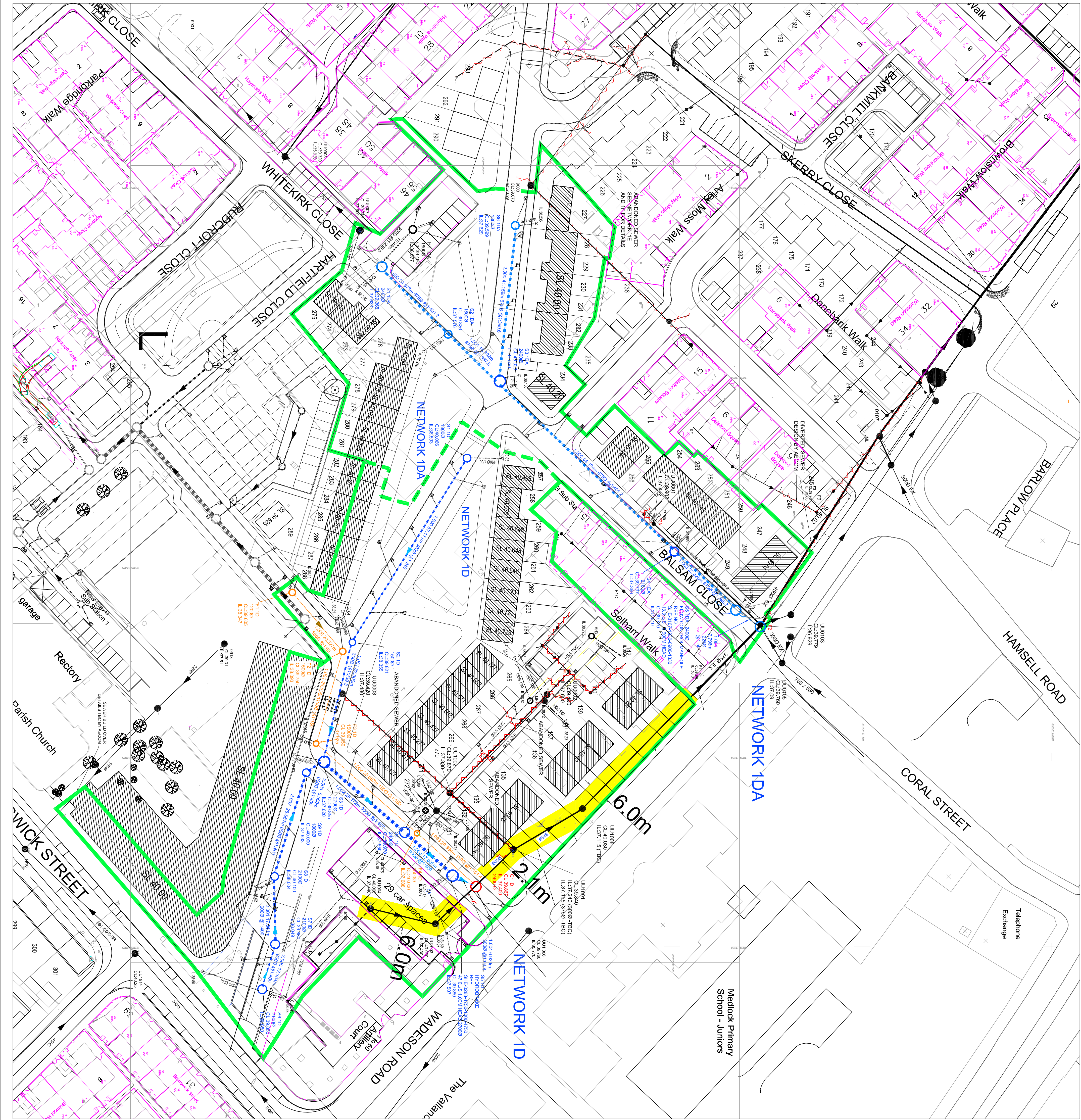




- DRAINAGE NOTES**
1. NO WORK SHOULD COMMENCE ON SITE UNTIL WRITTEN APPROVAL IS RECEIVED FROM THE ADOPTING HIGHWAY AUTHORITY. ADOPTING DRAINAGE COMPANY, INDEPENDENT SURVEYOR, AND ADOPTING HIGHWAY AUTHORITY, WORKS UNDERTAKEN PRIOR TO APPROVAL ARE AT THE DEVELOPER'S RISK AND URBAN VISION SPONSORSHIP WILL NOT BE HELD RESPONSIBLE FOR DELAYS.
 2. ALL INVERT LEVELS OF EXISTING FOLL AND SURFACE DRAINAGE SHALL BE VERIFIED BY THE ENGINEER. ANY DISCREPANCY IN LEVELS IS TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
 3. DRAINAGE LAYOUT SUBJECT TO COORDINATION WITH SERVICES AND LANDSCAPING REQUIREMENTS.
 4. ALL ADOPTABLE SEWERS, UNLESS OTHERWISE STATED, SHALL BE:
150MM x 300MM DIA TO BE VITRIFIED CLAY,
375MM DIA AND GREATER TO BE CLASS 120 CONCRETE PIPES.
 5. ALL VITRIFIED CLAY PIPES TO BS EN 285-1;
ALL CONCRETE MANHOLES TO BE TO BS EN 1916.
 6. FIRST PIPE OUT OF MANHOLES TO BE AS SHORT AS PRACTICABLE SO AS TO PROVIDE A FLEXIBLE JOINT AS CLOSE AS POSSIBLE TO THE OUTSIDE FACE OF THE CONCRETE SURROUND AND CONNECTED TO A ROOFCR PPE.
 7. ALL PIPE DIAMETERS GIVEN ARE NOMINAL INTERNAL PIPE DIAMETERS INCLUDING RISING MAINS.
 8. ALL ADOPTABLE SEWER WORKS TO COMPLY WITH WRC SEWERS FOR ADOPTION - 6TH EDITION, UNITED UTILITIES WHERE PRACTICABLE, WHERE CONFLICTING DETAILS OCCUR, UNITED UTILITIES DETAILS SHALL TAKE PRECEDENCE IN ALL CASES.
 9. MANHOLE COVERS SHALL MUST HAVE A CLEAR OPENING OF 800MM AND SHALL BE CLASS D400 TO BS EN 124 WITH 150MM DEEP FRAMES IN HIGHWAYS, CLASS B125 COVERS AND FRAMES TO BE PROVIDED ON ALL OTHER MANHOLES.
 10. UNITED UTILITIES IS NOT OBLIGED TO ACCEPT FILTER DRAIN, LAND DRAINAGE RUN OFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM DIRECTLY OF LAND DRAINAGE RUN OFF WILL THEREFORE BE REQUIRED AND ANY PROPOSALS MUST BE AGREED WITH THE LOCAL AUTHORITY LAND DRAINAGE SECTION.
