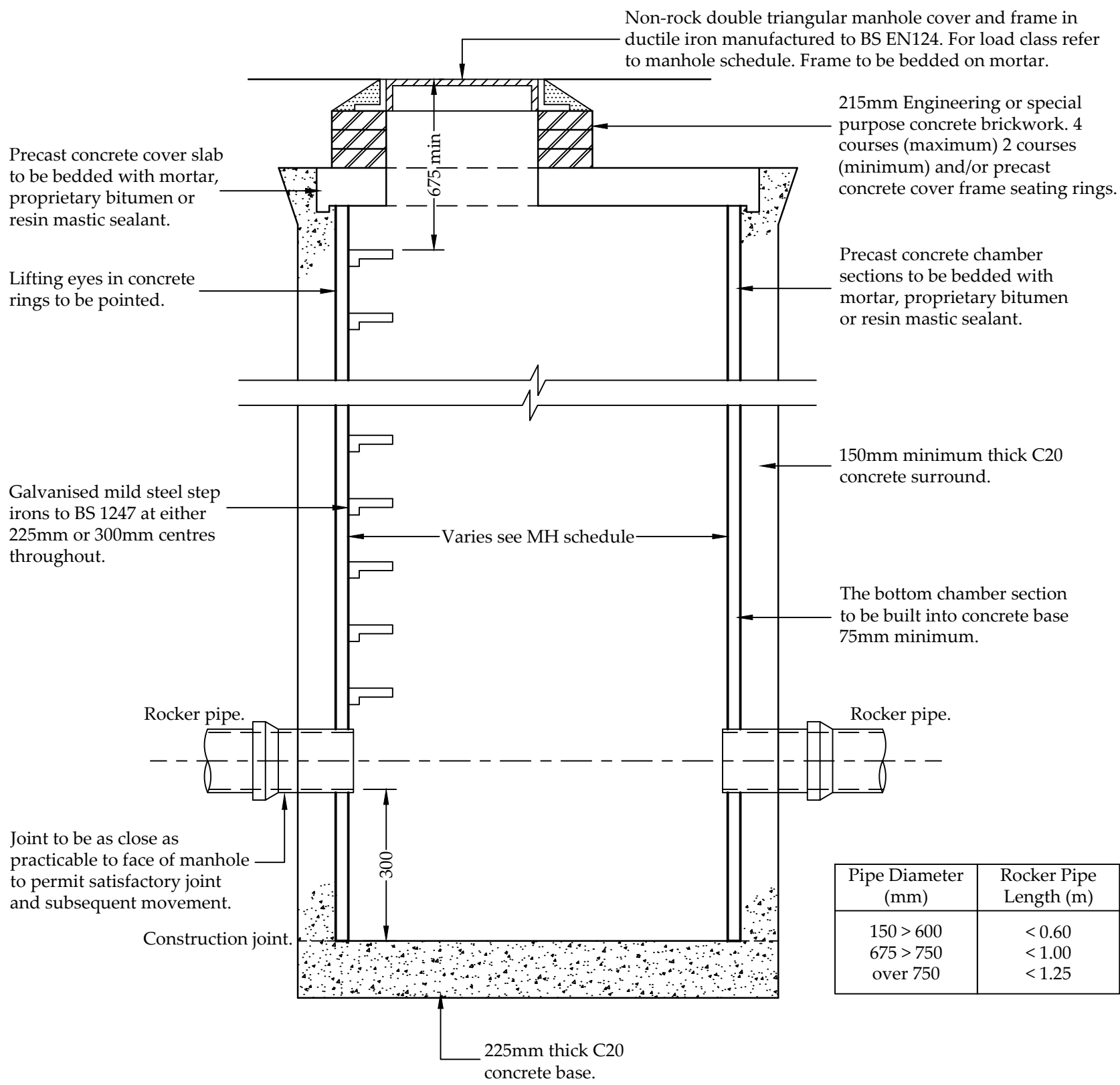
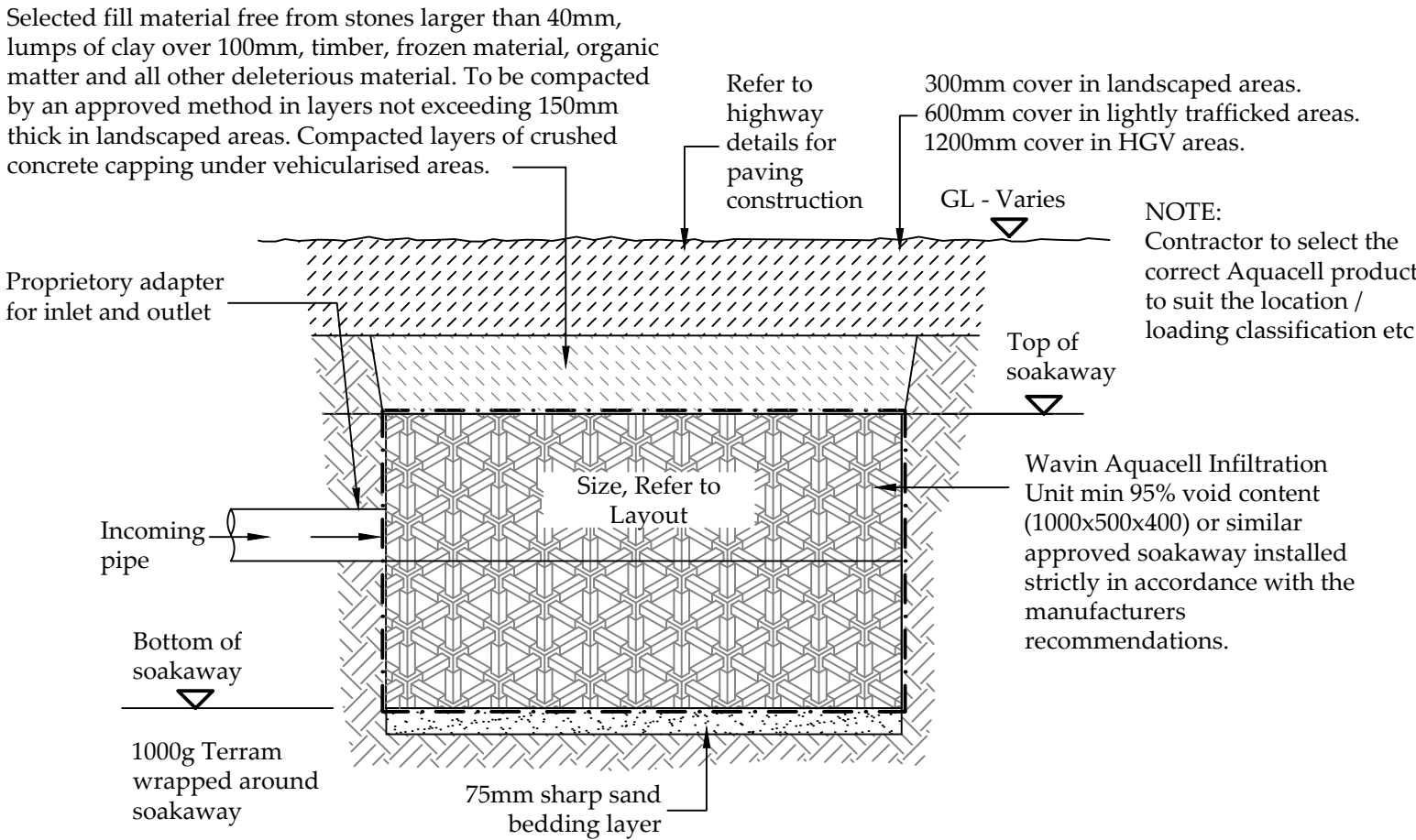




