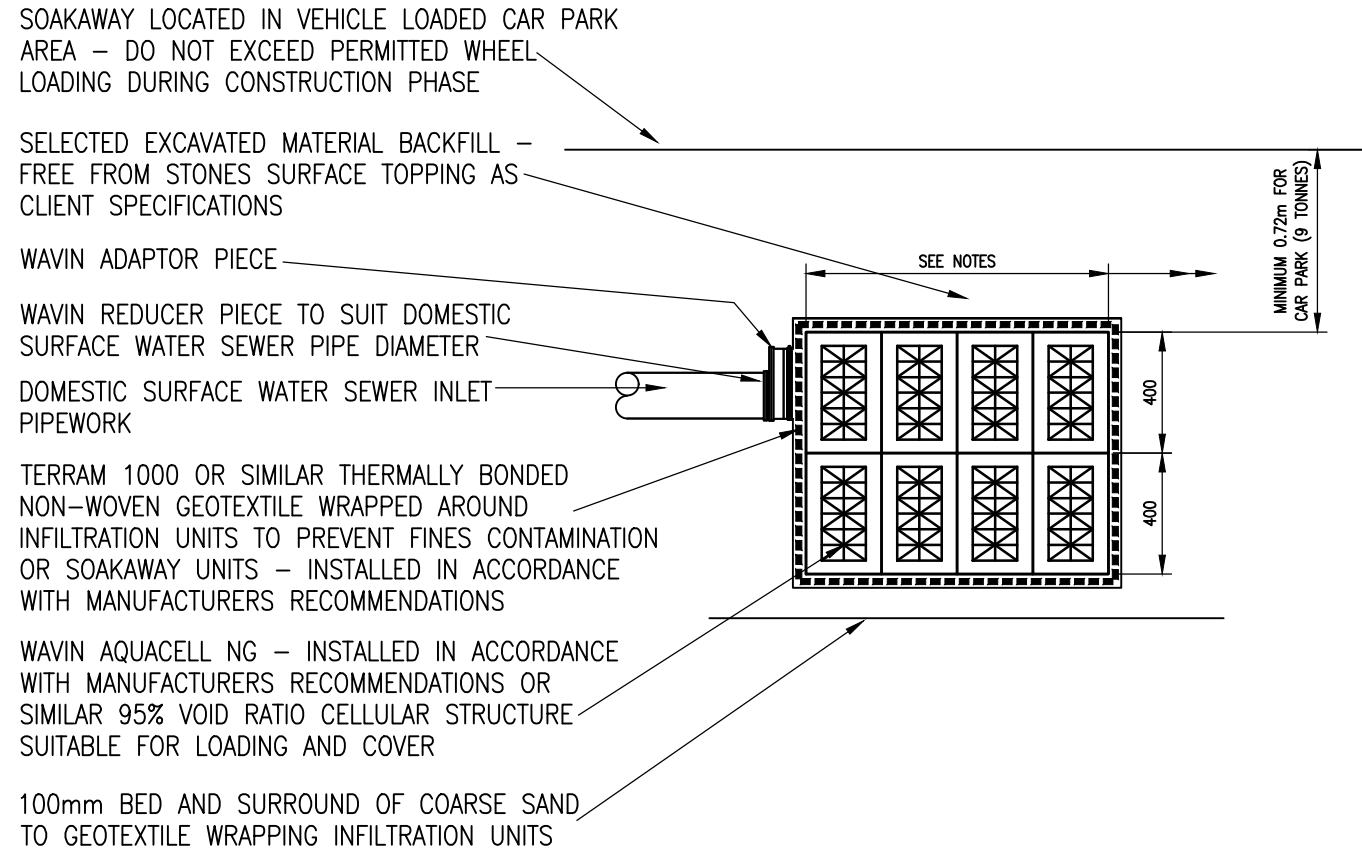


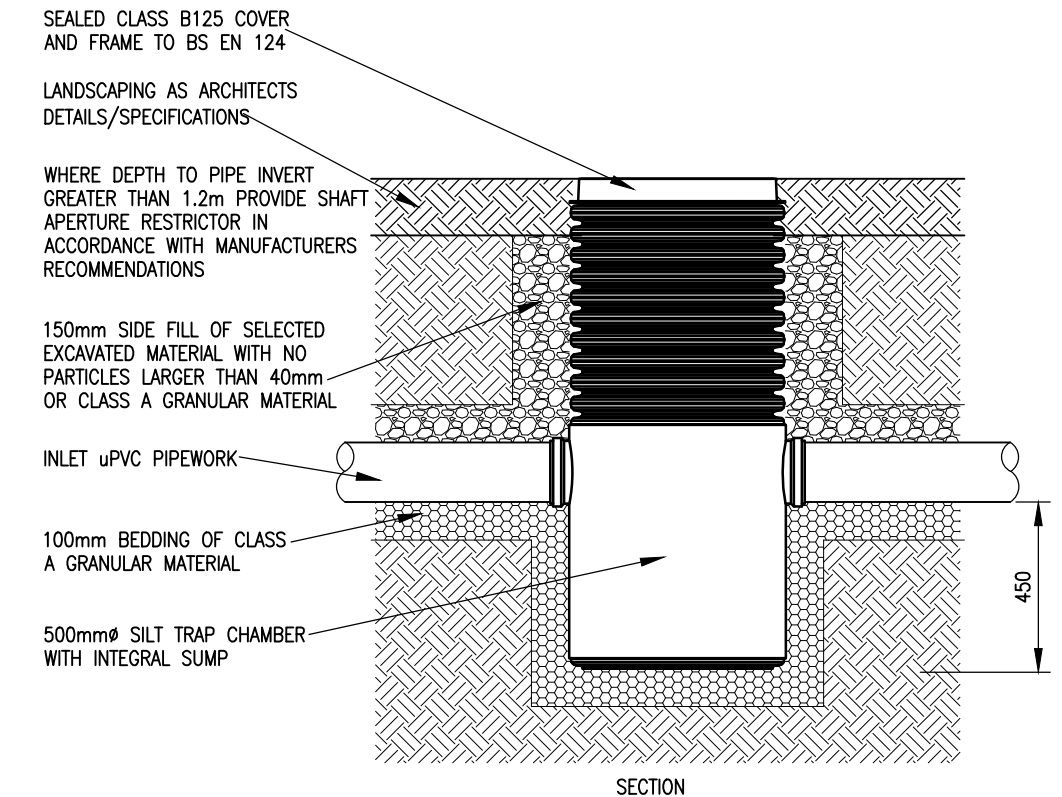
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DO NOT SCALE



