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Project No. 33215

Sheet No. SA/1

Rev.

Date SEP7'15

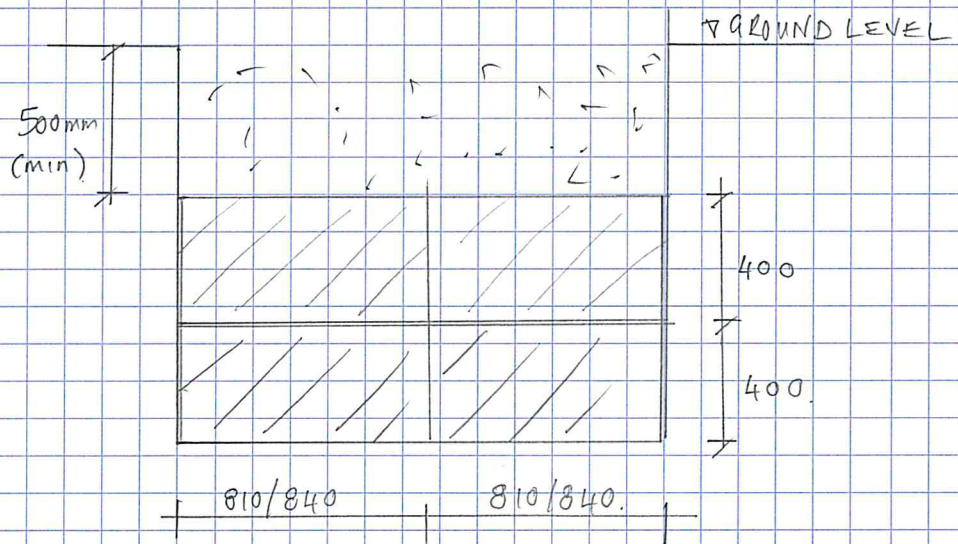
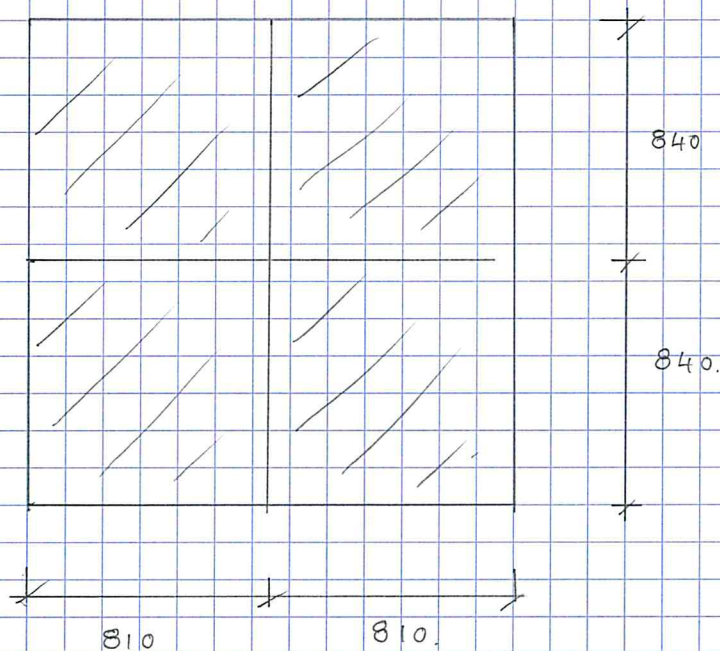
Designer

MAS

PROJECT: 87 SEAGATE ROAD, LONG SUTTON.

PLAN ON D-RAIN TANK BY FUNKE GRUPPE

PLAN



SECTION

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Sheet No.