 11. SULPHATE RESISTANT CEMENT (C29.DC2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY TEST REPORT TO PROVIDE THAT SUCH PRECONDITIONS ARE NOT REQUIRED.
 12. ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1M AND MARGINS.
 13. ALL SEWER TRENCHES AND BRANCH CONNECTIONS TO BE EXCEEDING 225MM UNCONSOLIDATED THICKNESS THEN FULLY COMPACTED.
 14. ADOPTABLE SEWERS PIPES TO BE LAY IN A MINIMUM 1% FALLENGTH UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS.
 15. CLAYWARE CHANNELS SHALL BE USED WITH MANHOLES FOR PIPE SIZES UP TO AND INCLUDING 300MM DIAMETER.
 16. SEE DWG NO UV/004393-055 ID-10 TO 23.
 17. DIVAR 883/85/80/30 TO 41 & 43/4 FOR MANHOLE BASE UV/004393-055 ID-49 FOR MANHOLE SOE DETAILS. SEE DWG NO UV/004393-055 ID-28 UV/004393-055 ID-27 FOR DRAINAGE LONGSECTIONS.
 18. REFER TO UNITED UTILITIES STANDARDS DETAILS FOR FURTHER INFORMATION.
 19. A 5 YEAR LEGAL AGREEMENT WITH UNITED UTILITIES WILL BE REQUIRED PRIOR TO THE SEWER DIVERSION AND ABANDONMENT. A CCTV SURVEY AND WRITTEN REPORT WILL NEED SUBMITTING BEFORE WORK COMMENCES TO ENSURE NO LIVE CONNECTIONS ARE SEVERED.
 20. ABANDONED SEWERS TO BE REMOVED OR GROUTED UP TO CLAUSE 5.2.1 (6TH EDITION).
 21. PROPOSED UTILITIES PLANTS IS KNOWN.
 22. FOR DETAILS OF PIPE BEDDING AND BACKFILL REFER TO UNITED UTILITIES STANDARDS DETAILS. UNITED UTILITIES SHALL TAKE PRECEDENCE IN ALL CASES.
 23. SS-10 FLOW CONTROL SHALL BE THROUGH A HYDROBRAKE @ REF. SHEET 0167-1350-080-1350
 24. UNITS TO UNDERTAKE DIVERSION/ABANDONMENT AND PLOT DRAINAGE AGREEMENTS NECESSARY OUTSIDE THE SCOPE ON THIS DRAWING ARE INDICATIVE ONLY.
 25. ANY MATERIAL TYPE OR SPECIFICATION CHANGES ORDERED, THIS MAY ALSO INVOLVE ADDITIONAL DESIGN WORKS AS MIGHT BE REQUESTED BY THE APPROVAL BODY AND SUBSEQUENT RE-DESIGN/ASSESSMENT TESTS.
 26. ALL SLAB LEVELS (SL) ARE INDICATIVE AND ARE TO BE CONFIRMED FROM ARCHITECTS DRAWINGS

