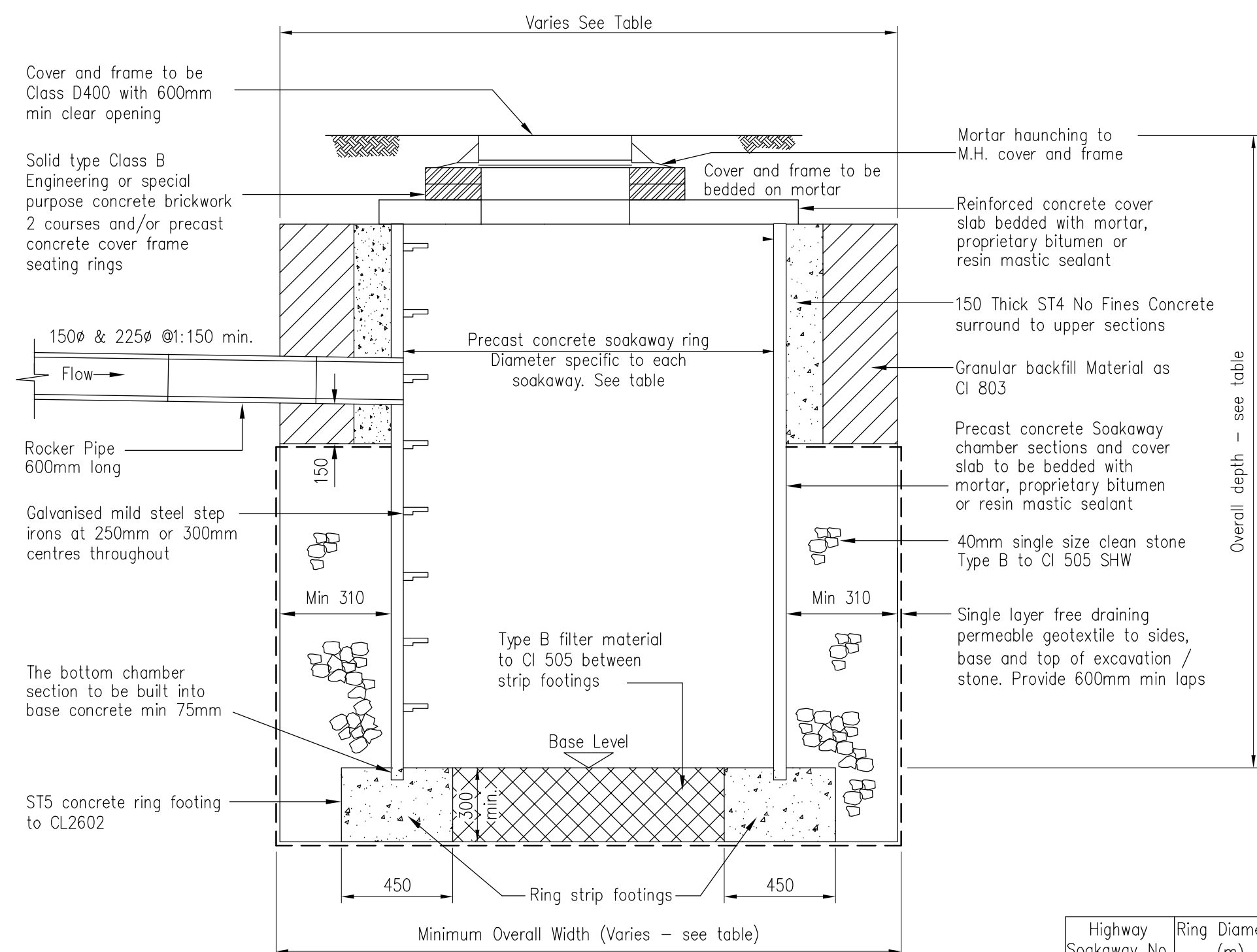


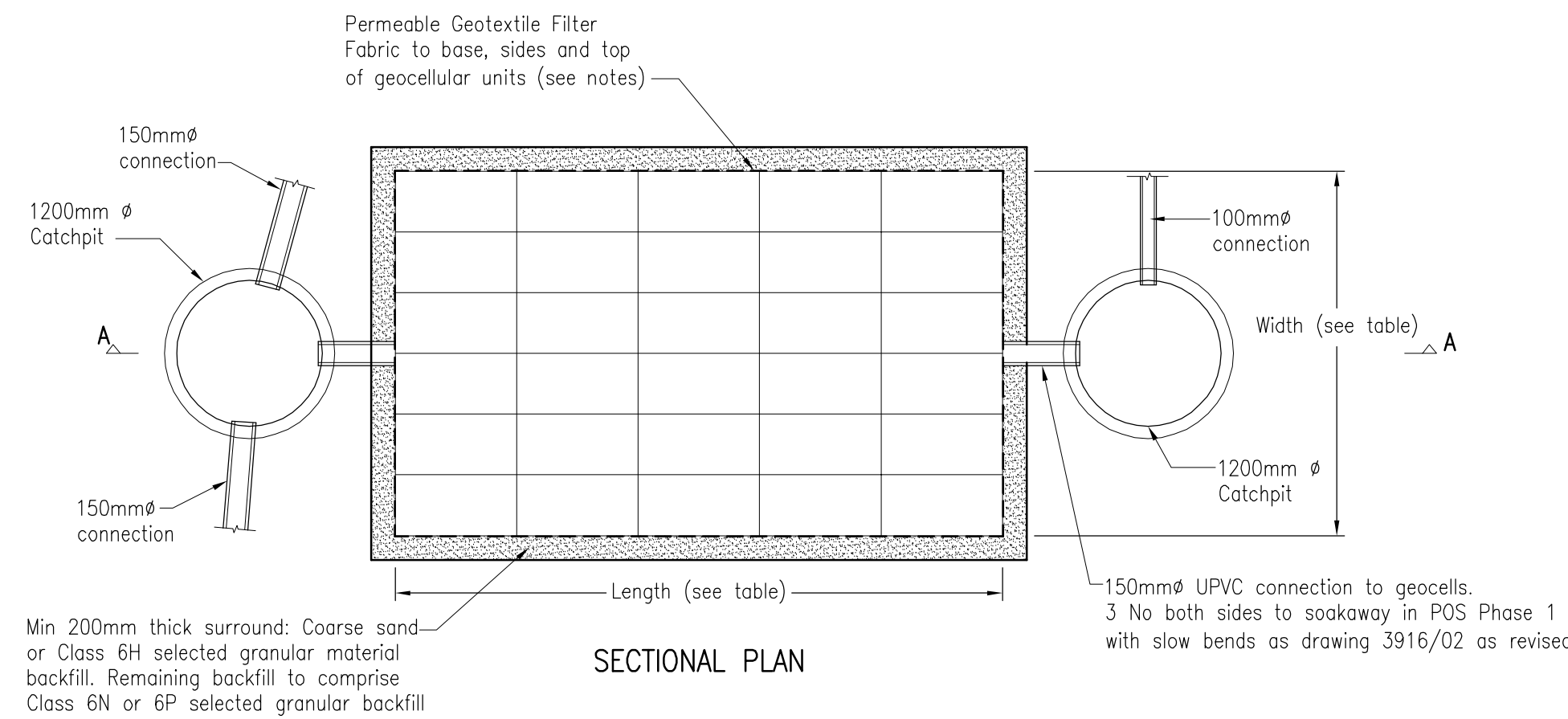


SECTION THROUGH SOAKAWAY

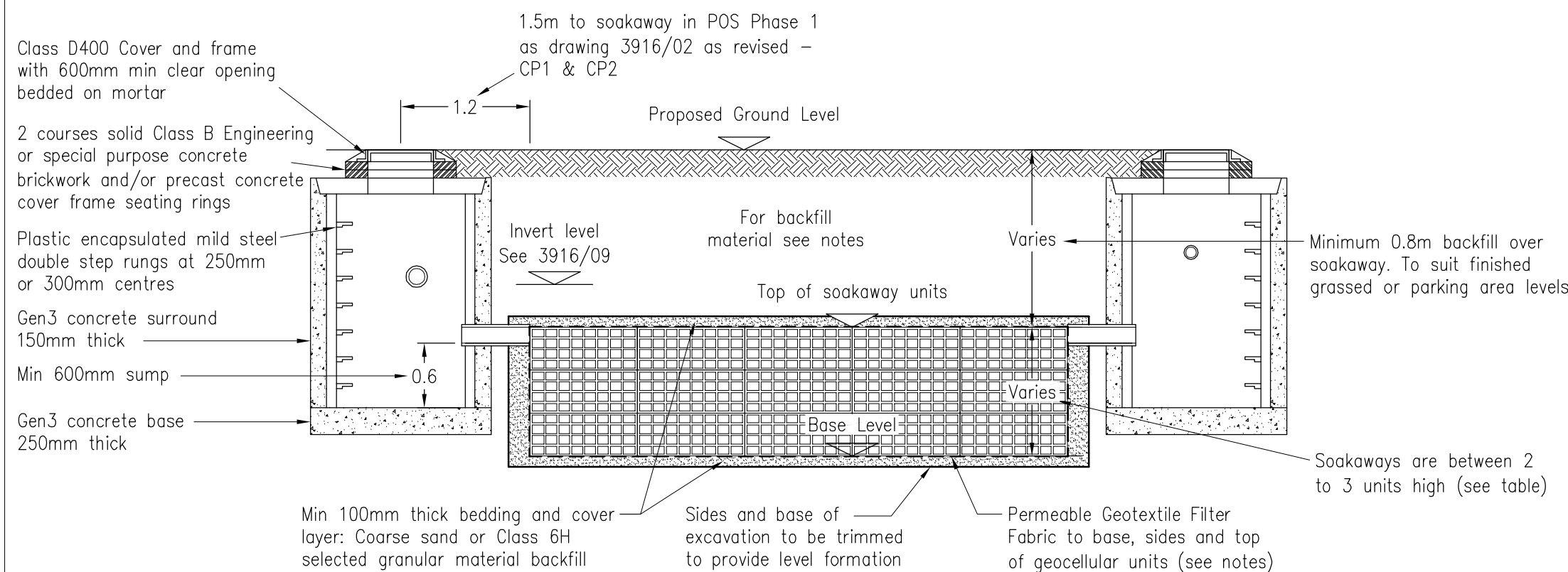
Highway Sawtooth No.	Ring Diameter (m)	Cover Level (m)	Invert Level (m)	Base Level (m)	Overall Depth (m)	Minimum Overall Width (m)
SA1	1.80	50.165	48.700	46.819	3.346	3.1 x 3.1
SA2	1.20	50.165	49.000	47.371	2.794	2.0 x 2.0
SA3	1.20	50.025	48.950	46.631	3.394	2.5 x 2.5
SA4	1.80	50.110	40.040	46.552	3.558	3.0 x 3.0
SA5	1.80	50.055	48.655	46.535	3.520	3.0 x 2.7