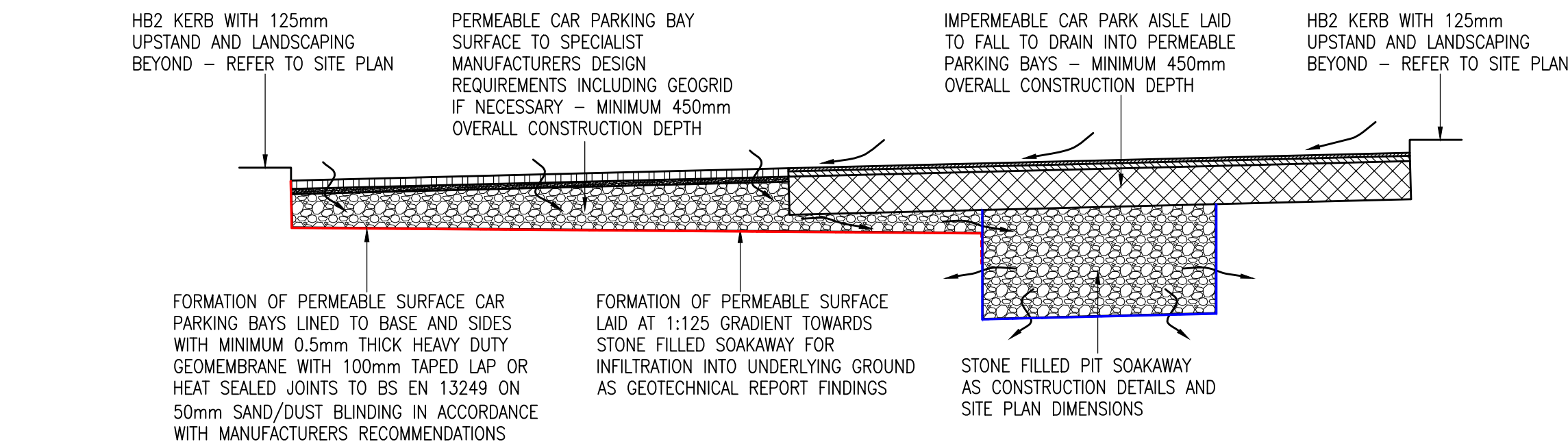
TYPICAL SURFACE WATER SOAKAWAY SECTION

(REFER TO SITE PLAN NOTES FOR REQUIRED NUMBER OF UNITS AND CONFIGURATION)
SCALE 1:25



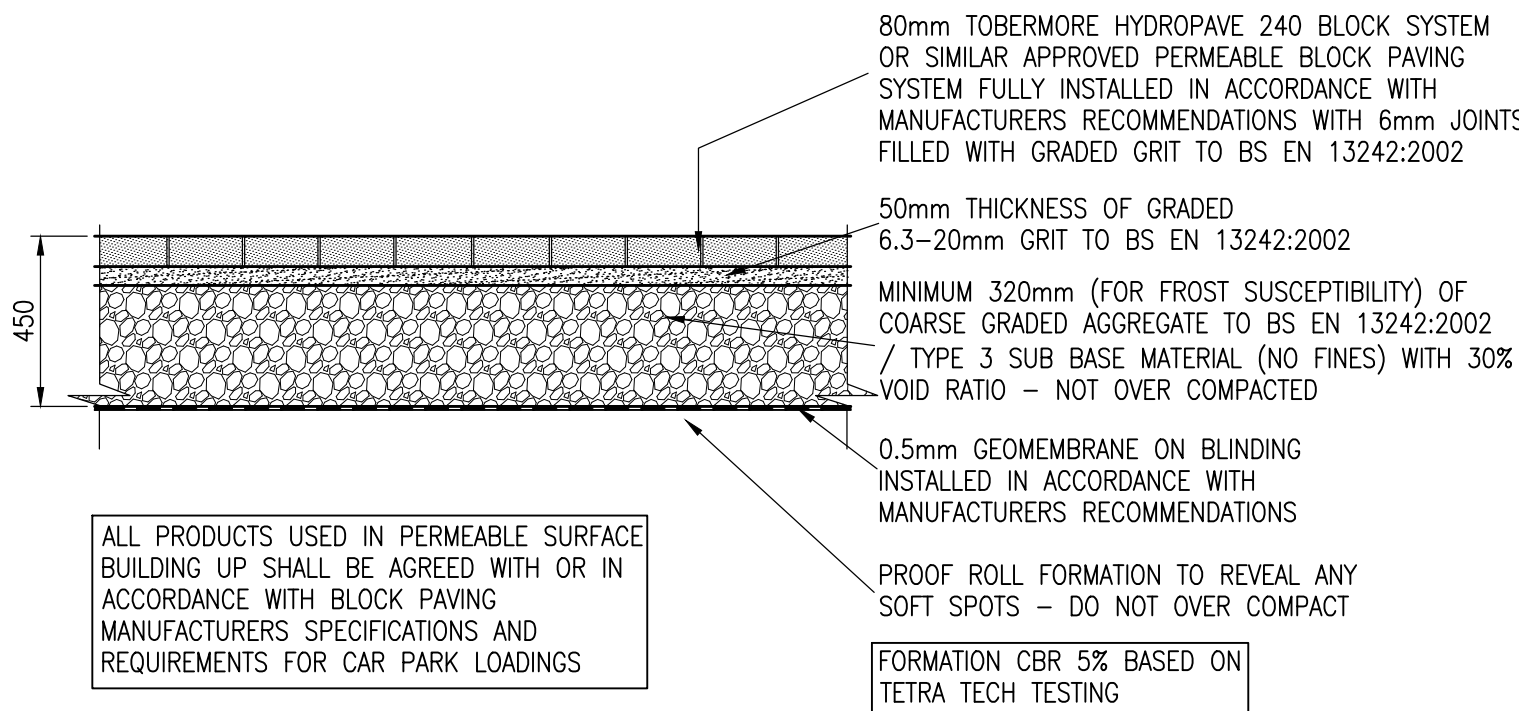
TYPICAL OSMA SILT TRAP DETAIL (BS EN 124 CLASS A15 COVER)

