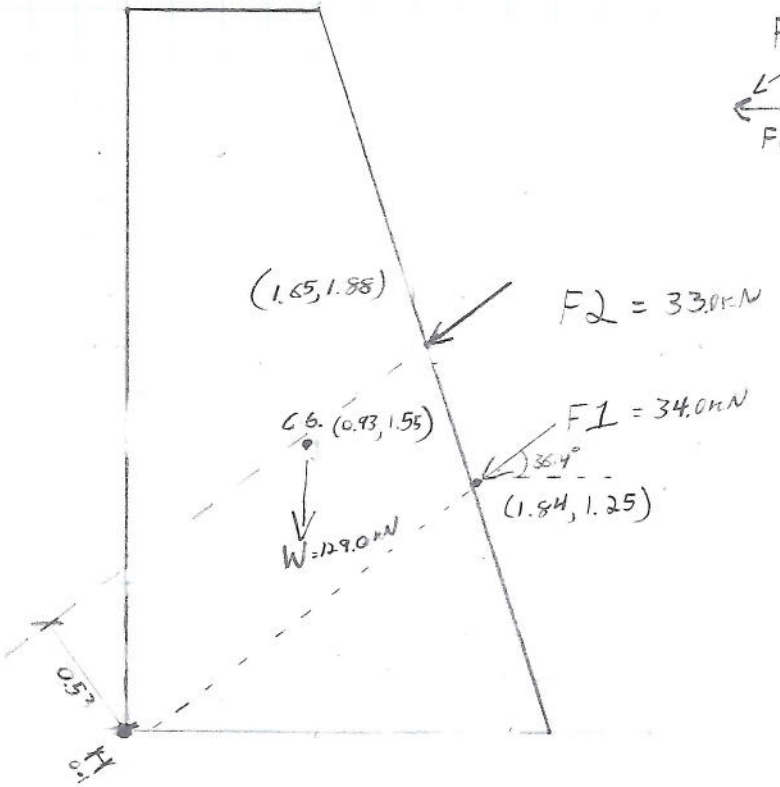

Method (2)

Resisting Moments

$M_W = 129.0 \times 0.93 = 120$ kN·M
$M_{F1} = 34.0 \times 0.1 = 3.4$ kN·M
} = 123.4 kN·M

Overturning moments

$M_{F2} = 33.0 \times 0.53 = 17.5$ kN·M

$$FS = \frac{123.4}{17.5} = 7.1$$

Method (1)

Resisting moments

$129.0 \times 0.93 + 20.2 \times 1.84 + 19.6 \times 1.65 = 189.5$ kN·M

Overturning moments

$27.4 \times 1.25 + 26.6 \times 1.88 = 84.3$ kN·M

$$FS = \frac{189.5}{84.3} = 2.2$$

Check $123.4 - 17.5 = 105.9$
$189.5 - 84.3 = 105.2$
rounding etc..