SkillsUSA California
Introduction to Woodworking
2014 State Contest

Description: The Introduction to Woodworking contest is a state contest only. It is open to all first year secondary construction or woodworking students. Contestants will build a beginning woodworking level project that may require the use of stationary power tools such as the table saw or power miter box under the contest coordinator's supervision. The project may also include the use of portable power tools such as a portable electric drill and a jig saw. Hand tools will also be required to complete the project. Contestants are required to bring the tools listed to the contest. All materials and stationary tools will be provided for.

A measured drawing, tool list, scoring sheet, and sample written test has been attached for your convenience. Contestants are required to attend an orientation meeting. A sample project will be available and detailed instructions given at the orientation meeting. A written test will be administered at the orientation meeting and will make up 10% of the total score.

Dress requirement: Khaki work shirt (official SkillsUSA logoed shirt NOT required and khaki work pants, black or brown leather work shoes, and safety glasses with side shields or goggles. (Prescription glasses can be used only if they are equipped with side shields. If not, they must be covered with goggles.)

Process #1 (Written Test): Contestants will complete a written (math and safety) test encompassing true/false questions about shop safety, addition and subtraction of fractions, and basic applied geometric concepts. They will also complete a ruler test where the student is expected to read a ruler marking and interpret the measurement.

Process #2 (tote tray construction): This Tote Tray will be made from ¾" # 2 pine. The material has been ripped to width for you, but you will need to cut each piece to length using a power miter saw that has been provided for you to use. The handle will be shaped using the Jig Saw provided. The handle should be doweled to the ends of the tray using your portable drill. The rest of the box will be glued and nailed together. Please set all nails and patch over them. Sand all surfaces smooth and remove all sharp edges.

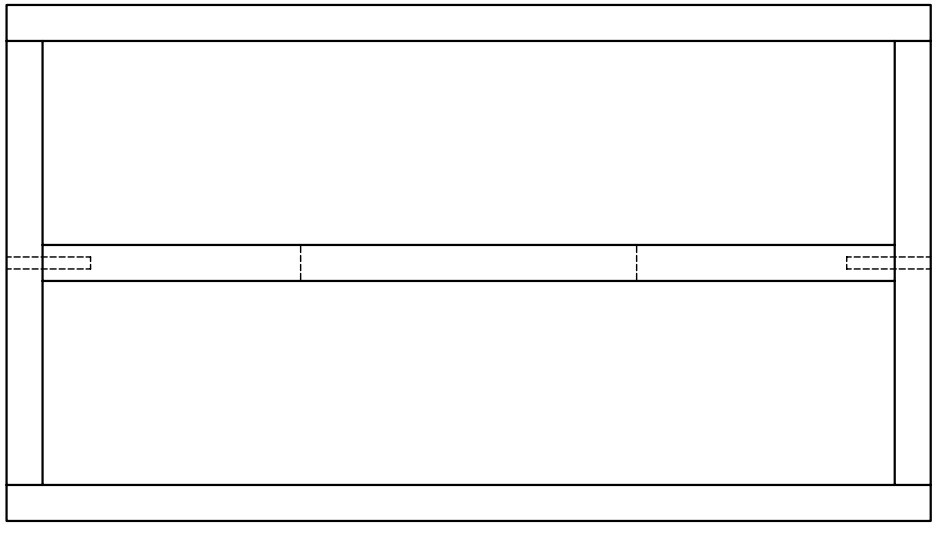
1. **Tools Required for Contest (provided by Organizers)**
    - Min 1 qty - Table saw (needed only by organizers to pre-cut material)
    - Min 2 qty - sliding compound miter saw and extra blades
    - Min 4 qty - Electric Jig Saws with wood cutting blades
    - First aid kit
    - Scissors -3-4 pair for students to cut curve template
    - Recommended: verification gauges for judges to use for checking projects (based on curve template; a mirror image of the profile). Use ¼" hardboard material or similar.
2. **Materials Required for Contest (provided by Organizers)**
    - 1 pc per student, 3/4" X 9 1/4" X 19" (plywood) (for the bottom piece)
    - 1 pc per student, 3/4" X 3 3/4" X 60" (#2 pine) (for sides and ends)
    - 1 pc per student, 3/4" X 4 1/2" X 19" (#2 pine) (for the handle)
    - Nails, 1½" finish – qty 16 per student
    - ¼" x 2" dowels – qty 4 per student
    - Wood glue – qty 2 pint bottles (shared)
    - Wood filler – qty 2 4 oz. cans (shared)

