Control Manhole with Vortex Flow Control Unit to Limit Flows to 12.0 l/s @ 1.5m Head (dia. 151mm). Hydro Brake type Optimum or similar approved.

Confirm head of System within site to Abandon Existing Combined Pipe.

Proposed Road 6 to Tie into Existing Clock Tower Drive beyond Plots 107/108.

Existing Clock Tower Drive SW Pipe (Presumed Highway Drain) connected vertically to untraced Existing Pipe. Highway Drain to be Connected to Proposed SW Network.

225mmØ Pipe from Proposed Aldi Development designed to pass a flow of 16.8 l/s. Refer to SWF Consulting drawing no. 8285/D/002 for proposed SW Drainage Design.

Control Manhole with Vortex Flow Control Unit to Limit Flows to 41.9 l/s @ 1.78m Head (dia. 263mm). Hydro Brake type Optimum or similar approved.

Proposed Drainage Areas 1A/1B to connect to Existing 525mm Dia Combined Pipe. Separate SW & Foul systems with a Combined connection to Existing Combined Manhole.

Limit of Existing Road.

Existing Road to be Reconstructed to Adoptable Standards.

Existing Car park to remain as Car Park. Refer to SWF Consulting drawing no. 8285/D/002 for SW Drainage Design.

Existing Junction to be Reconstructed to Adoptable Standards.

S278 Works to Existing Junction to be Agreed with Liverpool City Council.

Proposed Drainage Area 2 to connect to Existing 525mm Dia Combined Pipe. SW connection to Existing Combined Manhole.

Control Manhole with Vortex Flow Control Unit to Limit Flows to 7.0 l/s @ 0.95m Head (dia. 124mm). Hydro Brake type Optimum or similar approved.

MERSEYCARE TIME PROJECT. RECENTLY COMPLETED.

Works to Existing Footway associated with NHS development to be confirmed. Survey to be updated accordingly.

Redundant Vehicular Access to be kerbed across and existing grass verge extended.

Existing Traffic Calming to be Assessed by a representative of Liverpool City Council.

Existing Gullies in Existing Access Road to be retained.

Condition Survey of Existing Road, Street Lighting & Drainage to be undertaken in conjunction with Liverpool CC & remedial measures agreed.

Existing Street Lighting to be Assessed by a representative of

NOTES

1. Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
2. All sewers shall be designed & constructed in accordance with Sewers for Adoption 6th Edition and United Utilities Details & Guidelines.
3. The minimum gravity pipe diameter under adoptable highways shall be 150mm
4. It is the responsibility of the Contractor to verify all information given with regards to existing services and drainage connections etc. prior to commencing the works. The rates shall include for hand dig around services where necessary. The Contractor shall adhere to the CDM Regulations at all times
5. The outsides of all sewers shall be a minimum of 1.0m from kerb lines and the outside of manholes shall be a minimum of 0.5m from kerb lines
6. Existing flows in watercourses, sewers and land drains shall be maintained at all times
7. Only trained personnel shall be permitted to enter confined spaces
8. All materials to bear the relevant B.S. Kitemark and comply fully with the specifications. All concrete & concrete products must use Sulphate resistant cement (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur to withstand a class 3 condition).
9. All opening notices etc. as required under highways acts etc. are to be obtained prior to commencement of works. All works are to be inspected by L.A., NHBC or the Network Operator as applicable.
10. Where "Ultra Rib" UPVC pipes (or similar approved) are used in adoptable drainage they shall still be handled and laid in accordance with the specification and guidance issued by the High Performance Pipe Association.
11. A Class S Bed and surround must be used for such pipes. Trench backfill in highways to within 1m of highway shall, as directed by the Highway Authority be a suitable granular material all in accordance with Sewers for Adoption cl. 4.3.4.
12. Slab levels shall not be varied without reference to the Engineer for guidance
13. Domestic Drainage shall be to Building Regulations Approved Document H. 100mm U.P.V.C. pipes laid to the following minimum falls unless otherwise shown.

	Foul	S.W.
Head Run	1 in 40	1 in 60
Elsewhere	1 in 80	1 in 100

14. All works to be in accordance with Liverpool City Council's Standard Details , and as agreed with Liverpool City Council's appointed representative.
15. All Adoptable Main Drainage is to be subject to a Section 104 Agreement between the Developer and United Utilities Plc.

KEY

S.W. Foul

- Proposed sewer
- 1200mm dia I.C
- 31.15 Proposed Plot Level
- Existing Foul sewer
- Existing S.W. sewer
- Existing sewers to be abandoned & grouted
- Proposed highway gully
- Tactile Paving & Dropped Kerb
- Flat Top Road Hump

North Point

Quality Ass.
UKAS 005 Quality Assurance ISO 9001:2008 SGS Certificate GB02/54539

Project: Rice Lane Liverpool

Client: Mulbury

Title: Highways & Drainage Layout (Sheet 2 of 2)

Original Size: A1

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Drawing No. 30131/1/2 | Revision