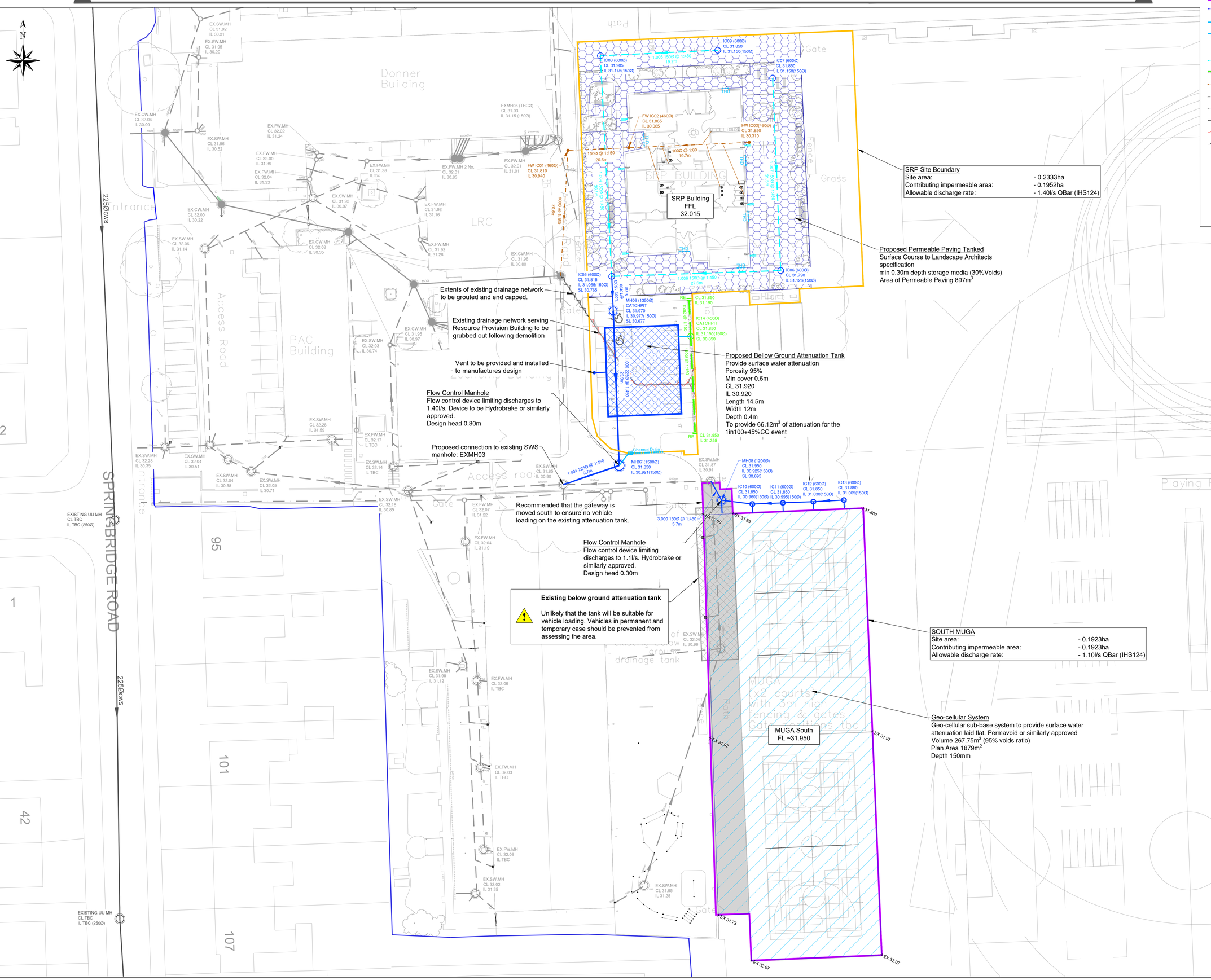
A0

See Sheet 2 - RLL Drawing 23693-RLL-24-XX-DR-C-2101



KEY:

- SRP Building & Parking Drainage Area
- North MUGA Drainage Area
- South MUGA Drainage Area
- Proposed Private Surface Water Drainage
- THD — Proposed Private Threshold Drain to architects detail
- Channel Drain — Proposed Private Channel Drain
- RWP — Rain Water Pipe to discharge to a Bottle Gully and Permavoid Rainwater Diffuser Unit
- Proposed Perforated Pipe wrapped in geotextile
- Proposed Private Lined Filter Drain
- Proposed Private Foul Water Drainage
- Existing Private Surface Water Drainage
- Existing Private Foul Water Drainage
- Existing Combined Public UU Sewer
- Existing Drainage Infrastructure to be Grubbed Out
- Existing Drainage Infrastructure to be Abandoned, Grouted and End Capped
- Proposed Permeable Paving with min 450mm deep subbase with 30% voids ratio. Tanked
- Proposed Tanked Permeable Permavoid 150mm Geo-cellular System
- Proposed Below Ground Attenuation Tank
- Existing Below Ground Attenuation Tank

GENERAL NOTES

1. DO NOT SCALE.
2. This drawing is to be read in conjunction with all other relevant drawings and details.
3. Should there be any conflict between the details indicated on this drawing and those on other drawings the Engineer should be informed PRIOR to construction on site.
4. Until technical approval has been obtained from the relevant Authority, it should be understood that all drawings issued are Preliminary and NOT for construction. sinoun the Contractor commence site works prior to such approval being provided it is entirely at their own risk.
5. Sketch proposals are for illustrative purposes only and as such are subject to detailed site investigation including ground conditions, contaminants, drainage, design and planning / density negotiations..
6. All dimensions are in metres unless otherwise stated.
7. The Rodgers Leask Designer's Risk Assessment(s) for this project must be reviewed PRIOR to the commencement of any works on site.
11. Site layout shown based on CoARC Collaborative Architects Proposed site plan drawing ref WHGS-COA-XX-00-D-A-0020 Rev P07, dated 19/02/25.
12. Topographical survey shown based on Cryfield Survey Ltd drawing ref 1157-13, dated October 2022.