MAXIMUM INSTALLATION DEPTH FROM COVER LEVEL TO BASE OF SUMP = 3m



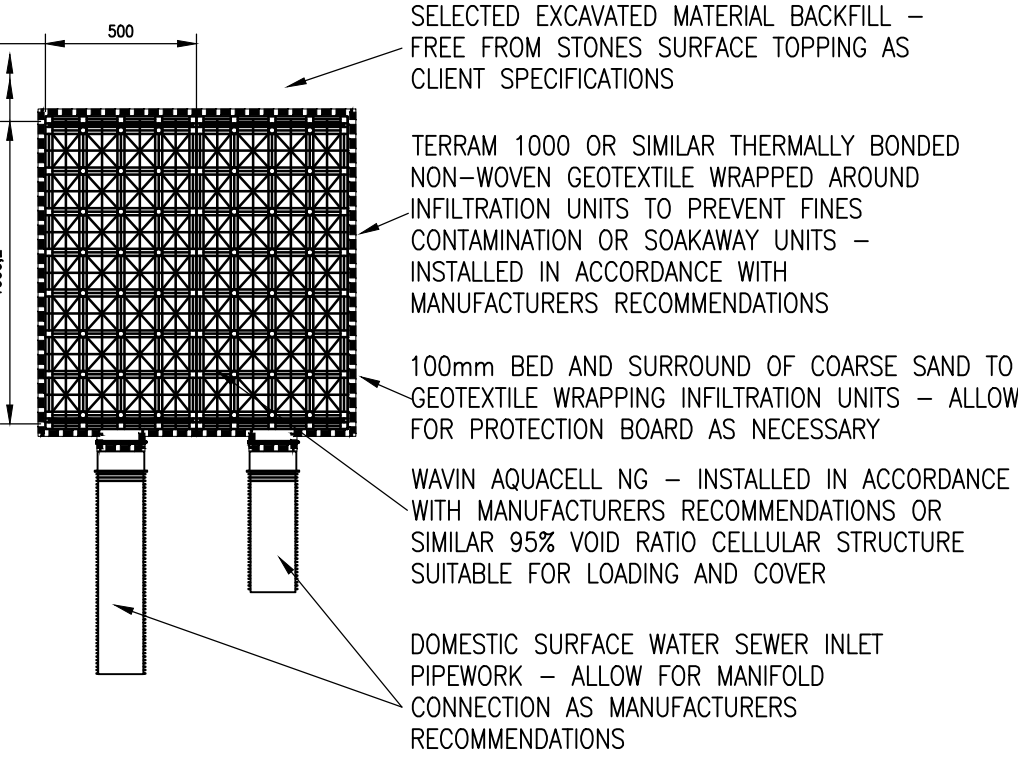
PUBLIC CAR PARKING DRAINAGE SECTION

SCALE 1:50



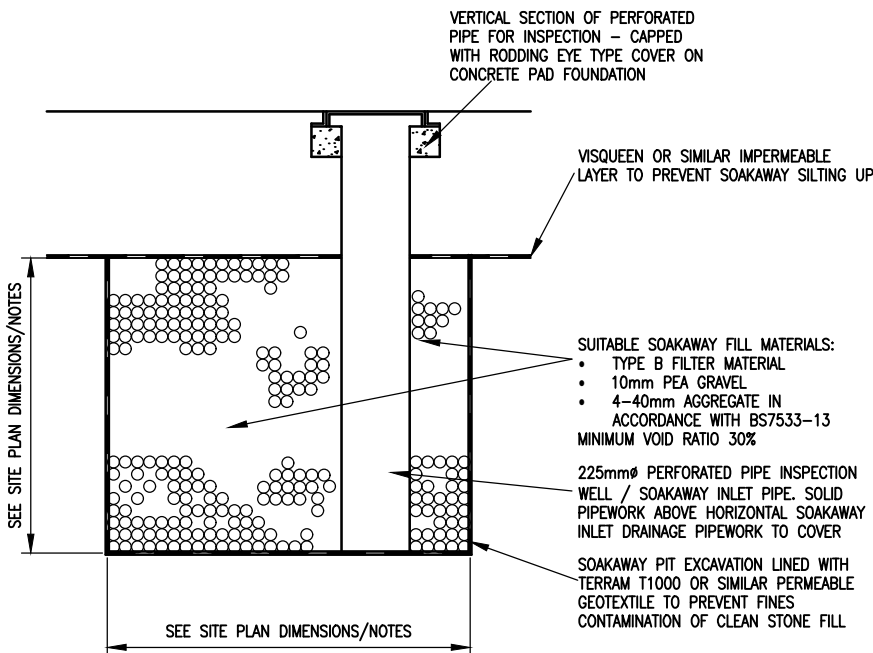
PERMEABLE CAR PARKING CONSTRUCTION SECTION

