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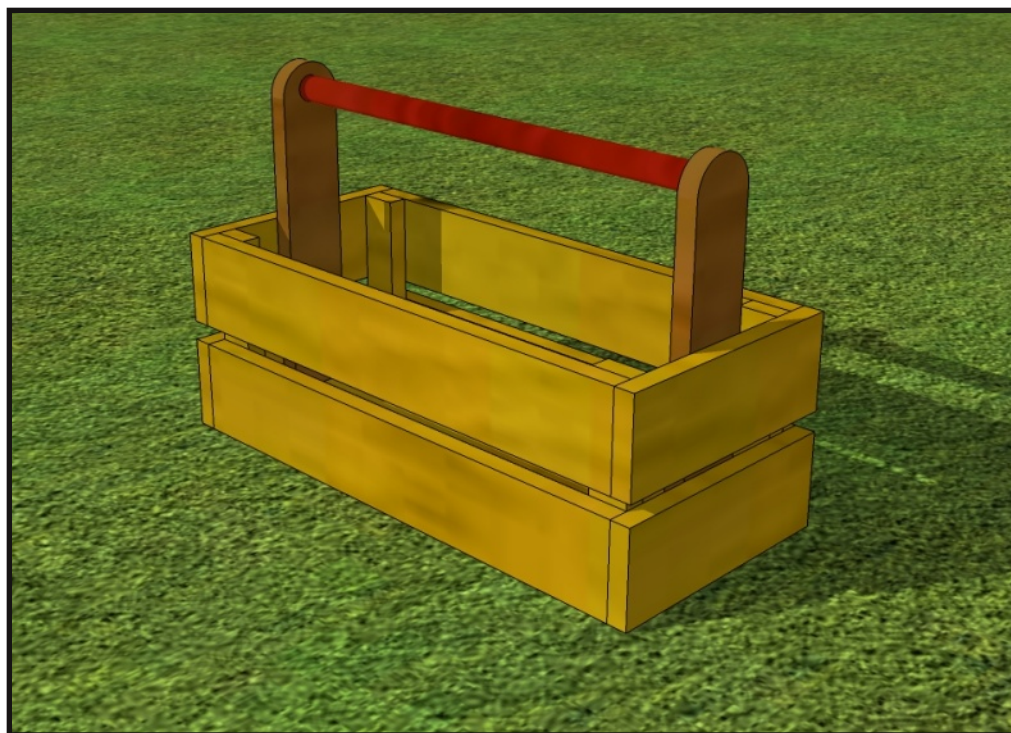
Plan of the Week

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CHIEF'S SHOP PLAN OF THE WEEK



SIMPLE WOODWORKING: CRATE TOTE




ABOUT THESE PLANS


On this first page you will see above the project complete. On the last page you'll find the finished outer dimensions.


To the right is a list of the Lumber, Hardware/Supplies, and Tools you will need to complete this project. A measuring tape and pencil are not included because that should be pretty standard and self explanatory.

Below What You'll Need is the Parts list. This also is included on the Cutting Diagram page, which is the last page of this plan document.

Throughout these plans you'll find the icons below:

 **LAYOUT** This indicates a diagram detailing the dimensions of a project part and/or the placement for pocket holes, screws, nails, etc.

 **NOTE** Notes are the instructions for a particular step/section of the project.

 **TAKE CARE!** This indicates when to pay close attention to the diagrams, take precautions for safety, etc.

WHAT YOU'LL NEED



LUMBER

- 1 - 1 x 2 x 4
- 1 - 1 x 3 x 4
- 1 - 1 x 4 x 6
- 1 - 1 x 4 x 8
- 1-inch round dowel
(availability will vary)

HARDWARE/SUPPLIES

- #16 x 1 1/4" brads
- #16 x 1 1/2" brads
- wood glue

TOOLS

- miter saw, circular saw,
or hand saw
- jig saw
- drill/driver (or drill press)
with 1-inch Forstner bit
- power sander
- pneumatic nailer/hammer
- compass
- clamps
- square

