

FOR APPROVAL

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 ABOVE ORDNANCE DATUM TO TOPOGRAPHICAL SURVEY BY OTHERS
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING 5068/02, D01 AS REVISED
5. PRIVATE SURFACE WATER DRAINAGE SUBJECT TO APPROVAL BY BUILDING CONTROL
6. GEOCELLULAR UNITS TO BE BY POLYPIPE CIVILS:

GARDEN AREAS: <2.05m DEEP 'POLYSTORM LITE'
GARDEN AREAS: >2.05m DEEP TO MAX 3.0M TO BE 'POLYSTORM'
TRAFFICKED AREAS: 'POLYSTORM R' UNITS

UNIT DIMENSIONS: 1.0x0.5x0.4m HIGH. TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS TO INCLUDE ALL ANCILLARY FIXINGS, CLIPS, BRACKETS AND ADAPTORS AS NECESSARY

7. PERMEABLE GEOTEXTILE FILTER MATERIAL TO BE IN ACCORDANCE WITH THE FOLLOWING:
- MASS
CBR PUNCTURE RESISTANCE:
PEAK TENSILE STRENGTH:
WATER FLOW RATE
NORMAL TO PLANE:

MIN 125g/m² EN 965
MIN 1500 N EN ISO 12236
MIN 8kN/m² EN ISO 10319
MIN 100 l/m².s @50mm
@50mm Head EN ISO 11058
TYPICALLY 100µm EN ISO 12956
RESISTANCE TO ALL NATURALLY OCCURRING SOIL ACIDS AND ALKALIS
- PORE SIZE 090
pH

CHEMICAL/BIOLOGICAL RESISTANCE
REISTANCE TO ALL SUBSTANCES FOUND TO NATURALLY OCCUR IN SOILS AND RAINWATER

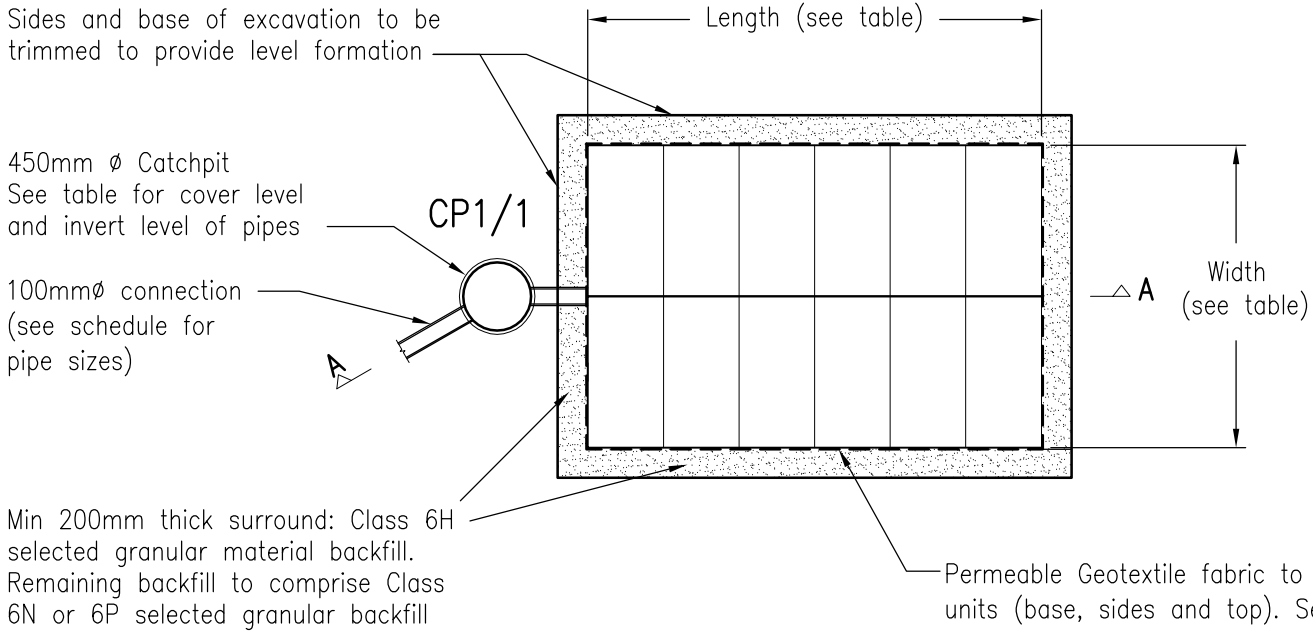
8. PROVIDE 600MM MIN LAPS. ALL JOINTS TO BE SEALED USING PROPRIETARY METHODS RECOMMENDED BY THE MANUFACTURER
9. COVER AND INVERT LEVELS ARE BASED ON PROPOSED GROUND LEVELS TO BOTH PARKING AND GARDEN LEVELS AND GRAVEL STRATA LEVELS FROM TRIAL PIT LOGS AND PERCOLATIONS TESTS BY GROUND SOLVE.
10. GARDEN LEVELS TO BE FLAT OR SHALLOW GRADIENT TO MINIMISE RUN OFF AND ALLOW SOME PONDING OF WATER ON THE SURFACE
11. SLATE IS NOT TO BE USED FOR THE STONE SURROUND OR BEDDING
12. ALL LEVELS AND DIMENSIONS TO BE CHECKED AND CONFIRMED ON SITE PRIOR TO CONSTRUCTION. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER IMMEDIATELY