SCALE 1:20

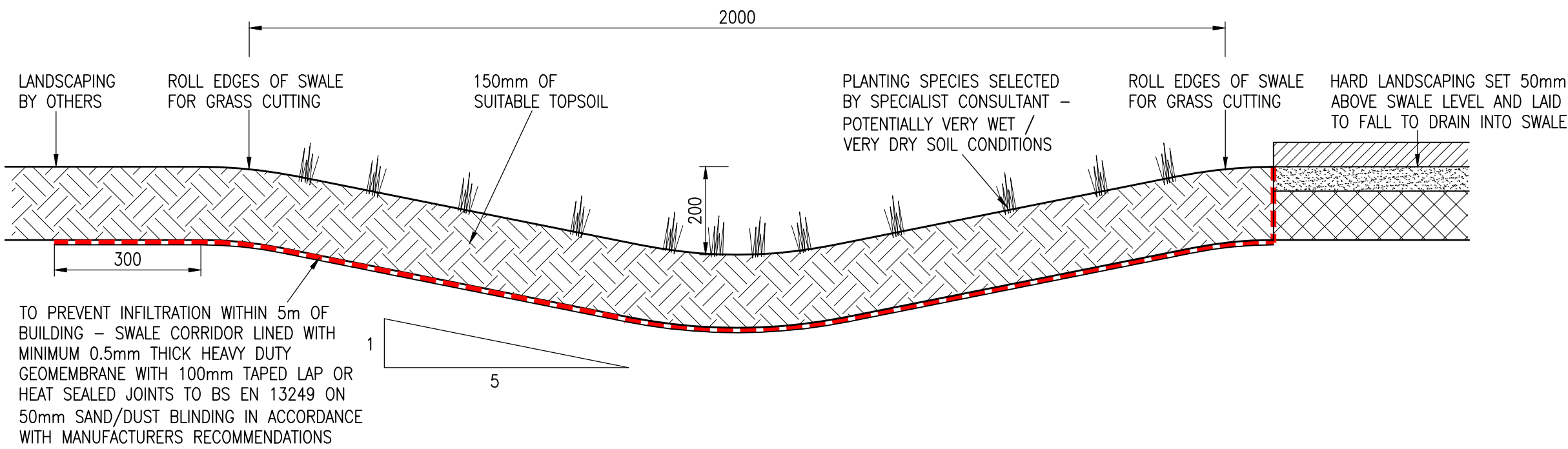


TYPICAL SURFACE WATER SOAKAWAY PLAN

(REFER TO SITE PLAN NOTES FOR REQUIRED NUMBER OF UNITS AND CONFIGURATION)
SCALE 1:25

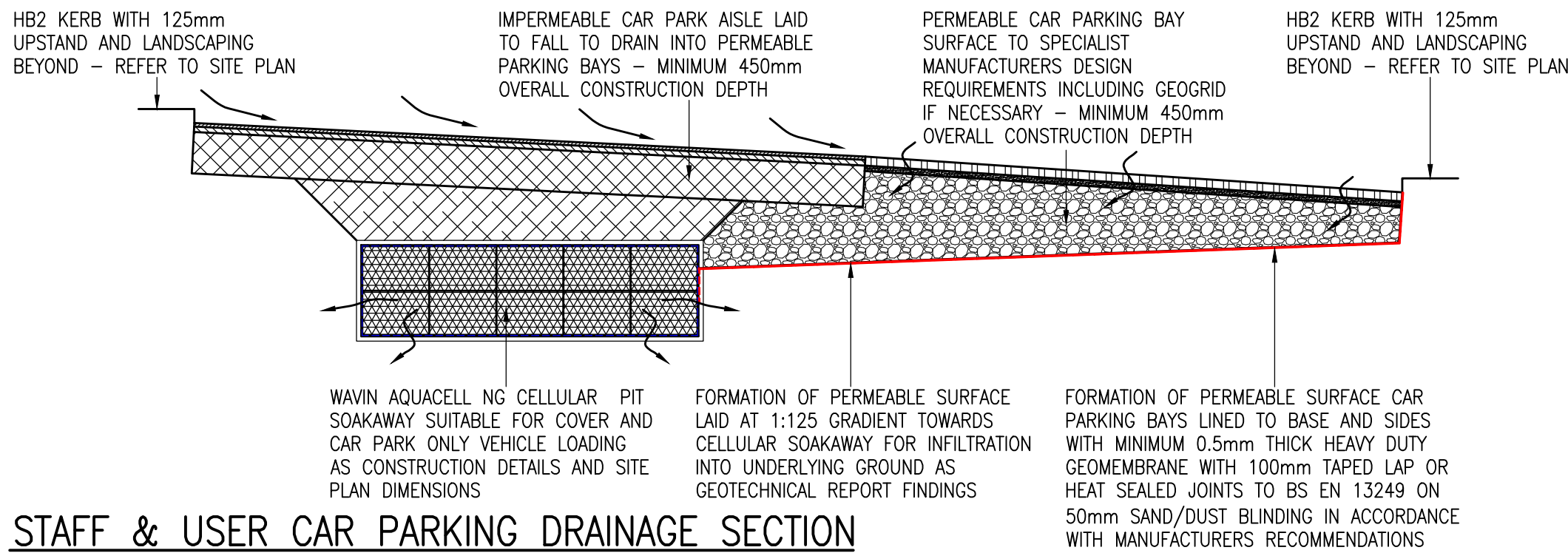


STONE FILL PIT SOAKAWAY SECTION



200mm DEEP 1:5 SWALE SECTION

SCALE 1:10



STAFF & USER CAR PARKING DRAINAGE SECTION

SCALE 1:50

SUGGESTED SWALE PLANTING	
(Sow at 5 grms/m2) – For sowing in base of swales	
0% Wild flowers	
0.5% Achillea ptarmica Sneezewort	
1.0% Alisma plantago-aquatica Water-Plantain	
2.0% Angelica sylvestris Wild Angelica	
1.0% Cardamine pratensis Cuckoo Flower	
1.0% Dipsacus Fullonum Teasel	
1.0% Eupatorium cannabinum Hemp Agrimony	
2.5% Filipendula ulmaria Meadowsweet	
1.0% Mentha aquatica Water Mint	
1.0% Myosotis scorpiodes Water Forget-Me-Not	
2.5% Iris pseudacorus Yellow Iris	
1.5% Lotus pedunculatus Greater Birdfoot Trefoil	
1.0% Lychnis Flos-cuculi Ragged Robin	
1.7% Lycopus europaeus Gypswort	
1.0% Lythrum salicaria Purple Loosestrife	
0.3% Pulicaria dysentrica Fleabane	
1.0% Succisa pratensis Devil's Bit Scabious	
0% Grasses (w = wild)	
8.0% Agrostis stolonifera (w) Creeping Bent	
4.0% Alopecurus pratensis (w) Meadow Foxtail	
2.0% Anthoxanthum odoratum (w) Sweet Vernal Grass	
1.0% Briza media (w) Quaking Grass	
40.0% Cynosurus cristatus Crested Dogstail	
1.0% Deschampsia cespitosa (w) Tufted Hair-Grass	
24.0% Festuca rubra ssp juncea	
(w)	
Slender Creeping Red Fescue	

