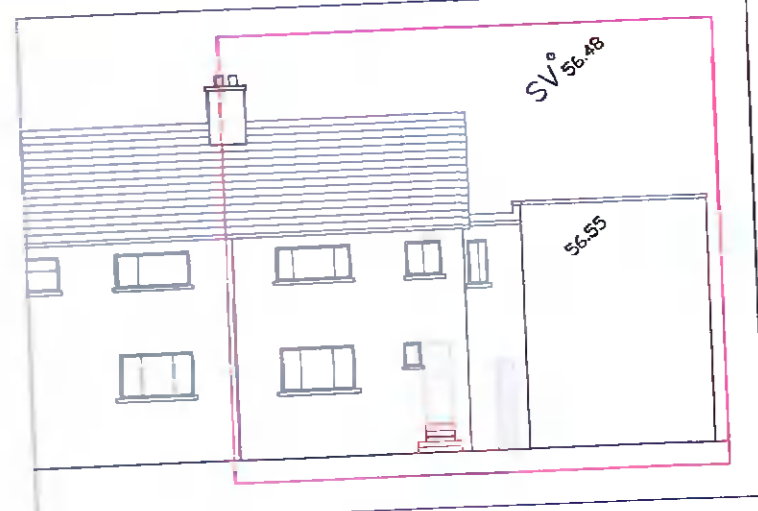




NO 51 GRANGE PARK
EXISTING SOUTH WEST ELEVATION 1:200



NO 51 GRANGE PARK
EXISTING NORTH ELEVATION 1:200

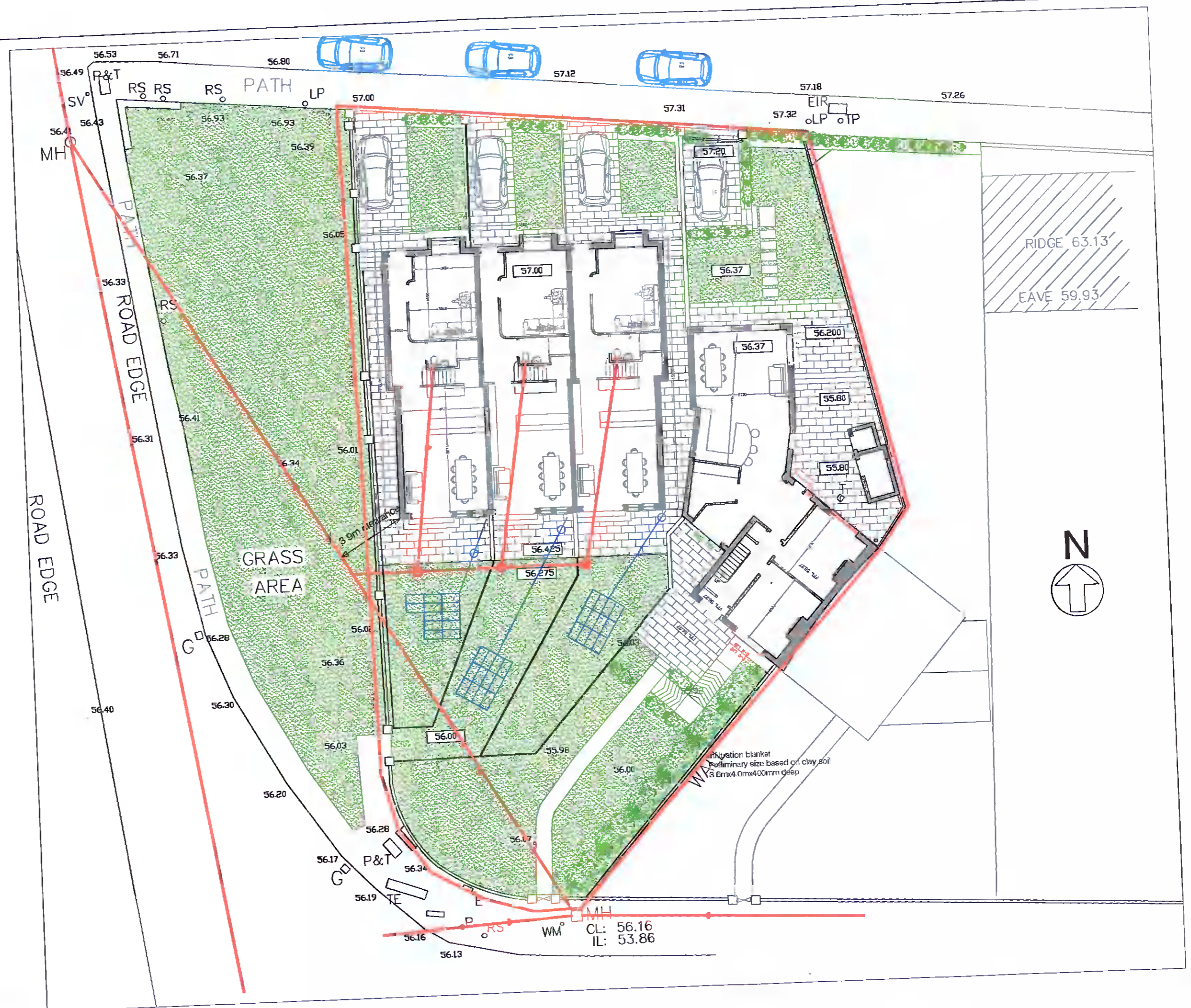
AS EXISTING
n and alteration see Drg. P02)