13. BACKFILLING OVER SOAKAWAY:

FIELD / GRASSED AREAS: MINIMUM COVER 500mm. FIRST 300MM TO BE FREE FROM PARTICLES EXCEEDING 40mm IN ACCORDANCE WITH CLASS 8 MATERIAL TO SERIES 600, VOL1 DoT SHW. FINAL BACKFILLING TO FINISHED LEVEL USING SELECTED AS DUG MATERIAL PLACED AND COMPACTED IN MAX 300mm LAYERS.

LIGHTLY TRAFFICKED AREAS: MINIMUM COVER 800mm. BACKFILL WITH CLASS 1 GRANULAR MATERIAL TO SERIES 600, VOL1 DoT SHW PLACED AND COMPACTED IN MAX 150mm LAYERS UP TO UNDERSIDE OF SURFACING CONSTRUCTION – SUB BASE OR CAPPING.

14. CATCHPITS TO BE 450mmØ PREFABRICATED RIDGISTORM SEPERATE CATCHPIT (OR 600mmØ POLYSTORM PREFABRICATED CATCHPIT) BY POLYPIPE CIVILE WITH REDUCED ACCESS CAP WHERE REQUIRED WITH PREFORMED POLYPROPYLENE COUPLINGS ATTACHED TO CHAMBER WALL AT PIPE ENTRIES / EXITS



