

Citizens United to Protect the Maurice River and Its Tributaries

Osprey Nesting Platform Predator Guard



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OSPREY NEST PREDATOR GUARD INSTRUCTIONS

Guard Construction

Materials and equipment

- 1) String Compass
- 2) Steel Blank, 26GA Galvanized Painted, Approx. 40" square
- 3) Straightedge / Ruler
- 4) Power Shear or Metal Snips
- 5) Electric Drill & 1/8" diameter bit
- 6) Vise Grip Sheet Metal Pliers
- 7) Leather Work Gloves
- 8) Predator Guard Center Template
- 9) ***NOT SHOWN***, Work Table, Permanent Marker and Screw to attach string compass to sheet.

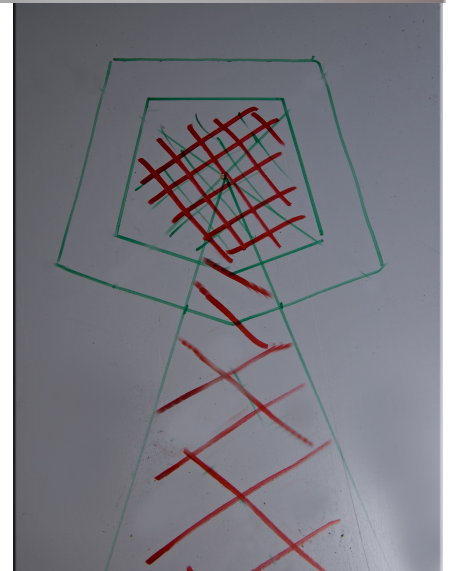
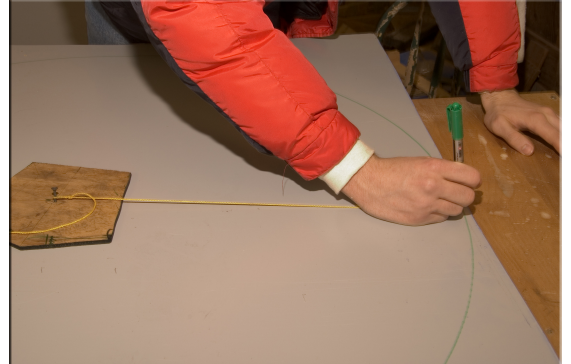


Building Instructions

- 1) Lay the steel sheet onto the work bench (we use an old piece of plywood on top of 2 saw horses); try and keep an edge overhanging slightly.
- 2) Locate the center of the material by drawing the two diagonals of the sheet, marking a small "X" where the lines intersect

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- 3) Place a screw right through the center “X” in the template, through the steel, and into the work bench surface.
- 4) With the string compass place one of the loops around the screw at the center and the other around the marker. Adjust the string to place the marker at the edge of the steel. Draw the largest diameter circle you can onto the steel face.
- 5) With the steel still fastened to the work surface and the edge overhanging, you can remove the outside excess material using the electric shear or hand snips. Be sure to wear glove(s) to protect your hand(s). The edges can be very sharp.
- 6) With the template still fastened at the center, mark the outside edge and the 2 angle points. Remove the screw while holding the template in place.
- 7) Extend the 2 angle lines from the center to the outside edge; also mark the radii corners at the outside edge.
- 8) Construct a similar polygon to that of the template, inside the tracing of the template. This shape should have approximately $1\frac{1}{4}$ ” smaller dimensions (The width of a yard stick works well for this.) From the center of the new polygon mark lines running out to the corners.



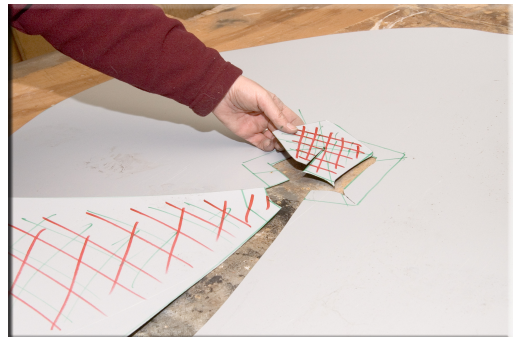
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9) Using the shear, remove the center area and wedge shape to the edge, (Red Hatched Area). Be sure to wear gloves and radius all sharp corners.

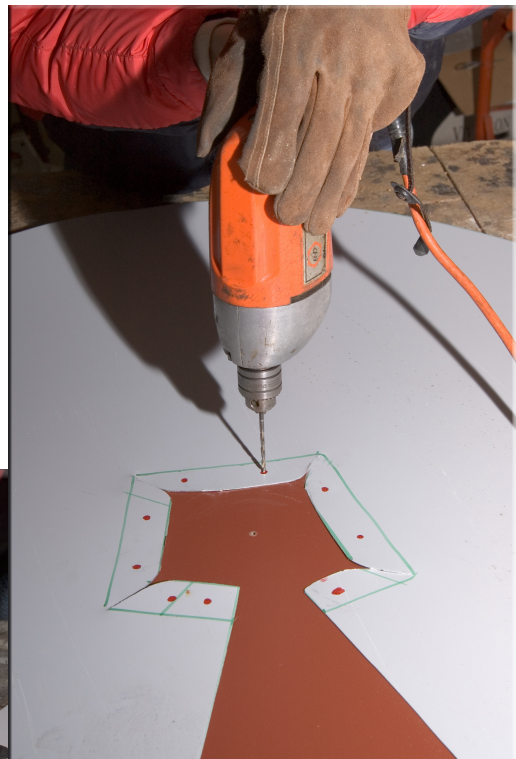
10) Using the drill and a 1/8" drill bit, drill to 2 holes in each tab. This is where

the guard will be fastened to the pole in the field. These do not need to be exact.

11) Using the vise grip sheet metal pliers, bend the 5 inside tabs upward 90 degrees.



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Field Installation

- 1) On location and after the nesting platform has been raised, work the guard around the 6 x 6 pole. Be sure that the bottom surface of the guard is above the high tide line and is level.
- 2) Starting on the side opposite the opened wedge shape, screw the tab to the 6 x 6 pole. Next screw the side tabs to the pole.
- 3) Screw the remaining two front tabs to the pole, being sure that the front seam is overlapped for final riveting.



Material Required
Cordless Drill or Screw Gun
Driver Bit appropriate for Screw head
Drill Bit of required size for Pop-Rivets
Pop-Rivet 1/8" or 5/32" dia with an appropriate grip range

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- 4) With all the tabs secured to the pole, use the vise grips (or hands) to keep the seam flaps together. Drill through both layers of guard and install pop-rivet.
- 5) Drill and install remaining pop-rivets. This should require three to five rivets per guard equally spaced on the seam.

