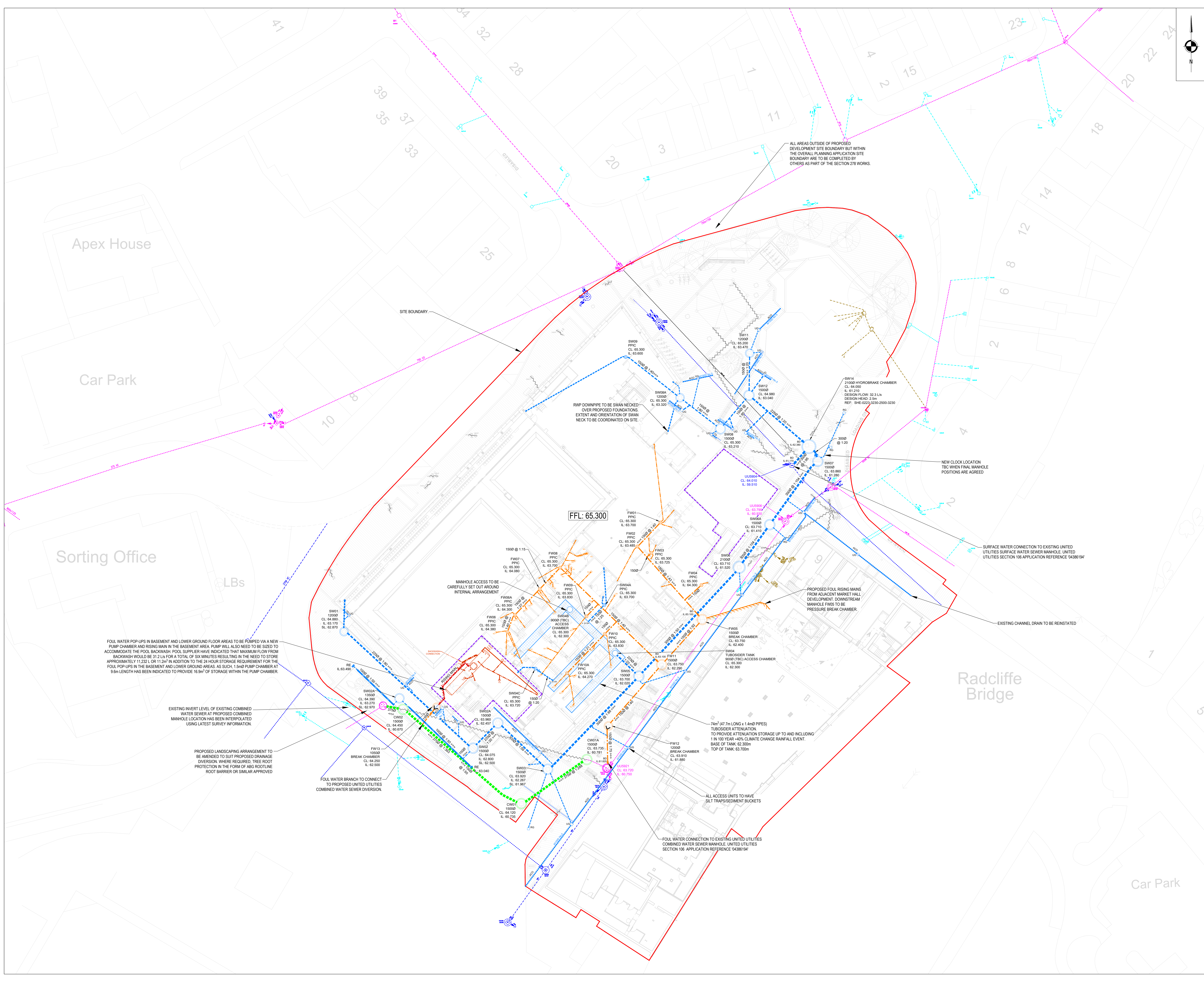




GENERAL NOTES

- 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 7TH 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 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.
- 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 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.
- SUB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE.
- ALL GULLY CONNECTIONS TO BE 150mm VITRIFIED CLAY UNLESS NOTED OTHERWISE.
- ALL MANHOLE COVERS TO BE RECESSED TO ACCEPT FINISH AS DETAILED BY LANDSCAPE ARCHITECT.
- SLOW REST BENDS TO BE USED IN ALL LOCATIONS MADE UP FROM 2No. 45 DEG BENDS 800mm TO INVERT FROM FFL.
- MANHOLE POSITIONS AND ACCESS COVERS TO BE ACCURATELY SET-OUT BY LANDSCAPE ARCHITECT TO SUIT EXTERNAL FINISHES.
- ALL DRAINS CAST THROUGH FOUNDATIONS TO HAVE ROCKER PIPES ON BOTH SIDES OF FOUNDATION.
- ALL POP UP POSITIONS TO BE CONFIRMED SET OUT DIMENSIONS TO BE AGREED & PROVIDED BY OTHERS.
- ALL SURFACE WATER COLLECTION FEATURES TO BE CONFIRMED BY THE LANDSCAPE ARCHITECT.
- STORAGE HAS BEEN PROVIDED IN A TUBOSIDER STORAGE TANK AND UP-SIZED MANHOLES AND PIPES.
- EXISTING SEWER DEPTHS HAVE BEEN LAYER SURVEYS LTD SURVEYS. NEW CONNECTIONS TO BE CONFIRMED PRIOR TO CONSTRUCTION OF ANY DRAINAGE WORKS.
- LANDSCAPE ARCHITECT TO CONFIRM GULLY AND DRAINAGE CHANNEL LOCATIONS TO LANDSCAPED AREAS.

