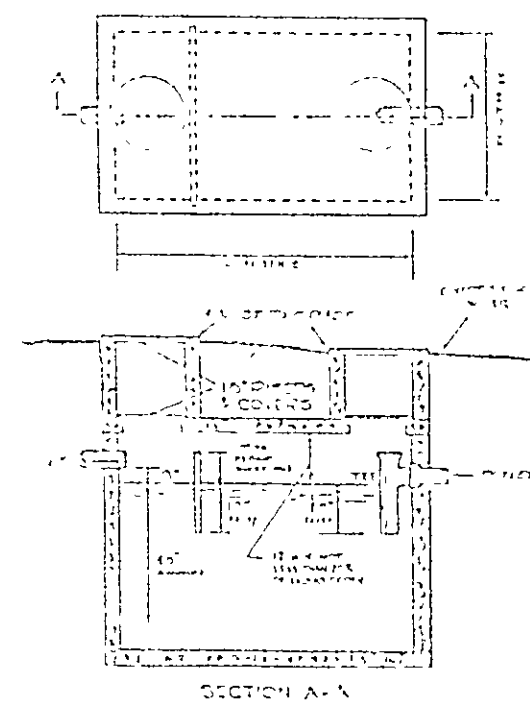
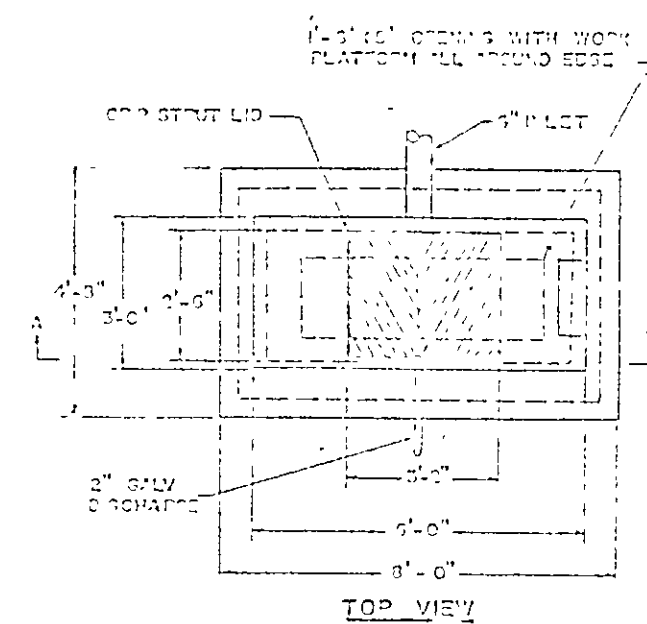
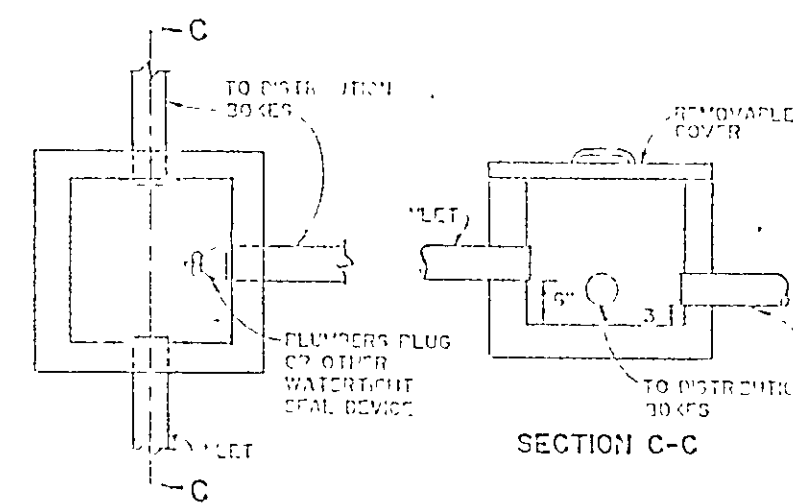
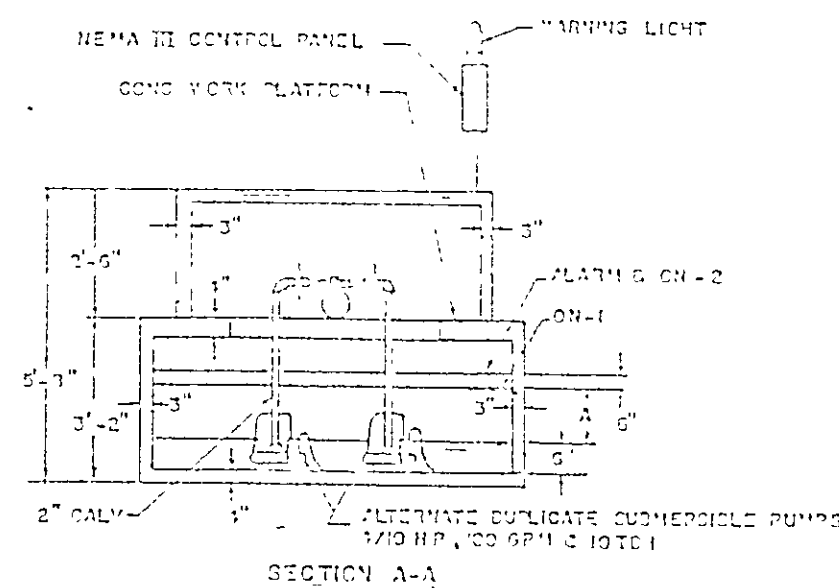
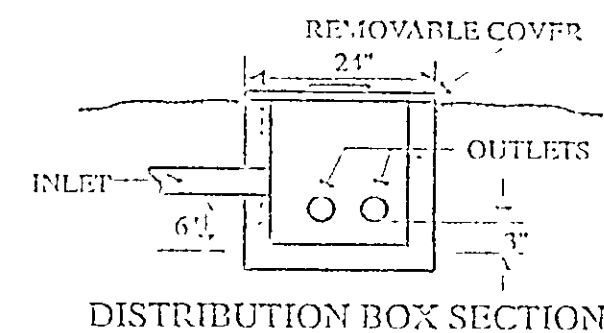




- a) $\frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{1}{2} m v \frac{dv}{dt}$ (using $\frac{d}{dt} v^2 = 2v \frac{dv}{dt}$)
 also $\frac{1}{2} \frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = \frac{1}{2} m v \frac{dv}{dt}$
- [1] The y of $\frac{1}{2} m v^2$ is $\frac{1}{2} m v^2$ (using $\frac{d}{dt} v^2 = 2v \frac{dv}{dt}$)
 it is $\frac{1}{2} m v^2$ (using $\frac{d}{dt} v^2 = 2v \frac{dv}{dt}$)
 the $\frac{1}{2} m v^2$ is $\frac{1}{2} m v^2$
- [2] $\frac{1}{2} m v^2 = \frac{1}{2} m v^2$
- [3] $\frac{1}{2} m v^2 = \frac{1}{2} m v^2$
- [4] $\frac{1}{2} m v^2 = \frac{1}{2} m v^2$
- [5] $\frac{1}{2} m v^2 = \frac{1}{2} m v^2$



SPLITTER BOX DETAIL



500 GALLON DOSING TANK

