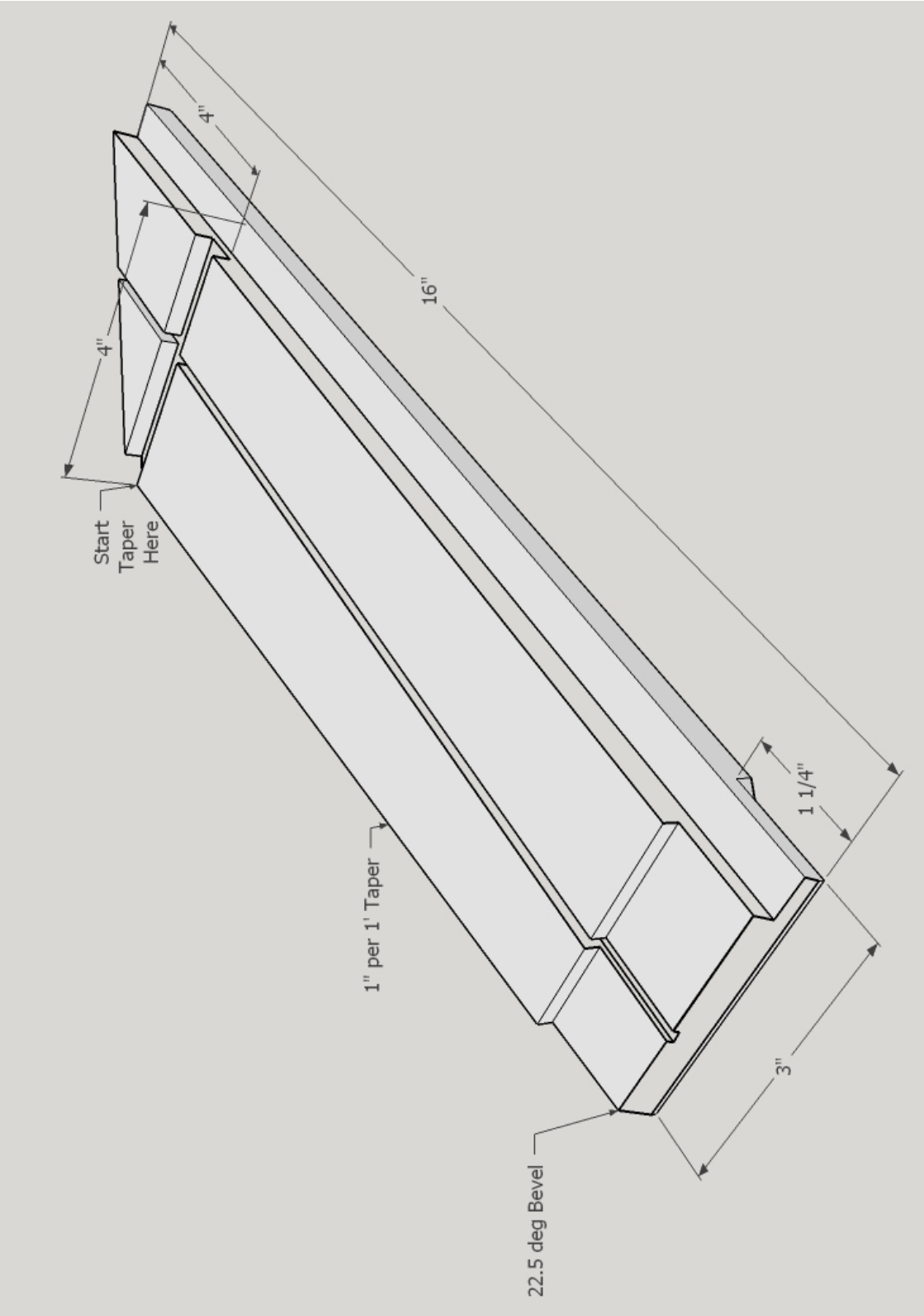
**TABLE SAW OPERATIONS**

You should use your exercise piece from 2.4A. If you do not have this piece, start by ripping a new piece to 4" and proceeding as explained below.

