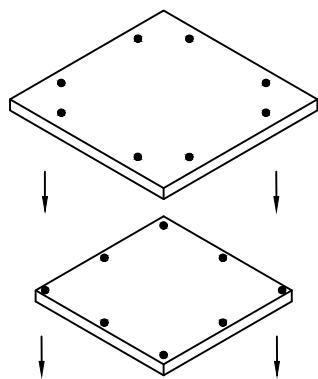
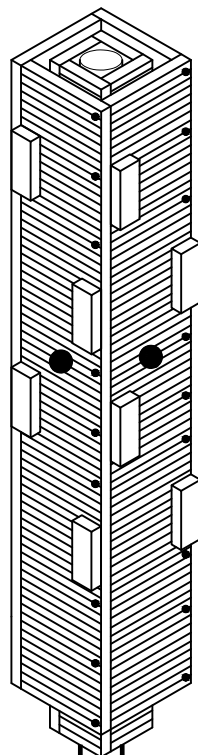


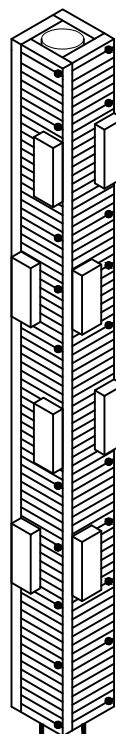
Outer shell



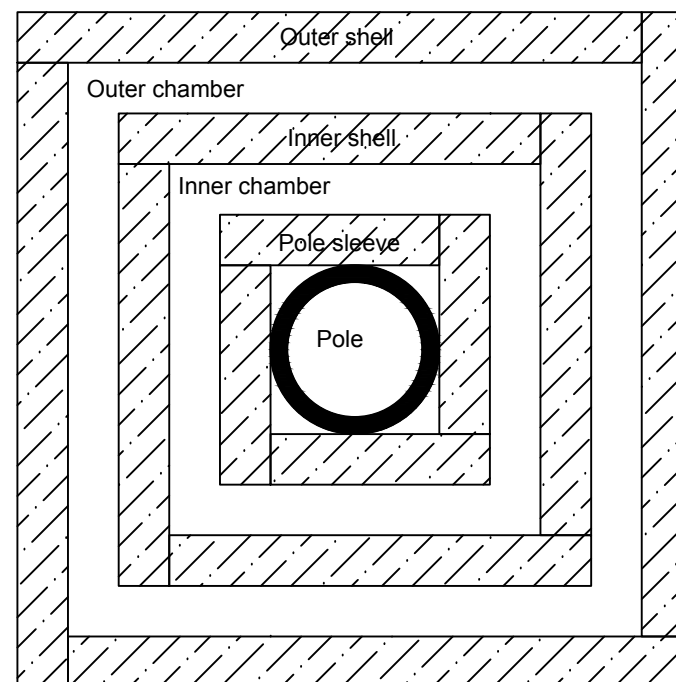
Inner shell



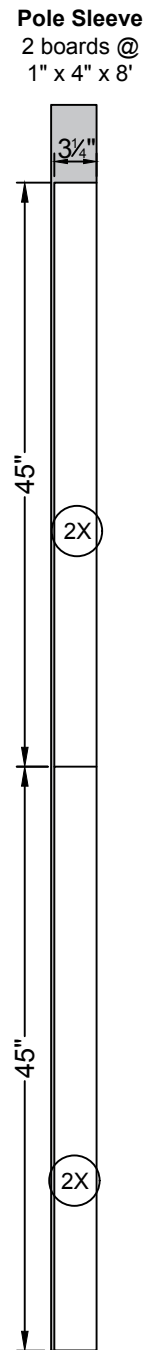
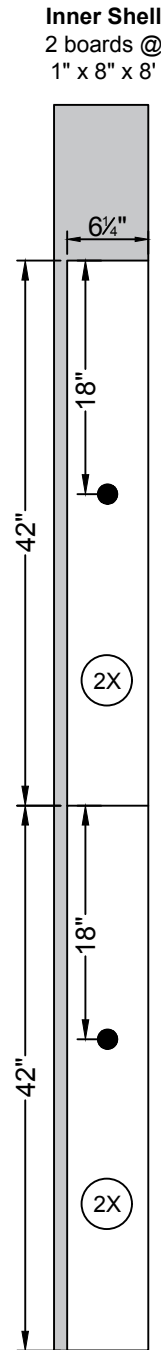
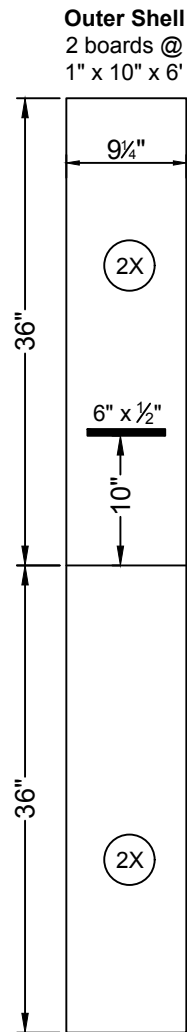
Pole Sleeve