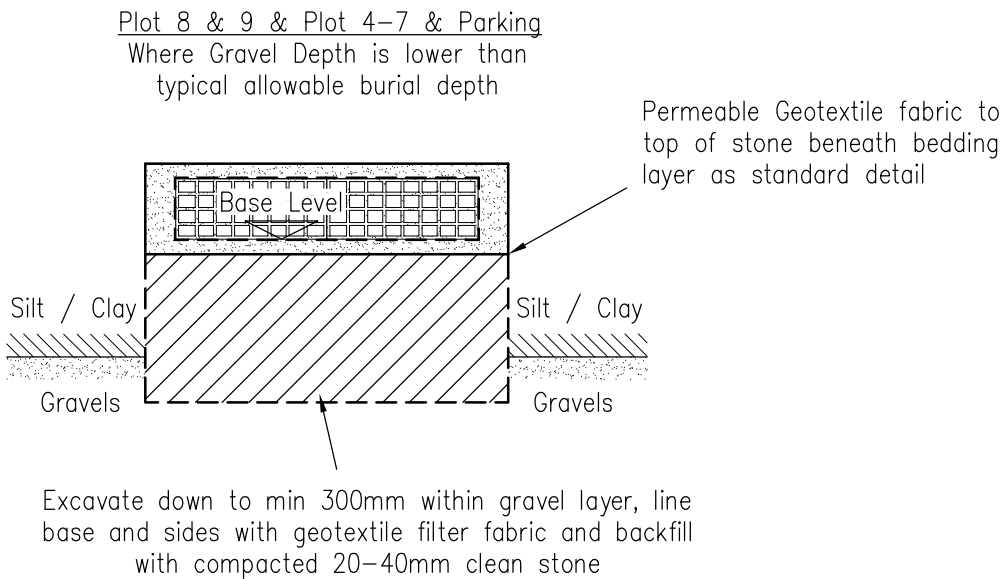
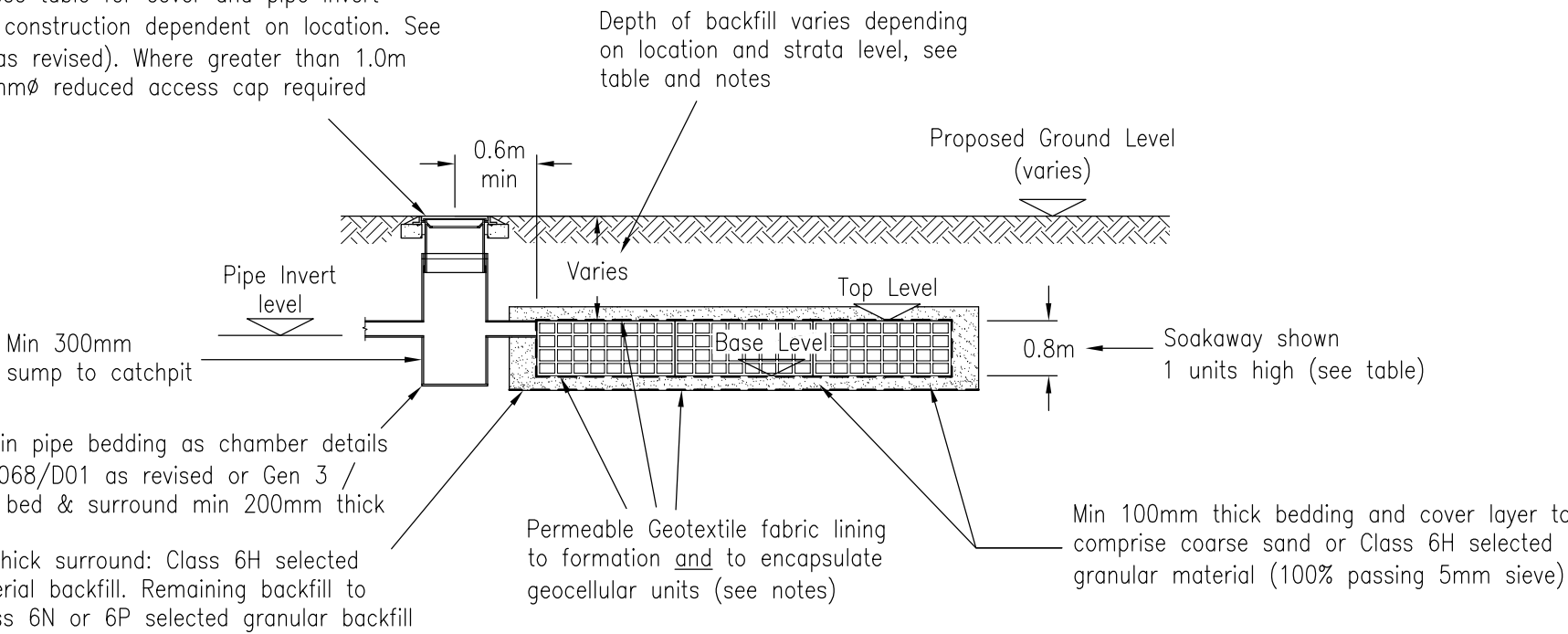
See drawing 5068/02 (as revised) for soakaway, catchpit and pipework arrangement.

