

BELOW GROUND GEO-CELLULAR STORAGE DETAILS

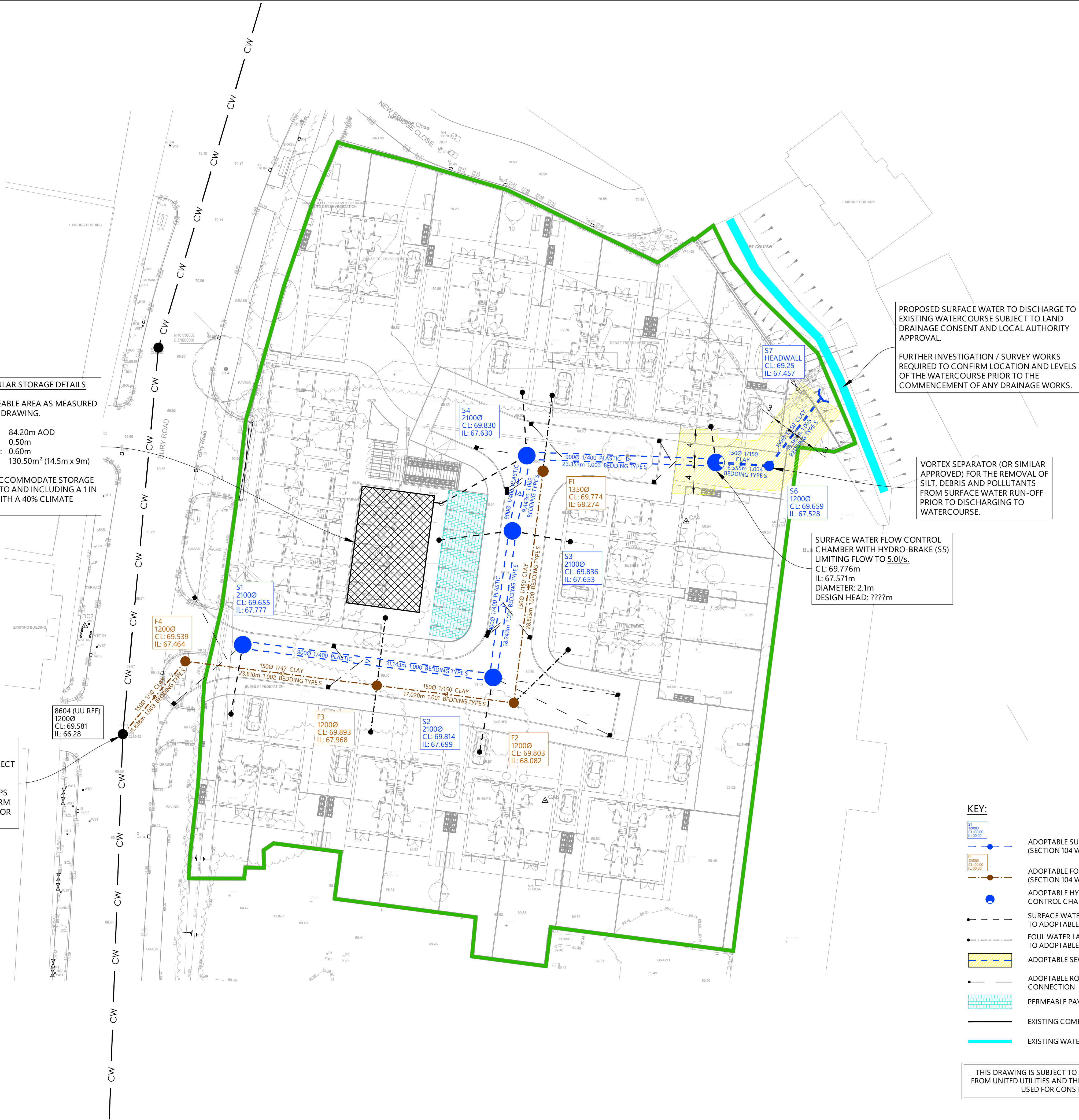
DESIGN BASED ON IMPERMEABLE AREA AS MEASURED FROM ARCHITECTS LAYOUT DRAWING.

INVERT LEVEL: 84.20m AOD
DEPTH OF TANK: 0.50m
MINIMUM DEPTH OF COVER: 0.60m
PLAN AREA: 130.50m² (14.5m x 9m)

MAX VOLUME 65.25m³ TO ACCOMMODATE STORAGE FOR ALL STORM EVENTS UP TO AND INCLUDING A 1 IN 100 YEAR RETURN PERIOD WITH A 40% CLIMATE CHANGE ALLOWANCE.

PROPOSED FOUL WATER NETWORK TO DISCHARGE TO UNITED UTILITIES EXISTING FOUL WATER NETWORK AT MANHOLE 8604 (SOFFIT TO SOFFIT CONNECTION) SUBJECT TO SECTION 104/106 AGREEMENT.

LEVELS NOTED ARE AS PER UNITED UTILITIES ASSET MAPS FURTHER INVESTIGATION WORKS REQUIRED TO CONFIRM LOCATION, LINE AND LEVEL OF EXISTING MANHOLE PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS.



PROPOSED SURFACE WATER TO DISCHARGE TO EXISTING WATERCOURSE SUBJECT TO LAND DRAINAGE CONSENT AND LOCAL AUTHORITY APPROVAL.

FURTHER INVESTIGATION / SURVEY WORKS REQUIRED TO CONFIRM LOCATION AND LEVELS OF THE WATERCOURSE PRIOR TO THE COMMENCEMENT OF ANY DRAINAGE WORKS.