PARTS

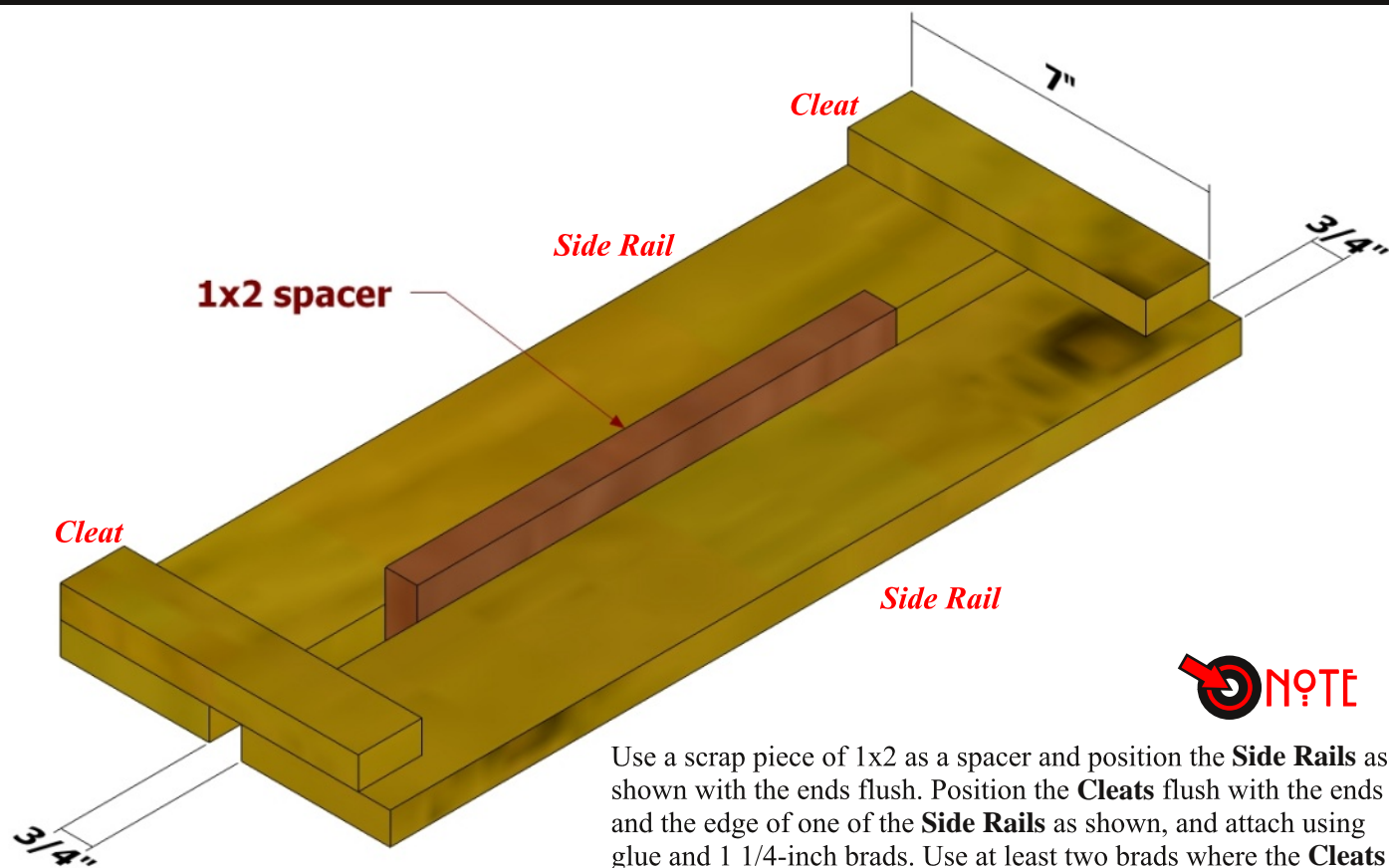
- Side Rails (4) - 3/4 x 3 1/2 x 20
- Cleats (4) - 3/4 x 1 1/2 x 7
- Arms (2) - 3/4 x 2 1/2 x 13
- End Rails (4) - 3/4 x 3 1/2 x 9 1/2
- Slats (2) - 3/4 x 3 1/2 x 20
- Handle (1) - 1 x 19 1/4

All parts are listed in actual dimensions. Refer to the Cutting Diagram on the last page of this plan as a guide for determining the specific board from which to cut the parts.