- THIS DRAWING IS COPYRIGHT AND SHOULD BE READ IN CONJUNCTION WITH ALL OTHER RCA AND ARCHITECTS DRAWINGS AND SPECIFICATIONS RELATING TO THIS PROJECT AND SEWERS FOR ADOPTION 7th EDITION, DOWN ADDENDUM DOCUMENTS, SPECIFICATION FOR HIGHWAY WORKS AND POWYS COUNTY COUNCIL TECHNICAL SPECIFICATIONS.
- ALL DIMENSIONS SHALL BE CHECKED PRIOR TO CONSTRUCTION OR MANUFACTURE. ANY DISCREPANCY TO BE REPORTED TO THE ENGINEERS IMMEDIATELY.
- DO NOT SCALE THIS CAD DRAWING WORK TO FIGURED DIMENSIONS ONLY – IF IN DOUBT ASK.
- ALL DIMENSIONS ARE IN mm (MILLIMETRES) UNLESS OTHERWISE STATED.
- MATERIALS AND WORKMANSHIP – ALL WORK SHALL COMPLY WITH THE CURRENT RELEVANT BRITISH STANDARDS, BUILDING REGULATIONS, HEALTH & SAFETY REGULATIONS, SEWERS FOR ADOPTION AND THE SPECIFICATIONS SHOWN.
- PIPEWORK TO CONFORM TO THE FOLLOWING – PLASTIC PVC-U DRAINAGE SYSTEMS WITH FLEXIBLE JOINTS TO BS4660 OR BS5481.
- FLEXIBLE JOINTS SHALL BE PROVIDED TO ALL PIPES WITHIN 600mm OF INNER FACE OF MANHOLE PROTECTING PIPES SHALL BE SURROUNDED WITH 150mm GRADE 6.3/20mm/25mm CONCRETE CAST MONOLITHICALLY WITH THE MANHOLE BASE.
- PIPES SHALL HAVE GRANULAR BED AND SURROUND UNLESS OTHERWISE DETAILED. GRANULAR MATERIAL SHALL CONFORM TO BS882 (TABLE 1) AND SHOULD BE CAREFULLY PLACED AND CONSOLIDATED BY HAND IN THIN LAYERS.
- ALL PIPEWORK CONNECTIONS AT MANHOLES SHALL BE SOFFIT TO SOFFIT, APART FROM AT OUTLINE ATTENUATED STORAGE – SEE LONGITUDINAL SECTIONS / CHAMBER SCHEDULES.
- MANHOLE COVERS SHALL BE CO-ORDINATED WITH THE SURROUNDING AREA AND SHALL BE AS SPECIFIED ON THE DRAWINGS.
- TOLERANCES – COVERS SHALL BE SET AT, OR NOT MORE THAN 5mm BELOW THE SURROUNDING LEVEL. IN PAVED AREAS, INVERTS SHALL BE WITHIN 5mm OF GIVEN LEVEL, AND MAY NOT CAUSE THE AS-LAD GRADIENT OF THE PIPES TO VARY FROM THAT GIVEN ON THE DRAWING BY MORE THAN 10%.
- ADAPTABLE SEWERS LAID IN NON-ADAPTABLE AREAS I.E. GARDENS SHALL BE WITHIN AN EASEMENT ZONE AS PLANNED. NO BUILDING SHALL BE CONSTRUCTED WITHIN THIS EASEMENT ZONE.
- SPURS CONSTRUCTED FOR FUTURE DEVELOPMENTS TO BE "STOPPED UP" AT BLANK END TO PREVENT GROUND WATER INFILTRATION.

