

Client: -	Mr P. Boylan	Job No.: -	18K01
Project: -	3 Lyncroft Gardens London NW6 1LB	Sheet No.	B/04.A
		Date	Oct. 18
Location: -	Basement.	By: -	RD

Stem Design

$$M_{\text{soil}} = 18 \times .33 \times \frac{1.9^3}{6} = 6.8$$

$$M_{\text{water}} = 10 \times .0.3^2 / 2 = \frac{.5}{7.3 \text{ kN/m}}$$

$$\text{Mult } 7.3 \times 1.4 = 10.2 \text{ kNm.}$$

Try 225 thk.

$$M / f_{cu} b d^2 = .01$$

$$A_s = 10.2 \times 10^6 / .87 \times 500 \times 150 \times .95 = 165 \text{ mm}^2$$

Provide H10 at 200 c/c (393

Both faces and horiz.

Re Design for 200 mm thk wall, (Rev A).

$$M / f_{cu} b d^2 = .02$$

$$A_s = 165 \times 150 / 125 = 200 \text{ mm}^2$$

∴ Same reinforcement applies.