

JOHN SPERRY--BOTANY DEPARTMENT

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CENTRIFUGE ROTOR--early May completion date???

NOTES

General

1. Rotor body machined from one piece of 7075 T6 Aluminum
2. Estimated mass 3.5 kg
3. Body must be anodized prior to use, but after balancing

Lid

1. Handle is unspecified--but should be a non-corroding knob of some sort, and must be perfectly centered.
2. Lid should not be anodized.

Body

1. I will supply the Sorvall shaft to assist fitting the tapered seat of body.
2. Center hold-down bolt should be 9/16, reverse threaded, and of strong steel.
3. Lid bolts should not be threaded for the bottom 1/2". Reverse threads should fit 9/16 nut.
4. Lid bolts ideally should be made of a non-corroding material. Brass is too weak. Stainless may be too brittle. Perhaps aluminum??
5. Lid bolt holes should be anodized prior to gluing the bolts in place (I'm worried about corrosion here)
6. On the plans, curvature should be some convenient value for machining unless noted.

Plexiglas reservoirs

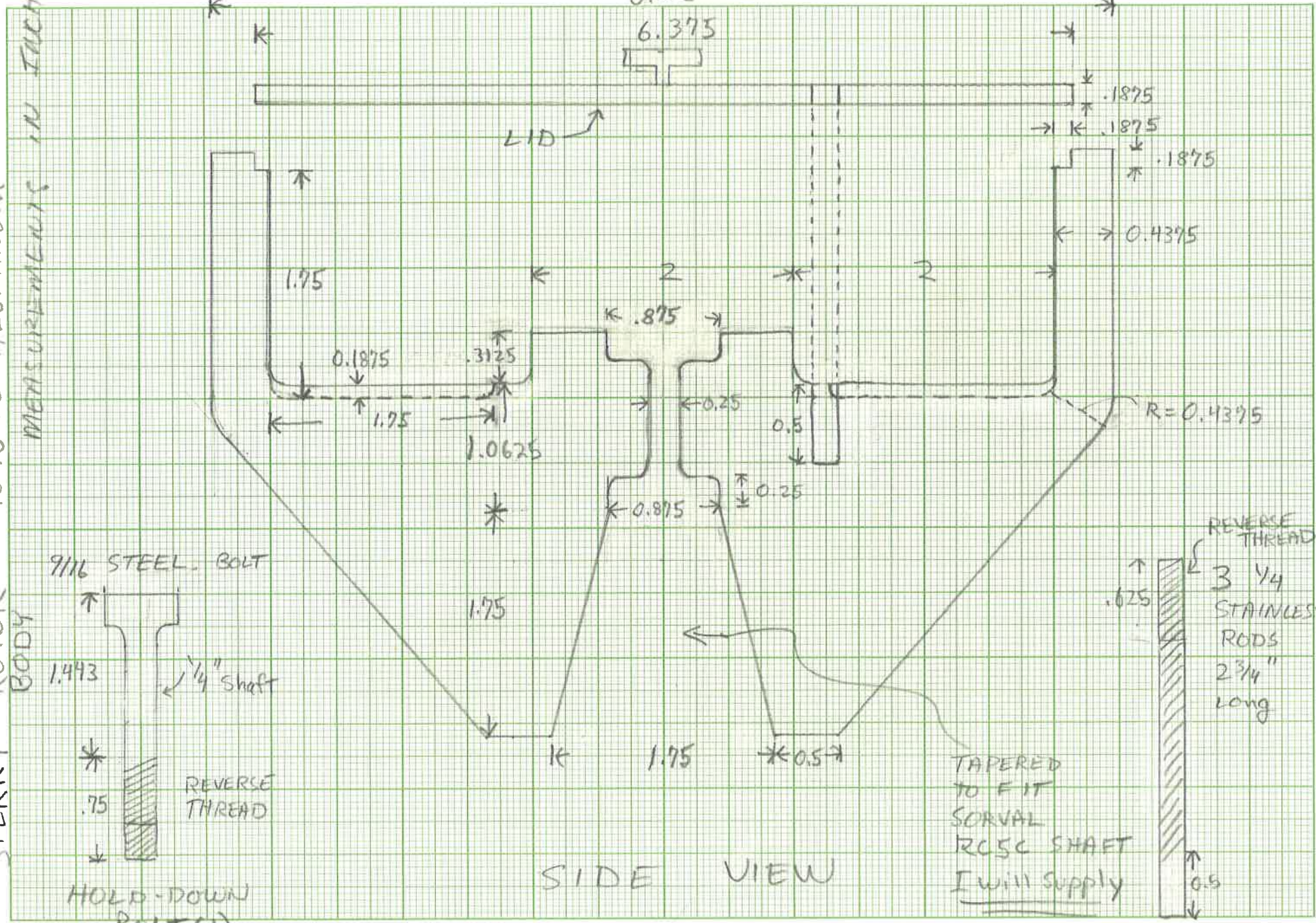
1. I need six
2. curvature should match that of body
3. Each reservoir is two pieces to assist machining. The front piece is glued on.