PC Ring Catchpit Manhole Detail



Aquacell / Soakaway Detail

- PRIVATE DRAINAGE NOTES**
- 3.1 All private drainage works to be in accordance with Part H of the current Building Regulations and BS 8301.
- 3.2 All private drainage to be either:-
PVCu to BS EN 1401-1 (BS 4660/5481) by Caradon, Marley or similar.
OR
Vitrified Clayware to BS 65 and BS EN 295.
OR
Concrete to BS 5911 and flexibly jointed.

The drainage design shown on this drawing has been based upon a PVCu drainage system.

- 3.3 All private drainage to be 100mm diameter unless noted otherwise. Gully laterals to be sized to suit gully outlets. Connections to public sewers to be 150mm dia unless noted otherwise.
- 3.4 Foundations adjacent to drain runs are to be constructed so that the difference between the formation level of the foundation and invert level of any drain must not exceed the horizontal distance minus 500mm.
- 3.5 Where foul and surface water sewers cross and there is less than 100mm clearance short lengths of both runs are to be encased in concrete.
- 3.6 All RWP, SVP and foul drainage positions are to be confirmed by the Architect.
- 3.7 Where RWP's are connected direct to drain, rodding access plates are to be provided.

SOAKAWAY NOTES

- 4.1 Site investigation report by Gemco Ref: 1873 has shown the infiltration rate to range between 1.4x10-5 > 5.0x10-5m/s. Soakaways have been designed using the lowest value of 1.4x10-5m/s to accord with BRE365 & Ciria Report 156 utilising this value.
- 4.2 Soakage tests (to BRE365) are to be undertaken at the location of each soakaway in order to confirm that the design infiltration rate is achieved. Any discrepancy in the infiltration rate must be reported immediately to Aventus Design Civils' Department.
- 4.3 All soakaways to be sited 5m minimum from any building or wall, existing or proposed, or any other soakaway.
- 4.4 No soakaway bases to penetrate water table level.
- 4.5 No soakaway to be constructed in contaminated ground.

