Plan of Scheme
scale 1:500

Surface water pipes

1 Unless otherwise specified, surface water pipes to be PVCu twin walled with smooth internal and ribbed external walls with current BBA certification.

2 Unless otherwise stated pipes to be 100mm diameter.

Manhole covers and Frames

3 All manhole covers and frames intended to be used within the Highway shall be kite marked products to BS EN 124. 1994 and badged S.W. for surface water and F.W. foul water.

4 For the manholes that are located in the highway the covers will be heavy duty D400 to BS EN 124 with a clear opening of 600mm and a minimum frame and cover depth of 150mm. For those located in the footway or driveway, the covers will be medium duty C250 to BS 124 with a clear opening of 400mm.

5 The frames shall be bedded on a gauged Class 1 sand/cement mortar to clause 2404 and BS 5628 Part 3 : 2001 above two or three courses of Engineering Brickwork Class B to BS3921 : 1985.

6 On completion of the work all drains, manholes etc. shall be cleaned out, flushed and left free from all obstruction.

7 Manholes size are to be as stated in the surface water drainage report.

8 Paving to be as specified by others with a minimum permeability of 2l/m2/sec.

9 Laying course to be 2/6.3 crushed rock to (BSI,2002b) BSEN12620

S Sieve Size,mm	Percentage Passing
14	100
10	90-100
6.3	80-99
2	0-20
1	1-5

10 Geotextile to be of a mono-fillament woven or needle punched non-woven.
If non woven the material should have a weight greater than 400 g/m2 (EN 965). Ultimate tensile strength, longitudinal and transverse, to be greater than 15KN/m (EN ISO 10319) and strain, at nominal tensile strength, to be less than 70%. CBR to be greater than 3000N and opening size should be greater than 0.1mm with a water permeability of at least 6 x 10-³m/s (EN ISO 12236, 12956, and 11058).
If woven the material should have a weight greater than 200 g/m2 (EN 965). Ultimate tensile strength, longitudinal and transverse, to be greater than 30KN/m (EN ISO 10319) and strain at nominal tensile strength to be less than 25%. CBR to be greater than 2000N and opening size should be greater than 0.2mm with a water permeability of at least 200 x 10-³m/s (EN ISO 12236, 12956, and 11058).

11 Sub-base should be crushed rock with greater than 90% fracture faces and should comply with BS EN 13242 BSI. Typical grading for the sub base is given below and type should be UF5-0C80-GO-0/40 or Clause 805 Type3 base material as provided in the Specification forHighway Works.

BS Sieve Size,mm	Percentage Passing
40	100
31.5	98-100
20	90-99
10	25-70
4	0-15
2	0-5

REV	DATE	DESCRIPTION	BY	CHK	APP

REVISION

CLIENT
T I Davies a'i Fab

PROJECT
Erection of 45 Dwellings At Maesydderwen, Aberteifi

TITLE
Surface Water Drainage Plan

Francis Sant
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Caerfyrddin
Sir Gar
SA31 1JT
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DRAWN	CHECKED	PASSED
CFH	CFH	CFH

DATE	REFERENCE
August 2022	D/WD/D/2003

SCALE As Shown

DRAWING NO. 2003/301

REVISION O