MORE PLANS

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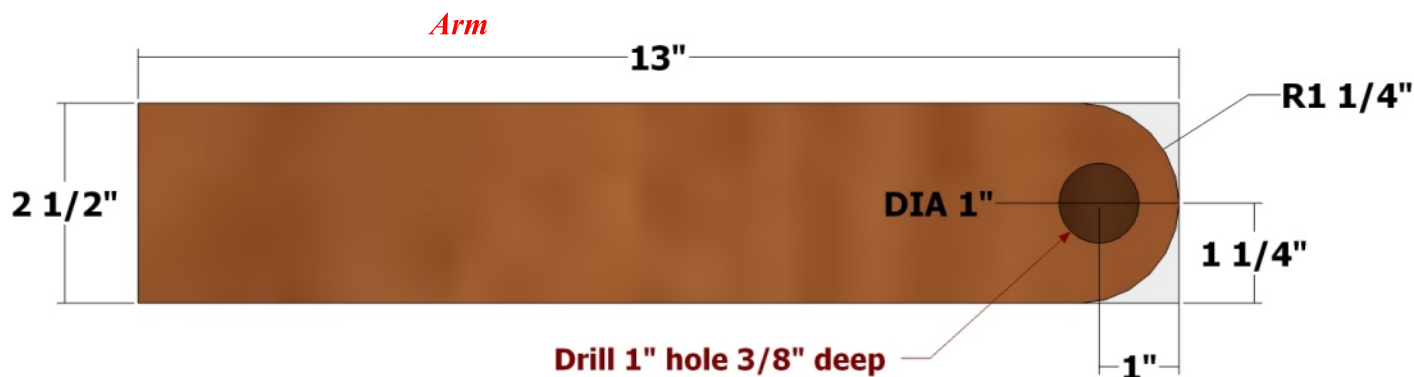
NOTE

Use a scrap piece of 1x2 as a spacer and position the **Side Rails** as shown with the ends flush. Position the **Cleats** flush with the ends and the edge of one of the **Side Rails** as shown, and attach using glue and 1 1/4-inch brads. Use at least two brads where the **Cleats** come in contact with each **Side Rail**. Create two assemblies.

LAYOUT

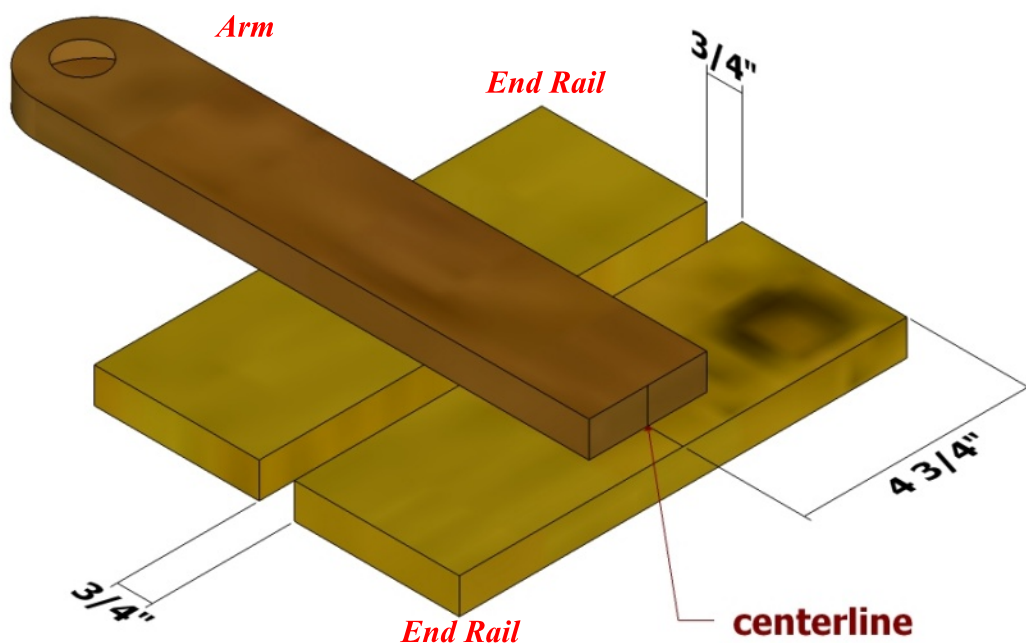
NOTE

Use the layout as a guide for measuring, marking, and cutting the **Arms**. Use a jig saw to cut the rounded ends and a 1-inch Forstner bit to cut the 1-inch hole 3/8-inch deep.