3. Student Tool List

Students are expected to bring (1) of each of the following items. Items not included on this list may not be used for the contest. Tool list check may be included in total score. Ensure that all cutting tools have been properly sharpened.

a. Safety Glasses
b. 2 pencils
c. Calculator
d. Scissors
e. Tape Measure
f. Compass or Divider
g. Sanding Block
h. 100 grit, 150 grit and 220 grit sandpaper
i. Tri Square or Combination Square
j. Backsaw or Dovetail Saw
k. Curved Claw Hammer
l. Cordless Drill + backup battery and charger
m. ¼" Brad Point Drill Bit
n. 1/16" Twist Drill Bit
o. 1/16" Nail Set
p. Half Round Wood Bastard File w/handle
q. Block Plane (low angle suggested)
r. ¾" or 1" Wood Chisel
s. 6" C-Clamp or equivalent (2 each)
t. 24" Bar Clamp or equivalent (2 each)
u. 1" Putty Knife
v. Utility Knife
w. Cabinet Scraper

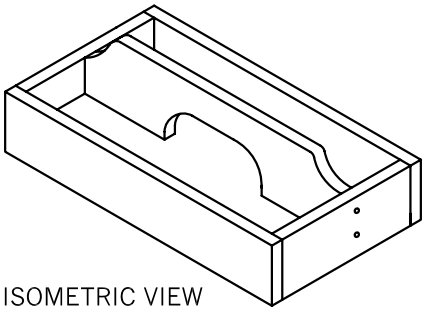
9/6/13



1.) Glue and nail corners and bottom.

2.) Dowel the handle to the box.

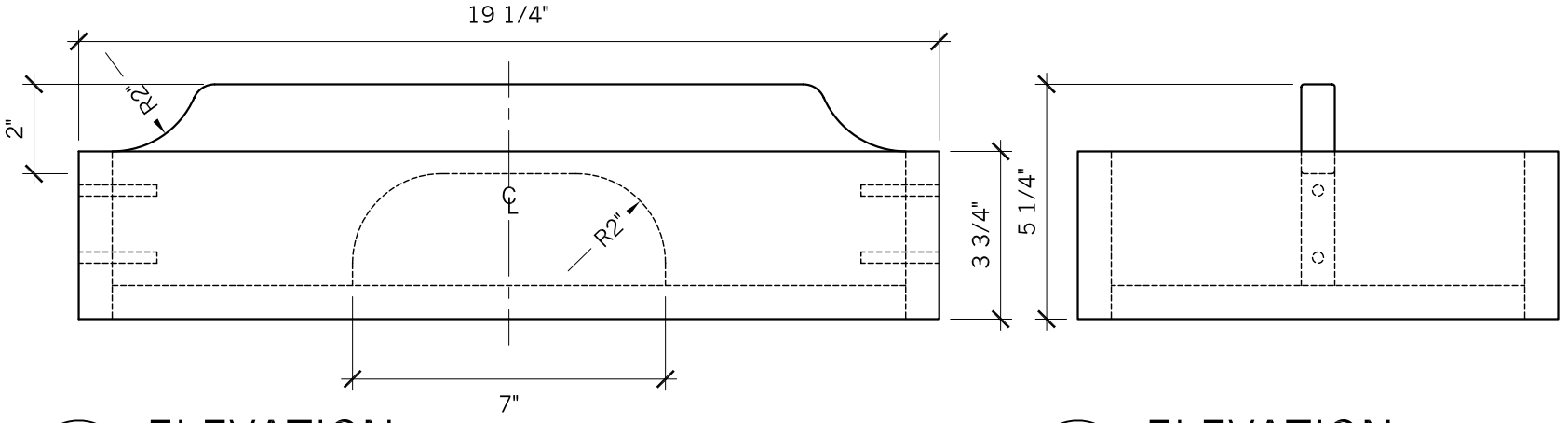
3.) Bullnose break all sharp edges and corners.