LEGEND

- PROPOSED SURFACE WATER MANHOLE AND DRAINAGE
- PROPOSED FOUL WATER MANHOLE AND DRAINAGE
- PROPOSED 6000 SURFACE WATER PPIC
- PROPOSED 6000 FOUL WATER PPIC
- PROPOSED UNITED UTILITIES COMBINED WATER SEWER DIVERSION (S185 TECHNICAL APPROVAL RECEIVED)
- PROPOSED MANHOLE WITH A NON RETURN VALVE
- PROPOSED FOUL GULLY
- PROPOSED FOUL SUMP UNIT FOR FOUL LINEAR DRAINAGE CHANNELS
- PROPOSED ROAD GULLY
- PROPOSED UNITED UTILITIES EASEMENT
- PROPOSED BASEMENT LEVEL FOUL WATER PUMP CHAMBER
- PROPOSED BASEMENT LEVEL FOUL WATER DRAINAGE
- PROPOSED RISING MAIN
- PROPOSED BASEMENT EXTENTS
- PROPOSED BELOW GROUND TUBOSIDER ATTENUATION
- PROPOSED ACO DRAIN WITH UNIVERSAL GULLY
- PROPOSED THRESHOLD DRAIN WITH UNIVERSAL GULLY
- PROPOSED FILTER STRIP WITH PERFORATED UNDERDRAIN AND ROODING EYE
- EXISTING UNITED UTILITIES SURFACE WATER SEWER
- EXISTING UNITED UTILITIES COMBINED WATER SEWER
- EXISTING PRIVATE SURFACE WATER DRAINAGE
- EXISTING PRIVATE FOUL WATER DRAINAGE
- EXISTING UNITED UTILITIES SEWERS ALREADY ABANDONED
- EXISTING DRAINAGE TO BE ABANDONED

DRAINAGE NOTES

- ALL POP-UP SETTING OUT IS TO BE PROVIDED BY THE ARCHITECT
- ALL SURFACE / FOUL WATER CONNECTIONS ARE TO HAVE ROADABLE ACCESS FROM ABOVE GROUND
- ANY 6000 ACCESS CHAMBERS GREATER THAN 1.2m DEEP WILL REQUIRE A REDUCED ACCESS SHAFT

C18	10.12.2025	REVISED TO SUB VIND COMMENTS	JLR	JLR	PT
C17	12.11.2025	REVISED TO SUB NEW SITE LAYOUT	JLR	JLR	PT
C16	09.11.2025	REVISED TO SUB NEW SITE LAYOUT	JLR	JLR	PT
C15	17.08.2025	SITE SPECIFIC ACO CHANNEL REFERENCES ADDED	JLR	JLR	PT
C14	02.07.2025	UNIVERSAL GULLIES ADDED	JLR	JLR	PT
C13	30.06.2025	FILTER DRAINS ADDED AND CHANNEL DRAINS REQUALIFIED	JLR	JLR	PT
C12	28.04.2025	42 RAILT INFORMATION ADDED AND ACO CHANNEL MANAGEMENT REVISED	JLR	JLR	PT
C11	10.02.2025	REVISED SW01-SW07	JLR	JLR	PT
C10	31.05.2025	SW02A ADDED: SW NETWORK RE-ROUTED AROUND SUBSTATION	JLR	JLR	PT
C09	18.10.2024	FW04 ADDED	JLR	JLR	PT
C08	26.10.2024	LATEST BASEMENT POP-UP ARRANGEMENT - NEW BASEMENT PUMP CHAMBER ADDED	JLR	JLR	PT
C07	30.07.2024	UPDATED AS PER VINCE'S COMMENTS - LATEST LANDSCAPE LAYOUT ADDED	JLR	JLR	PT
C06	19.07.2024	FW04C ADDED	JLR	JLR	PT
C05	16.07.2024	UPDATED TO SUB LATEST POP-UP INFORMATION	JLR	DJS	DJS
C04	26.05.2024	UPDATED TO SUB SITE COMMENTS	JLR	DJS	DJS
C03	09.04.2024	UPDATED TO SUB T4 COMMENTS	JLR	DJS	DJS
C02	09.03.2024	CONSTRUCTION ISSUE	JLR	DJS	DJS
P07	20.07.2023	UPDATED TO SUB UTILITY SURVEY INFORMATION	JLR	JRS	DJS
P06	05.06.2023	REB STAGE 4 TECHNICAL DESIGN	JLR	JRS	DJS
P05	23.02.2023	UPDATED TO SUB LATEST GENERAL ARRANGEMENTS	JLR	DJS	DJS
P04	21.11.2022	REB STAGE 3 SPATIAL COORDINATION	JLR	JRS	DJS
P03	13.09.2022	REB STAGE 3 DEVELOPED DESIGN	JLR	JRS	DJS
P02	17.06.2022	STAGE 3 WORK IN PROGRESS FOR DESIGN COORDINATION	JLR	DJS	DJS
P01	04.05.2022	REB STAGE 2 CONCEPT DESIGN	JRS	DJS	DJS
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS:

CONSTRUCTION

CLIENT:

BURY COUNCIL

ARCHITECT:

POZZONI

PROJECT:

RADCLIFFE CIVIC HUB

TITLE:

BELOW GROUND DRAINAGE OUTLINE DRAINAGE STRATEGY

STATUS:	PROJECT No:	PROJECT	ORIGIN	FUNCTION	SPECIAL	FORM	DATE	DRAWING No.	REV
S2	221-145	RADHUB-AJP-V4-ZZ-DR-C-0001	C18						

SCALE 1:500

DESIGNED: JRS

DRAWN: JRS

CHECKED: DJS

APPROVED: DJS

DATE: MAY 2022

consulting engineers

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