Cross section



# Cutting Diagram

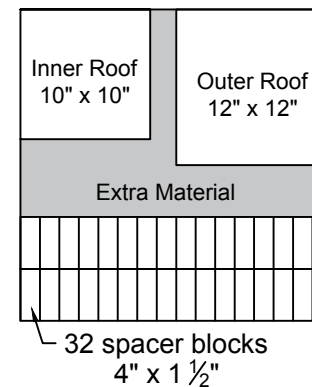


## Materials

2" Diameter ( $2\frac{3}{8}$ " outside diameter) steel pole, 20' long  
 Two 1" x 4" ( $\frac{3}{4}$ " x  $3\frac{1}{2}$ " finished) x 8' boards\*  
 Two 1" x 8" ( $\frac{3}{4}$ " x  $7\frac{1}{4}$ " finished) x 8' boards\*  
 Two 1" x 10" ( $\frac{3}{4}$ " x  $9\frac{1}{4}$ " finished) x 6' boards\*  
 24" x 24" x  $\frac{3}{4}$ " piece of AC exterior plywood  
 Box of 100 exterior-grade screws,  $1\frac{5}{8}$ "  
 Box of 100 exterior-grade screws,  $1\frac{1}{4}$ "  
 16 to 32 exterior-grade screws, 2"  
 20 to 30 roofing nails,  $\frac{7}{8}$ "  
 One quart (0.946 L) water-based primer, exterior grade  
 Two quarts (1.89 L) flat, water-based stain or paint, exterior grade  
 Asphalt shingles or dark galvanized metal  
 One tube paintable latex caulk  
 Two  $\frac{1}{4}$ " x  $4\frac{1}{2}$ " carriage bolts, washers and nuts

\*Cedar or Poplar preferred

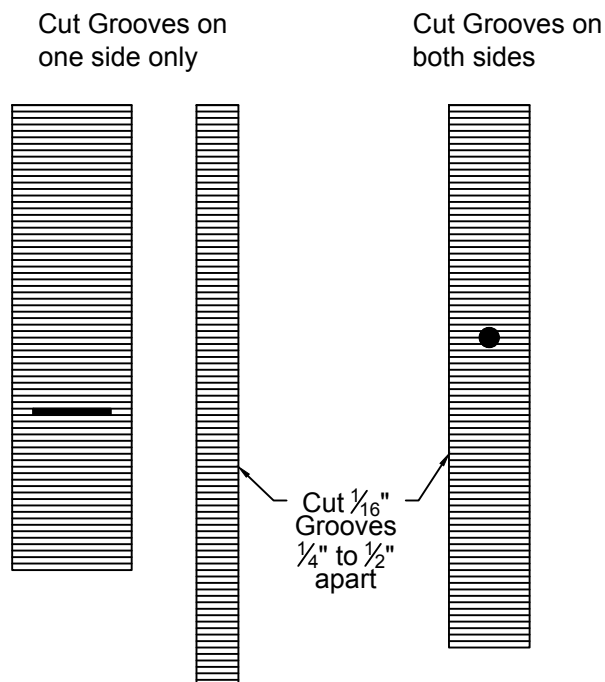
## 24" x 24" x $\frac{3}{4}$ " AC Plywood



