

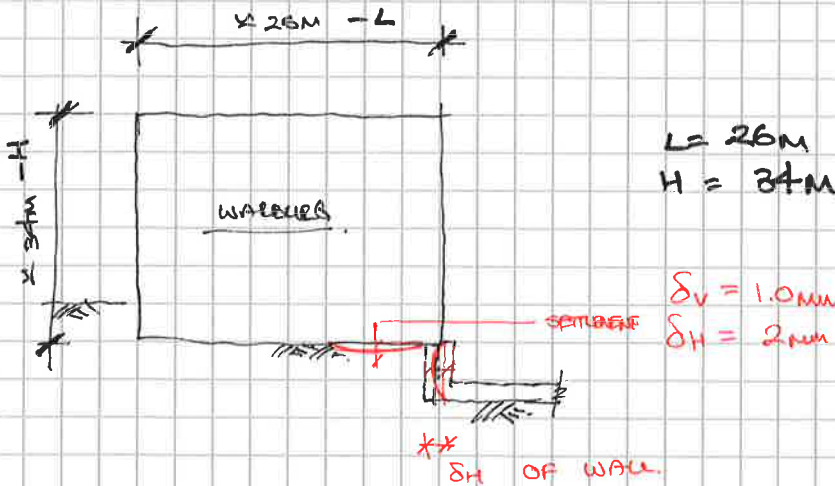
NOTES:- CONTOURS ARE IN MILLIMETRES.

**WEBB  
YATES** ENGINEERS

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Drawing No	J2889-S-SK-0024		
Project	TORRINGTON SQUARE	Status	S9
Drawing Title	GROUND MOVEMENTS.		
Date	Drawn by	Scale	Revision
18.07.2017	BM.	NTS.	00

## WARBURG INSTITUTE - FACADE CHECK



ELEVATION  
NTS.

$$\Delta \text{ SETTLEMENT} = 1.0 \text{ mm.}$$

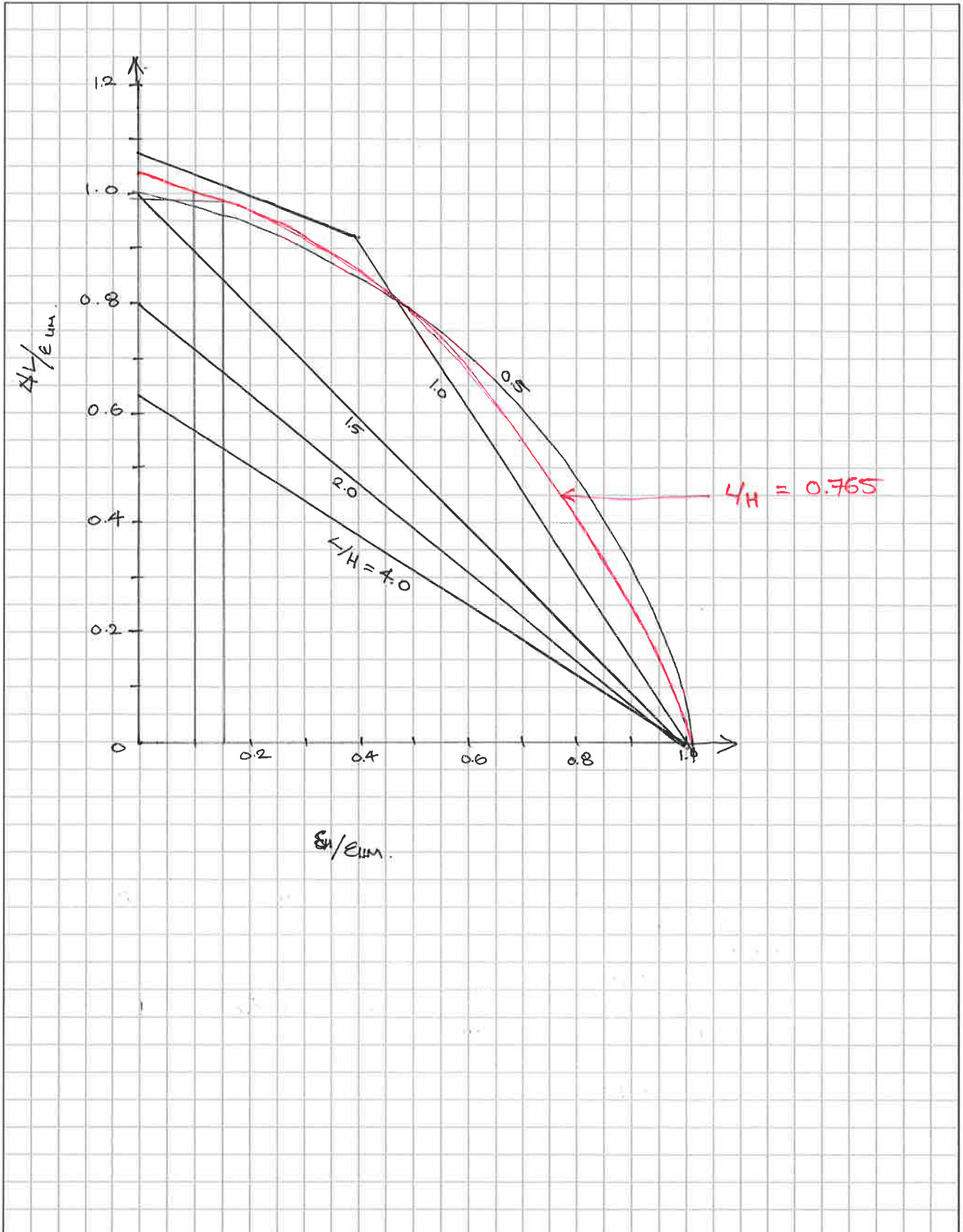
$$\delta_H \text{ WALL DEFLECTION} = 2.0 \text{ mm.}$$