project
BRUNSWICK PFI

client
SOLUTIONS 4 BRUNSWICK

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BSI
BRITISH STANDARD
BS 1191
URBAN DRAINAGE
SYMBOLS AND CONVENTIONS
2000

scale @ A1
1:500
revision
D06

drawing number
UV004393-055 ID/IDA-06

project ref.
UV 004393

www.urbanvision.org.uk

drawing
**NETWORK 1D/IDA
S104 LAYOUT**

approval status
12/04/16
drawn
checked
approved
as built
MAM

KEY:
PROPOSED SURFACE WATER SEWER
PROPOSED ADOPTED S104 MANHOLE
PROPOSED FOLL SEWER
PROPOSED FOLL MANHOLE
PROPOSED COMBINED MANHOLE
PROPOSED COMBINED SEWER
DRAINAGE EASEMENT
ABANDONED SEWER
PRIVATE SEWER
GULLY / CONNECTION
UNITED UTILITIES SITE BOUNDARY

HEALTH AND SAFETY INFORMATION
Hazards, that would not have been foreseen by a reasonably competent contractor have been identified by the designer :
EXCAVATING NEAR LIVE SERVICES
DEEP EXCAVATIONS GUARD AGAINST FALL STRIPS

D06	Amends to B118 location	27/04/17	AD	SB	NAM
D05	Amends to U19 COMMENTS	23/12/16	AD	SB	NAM
D04	Amends to U19 COMMENTS	21/07/16	AD	SB	NAM
D03	Amends to U19 COMMENTS	08/06/16	AD	SB	NAM
D02	Amends to U19 COMMENTS	01/06/16	AD	SB	NAM
D01	FIRST DESIGN ISSUE	12/04/16	AD	SB	NAM

rev description date drawn chk app