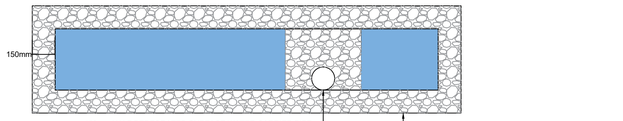
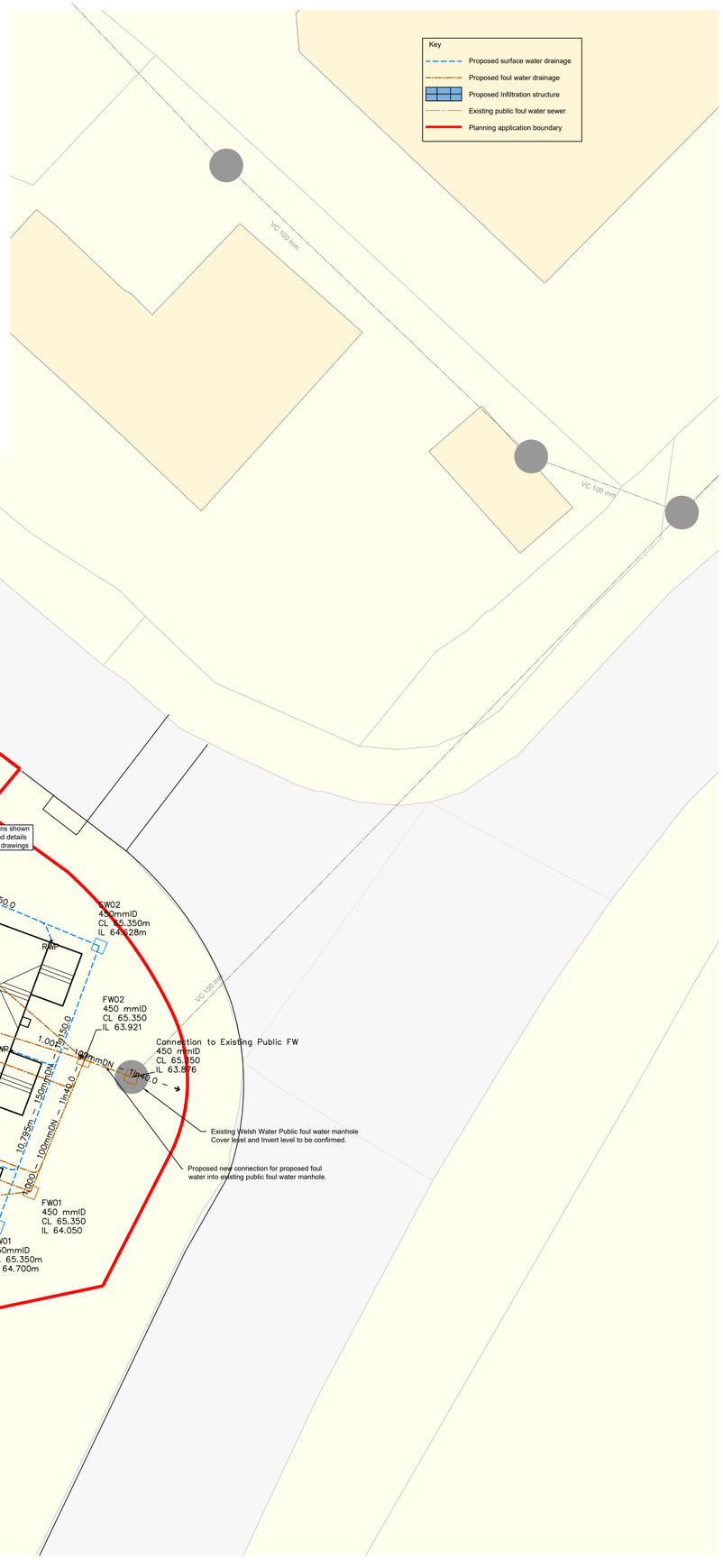