FOUL WATER DISPOSAL

Foul water from the development will be connected to the existing system in accordance with Irish Water requirement. Structure is kept > 3.0m away from existing 225 sewer. A way leave agreement will be entered into as part of the connection agreement and removable fencing with posts either side of the drain will be agreed locally

SURFACE WATER DISPOSAL

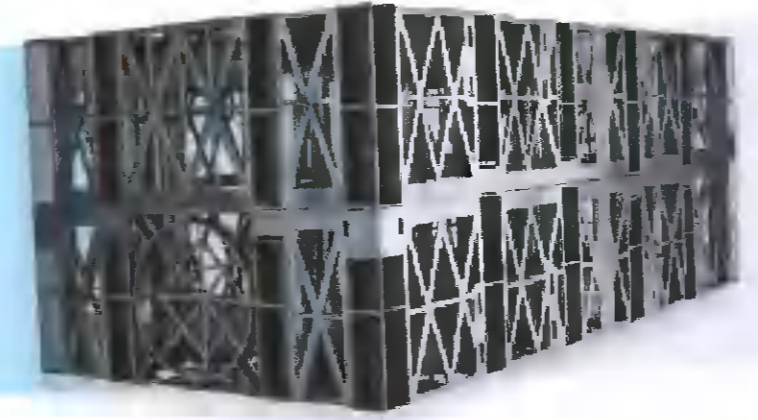
The surface water from the new and revised roofs is to be taken to a new infiltration blanket designed to the CIRIA guide. An infiltration test will be carried out to confirm the site value - the value for a poorly draining clay soil has been assumed for the initial sizing



DRAINAGE (1:200)

AquaCell Eco

Product description
AquaCell Eco is manufactured from specially reformulated, recycled material and has been specifically designed for shallow, non-traffic'd, landscaped applications. AquaCell Eco is NOT suitable for locations subject to high water tables.

