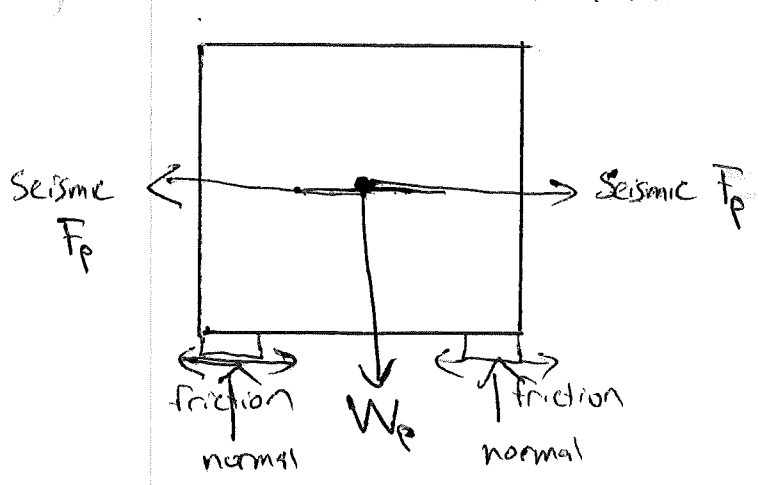
Rigid "box", [redacted]
10'x10'x10'



Seismic Force

$$F_p = \frac{0.4 a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)} \left[1 + 2\frac{z}{h}\right]$$

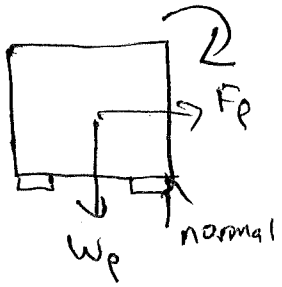
$$= 1.2 W_p$$

"Slip" when seismic > friction. $F_p > \mu W_p$. Assume $\mu = 0.5$

$1.2 W_p > 0.5 W_p$

So, $0.7 W_p$ another force required

"Tip" when seismic moment > weight moment



Take moments about pedestal edge

[redacted]

Tip when

$(5')(F_p) > (5')W_p$

$F_p > W_p$

$1.2 W_p > W_p$

$0.2 W_p (5')$ resisting moment required