SPECIFICATION NOTES

1. The following types of pipe may be used unless noted or agreed otherwise;
   - Pipes up to 600mm diameter to be Structured Walled to BS EN 13476, Polypropylene to BS EN 1852 or PVC-U to BS EN 1401.
   - Pipes over 600mm diameter to be Concrete to BS 5911.
2. Both Clay and Concrete pipes shall be strength class 120 (100/150mm min crushing strength 28kN/m). Thermoplastic pipes shall have a minimum ring stiffness of SN4.
3. Pipes which run adjacent to buildings shall be installed in strict accordance with Part H, Clauses 2.23 to 2.25, Diagrams 7 and 8 are of particular relevance and shall be complied with.
4. All pipes, chambers and fittings shall be installed, bedded and backfilled in accordance with the manufacturer's instructions subject to the following minimum requirements;

Pipe Location	Cover to Crown*	Clay / Concrete Pipe Bedding	Plastic Pipe Bedding	Backfill
Roadways / Car Parking	> 0.9m < 0.9m	Class S Class 'Z' (Concrete)	Class S (S1 or S2) Class 'Z' (Concrete)	Type 1 Granular
Hard & Soft Landscaping	> 0.6m < 0.6m	Class S Class 'Z' (Concrete)	Class S (S1 or S2) Class 'Z' (Concrete)	Suitable as dug material

*The above depths are based on a private drainage network. Adoptable drainage should be installed in accordance with the requirements of the relevant statutory sewerage undertaker.

5. All pipes beneath structures to have concrete bed and surround. Where cover is less than 300mm the concrete is to be cast integrally with the floor slab.
6. The first flexible joint in pipes adjoining a manhole shall be a maximum length of 600mm from the inside face of the manhole, connecting to a rocker pipe. The length of the rocker pipe shall be as follows;

Pipe Diameter	Length of Rocker Pipe
Ø150 - Ø600mm	600mm
Ø675 - Ø750mm	1,000mm
over Ø750mm	1,250mm

7. Pipes Penetrating Walls;
   An opening is to be formed through walls to give pipes at least 50mm clearance all round. Brickwork over shall be supported by a lintel. Opening to be masked each side with rigid sheet material.Pipes embedded in walls shall have joints formed within 150mm of either wall face. Adjacent rocker pipes of max 600mm length with flexible joints shall continue the pipework.
8. All manholes and inspection chambers situated in areas subject to vehicular loading to have class D400 covers and frames to BS EN124.. Those not subject to vehicular loading to have class B125 covers and frames.
9. Drainage frames must be tied to manhole risers by use of manufacturer's ties (eg. Polypipe ref FRX500 fixing kit and FRK501 black ties.) The ground works contractor will be held fully responsible for any accidents due to incorrect fitting or failure to use the correct manufacturer's fixing equipment.
10. All drains in the vicinity of existing or proposed trees to be constructed in accordance with the requirements of NHBC Practice Note 3.
11. All drainage MH covers and frames to be orientated so that they are square and perpendicular to the block paving patterns where applicable. MH cover locations also to avoid building door opening locations where possible.
12. All surface water connections to be Ø150mm and foul connections to be Ø100mm unless noted otherwise.
13. All foul laterals to be min 1:80 gradient; surface water laterals to be min 1:100.
14. Foul pipes are to be wrapped in a suitable impermeable geotextile where they pass over surface water pipes in order to prevent any cross contamination.
15. All pipelines shall be tested both before and after backfilling, using either air test or water test, in accordance with BS EN 1610.
16. Where reinstatement of existing tarmac surfaces is required this should be completed to Specification for the Reinstatement of Openings in Highways Fourth edition

Health & Safety Information Key

- Used to provide design specific safety information that may not be obvious to a competent contractor but may be useful
- Used to restrict/prevent a possible action, e.g. stop construction traffic from entering an area
- Used to warn of significant design hazards, adding recommendations
- Used to encourage a positive action, e.g. use of robust protection for inspection chambers

Rev.	Date	Amendments	By	Chk
P04	02.04.25	Updated to include new parking area	EG	PJC
P03	11.07.24	Client name Changed	PJC	EG
P02	11.07.24	Updated to planning layout	PJC	EG
P01	21.06.24	FIRST ISSUE	EG	PJC

RLRE Consulting Engineers

Client: UNITED LEARNING

Project: SRP, WILLIAM HULME'S GRAMMAR SCHOOL MANCHESTER

Drawing Title: DRAINAGE STRATEGY SHEET 1

Status: INFORMATION

Scale	Drawn	Checked	Date
1:200 @ A0	EG	PJC	21.06.24

Drawing Number: 22639-RLL-24-XX-DR-C-2100 Revision: P04

BIM Drawing Reference

Scale Bar 1:200 0 2 4 6 8 10 12 14

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