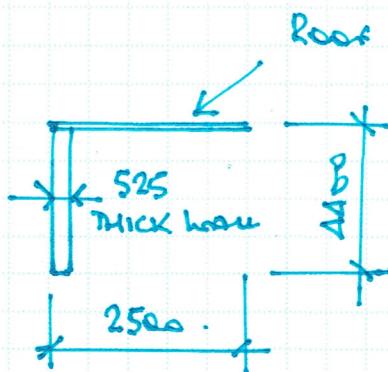


Wlodek Borzyslawski

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|---|-------------------------|
| Project: ST. GEORGES CATHEDRAL | Project No: 9028 |
| Description: EXISTING/NEW FOUNDATION CALCS | Sheet No: 01 |
| Engineer: LBB Date: | Checked by: Date: |
| Rev: | Date: |

Calculation Sketch File Note Minutes Report

EXISTING

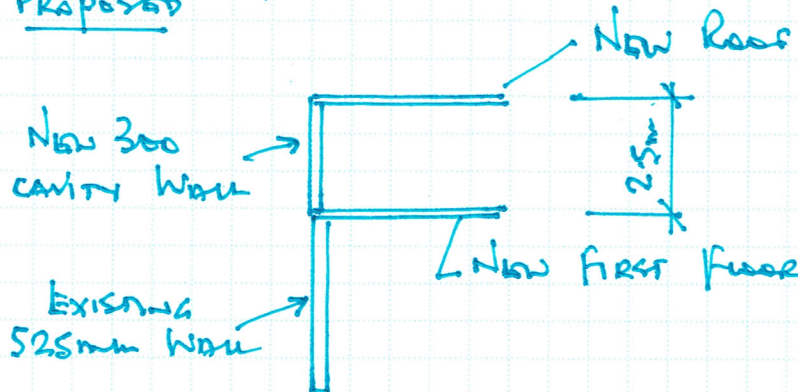


$$\begin{array}{l} \text{DL } 1.5 \\ \text{LL } 0.75 \text{ (No Access)} \\ \hline 2.25 \text{ kN/m}^2 \end{array}$$

LOAD ON FOUNDATIONS

$$\begin{array}{l} \text{BRICK } 20 \times 4.4 \times 0.525 = 46.2 \text{ kN/m} \\ \text{ROOF } 2.25 \times 2.5 \times \frac{1}{2} = 2.8 \\ \hline 49 \text{ kN/m RUN.} \end{array}$$

PROPOSED



$$\begin{array}{l} \text{DL } 1.1 \\ \text{LL } 0.75 \\ \hline 1.85 \text{ kN/m}^2 \end{array}$$

$$\begin{array}{l} \text{DL } 1.0 \\ \text{LL } 1.5 \\ \hline 2.5 \text{ kN/m}^2 \end{array}$$

LOAD ON FOUNDATIONS

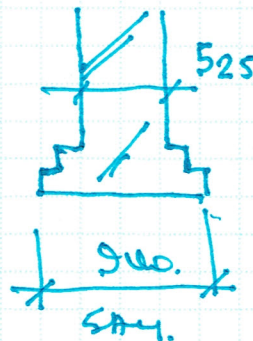
$$\begin{array}{l} \text{BRICK (EXISTING)} = 46.2 \text{ kN/m}^2 \\ \text{BRICK (NEW)} 20 \times 0.225 \times 2.5 = 11.25 \text{ kN/m} \\ \text{New Roof } 1.85 \times 2.5 \times \frac{1}{2} = 2.32 \\ \text{New Floor } 2.5 \times 2.5 \times \frac{1}{2} = 3.13 \\ \hline 62.9 \text{ kN/m RUN.} \end{array}$$

Wlodek Borzyslawski

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|---------------------------------------|-------------------------|
| Project: St. GEORGES CATHEDRAL | Project No: 9028 |
| Description: | Sheet No: 02 |
| Engineer: WAB Date: | Checked by: Date: |
| Rev: | Date: |

Calculation Sketch File Note Minutes Report

EXISTING FOUNDATIONS



ASSUMED SECTION

$$\text{EXISTING GP} = \frac{49}{0.9} = 54.44 \text{ kN/m}^2$$

$$\text{NEW GP} = \frac{62.9}{0.9} = 69.88 \text{ kN/m}^2 < 100 \text{ kN/m}^2$$

INCREASE IN LOADING AND GROUND PRESSURE
CONSIDERED TO BE ACCEPTABLE.