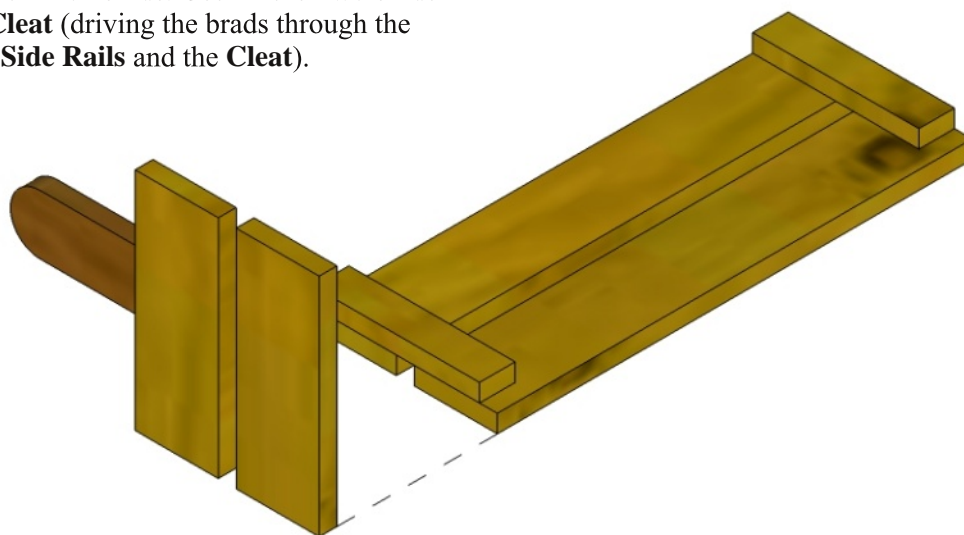
NOTE

Mark a centerline on the flat end of the **Arms** and on one face of an **End Rail**. Position the **Arms** (with the 1-inch hole facing up) centered and 3/4-inch from the edge of the marked **End Rail** and attach using glue and at least three 1 1/4-inch brads. (Use a square to keep the **Arm** in the position as needed.) Position another **End Rail** as shown (flush with the ends of the first **End Rail** and spaced 3/4-inch apart) and attach using glue and at least three 1 1/4-inch brads. Create two assemblies.



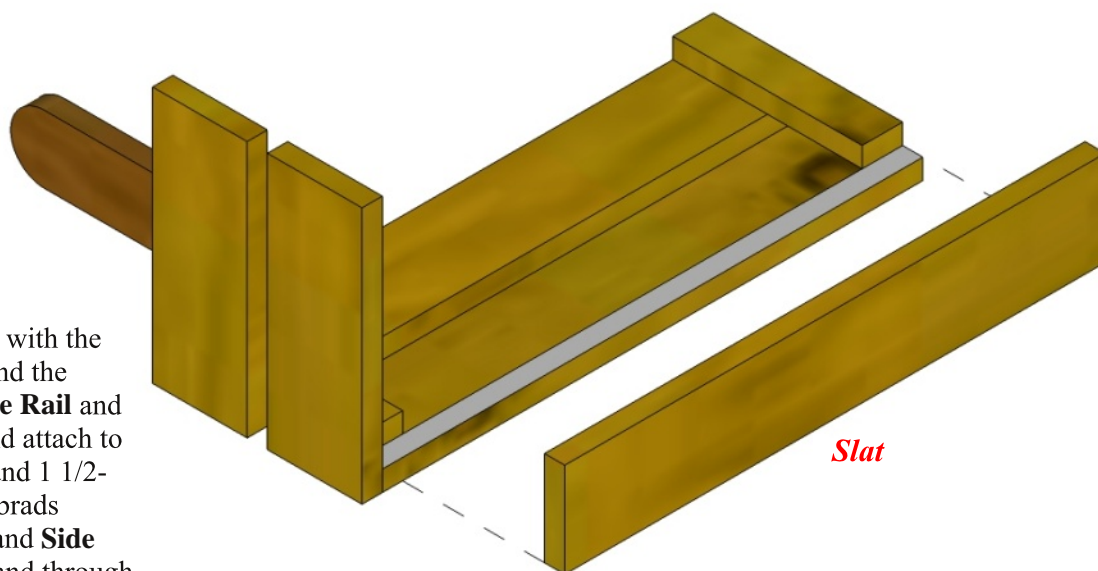
NOTE

Position the **End Rail Assembly** flush with the end of the **Side Rail Assembly** as shown below (with the **End Rails** flush with the **Side Rails**) and attach using glue and 1 1/2-inch brads. Use at least two brads per rail and at least two brads per **Cleat** (driving the brads through the **End Rails** and into the ends of the **Side Rails** and the **Cleat**).