SOAKAWAY DETAILS

- # HIGHWAY SOAKAWAYS
- 1 ALL DIMENSIONS ARE IN MILLIMETRES
 - 2 ALL CLAUSE REFERENCES ARE IN THE DOT SPECIFICATION FOR HIGHWAY WORKS
 - 3 ALL MATERIALS AND WORKMANSHIP TO CONFORM TO VOLUME 1 OF THE SPECIFICATION FOR HIGHWAY WORKS AND WREXHAM COUNTY BOROUGH COUNCIL (WCBC) ESTATE DEVELOPMENT DESIGN GUIDE
 - 4 SLATE IS NOT TO BE USED AS TYPE B 40MM SINGLE SLATE STONE. STONE TO BE ANGULAR
 - 5 HIGHWAY CHAMBER S1 AND S2 TO BE TYPE 7C CATCHPIT CONSTRUCTION IN ACCORDANCE WITH CBR DRAWING NO 5/07/11s. SEE TABLE BELOW FOR COVER AND INVERT LEVELS
 - 6 ALL HIGHWAY DRAINAGE AND SOAKAWAYS SUBJECT TO THE APPROVAL OF WREXHAM COUNTY COUNCIL. SUBJECT TO ADOPTION UNDER SECTION 38 AGREEMENT
 - 7 SEE NOTES TO RIGHT ON GEOTEXTILE PROPERTY REQUIREMENTS
 - 8 ALL HIGHWAY DRAINS TO BE 225mmØ. GULLY CONNECTIONS TO BE 150mmØ. CONCRETE TYPE Z SURROUND REQUIRED WHERE COVER TO PIPE IS LESS THAN 900mm



SECTIONAL PLAN



SECTION A-A

TYPICAL GEOCELLULAR SOAKAWAY

INDICATIVE ONLY SEE TABLE FOR DIMENSIONS AND
DRAWINGS 3916/02, 03 AND 09 AS REVISED

- # NOTES
1. ALL DIMENSIONS IN METRES UNLESS STATED OTHERWISE
 2. ALL CLAUSE REFERENCES ARE FROM THE DoT SPECIFICATION FOR HIGHWAY WORKS (SHW)
 3. ALL LEVELS IN METRES RELATIVE TO LOCAL DATUM AS TOPOGRAPHICAL SURVEY BY OTHERS
 4. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 3916/02, 03, 09, D01 & D02 AS REVISED
 5. SURFACE WATER DRAINAGE SUBJECT TO APPROVAL BY FLINTSHIRE COUNTY COUNCIL BUILDING CONTROL
 6. GEOCELLULAR UNITS TO BE POLYSTORM UNITS BY POLYPIPE CIVILS. UNIT DIMENSIONS: 1.0x0.5x0.4m HIGH INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS TO INCLUDE ALL ANCILLARY FIXINGS, BRACKETS AND ADAPTORS AS NECESSARY
 7. PERMEABLE GEOTEXTILE FILTER MATERIAL TO BE IN ACCORDANCE WITH THE FOLLOWING:

