SIDEBOTTOM RICHARDSON CHENG LTD
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Job Details Proposed Plots 1 & 2 at 137 Broadgate, Whaplode Drove, Spalding

Title Soakaway Size Calculations

Calculated Infiltration Rate (m/s)

1.74334E-05

Design Rainfall - R	
M5-60	Z1
0.02	1
M10-D	Z2
0.02	1.24

R = 0.0248 m

Soakaway Dimensions

Hoofmark Tank		Number	Total Lengths	Half Effective
Width	0.81	5	4.05	
Length	0.84	4	3.36	
Depth	0.4	1	0.4	0.2

Internal Surface Area Not Including Base (50% depth)

16.572 m^2

Storage Volume

5.4432 m^3

Inflow To Soakaway

Area (m^2)	x R
126	0.0248

Inflow = 4.3248 m^3

Outflow From Soakaway

Internal SA (50%)	Infiltration Rate	Storage Duration (s)		
8.286	1.74334E-05	60	60	3600

Outflow = 0.520031349 m^3

Storage Required

Inflow -	Outflow	
4.3248	0.520031	3.804768651

Soakaway Has Been Designed For A
10 Year Storm Of 60 Minute Duration

Storage Volume With 30% Free (Required)

4.946199247

NB. Actual Storage Volume Needs To Be
Greater Than Storage Volume + 30%

Actual Storage Volume

5.4432