33215/SA01

Rev

-

Status

FOR INFORMATION

Date

Sept. '15

Drawn

MP

Checked

SRC

Scale

1:20

Design

-

File Name

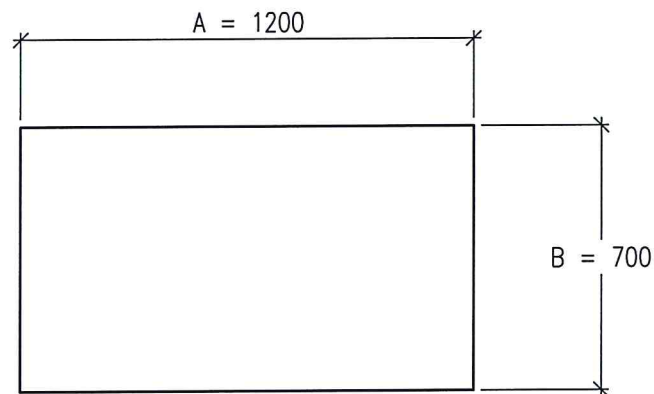
33215-SA01

Project

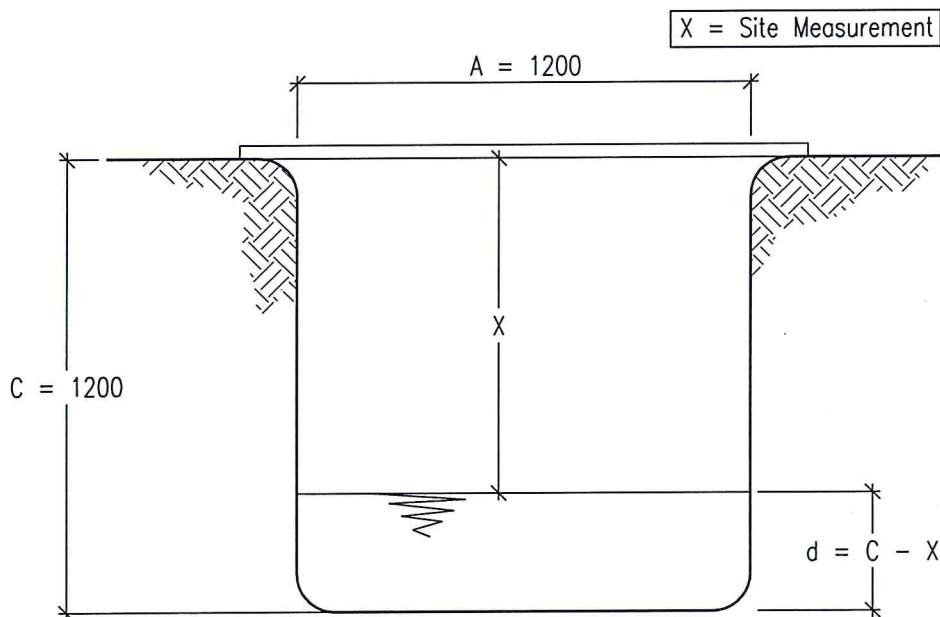
Proposed Extension to
87 Seagate Road, Long Sutton,
Spalding, Lincs.

Title

Infiltration Soak Away Sketch

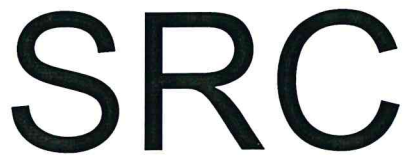


Plan On SA01



Section Through SA01

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CONSULTING STRUCTURAL & CIVIL ENGINEERS

Soak-Away Test SA 01

Job Reference Proposed Extension to
87 Seagate Road, Long Sutton,
Spalding, Lincs.

SA01	
TIME (Mins)	DEPTH mm (d)
0	380
30	350
60	330
90	310
120	295
150	285
180	260
240	255
300	255
360	250