VOXEL SEPARATOR (OR SIMILAR APPROVED) FOR THE REMOVAL OF SILT, DEBRIS AND POLLUTANTS FROM SURFACE WATER RUN-OFF PRIOR TO DISCHARGING TO WATERCOURSE.

SURFACE WATER FLOW CONTROL CHAMBER WITH HYDRO-BRAKE (S5) LIMITING FLOW TO 5.0l/s.
CL: 69.776m
IL: 67.571m
DIAMETER: 2.1m
DESIGN HEAD: ???m

- KEY:**
- ADOPTABLE SURFACE WATER SEWER (SECTION 104 WATER INDUSTRY ACT)
 - ADOPTABLE FOUL WATER SEWER (SECTION 104 WATER INDUSTRY ACT)
 - ADOPTABLE HYDRO-BRAKE FLOW CONTROL CHAMBER
 - SURFACE WATER LATERAL CONNECTION TO ADOPTABLE SEWER
 - FOUL WATER LATERAL CONNECTION TO ADOPTABLE SEWER
 - ADOPTABLE SEWER EASEMENT
 - ADOPTABLE ROAD GULLY & 150mmØ CONNECTION
 - PERMEABLE PAVING
 - EXISTING COMBINED WATER SEWER
 - EXISTING WATERCOURSE

THIS DRAWING IS SUBJECT TO SECTION 104 APPROVAL FROM UNITED UTILITIES AND THEREFORE SHOULD NOT BE USED FOR CONSTRUCTION.

- NOTES:**
- DO NOT SCALE THIS DRAWING.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS, ARCHITECTS AND SPECIALIST DESIGN DRAWINGS AND DETAILS.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE. ALL LEVELS ARE IN METRES UNLESS NOTED OTHERWISE.
 - ANY DISCREPANCIES NOTED ON SITE ARE TO BE REPORTED TO THE ENGINEER IMMEDIATELY.
 - ALL DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH DESIGN AND CONSTRUCTION GUIDANCE FOR FOUL AND SURFACE WATER SEWERS OFFERED FOR ADOPTION UNDER THE CODE FOR ADOPTION AGREEMENTS FOR WATER AND SEWERAGE COMPANIES OPERATING WHOLLY OR MAINLY IN ENGLAND ("THE CODE")
 - THE CONTRACTOR SHALL CHECK ALL TIE-INS FOR LINE AND LEVEL WITH EXISTING BEFORE COMMENCING ANY WORKS. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY IN WRITING, SHOULD ANY ERRORS BE FOUND.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY SERVICE APPARATUS IN THE VICINITY OF THE WORKS.
 - IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO EXECUTE THE WORKS AT ALL TIMES IN ACCORDANCE WITH THE REQUIREMENTS OF THE HEALTH AND SAFETY AT WORK ACT 1974, AND THE C.D.M. REGULATIONS 2015.
 - ALL BURIED CONCRETE PRODUCTS AND MORTAR SHALL BE MADE USING SULPHATE RESISTING CEMENT.
 - IMMEDIATELY PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS, THE CONTRACTOR SHALL ESTABLISH THE EXACT LINE AND LEVEL OF THE EXISTING CONNECTIONS.

- DRAINAGE NOTES:**
- IMPERMEABLE AREAS BASED ON ARCHITECT'S LAYOUT DRAWING.
 - MAXIMUM ALLOWABLE SURFACE WATER DISCHARGE RATE SET AT A PRACTICAL MINIMUM LIMIT BASED ON GREENFIELD RUN-OFF CALCULATIONS. DISCHARGE RATE TO BE CONFIRMED BY LEAD LOCAL FLOOD AUTHORITY VIA CONDITION DISCHARGE.
 - APPROPRIATE SUDS REQUIRED IN ORDER TO ENSURE ADEQUATE TREATMENT OF SURFACE WATER FLOWS PRIOR TO DISCHARGE IN ACCORDANCE WITH THE SIMPLE INDEX METHOD AS SET OUT IN THE SUDS MANUAL (CIRIA C753).
 - ALL MANHOLE COVERS TO BE SET 1m AND MANHOLES TO BE A MINIMUM OF 0.5m FROM THE KERBLINE.
 - INCOMING LATERAL CONNECTIONS TO BE CONFIRMED FOLLOWING COMPLETION OF PRIVATE DRAINAGE NETWORK.
 - ALL SURFACE WATER RUN-OFF FROM PRIVATE DRIVEWAYS SHALL BE INTERCEPTED AND DISCHARGED INTO THE PRIVATE SURFACE WATER DRAINAGE NETWORK. YARD GULLIES OR ACO DRAINS SHALL BE INSTALLED AT STRATEGIC LOW POINTS AS REQUIRED TO ENSURE EFFECTIVE INTERCEPTION OF RUN-OFF. LOCATIONS TO BE CONFIRMED FOLLOWING COMPLETION OF PRIVATE DRAINAGE NETWORK

P01	First Issue	RP	EC	09/10/25
REV:	AMENDMENTS:	DRN:	CHK:	DATE:
PROJECT:				
Station Works Bury Road Radcliffe				
DRAWING TITLE:				
S104 Agreement Plan				
CLIENT:				
Highhall Developments				
DRAWING NUMBER:				
P25131-DGC-Z1-GF-DR-C-2001				
REVISION:	SHEET SIZE:	SCALE:		
P01	A1	1:250		
DRAWN BY:	CHECKED BY:	DATE:		
RP	EC	09/10/25		
STATUS:				
FOR INFORMATION / APPROVAL				
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Printed 09/10/2025 File Location: C:\Users\Bryce\Documents\Projects\2025\25131 - Bury Rd. Radcl.Engin\Civil\DWG\VP25131-DGC-Z1-GF-DR-C-2001-P01 S104 Agreement Plan.dwg