$$\begin{aligned} \Delta/L &= 1.0/26000 = 3.85 \times 10^{-5} \\ &= 0.00385\% \end{aligned}$$

$$\begin{aligned} \epsilon_H &= \delta_H/L = 2.0/26000 = 7.7 \times 10^{-5} \\ &= 0.0077\% \end{aligned}$$

$$L/H = 26/34 = 0.765$$

Project	TORRINGTON SQ		
Part of structure	FACADE CHECK		
Date	JUL 17	Job number	52889
Engineer	BM	Checked by	Checked date
			Sheet number
			2



Project

TORRINGTON SQ

Part of structure

BULWAND SCALE CHECK

Date

JUL 17

Job number

JR889

Engineer

BM

Checked by

Checked date

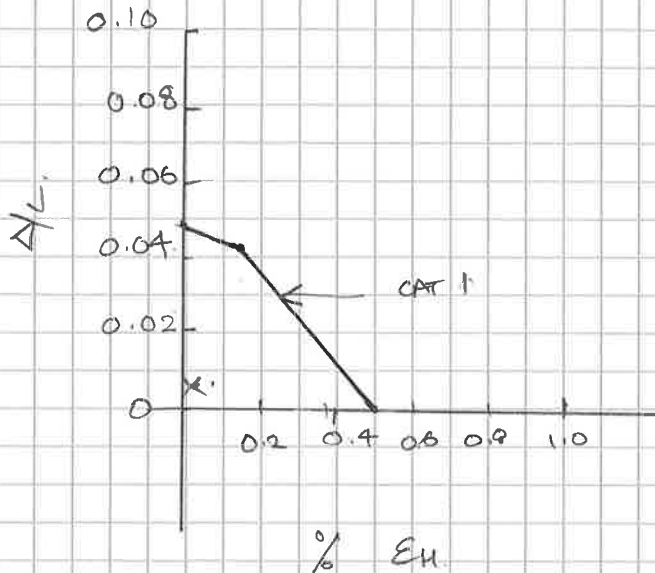
Sheet number

3

$$\text{CAT. 1} \Rightarrow \epsilon_H / \epsilon_{LM} = 0.0077 / 0.05 = 0.154$$

$$\text{FROM GRAPH} \quad \Delta/L / \epsilon_{LM} = 0.99$$

$$\Rightarrow \Delta/L = (0.99)(0.05) = 0.0495$$



$$\text{STRAIN } \epsilon_H = 0.0077\%$$

$$\Delta/L = 0.00385\%$$

CATEGORY 0 : NEGIGIBLE (< 0.1mm)