



NOTES

- Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
- All sewers shall be designed & constructed in accordance with Sewers for Adoption 6th Edition and United Utilities Details & Guidelines.
- The minimum gravity pipe diameter under adoptable highways shall be 150mm.
- 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.
- 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.
- Existing flows in watercourses, sewers and land drains shall be maintained at all times.
- Only trained personnel shall be permitted to enter confined spaces.
- 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).
- 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.
- 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.
- A Class S Bed and surround must be used for such pipes where cover is in excess 1.2m. Where cover less than 1.2m type 2 bed and surround should be used (Refer to Dwg No. 30021/4/2A) for full details. 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.
- Slab levels shall not be varied without reference to the Engineer for guidance.
- 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
- All works to be in accordance with Liverpool City Council's / AMEY Consulting Standard Details, and as agreed with Liverpool City Council's appointed representative.
- All Adoptable Main Drainage is to be subject to a Section 104 Agreement between the Developer and United Utilities Plc.

KEY

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|------|------|--|
| S.W. | Foul | |
| | | Proposed Sewer |
| | | 1200mm dia I.C. |
| | | Proposed Plot Level |
| | | Existing Foul sewer |
| | | Existing S.W. sewer |
| | | Existing sewer to be abandoned & grouted |
| | | Proposed highway gully |
| | | Tactile Paving & Dropped Kerb |

REVISIONS

REV.	DATE	INT.	DETAILS
A	060515	ME	DRAWING UPDATED WITH DRAG OUT LEVELS.
B	290615	KT	Updated to latest layout

 North Point Quality Ass. UKAS 005 Quality Assurance ISO 9001:2008 SGS Certificate GB02/54539	Project Newsham Gardens Prescot Road, Liverpool	 Ironsides Farrar Environmental Consultants Engineers Planners Civil Engineers Landscape Architects Graphic Design 3 Worsley Court, MANCHESTER M28 3NU Tel: 0161 703 8801 Fax: 0161 703 8279 manchester@ironsidesfarrar.com EDINBURGH BELLSHILL		
	Client Bellway Homes Limited North West Division			
	Title Highways and Drainage Layout			
	Original Site A1			
Copyright Acknowledgement Ordnance Survey © Crown Copyright. All rights reserved. Licence No. AL100017966.	Drawn DP Date APR 2015	Checked By ME Scale 1:500	Drawing No. 30077/1	Revision B