Retaining plates

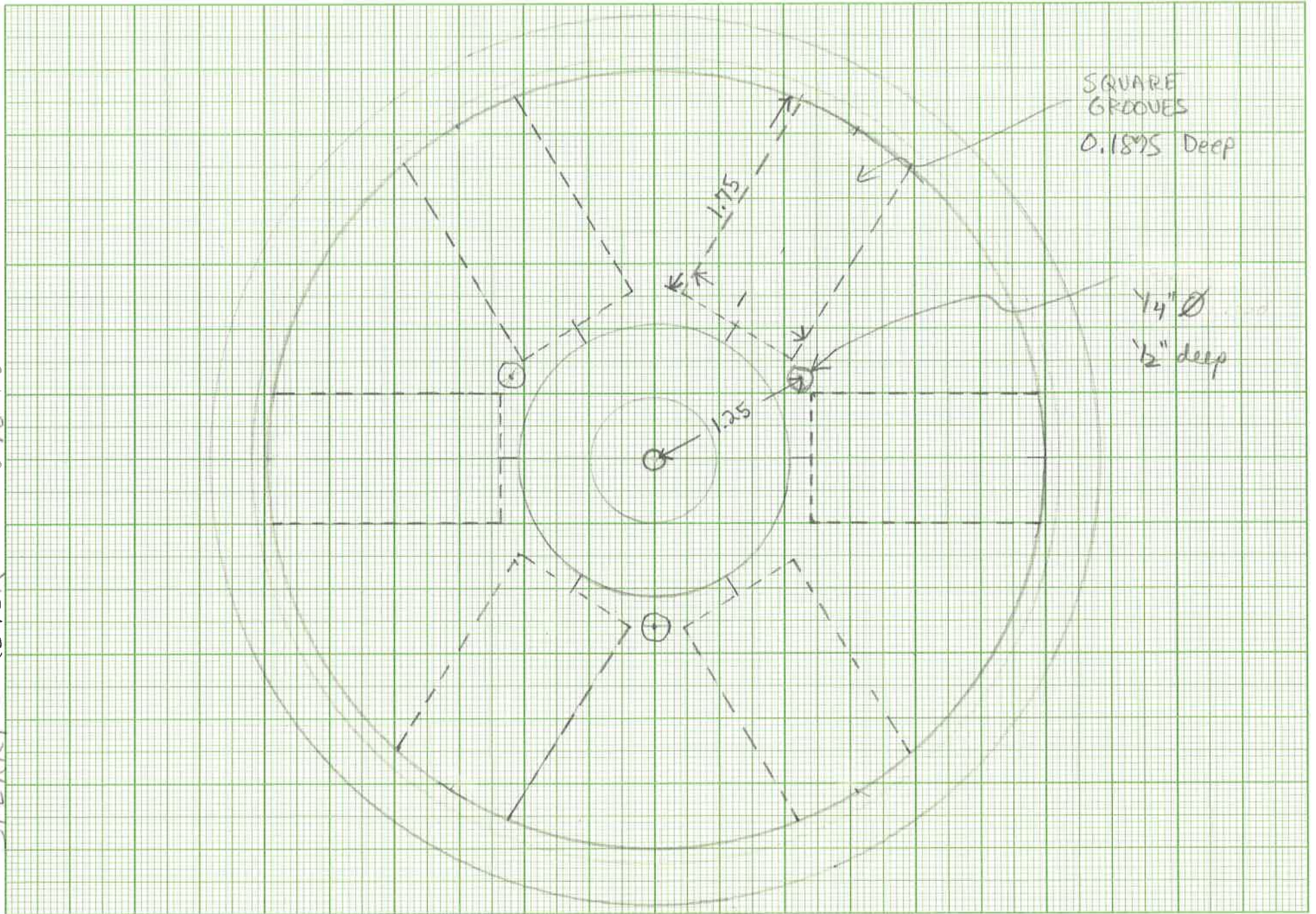
1. These should be made of a convenient thickness of sheet steel or aluminum. They should be thin enough to be springy, but not so thin that they deform excessively when bent.
2. I need three retaining plates.
3. To hold down the plates, I need 6 9/16 HALF THICKNESS nuts.