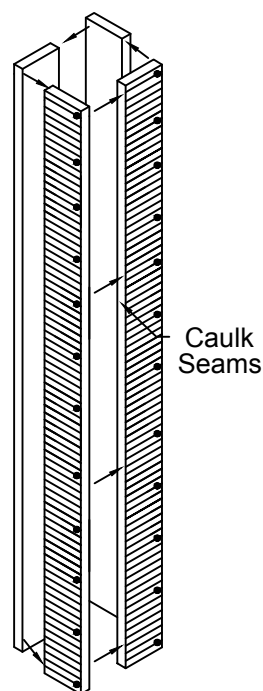
Two-chamber  
Rocket Bat Box

## Instructions

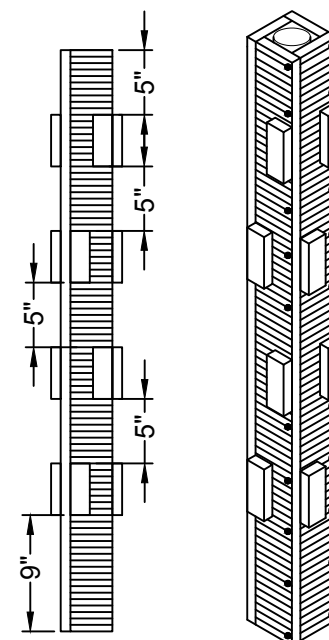
1. **Begin by cutting the wood material as per the cutting diagram. Ensure that pieces are cut to exact measurements for good fit.**
2. **Cut  $\frac{1}{16}$ "-deep horizontal grooves  $\frac{1}{4}$ " to  $\frac{1}{2}$ " apart on one side of all 36" and 45" boards and both sides of all 42" boards. Sand after to remove any splinters.**



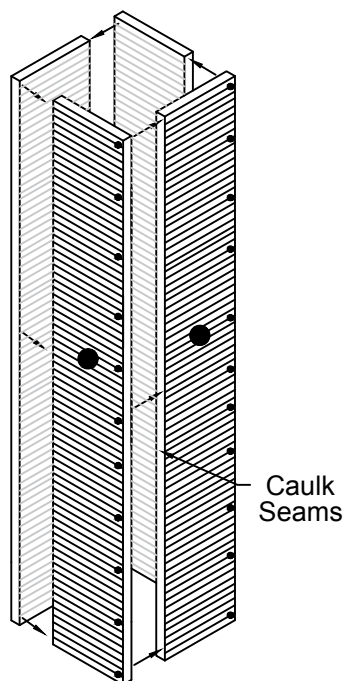
3. **Assemble the four pole sleeve boards into a box with groove side facing out. Assemble using  $1\frac{5}{8}$ " screws and caulking at the seams. Pre-drilling holes will prevent splitting of the boards.**



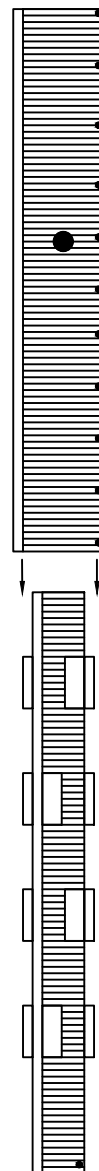
4. **Pre-drill two  $\frac{1}{8}$ " holes through each  $\frac{3}{4}$ " x  $1\frac{1}{2}$ " x 4" spacer blocks**
5. **Attach spacer blocks to pole sleeve as shown using two  $\frac{1}{4}$ " screws per block.**



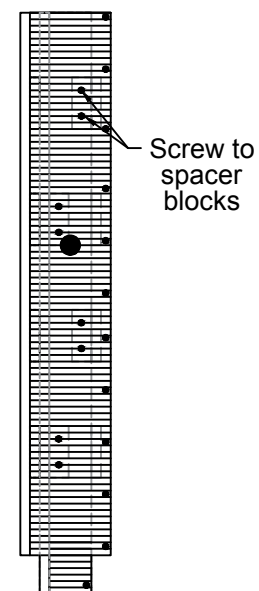
6. **Assemble the four inner shell boards into a hollow square box as per instructions in step 3. (Optional: assemble the inner shell boards around the pipe sleeve and adjust after).**