Arrangement of geocellular units is dependent on the principal dimensions

MANAGEMENT & MAINTENANCE
COMMUNAL SOAKAWAYS WITHIN THE ACCESS ROADS AND PARKING AREAS TO BE MAINTAINED IN PERPETUITY BY THE MANAGEMENT COMPANY RESPONSIBLE FOR ALL COMMUNAL AREAS AND LANDSCAPING ETC.
PRIVATE SOAKAWAYS TO BE MAINTAINED BY PROPERTY OWNERS

PRIVATE GEOCELLULAR SOAKAWAY
GENERIC PLAN

450mmØ Catchpit, (see table for cover and pipe invert level). Cover type & construction dependent on location. See drawing 5068/D01 (as revised). Where greater than 1.0m depth to invert 350mmØ reduced access cap required



SECTION A-A

Soakaway Reference	CATCHPIT								GEOCELLULAR SOAKAWAY							Comments
	Catchpit Reference (m)	Cover Level (m)	Chamber Ø (mm)	Pipe In Invert Level (m)	Pipe Out Invert Level (m)	Pipe In Ø	Pipe Out Ø	Sump Level (m)	Length (m)	Width (m)	Height (Units)	(m)	Top Level (m)	Base Level (m)	Overall Depth (m)	
Access Road & Car Park	CP14	48.180	450	47.050	47.050	150	150	46.750	5.0	3.0	1.00	0.4	47.200	46.800	1.380	
	CP15	48.160	450	47.050	47.050	150	150	46.750								
	CP16	48.225	450	47.050	47.050	150	150	46.750								
Plot 1 to 3 Front & Parking	CP12	48.400	450	47.350	47.350	150	150	47.050	6.0	0.5	1.0	0.4	47.500	47.100	1.300	
	CP13	48.790	450	47.400	48.400	100	100	47.100								
Plots 1, 3, 4 & 6 Rear	CP1	49.825	450	48.610	48.610	100	100	48.310	2.0	0.5	1.0	0.4	48.710	48.310	1.515	
	CP3	48.925	450	47.685	47.685	100	100	47.385	2.0	0.5	1.0	0.4	47.785	47.385	1.540	
	CP4	48.825	450	47.620	47.620	100	100	47.320	2.0	0.5	1.0	0.4	47.720	47.320	1.505	
	CP6	47.700	450	46.600	46.600	100	100	46.300	2.0	0.5	1.0	0.4	46.700	46.300	1.400	
Plot 2 & 5 Rear	CP2	49.375	450	48.275	48.275	100	100	47.975	2.0	0.5	1.0	0.4	48.375	47.975	1.400	
	CP5	48.300	450	47.200	47.200	100	100	46.900	2.0	0.5	1.0	0.4	47.300	46.900	1.400	
Plot 4-7 & Parking	CP10	47.685	450	46.630	46.630	100	100	46.330	2.0	0.5	1.0	0.8	46.730	45.930	1.755	Fill excavation down into gravel in clean stone
	CP11	48.130	450	46.630	46.630	100	100	46.330	2.0	0.5	1.0	0.8	46.730	45.930	2.200	Trench lined with permeable geofabric
Plot 8	CP8	47.000	450	46.000	46.000	100	100	45.700	1.0	0.5	1.0	0.4	46.100	45.700	1.300	Fill excavation down into gravel in clean stone Strata level ~44.75m
Plot 8 Front & 9	CP9	47.000	450	45.700	45.700	100	100	45.400	1.0	0.5	1.0	0.4	45.800	45.400	1.600	Fill excavation down into gravel in clean stone Strata level ~44.40m at TP01

PRIVATE SOAKAWAY DETAILS

- SEE DRAWING 5068/02 AS REVISED WATER IC & CATCHPIT SCHEDULE (AS REVISED) FOR CATCHPIT INCOMING PIPEWORK INVERT LEVELS AND UPSTREAM CHAMBER DETAILS
- OVERALL DEPTH IS FROM COVER LEVEL TO BASE LEVEL. 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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CLIENT

MR PAUL WOOLLAM

PROJECT

PROPOSED RESIDENTIAL DEVELOPMENT, BRIARY CLOSE, WREXHAM

DRAWING

CONSTRUCTION DETAILS:
PRIVATE GEOCELLULAR SOAKAWAYS

SCALE

1:50

SHEET

A2

DRAWN

CHKD

DATE

SHEET

5576

ORG

D02

REV

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