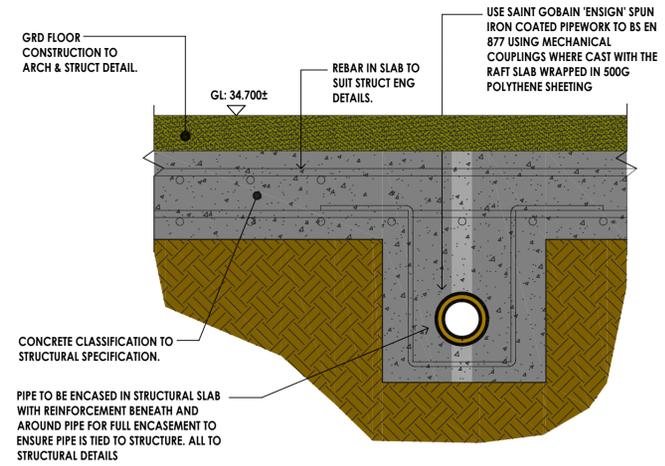
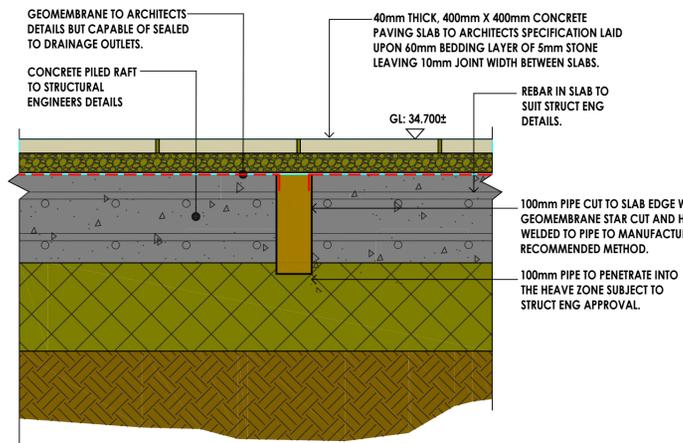


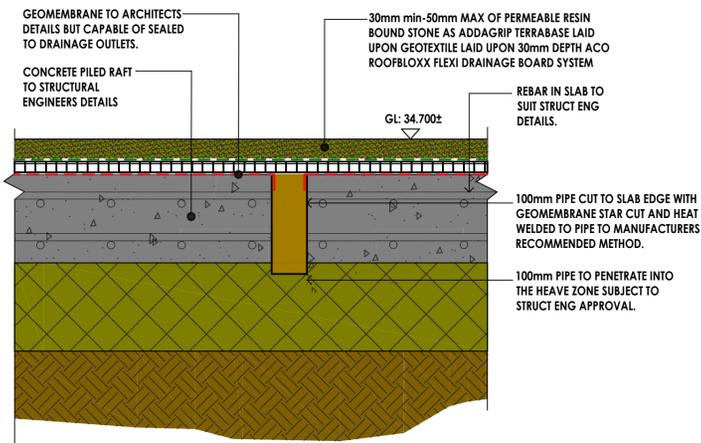
DETAIL No. 1 - INTERNAL DRAIN POINT UNDER RAFT



DETAIL No. 2 - NEW PIPE ENCASEMENT IN CONCRETE RAFT SLAB

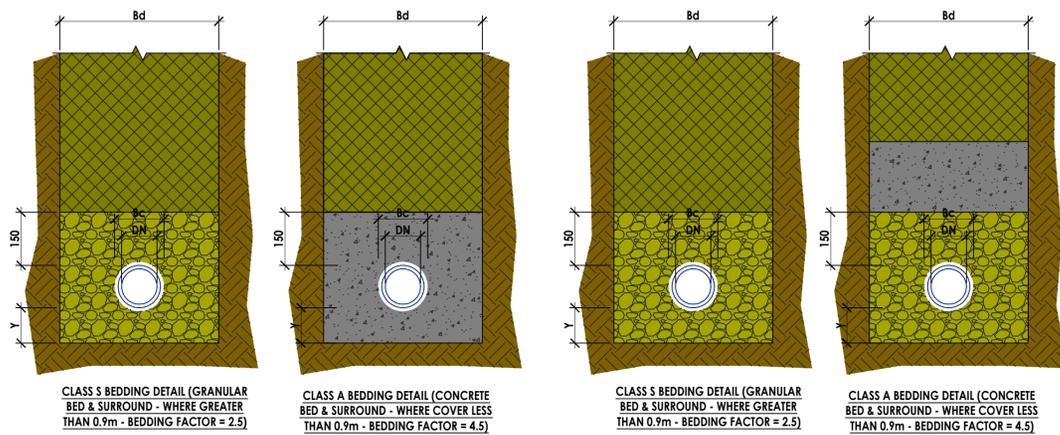


DETAIL No. 2A - PERMEABLE CONCRETE PAVING SLAB TO SUIT PLANNING APPLICATION



DETAIL No. 2B - PERMEABLE RESIN BOUND GRAVEL SURFACE (RECOMMENDED)