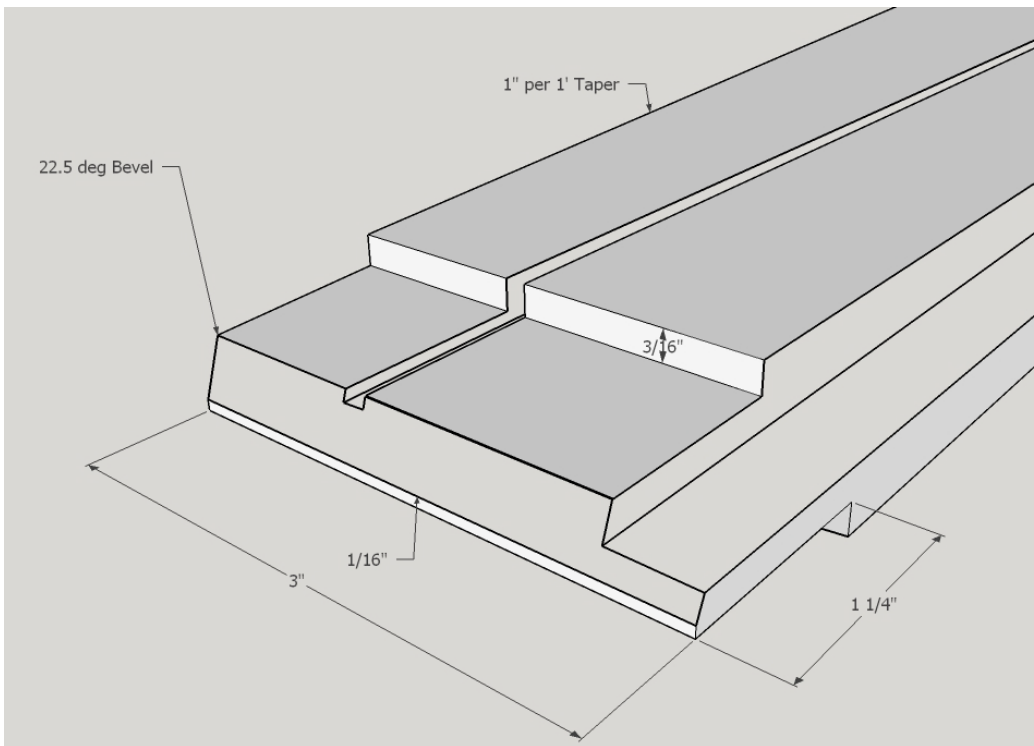
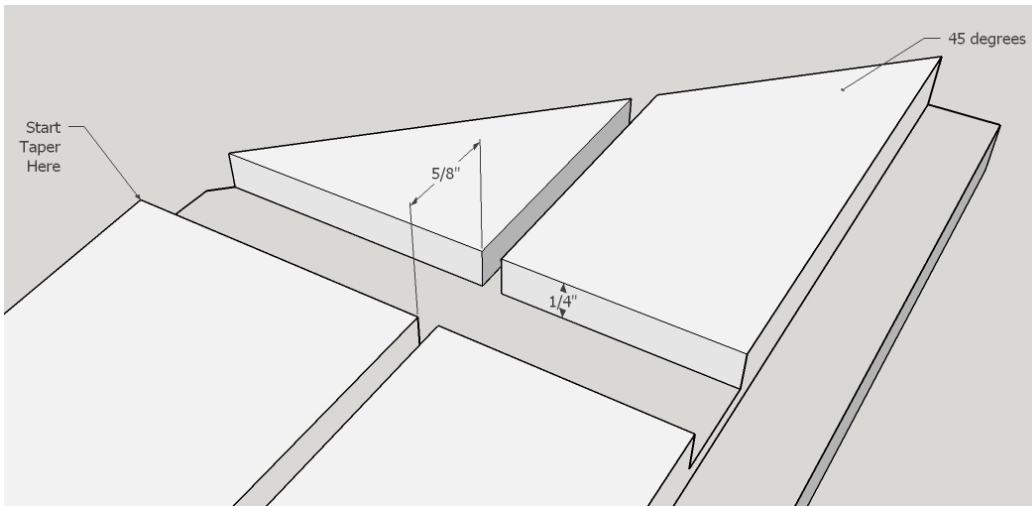
Completed	Procedure
<b>Steps 6-8: Cutting the Tenon:</b>	
☐	6. Layout one end of the work piece for a centered, 3/8 x 1¼" tenon, as shown.
☐	7. Clamp a short board to the fence as a stop, and adjust the fence for the length of the tenon. Adjust the blade to the correct height and make the shoulder cuts.
☐	8. There are two options for cutting the cheeks of the tenon. Whichever method you use, make sure there is a clean backer block to minimize tearout. <b>Single Pass Option:</b> Set the dado blades and spacers to the correct height for the cheek cuts, and using the <u>tenoning jig</u> to hold the stock, make the cheek cuts. Ask the instructor to check your set-up. <b>Two Pass Option:</b> Using the homemade tenoning jig and a single Flat Top Grind blade, adjust the fence to cut the outermost cheek from the jig. After the first pass, rotate the stock and make a second pass. Your tenon will automatically be centered. <u><b>Note:</b> credit will not be awarded for tenons cut flat with a dado blade.</u>
☐	9. Remove the blades and spacers and install the dado set with enough chippers to make a 5/8" cut. <b>MAKE SURE THAT THE CHIPPERS ARE EVENLY SPACED, AND THAT THE TIPS FALL INTO THE LARGE GULLETS ON THE OUTER BLADES.</b> Before you tighten the arbor nut, ask the instructor to check your set-up. Use the dado table insert for this operation.
☐	10. Layout and cut the 5/8" wide dado, as shown, 1/4" deep, using the miter gage.
☐	11. Remove the Dado set from the arbor. <b>HANDLE BLADES AND DADO SET WITH CARE!</b> Return dado head to cabinet.
☐	12. Using a Flat top blade, cut a 1/4" deep groove down the center of the stock, the width being the thickness of the blade.
☐	13. Tilt the blade to 22½ degrees and chamfer the end of the tenon, leaving 1/16" of end-grain material. Do not reduce the length of the piece. <b>Consult the print in the classroom for clarification.</b>
☐	14. Set the miter gage to 45 degrees and miter the end opposite the tenon. Use a combination square to check the angle, and be sure not to reduce the length of the piece.
☐	15. Use a taper jig and the fence to cut a one inch per foot taper on the edge opposite the rabbet.
<u><b>Evaluation:</b> Submit your exercise to your instructor for review.</u>	

**TABLE SAW SKILL EXERCISE 2.3B**

Note: Refer to drawing in classroom for better clarity on dimensions. Also, Crosscut, Rip and Rabbet operations were done as part of Ex. 2.4A



Unit 2.3 – Table Saw



**Grading Criteria** (12 points):

Accuracy of Tenon (.375" x 1.25")	Dado Width (5/8") Depth (1/4")	Depth & Width of Groove	Accuracy of Taper (exits +/- 1/4" of layout)	Miter angle +/- .5 deg	Accuracy of Chamfer (1/16" flat)
Quality/Loc.	Quality/Loc.	Quality/Loc.	Quality/Loc.	Quality/Loc.	Squareness to face

Dimensional Accuracy +/- 1/32"

Quality = minimal burning or tearout

Loc. = Correct Location

**Total:** \_\_\_\_\_/12 pts

**Comments:**