

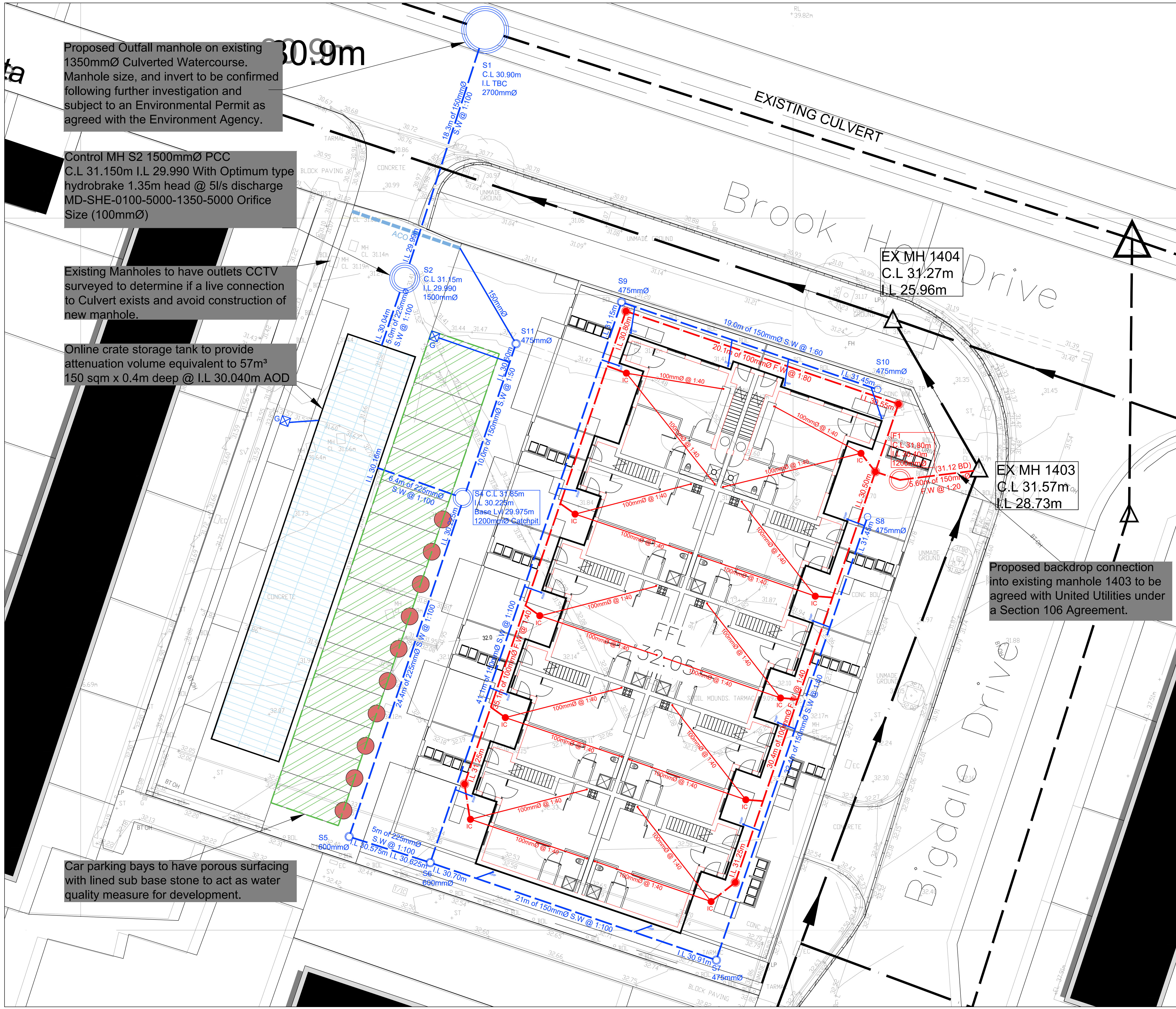
Proposed Outfall manhole on existing 1350mmØ Culverted Watercourse. Manhole size, and invert to be confirmed following further investigation and subject to an Environmental Permit as agreed with the Environment Agency.