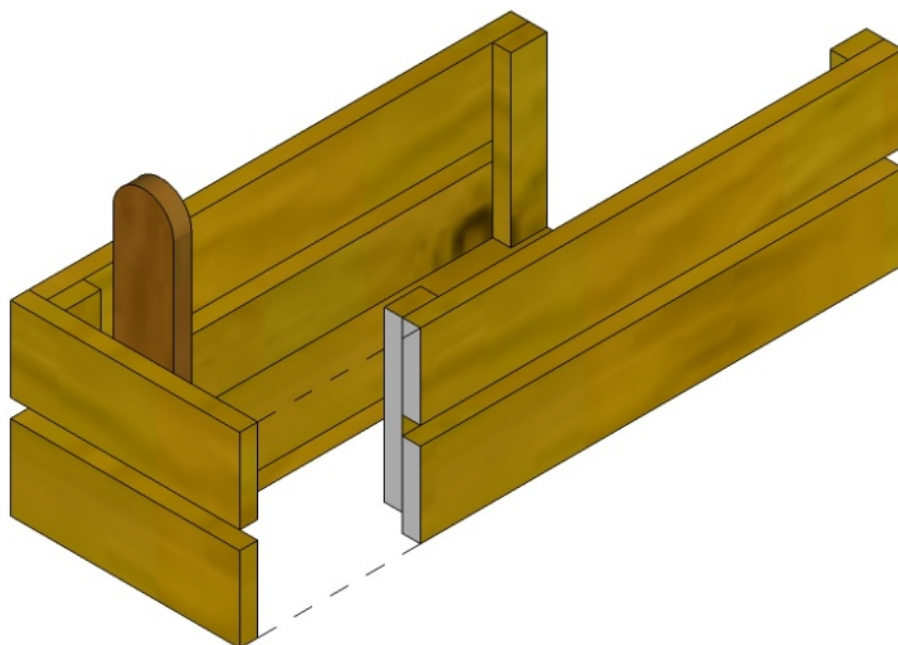
NOTE

Position one **Slat** flush with the bottom of the **Cleats** and the bottom edge of the **Side Rail** and **End Rail** as shown, and attach to the **Cleats** using glue and 1 1/2-inch brads. Also drive brads through the **End Rail** and **Side Rail** and into the **Slat** and through the **Slat** and into the bottom end of the **Arm**.