NOTE: ROTOR BODY SHOULD BE ANODIZED
TO MINIMIZE CORROSION!

SPERRY - ROTOR 7075 T6 ALUMINUM
 MEASUREMENTS IN INCHES



SPERRY - ROTOR 7076 T8 AL



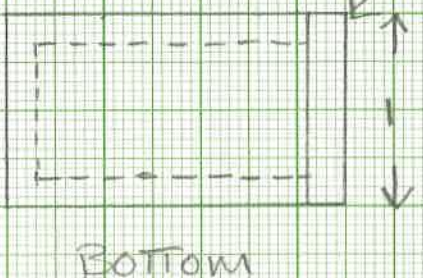
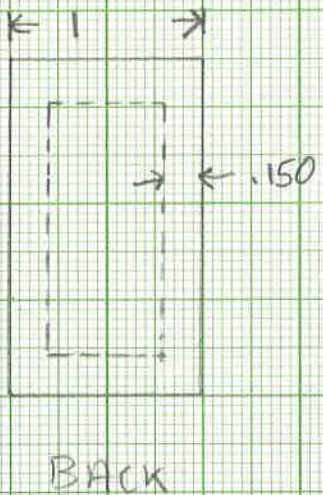
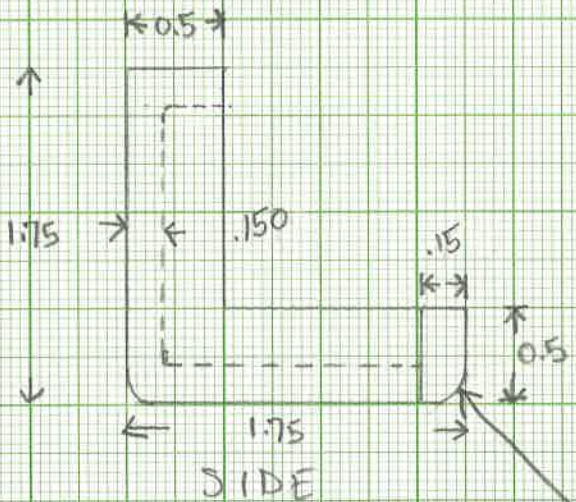
SQUARE
GROOVES
0.1875 Deep

1/4" \varnothing
1/2" deep

TOP VIEW

SPERRY - PLEXI RESERVOIRS
RETAINING PLATES 6
3

PLEXI RESERVOIRS



Separate piece glued on.

STEEL / ALUMINUM PLATES

