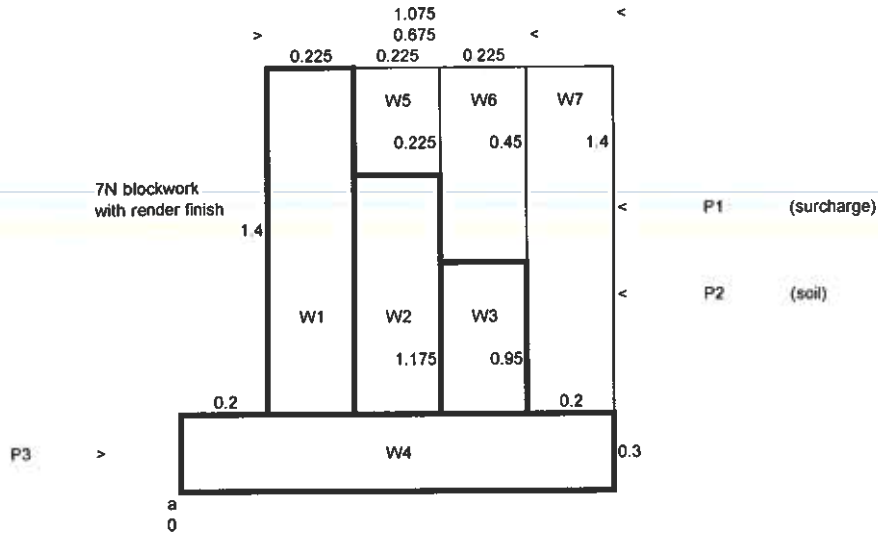


Replacement garage, north east of Henry Richards Street.
Mass blockwork retaining wall to side of garage.

18.170

13 JUL 2020

RECEIVED



Soil density 18 KN/m³
Internal friction 40 Degrees
Surcharge 10 KN/m²
Ka 0.22
Kp 4.60

Coefficient of friction - Tan 35 X .75

0.53

	Width	Ht	Density	Wt(KN)	La	Mt(KNm)
W1	0.225	1.4	20	6.3	0.3125	1.97
W2	0.225	1.175	20	5.29	0.5375	2.84
W3	0.225	0.95	20	4.275	0.7625	3.26
W4	1.075	0.3	24	7.74	0.5375	4.16
W5	0.225	0.225	18	0.91	0.5375	0.49
W6	0.225	0.45	18	1.8225	0.7625	1.39
W7	0.2	1.4	18	<u>5.04</u>	0.975	<u>4.91</u>
				31.37625		19.02
P1	0.22	10	1.7		KN	3.74
P2	<u>0.22</u> 2	18	1.7	1.7	<u>5.7222</u> 9.46 KN	0.57 <u>3.24</u> 6.42 KNm

Friction resistance 31.37625 0.53 16.63

P3 4.60
2 18 0.3 0.3 3.73
20.36

F O S overturning 19.02
6.42 2.96 OK

F O S sliding 20.36
9.46 2.15 OK

Bearing pressure

E 19.02 less 6.42 div 31.37625 0.402 m

Ec/I 0.538 less 0.402 0.136 m

BP 31.37625
1.075 29.19

Plus or minus 6 31.37625 0.136 22.13
1.075 1.075

BP 51.32 or 7.06 KN/m² OK

John Payne
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