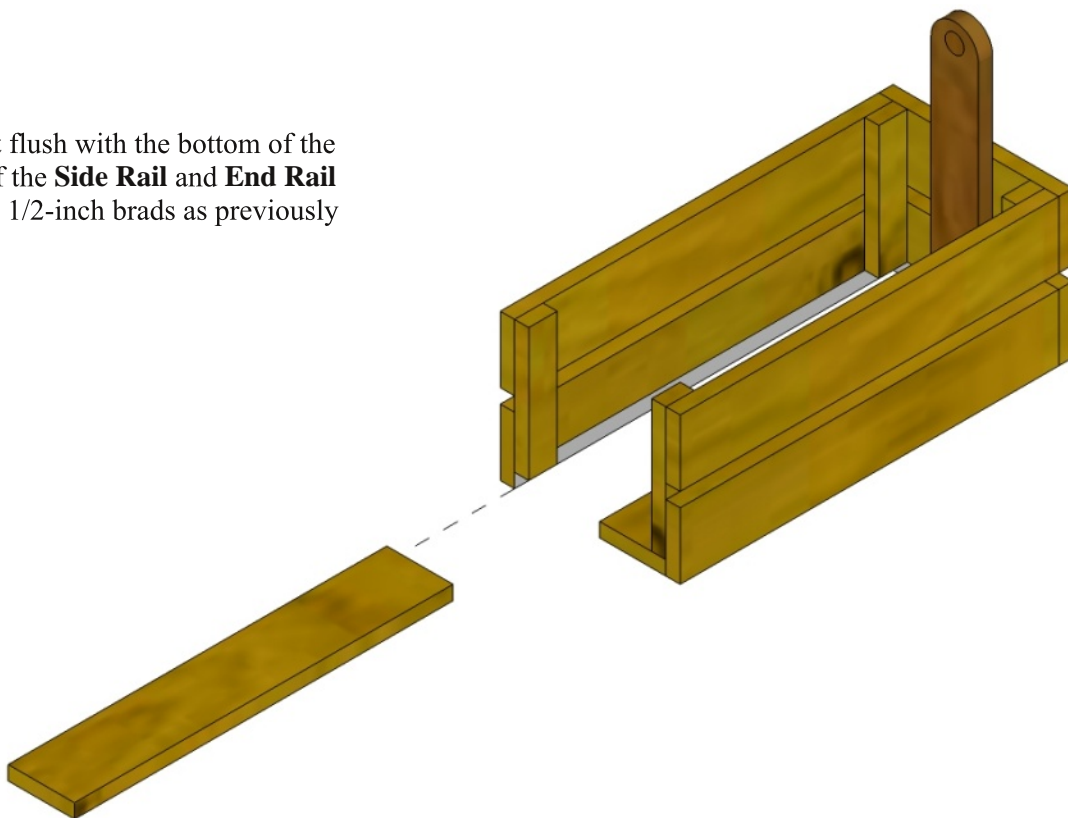
NOTE

Position the remaining **Side Rail Assembly** flush with the inside edge of the **End Rail Assembly** as shown and attach using glue and 1 1/2-inch brads as previously described.



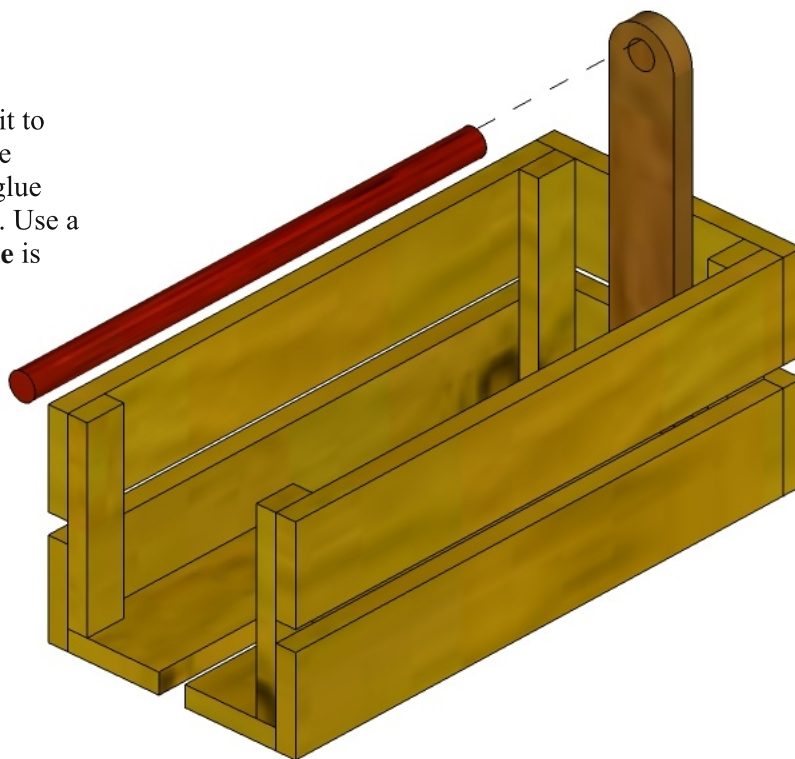
 NOTE

Position the remaining **Slat** flush with the bottom of the **Cleats** and bottom edges of the **Side Rail** and **End Rail** and attach using glue and 1 1/2-inch brads as previously described.