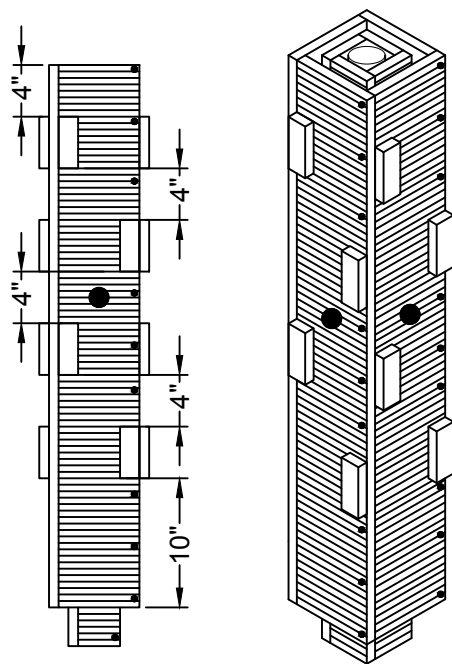
7. **Slide the inner shell box over top of the pole sleeve until the tops of each box are flush. The 1 1/2" bat passage holes are to be closer to the top of the box.**



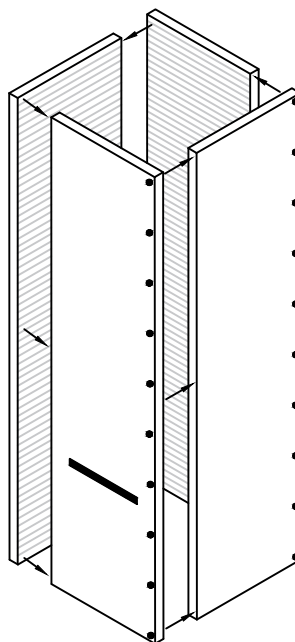
8. **Mark locations of splitter blocks on the outside of the inner shell. With 2" screws secure the inner shell to the pole sleeve through the spacer blocks. No screws should protrude through the roosting chamber. Again it is recommended to pre-drill holes first to prevent splitting.**



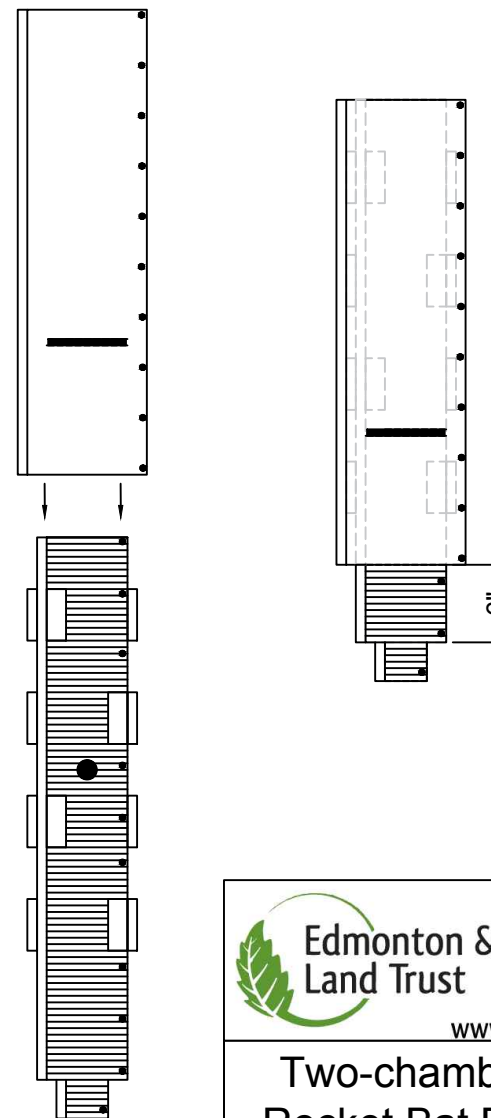
9. **Attach spacer blocks to the inner shell as shown using 1 1/4" screws.**