Section A-A - Through Cellular Infiltration Structure
Scale 1:20



Section B-B - Through Cellular Infiltration Structure
Scale 1:20



1. All levels are in metres above ordnance datum (AOD) unless otherwise stated.
2. This drawing is to be read in conjunction with all other related drawings and specifications.
3. The drainage contractor is responsible for obtaining all approvals for any sewerage connection prior to construction of any connection into a public sewer.
4. The engineer is to be notified of any discrepancies to the details shown on the drawings and any unrecorded connections not shown on the drawings.
5. Contractor to verify the location of existing public services, and invert levels of connection points prior to commencement of any construction. Any damage occurred to any public utility services during construction works shall be reported immediately to the relevant utility company.
6. Drainage layout is indicative only. Final design to be agreed with the relevant authorities all drawings issued are set permanently and not for construction. Should the drainage layout be subject to change, due to any point by agreement during the construction period, the contractor shall be responsible for any costs incurred to their own risk.
7. To protect the drainage system from construction site activities, the contractor's attention is drawn to the necessity of providing adequate protection to the existing drainage system at the site, prior to the commencement of the works, and to maintain such protection throughout the period of the contract. Any damage caused to the drainage system during the construction period shall be repaired immediately by the contractor at his own cost.
8. The design is based on the site information available on the date of issue from the client and other consultants. The contractor is responsible for checking and verifying that the information is correct and for any changes resulting from updates to the available information from others.
9. Pipe diameters are minimum unless otherwise stated.
   9.1. Pipework to be laid at gradients shown on the drawings. Where this cannot be achieved, the lowest pipe shall be laid to the lowest gradient possible but not less than 1:200mm each side of the crowns point. The extent of the concrete surround to pipework shall be as detailed on the drawings and where not detailed should be in accordance with the standard details for pipe bed and surround in Sewers for Adoption.
   9.2. Concrete mixes indicated on this drawing are designated mixes conforming to BS 8500-1:2006. All concrete to be site/plant-batched. Contractor should ensure that all concrete is adequately compacted and cured in accordance with BS 8500-2:2006.
   9.3. All private manholes and inspection chambers to be constructed in accordance with the recommendations of Sewers for Adoption 7th Edition & "Building Regulations 2010 Approved Document H".
   9.4. All manholes and inspection chambers to be adopted to be constructed in accordance with the recommendations of Sewers for Adoption 7th Edition & "Building Regulations 2010 Approved Document H".
   9.5. All road gully pipe work equal to or less than 150mmDN unless otherwise specified.
   9.6. All pipework to be laid in accordance with Sewers for Adoption 7th Edition.
10. Land drains exercise to comply with BS EN 1401.
   10.1. Land drains to be laid in accordance with Sewers for Adoption 7th Edition.
   10.2. Land drains B125 - Footways, pedestrian areas etc.
   10.3. Land drains B150 - Carriageways of roads (Heavy duty).
   10.4. Land drains D400 - Carriageways of roads (Heavy duty).
   10.5. Land drains F900 - Areas supporting particularly high wheel loads.
   10.6. Land drains F900 - Areas imposing particularly high wheel loads.
11. All foul connections to be fully trapped and work from connection to a branch. All new drains to have 100mmDN cast iron access covers and frames.
12. All foul connections to be fully trapped and work from connection to a branch. All new drains to have 100mmDN cast iron access covers and frames.
13. Rainwater down pipes are to connect to a drain via a reed bend.
14. Where drainage is considered a 9" trap must be provided above proposed foul slab level.
15. Minimum depth of cover to the crown of gravity pipes without protection should be 1200mm under roads and 900mm under gardens and open spaces (Sewers for Adoption Appendix C).
   15.1. Minimum depth of cover and stiffness without any possibility of vehicular access.
   15.2. Domestic driveway, parking areas and yards with height restrictions to prevent entry by vehicles with a gross weight in excess of 2.5 tonnes.
   15.3. Domestic driveway, parking areas and yards with height restrictions to prevent access by vehicles with a gross weight in excess of 7.5 tonnes.
   15.4. Roads, highways and public car parks with unrestricted access to vehicles with a gross weight in excess of 7.5 tonnes.
   15.5. Roads, highways and public car parks with unrestricted access to vehicles with a gross weight in excess of 7.5 tonnes.
16. Backfill to drainage trenches under carriageways to be Type 1 sub-base material from rockfall, organic matter, frozen soil, clay lumps and large stones in accordance with Specification for Highway Works Clause 803.
17. A flexible joint shall be provided as close as is feasible to the outside face of any structure into which a pipe is built, connection with the satisfactory performance of the joint, only to be removed once the final cleaning of the model.
   17.1. 150x50mm, 150mm Long nominal size
   17.2. 100x50mm, 100mm Long nominal size
   17.3. 75 trimZM and above - 125mm Long socket pipe
18. Where pipes are shown to be laid in trenches, Construction and materials of private surface, foul & combined sewers to be in accordance with the standard details for pipe bed and surround Document H of "BS EN 752:2017 Drain and Sewer Systems Outside Buildings".
19. Construction and materials of public surface, foul & combined sewers to be in accordance with the standard details for pipe bed and surround Sewers for Adoption Appendix C7 and in accordance with local sewerage undertaker requirements. Pipework to be laid at gradients shown on the drawings.
20. All private manholes and inspection chambers to be constructed in accordance with the recommendations of Sewers for Adoption 7th Edition & "Building Regulations 2010 Approved Document H".
21. All manholes and inspection chambers to be adopted to be constructed in accordance with the recommendations of Sewers for Adoption 7th Edition & "Building Regulations 2010 Approved Document H".
22. CCTV Survey of all the drainage should be carried out on completion of the building works and passed on to the client.
23. Pre-cast concrete cover slabs to be used where necessary to form new covers and to suit any new levels and surfacing where required.

Preliminary

Revisions
P01 - 20th May 2025 - First issue

Bower Edleston Architects

Land Adjacent to Wilmayne, Penley

Drawing Scale - 1:100 at A1

Proposed Drainage Layout

D-0501

00020-SC-XX-XX-DR-D-0501

STREAMLINE CONSULTANTS
WASTEWATER & DRAINAGE SOLUTIONS