 NOTE

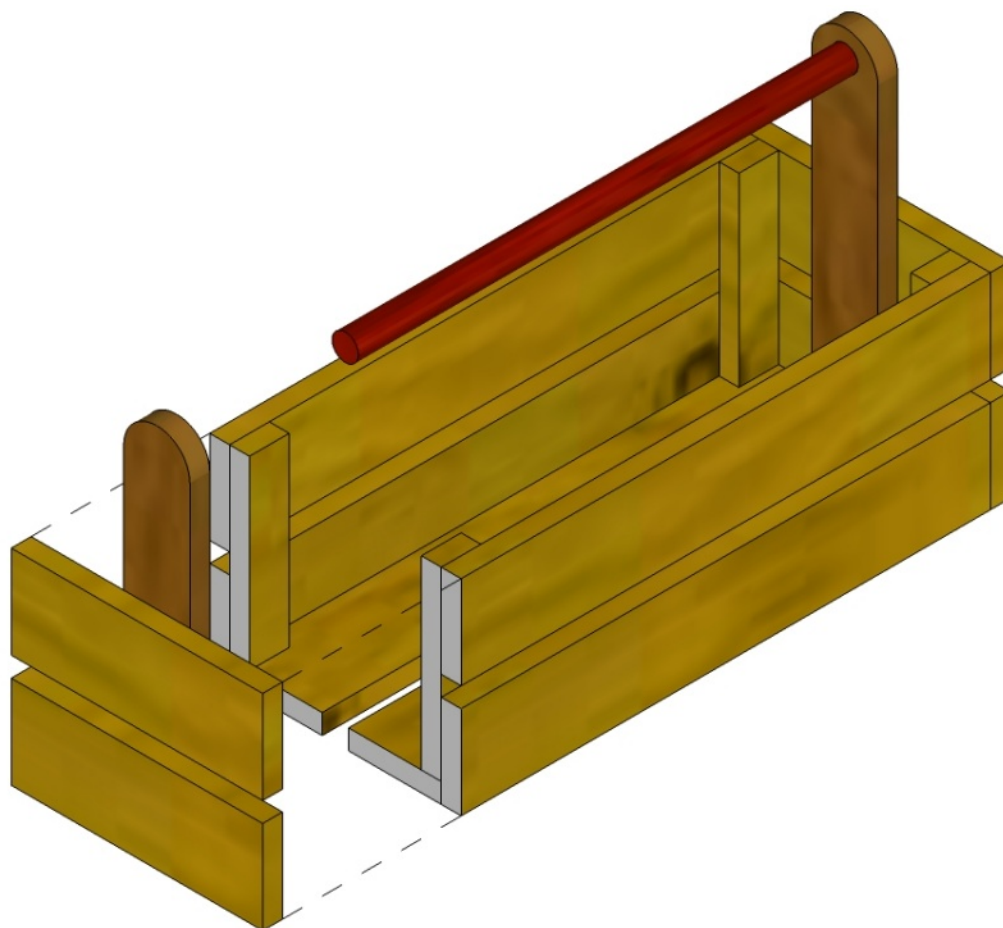
Sand the edge of the end of the **Handle** to allow it to slide into the hole in the **Arm** (sand the end of the **Handle** to give it a slight conical shape). Apply glue inside the hole in the **Arm** and insert the **Handle**. Use a rubber or wooden mallet to make sure the **Handle** is fully seated.