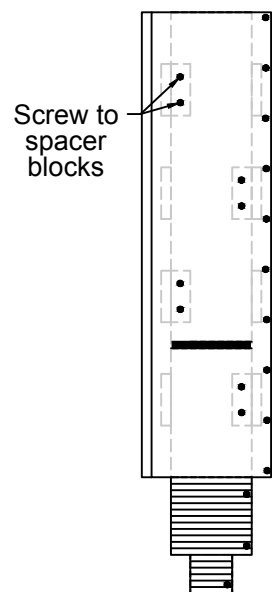
10. **Assemble four outer-shell boards into hollow square box as in step 3. Ensure groove side is facing in. (Optional: Assemble around inner shell).**



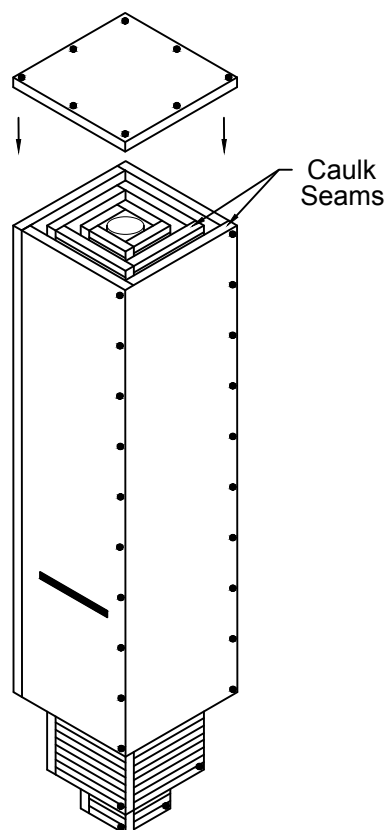
11. **Slide outer shell over the completed inner shell leaving 6" of inner shell protruding below the outer shell as per the diagram.**



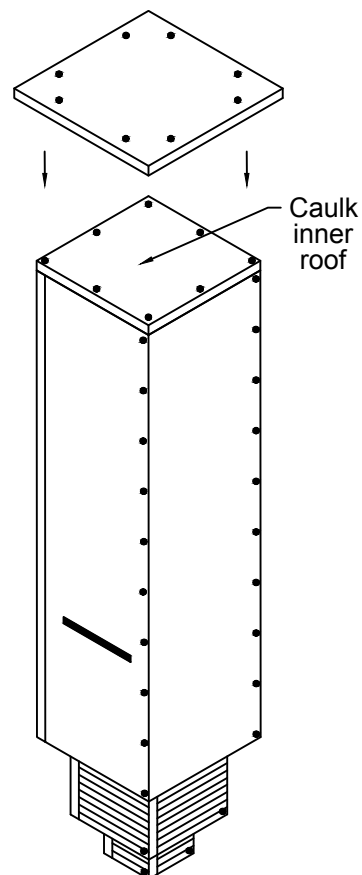
- 12. Secure outer shell as in step 9 (with recommended pre-drilling holes first). Ensure no screws protrude into the roosting chamber.**



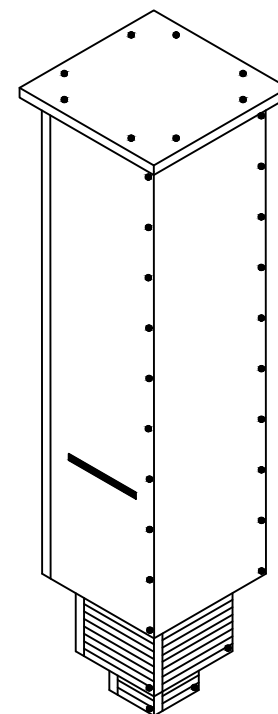
- 13. Caulk the top edges of the box, then attach inner roof using 1 1/4" screws. Pre-drill first to prevent splitting and ensure that screws do not protrude into roosting chamber.**



