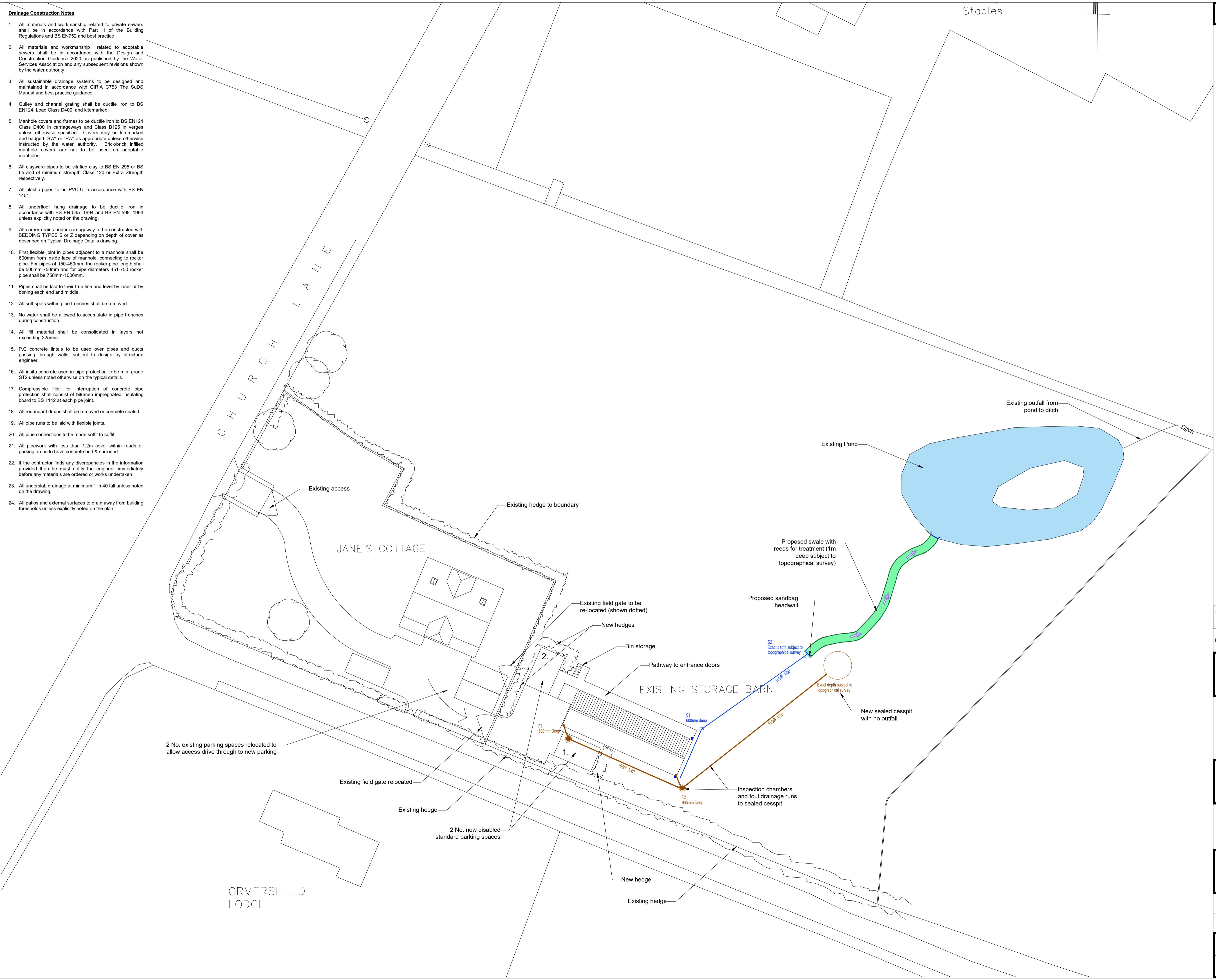


Drainage Construction Notes

- All materials and workmanship related to private sewers shall be in accordance with Part H of the Building Regulations and BS EN752 and best practice
- All materials and workmanship related to adoptable sewers shall be in accordance with the Design and Construction Guidance 2020 as published by the Water Services Association and any subsequent revisions shown by the water authority
- All sustainable drainage systems to be designed and maintained in accordance with CIRIA C753 The SuDS Manual and best practice guidance.
- Gully and channel grating shall be ductile iron to BS EN124, Load Class D400, and kitemarked.
- Manhole covers and frames to be ductile iron to BS EN124 Class D400 in carriageways and Class B125 in verges unless otherwise specified. Covers may be kitemarked and badged "SW" or "FW" as appropriate unless otherwise instructed by the water authority. Brick/brick infilled manhole covers are not to be used on adoptable manholes.
- All clayware pipes to be vitrified clay to BS EN 295 or BS 65 and of minimum strength Class 120 or Extra Strength respectively.
- All plastic pipes to be PVC-U in accordance with BS EN 1401.
- All underfloor hung drainage to be ductile iron in accordance with BS EN 545: 1994 and BS EN 598: 1994 unless explicitly noted on the drawing.
- All carrier drains under carriageway to be constructed with BEDDING TYPES S or Z depending on depth of cover as described on Typical Drainage Details drawing.
- First flexible joint in pipes adjacent to a manhole shall be 600mm from inside face of manhole, connecting to rocker pipe. For pipes of 150-450mm, the rocker pipe length shall be 500mm-750mm and for pipe diameters 451-750 rocker pipe shall be 750mm-1000mm.
- Pipes shall be laid to their true line and level by laser or by boning each end and middle.
- All soft spots within pipe trenches shall be removed.
- No water shall be allowed to accumulate in pipe trenches during construction.
- All fill material shall be consolidated in layers not exceeding 225mm.
- P.C concrete lintels to be used over pipes and ducts passing through walls, subject to design by structural engineer.
- All in situ concrete used in pipe protection to be min. grade ST2 unless noted otherwise on the typical details.
- Compressible filler for interruption of concrete pipe protection shall consist of bitumen impregnated insulating board to BS 1142 at each pipe joint.
- All redundant drains shall be removed or concrete sealed.
- All pipe runs to be laid with flexible joints.
- All pipe connections to be made soffit to soffit.
- All pipework with less than 1.2m cover within roads or parking areas to have concrete bed & surround.
- If the contractor finds any discrepancies in the information provided then he must notify the engineer immediately before any materials are ordered or works undertaken
- All underslab drainage at minimum 1 in 40 fall unless noted on the drawing.
- All patios and external surfaces to drain away from building thresholds unless explicitly noted on the plan.

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P1	INITIAL ISSUE.
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Drawing
Drainage Layout

Drawn	AS	Date	Dec 2022
Patrick Parsons Project No.	11336	Scale	@ A1 1:200

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