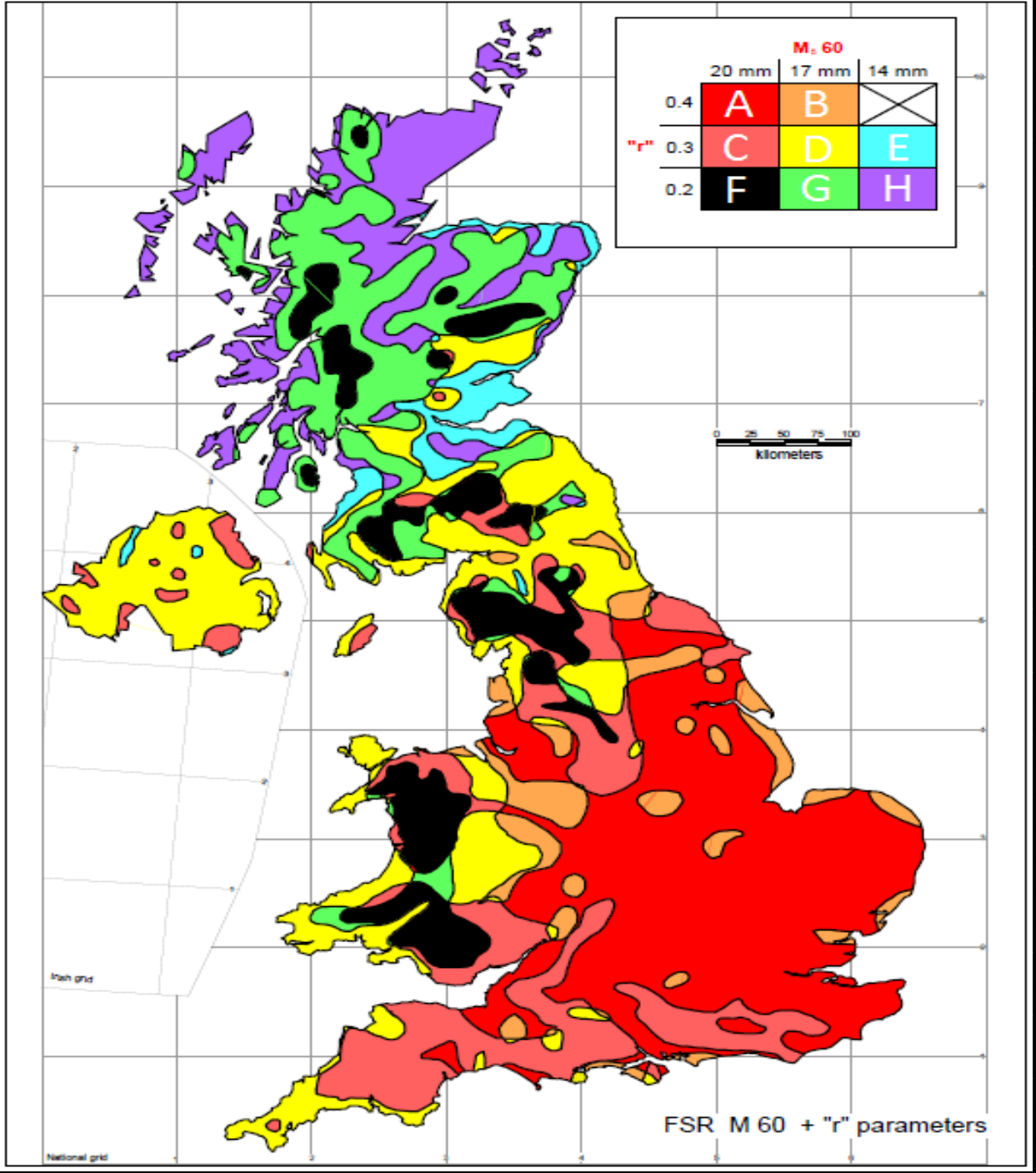


	Project:	Residential Development, Baran Road, Rhydafro	By: DH
	Calculation:	Trench 6 Design	
			Approved:
	Sheet Number:	1	Date: 26/10/19

Catchment Details		
Catchment Area	115	m ²
Runoff Coefficient	1	
Location Code	F	
Return Period	100	years
Climate Change Factor	30	%

UK Rainfall Map



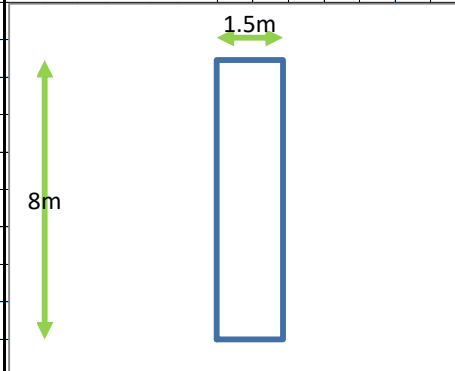
Ground Information

Infiltration Rate	0.0626	m/hr
Factor of Safety	2	

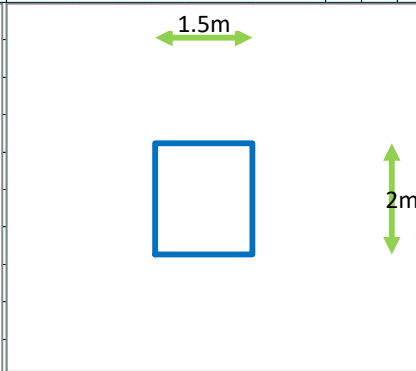
Soakaway Design

Soakaway Shape	Rectangular Trench/Pit	
Number of Soakaways	1	
Length	8	m
Width	1.5	m
Effective Depth	2	m
Void Percentage	30	%
Additional Outflow (If Any)	0	l/s
Base Infiltration Factor	1	

Soakaway Plan



Soakaway Cross Section



Results Table

Storm Duration (Mins)	Inflow (l)	Outflow (l)	Storage Required (m³)
5	1,388	81	1.31
10	2,233	162	2.07
15	2,893	243	2.65
30	4,276	485	3.79
45	5,270	728	4.54
60	6,055	971	5.08
120	8,163	1,941	6.22
240	10,525	3,882	6.64
480	13,156	7,764	5.39
600	14,352	9,705	4.65
1440	18,658	23,293	0.00

Acceptable

Storage Area Required 6.64 m³

Storage Area Provided 7.20 m³

Acceptable

Time for Emptying 50% 3.4 hours

Acceptable