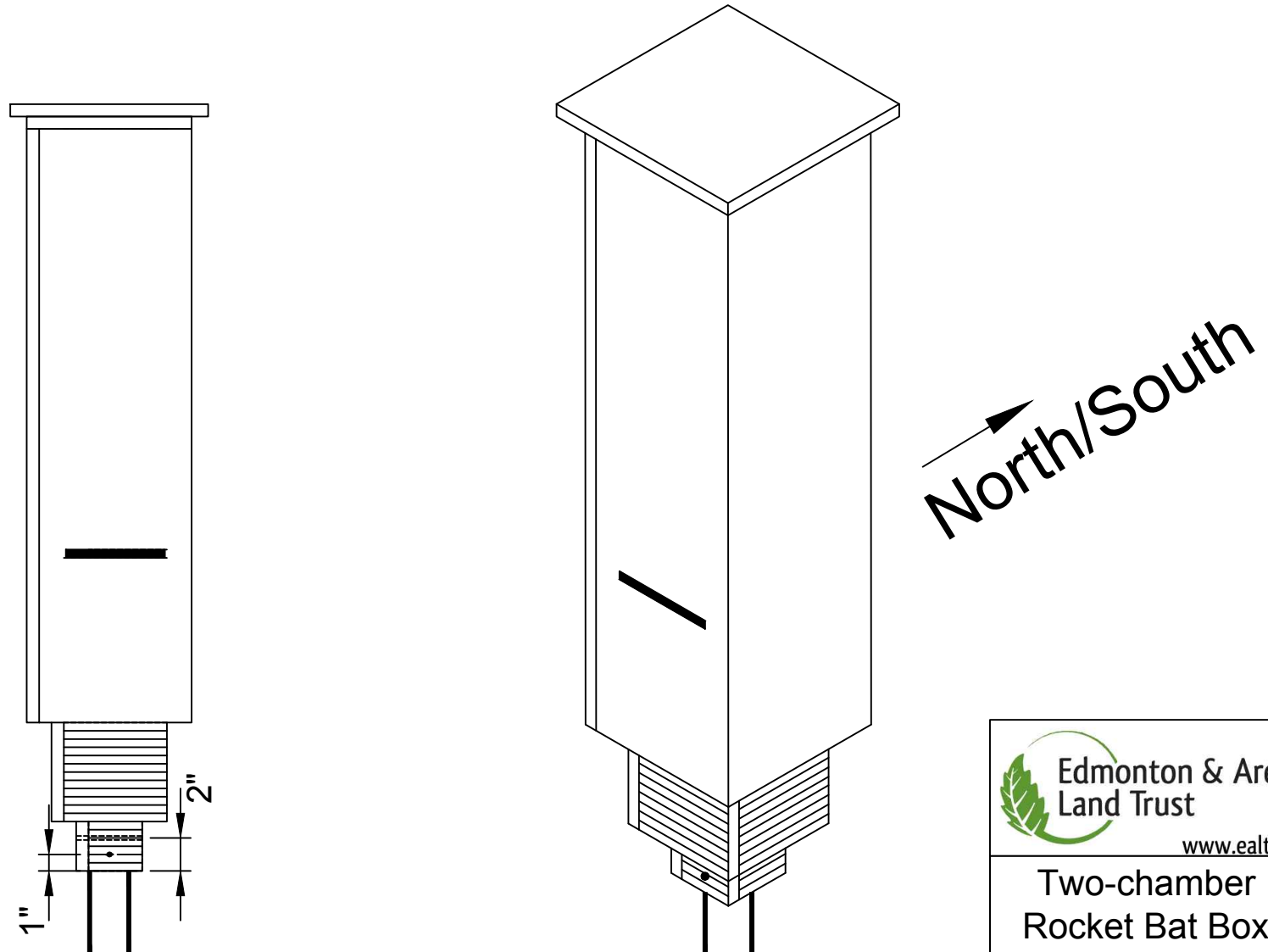
- 14. Caulk the top of the inner roof and center and attach the outer roof using 1 1/4" screws.**



- 15. Paint or stain the exterior of the box, applying 2 to 3 coats. cover roof with shingles or galvanized roofing.**



16. Slide the completed Rocket Bat Box over the metal pole. Ensure that the vent slots are orientated north and south. 1" from the bottom of the pole sleeve, drill a  $\frac{1}{4}$ " hole through both the sleeve and the pole. Rotate 90 degrees and drill the same hole 2" from the bottom. Secure box to pole with two  $4\frac{1}{2}$ " bolts, washers and nuts.



Two-chamber  
Rocket Bat Box

Instructions

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