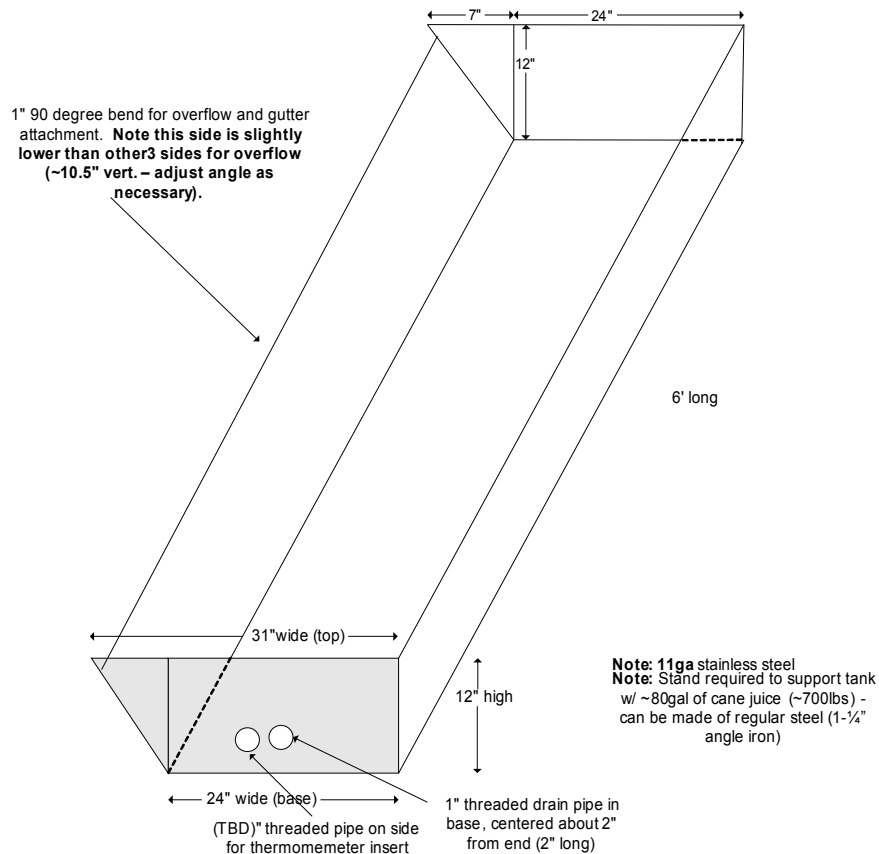


Sugarcane Syrup Boiler (~87 gal)



Tracy Baudoin
985 209-3420

I used 11ga SS(408) for my pan. This seems to be a good thickness so that warping is minimized during heating/cooling. I'm using 18 propane burners (18" long ea.) to cover the bottom of the pan with flame. Three of the stand's sides are covered with tin (except for the bottom 6 inches to let fresh air get to the burners). The fumes are allowed to escape up the angled front, giving more surface area for heating. The gutter that is placed on this lip also acts as a trap for holding heat.

Sugarcane Syrup Settling Tank(s)(~23 gal. ea.)

CYLINDER

$$\text{Vol(cyl)} = (\pi) \times r^2 \times h / 232$$

$$= 3.14 \times 6^2 \times 48 / 232$$

$$= 5428 \text{ in}^3 / 232 \text{ in}^3/\text{gal}$$

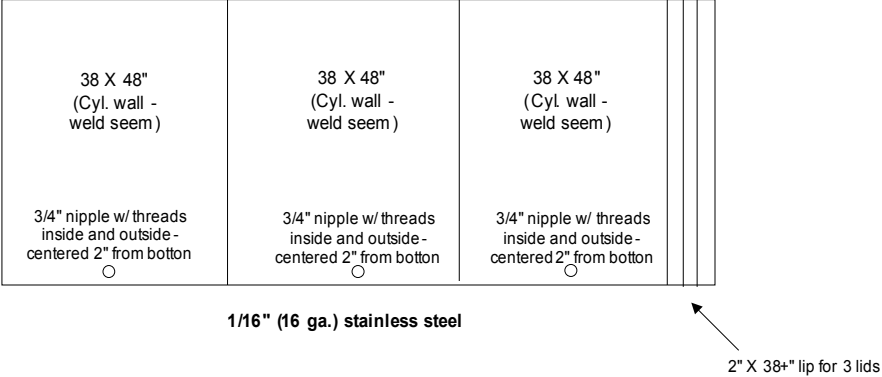
$$= 23.4 \text{ gal}$$

$$\text{Circ(cyl)} = 2 \times (\pi) \times r$$

$$= 2 \times 3.14 \times 6$$

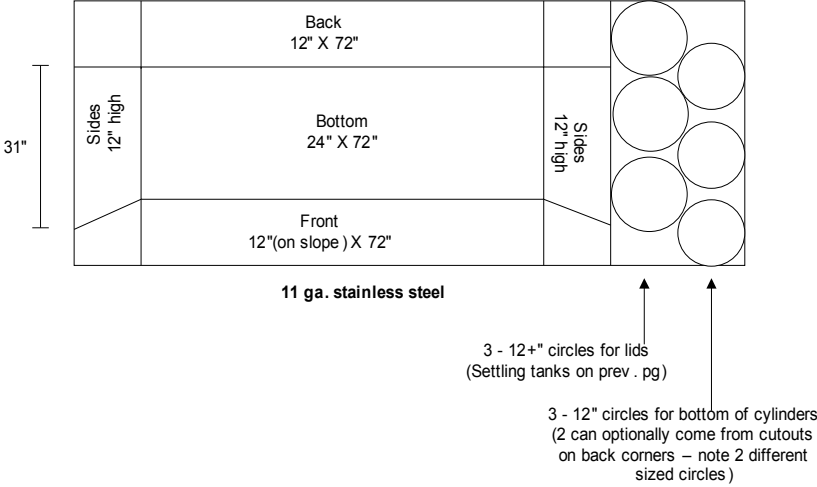
$$= 37.7 \text{ in (linear)}$$

Therefore a 4 X 10' sheet should yield
 3 Settling tanks + 3 lid rims



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Boiler cutout



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985 209-3420