

1. This drawing is to be read in conjunction with all relevant architects, engineers and specialist sub-contractors drawings and the specification.

14. Where pipelines cross, each is to be surrounded with grade ST4 mass concrete for a distance not less than 1.0m centred on the crossing point. Length of surround to be extended as necessary to within 150mm of the next nearest flexible joints.

15. For private drainage, concrete protection is to be provided where the effective cover to the crown of the pipe(s) is less than 1.2m in trafficked areas and 0.6m in soft landscaped or pedestrianised areas.

16. The contractor is to ensure that protective measures are taken to ensure that drainage pipework and fittings are not damaged by site traffic prior to oversite filling operations being completed around buildings.

17. The top run of each private foul drainage network is to be laid to falls no slacker than 1:40. the head of each run is to be vented to atmosphere in accordance with approved document H.

18. All surface water drainage to be min 100mm dia, laid at a gradient no slacker than 1/80. And all foul water drainage to be min 100mm dia. unless stated otherwise.

19. The contractor is to ensure that all pipework connections are arranged to direct flows down or into the main channel in the direction of the main flow. Where necessary 3/4 bends are to be used on oblique connections inside the manhole benching where sufficient room exists or the pipelines or oblique connections are arranged outside the chamber to be able to divert flows down the main channel. Connections brought in perpendicular to the main channel are not acceptable. Where possible the main channel flow shall be from any connections with WC's to ensure a flush through the main channel is achieved.

20. The contractor is to ensure that when preformed polypropylene manhole bases are used that they are orientated such that the main flow is through the main channel of the base. this should be achieved by incorporating long radius bends outside of the manhole.

21. The contractors attention is drawn to the need to ensure that any trenches excavated through previously compacted filled areas, in particular under the building footprint and immediately around the outside, are re-compacted to ensure localised differential settlement does not occur.

22. Where new connections are to be made into existing manholes or sewers, all invert levels, pipe orientation and sizes should be checked on-site prior to the commencement of the works, with any variance reported to the engineer once identified. Where new connections are to be made either on or off-site, the contractor is to check the line and level of any existing services / mains, to ensure that no clashes exist prior to the works commencing.

23. Porous paving surface finish 'to the architects spec'. Any alteration to the extents of the porous paving may have an adverse affect upon the Surface water drainage design and must therefore be discussed with the engineer.

24. Modular crate attenuation system(s) to be "Wavin Aquacell" or "Polypipe Polystorm". Any other system offered will need to be provided with a separate warranty for design and installation.

P01	15.11.21	Drawn
Rev.	Date	Description

Client
RICHMOND MOTOR GROUP

Project Title

Saltbox

Construction Details

Sheet 4 of 5

For Information

Originator No.	Rev by	Chk by	Scale
114378	DB	PW	1:125 @A1

PROJECT | ORIGINATOR | ZONE | LEVEL | TYPE | ROLE | NO. Revision
114378-CAL-XX-XX-DR-D-0503 T1



SCALE = 1:20

Notes:

1. This detail is only an indicative arrangement. The final pump depth and layout is subject to specialist design.
2. Package pump station to be CDP as a specialist design.
3. Size of chamber to suit specialist design.
4. All dimensions to suit specialist design.
5. Station to have dual pumps.
6. Pumps to be explosion proof with intrinsically safe controls in pump station.
7. Allow for a suitable power supply and ducts to carry cables to and from control panel.
8. Vent pipe to position agreed with the client and architect.



SCALE = 1:20

Notes

1. Ducts shown diagrammatically and are to be laid on the most direct line to suit the site and the services being carried, avoiding any acute changes in direction.
2. Maximum duct length to be 4.0m
3. This is a typical arrangement only, the final kiosk detail is subject to specialist design.
4. Kiosk to be sized by specialist.