MARS:	MIN 125g/m ² EN 965
CBR PUNCTURE RESISTANCE:	MIN 1500 N EN ISO 12236
PEAK TENSILE STRENGTH:	MIN 8kN/m ² EN ISO 10319
WATER FLOW RATE	
NORMAL TO PLANE:	MIN 100 l/m ² .s @50mm
	@50mm Head EN ISO 11058
PORE SIZE Ø90	TYPICALLY 100µm EN ISO 12956
pH	RESISTANCE TO ALL NATURALLY OCCURRING SOIL ACIDS AND ALKALIS
 8. CHEMICAL/BIOLOGICAL RESISTANCE
 9. RESISTANCE TO ALL SUBSTANCES FOUND TO NATURALLY OCCUR IN SOILS AND RAINWATER
 10. PROVIDE 600MM MIN LAPS. ALL JOINTS TO BE SEALED USING PROPRIETARY METHODS RECOMMENDED BY THE MANUFACTURER
 11. COVER AND INVERT LEVELS ARE BASED ON PROPOSED GROUND LEVELS FROM DRAWINGS 12.5407/01 REV H AND ROAD LONG SECTION DRAWINGS 12.5407/R1 BY PARRY DAVIES ARCHITECTS INCLUDING PROPOSED LEVELS ON RBA DRAWINGS 3916/02 & 03 AS REVISED
 12. SLATE IS NOT TO BE USED FOR THE STONE SURROUND
 13. ALL LEVELS AND DIMENSIONS TO BE CHECKED AND CONFIRMED ON SITE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY
 14. BACKFILLING OVER SOAKAWAY:

FIELD / GRASSED AREAS:	FIRST 300MM TO BE FREE FROM PARTICLES EXCEEDING 40MM IN ACCORDANCE WITH CLASS 8 MATERIAL TO SERIES 600, VOLT D0T SHW. FINAL BACKFILLING TO FINISHED LEVEL USING SELECTED AS DUG MATERIAL PLACED AND COMPACTED IN MAX 300MM LAYERS.
LIGHTLY TRAFFICED AREAS:	BACKFILL WITH CLASS 1 OR 2 MATERIAL TO SERIES 600, VOLT D0T SHW PLACED AND COMPACTED IN MAX 150MM LAYERS UP TO UNDERSIDE OF SURFACING CONSTRUCTION/SUB BASE.

Catchpit No.	Cover Level (m)	Chamber Depth (m)	Chamber Diam. (mm)	Pipes Out Invert Level (m)	Diameter (mm)	Pipes In Invert Level (m)	Diameter (mm)	Backdrop (mm)
S1	49.990	1.440	1200	48.850	225	48.850	150	—
S2	49.920	1.480	1200	48.740	225	48.840	150	—

HIGHWAY CATCHPIT DETAILS

Chamber depth includes 300mm sump
To be type 7c catchpit construction in
accordance with WCBC drawing no 5/07/11s

Catchpit Reference	Cover Level (m)	Length (m)	Width (m)	Height (Units)	Base Level (m)	Strata Level (m)	Overall Depth (m)
CP1	49.800	15.5	6.0	2	47.420	~48.220	2.38
CP2	49.800						2.38
CP3	50.200	12.5	3.0	3	47.350	~48.250	2.85
CP4	50.225						2.875
CP5	50.400	13.0	2.0	3	47.380	~48.280	3.02
CP6	50.175						2.795
CP7	49.980	13.0	2.0	3	47.300	~48.100	2.525
CP8	49.825				CP27/1		2.68

PRIVATE SOAKAWAY DETAILS

SEE DRAWING 3916/09 AS REVISED FOR
CATCHPIT INCOMING PIPEWORK INVERT LEVELS
OVERALL DEPTH DOES NOT INCLUDE 100MM
THICK BEDDING LAYER

REV	DATE	NATURE OF REVISION	BY	CHECKED

DO NOT SCALE THIS DRAWING. THIS DRAWING IS COPYRIGHT. CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE. ARCHITECT / ENGINEER TO BE NOTIFIED OF ANY DISCREPANCIES.

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GOWER HOMES

PROPOSED RESIDENTIAL DEVELOPMENT THE SIDINGS, RAILWAY ROAD, WREXHAM

CONSTRUCTION DETAILS: SOAKAWAYS

SCALE	NTS	SIZE	A1	DRAWN	CHKD	DATE	JOB No	3916	DWG No	D02	REV	.
				RW		05.14						

FOR APPROVAL

NOTE
PHASE 2 TRENCH SOAKAWAYS AND CONCRETE RINGED SOAKAWAYS WITHIN THE HIGHWAY HAVE BEEN DESIGNED USING PERCOLATION TEST DATA FROM PHASE 1 AND TP7 IN PHASE 2 ONLY. ADDITIONAL PERCOLATION TESTS TO BE CARRIED OUT IN PHASE 2 TO CONFIRM INFILTRATION RATES AND FINAL DESIGN