ISOMETRIC VIEW

PLAN

SCALE: 3"=1'-0"



1 ELEVATION

SCALE: 3"=1'-0"

2 ELEVATION

SCALE: 3"=1'-0"

DIMENSION TOLERANCE: 1/32''±

DATE: FALL	DRAWN BY: sm	DWG. NO. 1	1 OF 1
JOB #: 2014	SCALE: 3"=1'-0"		

INTRO TO WOOD

TOTE TRAY DRAWING

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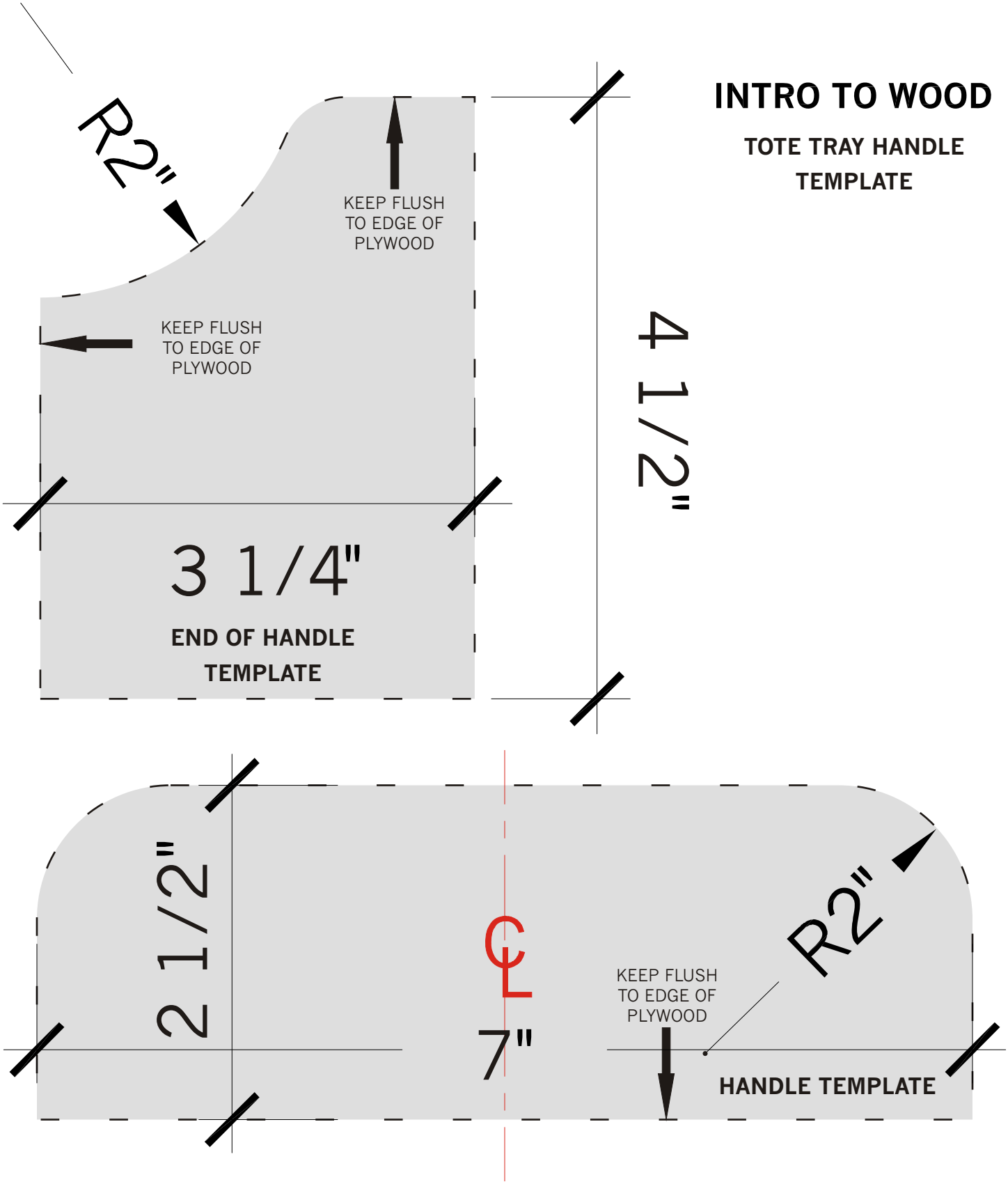
INTRO TO WOOD

TOTE TRAY HANDLE TEMPLATE



- PRINT OUT TEMPLATE AND CUT ALONG THE DASHED LINE

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DIMENSION TOLERANCE: 1/32''±

9/6/13