Notes:

- 1.1 Do not scale from this drawing.
- 1.2 All dimensions are in m unless otherwise specified.
- 1.3 In case of any discrepancies in drawings or details refer to engineer for clarification. Unilateral decisions by the contractor will not be accepted.
- 1.4 This drawing is to be read in conjunction with all related Architects, Consultants & Sub-Contractors drawings and specifications.
- 1.5 The Contractor is to ensure that all design drawings and information are read concurrently and any discrepancies or omissions reported directly to Aventus Design.
- 1.6 The Contractor must check the levels of all existing drainage outfalls prior to construction of any drainage, unless otherwise agreed, to ensure the proposed design may be achieved. Any discrepancies must be reported immediately to Aventus Design.
- 1.7 Sulphates have been determined as class 1 (DS-1) for design purposes in accordance with BRE Special Digest 1 (2001). Buried Concrete to be in accordance with ACEC Site Class AC-1.
- 1.8 All adoptable highway works to be in accordance with the Local Authorities Specifications.
- 1.9 All adoptable drainage works to be in accordance with the Water Authorities standard guidelines for connections etc.
- 1.10 Formation to road/hardstanding to be proof rolled and any soft spots in subgrade of road/Hardstanding areas are to be excavated and replaced with well compacted sub-base or free draining granular material to Department of Transport Specification for Highway Works Part 2' Table 6/1 Class 1 (General Granular Fill) and compacted in accordance with Table 6/4.

CDM REGULATIONS 2015

Aventus Design have considered and where reasonably practicable avoided foreseeable risks in the preparation of the design shown on this and related drawings. Significant risks which remain and associated control measures are identified in the Risk Register and should be given particular attention by the main contractor on site.

RISKS RELATING TO THIS DRAWING:
RISK NUMBERS 6 - 9 on Risk Register

NOTE: The Risk Register records only those elements considered unusual, difficult to manage or outside the anticipated expertise of a competent contractor.

Drawing Status	PRELIMINARY ISSUE	
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Private Manhole Schedule

Rev A

Manhole Ref No.	Type of Manhole	Cover Level (approx)	Invert Level of Outlet Pipe	Approx Depth to catchpit invert	Approx Depth to catchpit base	Largest Pipe in Manhole (mm)	Internal size of Manhole	Cover Type		Remarks
								Clear Opening	Type	
S 1	PC RING	86.180	84.700	1.480	1.780	225	1200dia	600x600	D400	CATCHPIT 300mm SUMP
S 2	PC RING	86.320	84.530	1.790	2.090	225	1200dia	600x600	D400	CATCHPIT 300mm SUMP
S 3	PC RING	85.570	83.870	1.700	2.000	225	1200dia	600x600	D400	CATCHPIT 300mm SUMP
S 4	PC RING	84.250	82.550	1.700	2.000	225	1200dia	600x600	D400	CATCHPIT 300mm SUMP
S 5	PC RING	83.040	81.340	1.700	2.000	225	1200dia	600x600	D400	CATCHPIT 300mm SUMP
S 6	PC RING	82.950	81.650	1.300	1.600	225	1200dia	600x600	B125	CATCHPIT 300mm SUMP
S 7	PC RING	83.200	81.500	1.700	2.000	225	1200dia	600x600	B125	CATCHPIT 300mm SUMP
S 8	PC RING	83.350	81.400	1.950	2.250	225	1200dia	600x600	B125	CATCHPIT 300mm SUMP
S 9	PC RING	83.250	81.260	1.990	2.290	225	1200dia	600x600	B125	CATCHPIT 300mm SUMP

Soakaway Table											Rev A	
Soakaway Number / Type	Soakaway Type	Drained Area A _D (m ²)	Length (m)	Width (m) if PIT Ring Dia	Soakaway Base Area A _B (m ²)	Effective Depth of soakaway (m)	Soakaway Ground Level (m)	Soakaway Base Level (m)	Soakaway Depth (m)	Actual Storage Volume (m ³)	Volume/ Drained Area (mm)	
A	CRATE	130	2.50	2.00	5.0	1.600	Varies	Varies	2.400	7.6	58	
B	CRATE	110	5.00	1.00	5.0	1.600	Varies	Varies	2.400	7.6	69	
C	CRATE	170	9.00	1.00	9.0	1.200	Varies	Varies	2.400	10.3	60	
D	CRATE	65	2.00	2.00	4.0	1.200	Varies	Varies	2.400	4.6	70	
E	CRATE	165	3.50	2.00	7.0	1.600	Varies	Varies	2.400	10.6	64	
F	CRATE	250	3.50	3.00	10.5	1.600	Varies	Varies	2.400	16.0	64	
SA1	CRATE	2030	15.00	6.00	90.0	1.600	83.300	80.700	2.600	136.8	67	
Voids Ratio			0.95		Average						65	
Infiltration Coefficient			1.40E-05		m/s		H1402/ST/01					

A	06.12.23	Schedules updated.	SU	-
REV.	DATE	DESCRIPTION	CHK	APP
Aventus Design Ltd Unit 5 - Leaches Farm Business Centre Bicester Road Kingswood Aylesbury Bucks HP18 0RF Tel: 01296 770066				
Client: Cala Homes				
Site: Oughtonhead Lane, Hitchin, Herts. SG5 2NA				
Title: Private Drainage Details 2 of 2				
Drawing no. BA00378-C22			Aventus Ref. H1402	
Issue: A	Scale: 1:20 @ A1		Checked: -	Date: -
	Dwn: S.U.	Date: Oct '23	Approve: -	Date: -