Job No. 33215

Date 23/09/2015

Trial Dimensions

A = 1.2 m
B = 0.7 m
C = 1.2 m

C.S.Area of
SA01 = 0.84 m²

Total Volume = 0.109 m³
75% Volume = 0.082 m³
25%Volume = 0.027 m³

Time Taken From 75% Volume to 25% Volume

178 Mins

Effective Depth From 75% Volume to 25% Volume

0.065 m

50% Effective Internal Surface Area Including Base area

1.087 m²

Soil Infiltration rate, f

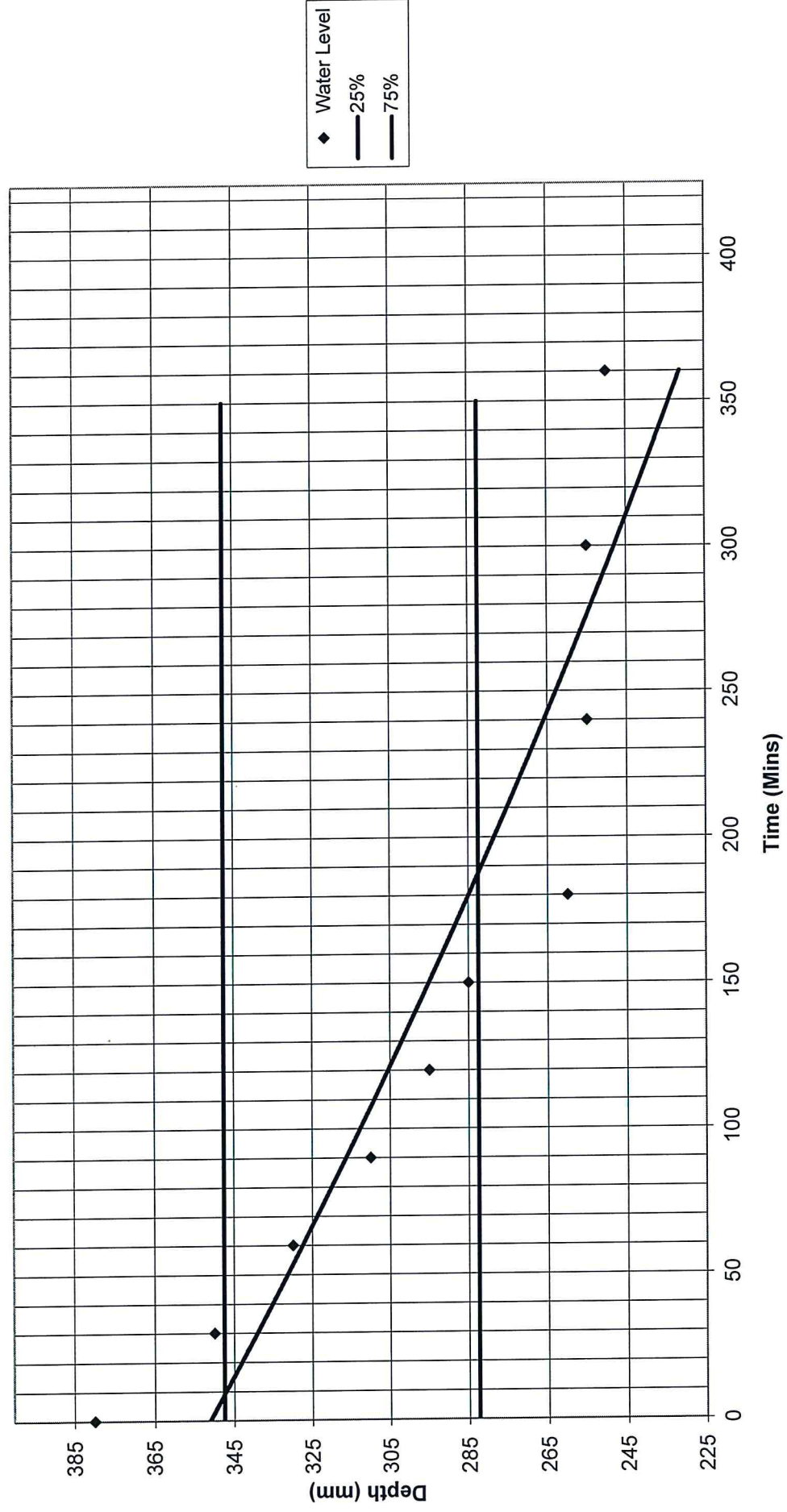
4.70318E-06 m/s

4.70 x 10⁻³ mm/s

Proposed Extension To 87 Seagate Road, Long Sutton, Spalding, Lincs.

Job No. 33215 23/09/2015

Plot showing water level against time for SA01



Job Details 33215 - 87 seagate Road, Long Sutton

Title Soakaway Size Calculations

Calculated Infiltration Rate (m/s)

4.70318E-06

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

R = 0.0248 m

Inflow To Soakaway

Area (m ²)	x	R
24.3		0.0248

Inflow = 1.80264 m³

Outflow From Soakaway

Internal SA (50%)	Infiltration Rate	Storm Duration (s)		
2.6808	4.70318E-06	60	60	3600

Outflow = 0.045389826 m³

Storage Required

Inflow -	Outflow	
1.80264	0.04539	1.757250174

Storage Volume With 30% Free (Required)

2.284425226

Actual Storage Volume

2.17728

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

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

Soakaway Dimensions

Hoofmark Tank	Number	Total Lengths	Half Effective
Width	0.81	2	1.62
Length	0.84	2	1.68
Depth	0.4	2	0.8
			0.4

Internal Surface Area Not Including Base (50% depth)

5.3616 m²

Storage Volume

2.17728 m³