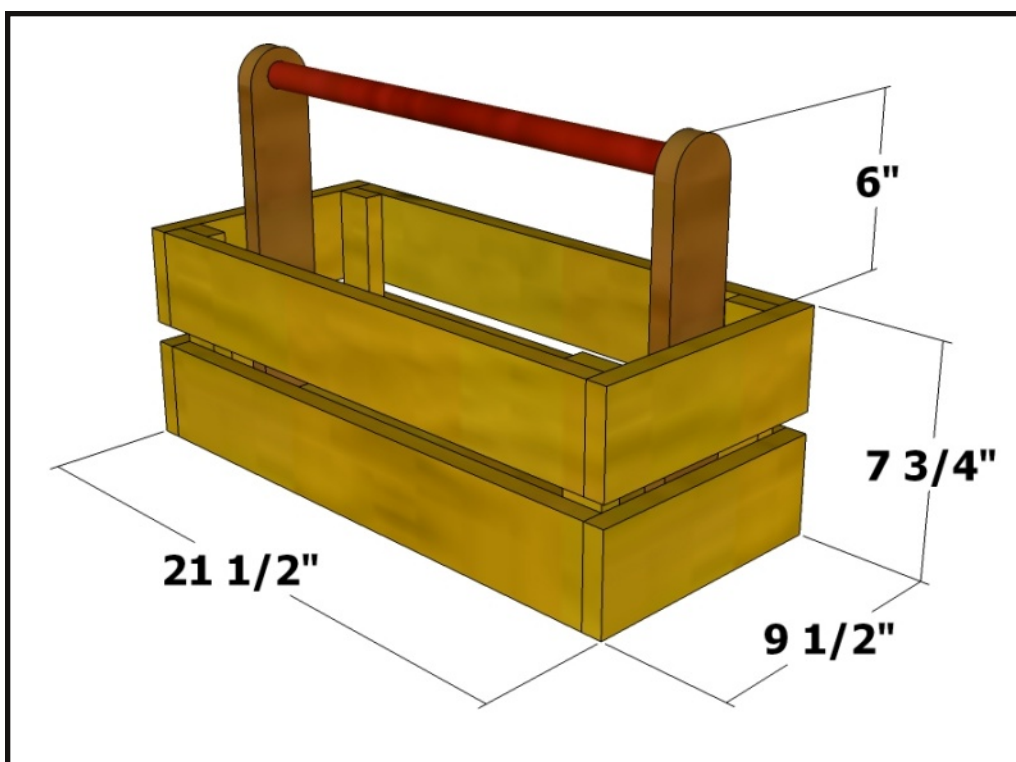
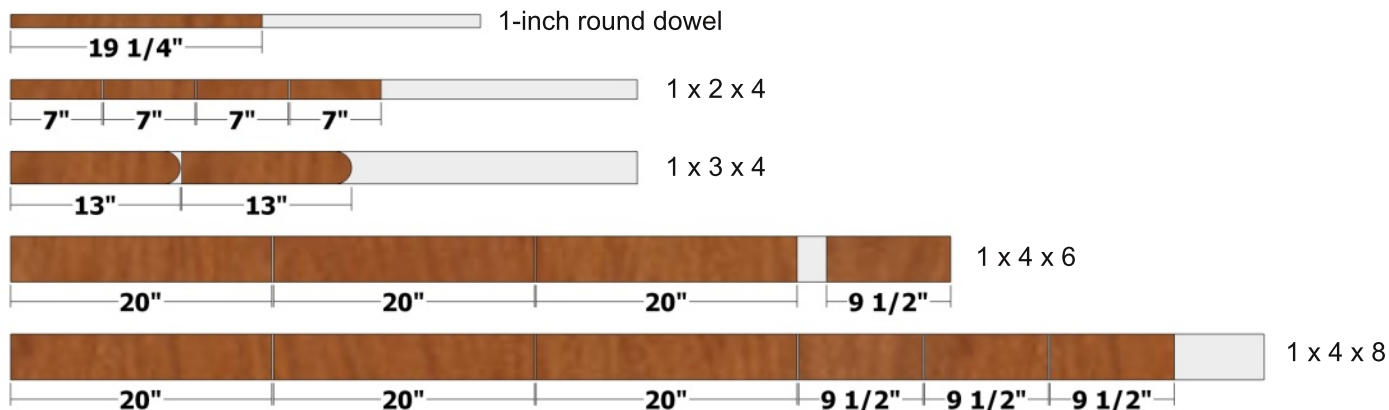
 **NOTE**

Sand the edge of the other end of the **Handle** to allow it to slide into the hole in the **Arm** (sand the end of the **Handle** to give it a slight conical shape). Apply glue inside the hole in the **Arm** of the remaining **End Rail Assembly** and to the ends of the **Side Rails** and **Slats**, and the edge of the **Cleats**. Insert the **Handle**, and position the **End Rails** flush with the ends and edges of the **Side Rails** and **Slats**. Attach using glue and 1 1/2-inch brads as previously described. Use a rubber or wooden mallet to make sure the **Handle** is fully seated.

Drive a 1 1/2-inch brad through the rounded end of the **Arm** and into the **Handle**. If using a hammer, drill a 1/16-inch (or smaller) pilot hole first.



K CUTTING DIAGRAM



PARTS

- Side Rails (4) - 3/4 x 3 1/2 x 20
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TAKE CARE!

Follow ALL SAFETY GUIDELINES AND RECOMMENDATIONS provided by the manufacturers of your tools, and any chemicals such as glue and finishes you use in this project. YOU are responsible for your safety, so use common sense when working in the shop!