TABLE C	
NOMINAL PIPE DIAMETER (mm)	THICKNESS OF COMPRESSIBLE FILLER (mm)
LESS THAN 450	18
450 – 1200	36
EXCEEDING 1200	54

TABLE D PIPE BEDDING	
PIPE DIAMETER (mm)	GRANULAR MATERIAL SIZE (mm)
100	10 NOMINAL SINGLE SIZE
150	10 OR 14 NOMINAL SINGLE SIZE
150 – 500	10, 14 OR 20 NOMINAL SINGLE SIZE
OVER 500	10, 14, 20 OR 40 NOMINAL SINGLE SIZE

NOTES:

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THE CONTRACTOR IS TO CHECK ALL LEVELS AND DIMENSIONS BEFORE WORK COMMENCES, AND ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE CONSULTANTS.

WORK TO FIGURED DIMENSIONS IN PREFERENCE TO SCALING.

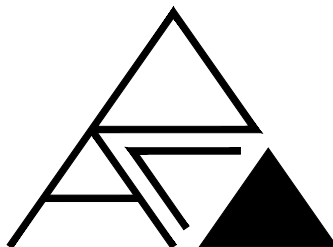
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THE CONTRACTOR IS EXPECTED TO SUPPLY AND DO EVERYTHING NECESSARY FOR THE PROPER EXECUTION OF THE WORKS THAT MAY BE REASONABLY INFERRED FROM THE DRAWINGS AND SPECIFICATION, WHETHER REFERRED TO IN DETAIL OR NOT, WITHOUT EXTRA PAYMENT IN RESPECT THEREOF.

C01	CONSTRUCTION ISSUE	PWJL	PWJL	29/05/24
P01	FULL SAB APPLICATION ISSUE	PWJL	PWJL	23/11/23
REV	DESCRIPTION	DRAWN	CHECK	DATE

DRAWING STATUS:

A1 - CONSTRUCTION



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CLIENT:



PROJECT:

**NEW CHILD CARE UNIT
WAUN WEN, CWMAFAN,
NEATH PORT TALBOT SA12 9TB**

DRAWING TITLE:

DRAINAGE CONSTRUCTION DETAILS - SHEET 2 OF 2

ORIGINAL DRAWING A1	DRAWN BY:	DESIGN BY:	CHECKED BY:	DATE:	SCALE:
© Roger Casey Associates Limited 2024	PWJL	PWJL	RSC	29/06/23	1:25/20/10
RCA PROJECT REFERENCE No.:	21713	DRAWING No.:	2455 -RCA-01-ZZ-DR -C- 04	REVISION:	C01

NOTES (CONTINUED)

ALL FIGURED LEVELS ARE RELATED TO LAND SURVEY DATUM AS RCA DRAWING NUMBER JOB NUMBER/01 UNLESS NOTED OTHERWISE.

ALL FIGURED DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

ALL WORKS SHALL BE IN ACCORDANCE WITH CURRENT RELEVANT SECTIONS OF:

- SPECIFICATION FOR HIGHWAY WORKS
- DESIGN MANUAL FOR ROADS AND BRIDGES
- LOCAL AUTHORITY HIGHWAY ADOPTION REQUIREMENTS
- LOCAL AUTHORITY SAB APPROVAL AND REQUIREMENTS
- SEWERS FOR ADOPTION 7th EDITION
- BUILDING REGULATIONS
- BRITISH STANDARDS
- NEW ROADS AND STREET WORKS ACT
- HEALTH AND SAFETY REGULATIONS
- GOOD PRACTICE

IT IS KNOWN THAT EXISTING UTILITY COMPANY UNDERGROUND SERVICES AND APPARATUS IS PRESENT WITHIN THE PROPOSED WORKS AREA THE CONTRACTOR SHOULD ALLOW FOR ALL NECESSARY INVESTIGATIVE WORK (CAT DETECTION, TRIAL HOLES, ETC.) TO DETERMINE ROUTE AND DEPTH OF ALL UNDERGROUND SERVICES TO AVOID DAMAGE AND PRESERVE SUPPLIES TO EXISTING DWELLINGS / PREMISES.