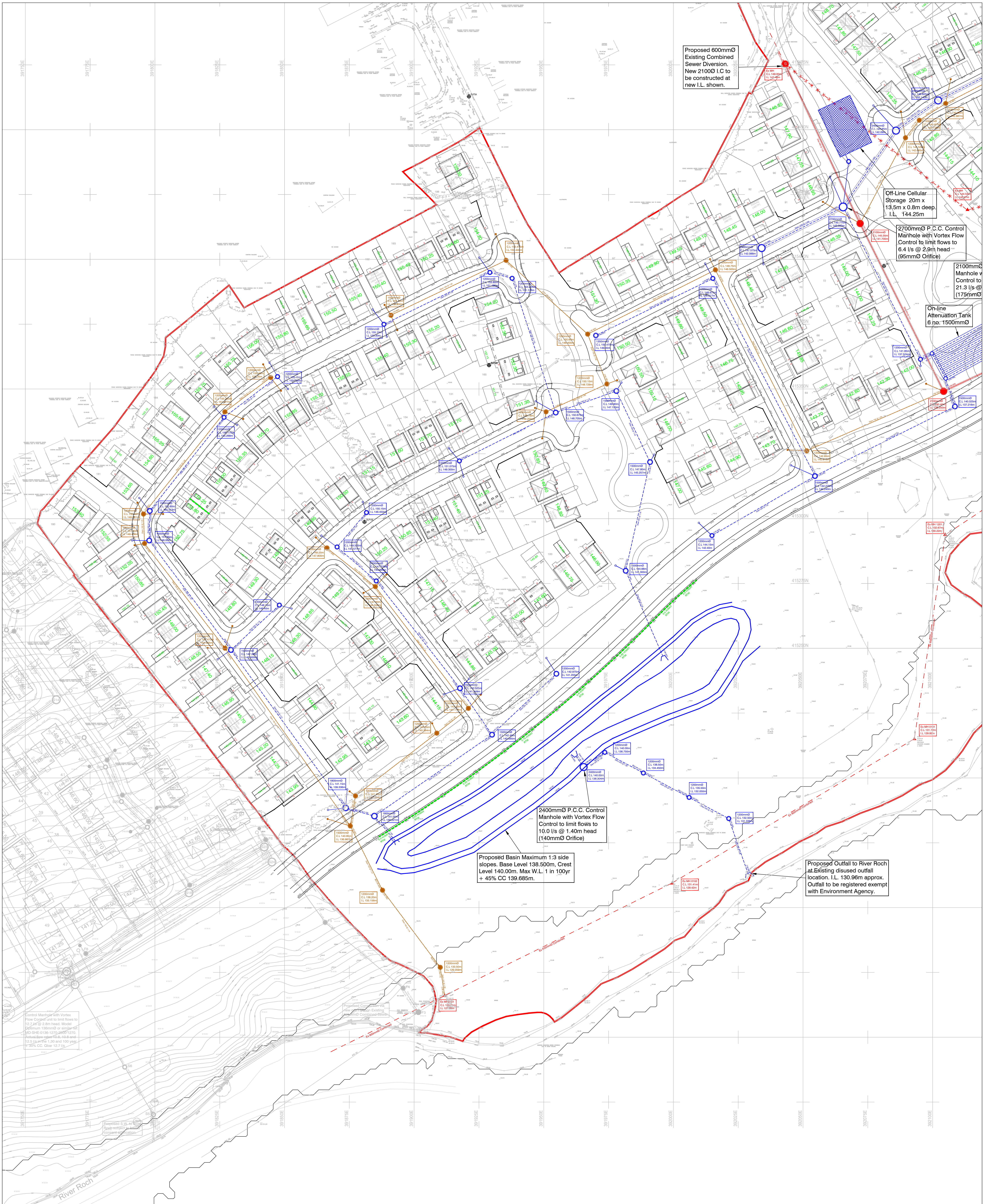




NOTES

- 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 outfalls 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. 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 Lancashire C.C. Standard Details, and as agreed with Lancashire C.C. 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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| | Highway Drain | |
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O 12/10/22 RDE Drainage amended to suit latest climate change allowances.	
N 07/09/22 DA Latest development layout added. FFLs updated to suit.	
M 20/07/21 DA Latest development layout added. FFLs updated to suit.	
L 16/06/22 ME Drainage Design & FFLs updated to suit latest development layout.	
K 25/04/22 ME Drainage Design & FFLs updated to suit latest development layout.	
J 09/03/22 ME Drainage FFLs corrected on plans 166-171 as requested by Client.	
I 01/03/22 ME Highway Retaining Wall updated to suit Road 1 Design.	
H 21/01/22 ME Drainage Design Updated to suit latest development layout.	
G 11/06/21 ME Drainage Design Updated to suit latest development layout.	
F 18/03/21 ME Drainage Design Updated to suit latest development layout.	
E 04/05/20 SG Updated to include watercourse on eastern boundary.	
D 12/07/19 SG Updated to latest development layout.	
C 28/01/19 KD Manhole details added.	
B 10/12/18 RDE Indicative retaining walls shown (above 0.8m).	
A 07/12/18 RDE Updated to latest Architects layout.	
Rev	Date
Drawing Revisions	
North Point	Project
Smithy Bridge Rochdale	
Client	Taylor Wimpey (Manchester)
Quality Ass.	
UKAS 005 Quality Assurance ISO 9001:2008 9338 Certificate 0882946309	
Drawn	Highways & Drainage Layout Sheet 2 of 2
Checked By	SRG
Date	July 18
Scale	1:500
Drawing No.	30329/1/2
Revision	O

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