This drawing is copyright and remains in the ownership of Simon Dent Associates (SDA)  
 This drawing should be read in conjunction with the design team's relevant documents, drawings & details.  
 Existing public & private utility services and drainage locations shown have been derived from non-intrusive survey techniques. Their location is not accurate and the contractor must satisfy himself using open excavation where the location of such plant and apparatus is critical in construction.  
 If the contractor has constructed from this drawing without necessary approvals from Local Planning Authorities, Building Control, Sewerage Undertakers, Environment Agency etc then any abortive work shall be at his own financial risk and not the responsibility of SDA.  
 If the contractor has constructed from this drawing whilst the drawing remains 'PRELIMINARY' status, then any abortive work shall be at his own financial risk and not the responsibility of SDA.  
 The contractor should NOT construct any works should there be any doubt with information shown from any of the source. ALWAYS USE GIVEN DIMENSIONS ONLY. ALWAYS ASK IF IN DOUBT.  
**ALWAYS PRINT THIS DRAWING IN COLOUR**



DETAIL No. 4A - EXTERNAL DRAINAGE RIGID PIPE BEDDING DETAILS - VITRIFIED CLAYWARE & CONCRETE PIPES

DETAIL No. 4B - EXTERNAL DRAINAGE FLEXIBLE PIPE BEDDING DETAILS - PLASTIC & DUCTILE IRON PIPES

NOMINAL INTERNAL DIA DN (mm)	ASSUMED EXTERNAL DIA Bc (mm)	ASSUMED MAX. PERMISSIBLE TRENCH WIDTH Bd (mm)	DIMENSION 'Y' FOR UNIFORM SOILS (mm)
100	130	550	150
150	190	600	150

NOMINAL MAXIMUM AGGREGATE SIZE OF STONE (mm) TO BS 882 GRADING		
PIPE BORE (mm)	AGGREGATE TYPE	GRANULAR BEDDING CLASS 'B' or 'S'
100	SINGLE SIZE GRADED	10 N/A
150	SINGLE SIZE GRADED	10 or 14 5 - 14

- BACKFILL WITH APPROVED AS DUG SELECTED MATERIAL WELL COMPACTED IN NO LESS THAN 200mm THICK LAYERS - REMOVE ALL VEGETATION AND STONES AND DEBRIS.
- PIPE BEDDING GRANULAR MATERIAL - SEE TABLE
- 150mm THICK GRADE GEN1 MASS CONCRETE SURROUND

- NOTES:
- 25mm EXPANSION JOINT MATERIAL TO FULL AREA OF CONCRETE BED & SURROUND AT ALL PIPE JOINTS
  - FINAL FORMATION TO BE DISHD TO GIVE FULL DEPTH OF CONCRETE BED AROUND PIPE COLLAR.
  - WHEN USING CONCRETE REFER TO THE SOIL REPORT FOR SULPHATE CONTENT.
  - ALL TRENCH FILL MATERIAL MUST BE INERT.
  - CONTRACTOR TO SUPPLY GRADING CERTIFICATES FOR ALL GRANULAR MATERIAL TO PROJECT MANAGER FOR APPROVAL.

25mm EXPANSION JOINT MATERIAL TO FULL AREA OF CONCRETE BED & SURROUND AT ALL PIPE JOINTS  
 FINAL FORMATION TO BE DISHD TO GIVE FULL DEPTH OF CONCRETE BED AROUND PIPE COLLAR

P2	Details updated to suit permeable pavement.	06-08-24	SAD
P1	PRELIMINARY ISSUE	08-07-24	SAD

Rev Description Date Chkd

**SIMON DENT ASSOCIATES**  
 Civil - Infrastructure - SuDS - Flood Risk - Drainage - Rainwater - Sanitation - Public Health  
 Consulting Engineers

Hove Office  
 Gosport Office

simondent@live.co.uk  
 0754 658 3150

Client: Mitchells and Butler  
 Project: Edinboro Castle, 57 Mornington Terrace, London NW1 7RU  
 Drawing title: Drainage details  
 Drawing status: **PRELIMINARY**

Project no	Scales	Drawing no	Rev
1890	A1 - 1:10 A3 - 1:20	200	P2