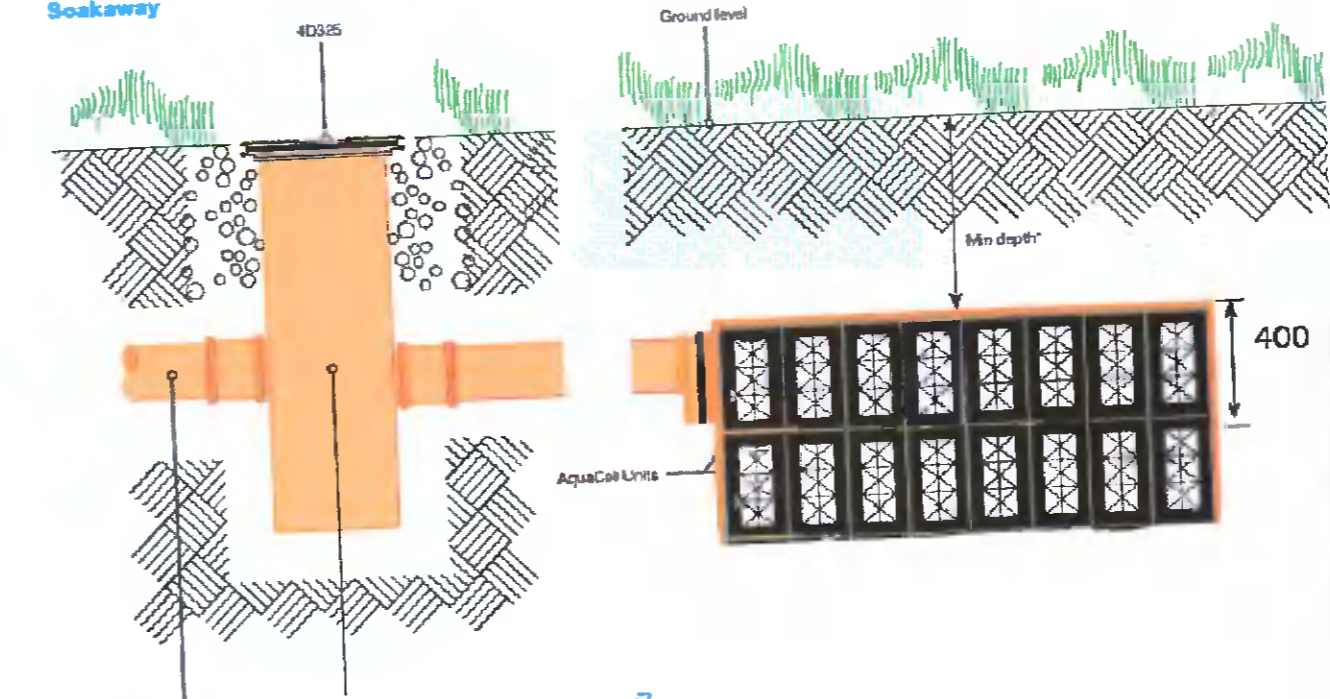


Technical specification

Product code / SAP code	6LFR025 / 4040289	Void ratio	95%
Colour	Black	Material	Recycled PP
Dimensions	1m x 0.5m x 0.4m	Vertical loading	21.8 tonnes/m ² (213 kN/m ²)
Weight	7kg	Lateral loading	5.2 tonnes/m ² (52 kN/m ²)
Storage volume	190 litres	BBA approval	Certificate G3/4018

DETAILS OF AQUACELL TO BE USED FOR INFILTRATION BLANKET

Soakaway - non-traffic loading



SECTION THROUGH SILT TRAP AND INFILTRATION BLANKET

HOUSES AT ST. PATRICKS COTTAGES			
AQUACELL INFILTRATION BLANKET			
q (m ³ /hour)	0.007	Area drained	0.96 sq. m.
n (percentage voids)	0.95		
Length	2		
Width	3		
Area base	6		
R=	13.83333333		
Intensity (m/h) Duration (m) Hmax (m)			
0.0750	0.167	0.18	30 year
0.064	0.25	0.23	30 year
0.0422	0.5	0.30	30 year
0.027	1	0.39	30 year
0.0080	6	0.65	30 year
0.0049	12	0.77	30 year
0.0029	24	0.84	30 year
0.0018	48	0.88	30 year
0.0080	6	0.65	30 year
0.0102	6	0.85	100 year
Climate change factor 1.1			
Intensity (m/h) Duration (m) Hmax (m)			
0.0825	0.167	0.20	
0.0704	0.25	0.26	
0.04642	0.5	0.33	
0.0297	1	0.43	
0.0088	6	0.72	
0.0054	12	0.85	
0.0032	24	0.94	
0.0019	48	1.01	
0.0088	6	0.72	30 year
0.0112	6	0.94	100 year

REVA 05 MAY 2022 FOR PLANNING

Project: THREE NEW HOUSES AND EXTENSION TO 51 GRANGE PARK AT GRANGE PARK, WHITECHURCH ROAD & ST PATRICKS COTTAGES RATHFARNHAM
 Date: 21016 MAY 2022
 Client: JOHN LYONS
 Designer: IM AS SHOWN
 Drawing No: P03
 File: A