Control MH S2 1500mmØ PCC C.L 31.150m I.L 29.990 With Optimum type hydrobrake 1.35m head @ 5l/s discharge MD-SHE-0100-5000-1350-5000 Orifice Size (100mmØ)

Existing Manholes to have outlets CCTV surveyed to determine if a live connection to Culvert exists and avoid construction of new manhole.

Online crate storage tank to provide attenuation volume equivalent to 57m³ 150 sqm x 0.4m deep @ I.L 30.040m AOD

Car parking bays to have porous surfacing with lined sub base stone to act as water quality measure for development.



GENERAL NOTES

- SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
- ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6TH EDITION AND UNITED UTILITIES DETAILS & GUIDELINES.
- THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADAPTABLE 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 COM 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 WITHIN ADOPTED HIGHWAY.
- 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.
- ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO 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 3 BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1M OF HIGHWAY SHALL BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL 4.3.4.
- SUB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE.
- DOMESTIC DRAINAGE SHALL BE TO BUILDING REGULATIONS APPROVED DOCUMENT H. 110mm U.P.V.C. PIPES LAID TO THE FOLLOWING MINIMUM FALLS UNLESS OTHERWISE SHOWN.
- ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED CLAY UNLESS NOTED OTHERWISE. COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A. INSD OR THE NETWORK OPERATOR AS APPLICABLE.

LEGEND

- PROPOSED SURFACE WATER SEWER MANHOLE
- PROPOSED FOUL WATER SEWER MANHOLE
- PROPOSED COMBINED SEWER MANHOLE
- PROPOSED SURFACE WATER DIVERSION
- EXISTING GROUND LEVELS
- EXISTING SURFACE WATER MANHOLE
- EXISTING FOUL WATER MANHOLE
- EXISTING COMBINED WATER MANHOLE
- EXISTING COMBINED WATER SEWER SUBJECT TO BE ABANDONED
- PROPOSED FOUL 600MM UPVC / 1200MM PCC DRAG OUT MH (TBC WITH UU FIELD INSPECTOR)
- PROPOSED SURFACE WATER 600MM UPVC / 1200MM PCC DRAG OUT MH (TBC WITH UU FIELD INSPECTOR)
- 150mmØ LAND DRAINAGE WITH INSPECTION CHAMBER
- PROPOSED SURFACE WATER DRAIN WITH 450mmØ INSPECTION CHAMBER
- PROPOSED FOUL WATER DRAIN WITH 450mmØ INSPECTION CHAMBER
- HIGHWAY GULLY
- FINISHED FLOOR LEVEL
- ACO CHANNEL (OR SIMILAR)

ALL PRIVATE DRAINAGE POP UP POSITIONS ARE PRELIMINARY AND ARE TO BE REVIEWED ONCE CONFIRMED BY THE ARCHITECT

PRELIMINARY SUBJECT TO CONFIRMATION OF UNITED UTILITIES AND LLFA APPROVAL OF DRAINAGE STRATEGY FROM SITE AREA

P01	04.10.2023	INITIAL ISSUE	JCM	JLS	JLS
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS:

PRELIMINARY

CLIENT:

ADVENT CONSTRUCTION LTD

ARCHITECT:

PADDOCK JOHNSON

PROJECT:

BIGDALE DRIVE KIRKBY

TITLE:

OUTLINE DRAINAGE LAYOUT

STATUS:	PROJECT No.	PROJECT	ORIGINATOR	VOL/SYS/LEVEL	TYPE	ROLE	DRAWING No.	REV.
S2	223-080	BDD - AJP - ZZ - 00 - DR - C - 1000	P01					

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE
1:125	JCM	JCM	JLS	JLS	SEPT 2023

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