DRAINAGE KEY

- PROPOSED PRIVATE SW DRAINAGE
- PROPOSED SW ACCESS CHAMBER
- PROPOSED SW PPIC
- RWP — PROPOSED RAINWATER PIPE
- PROPOSED PRIVATE ROAD GULLY
- PROPOSED DOOR THRESHOLD ACO
- PROPOSED PRIVATE SW FILTER DRAIN
- PROPOSED ATTENUATION TANK
- PROPOSED PRIVATE FW DRAIN
- EXISTING UU COMBINED SEWER
- PROPOSED VENT PIPES / VENTED COVER
- YG = YARD GULLY
- RG = ROAD GULLY
- CO = CHANNEL OUTLET
- BTG = BID TAP GULLY
- ABANDONED PIPE
- ROADDRAIN
- MULTIDRAIN
- ASSUMED LIMIT OF WORKS
- SITE BOUNDARY

DRAINAGE NOTES

1. THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT AND DIVERSION WORKS AS NECESSARY, TO ALL EXISTING SERVICES TO THE SATISFACTION OF THE PUBLIC UTILITIES.
2. THE CONTRACTOR SHALL ALLOW FOR DEALING WITH SURFACE WATER RUN-OFF INTO EXCAVATIONS AND FROM GROUNDWATER BY MEANS OF SUMPS, PUMPING AND DE-WATERING AS APPROPRIATE, IN ORDER TO KEEP THE EXCAVATION AS REASONABLY DRY AS POSSIBLE DURING THE CONSTRUCTION OF THE WORKS.
3. ALL PRIVATE DRAINAGE WITHIN THE SITE IS TO COMPLY WITH THE REQUIREMENTS OF BSEN752 AND BUILDING REGULATIONS PART H. WHERE APPROPRIATE, ALL ADOPTED DRAINAGE SHALL BE DESIGN AND CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6th EDITION AND THE ADOPTING AUTHORITIES STANDARD REQUIREMENTS.
4. ALL PRIVATE DRAINAGE PIPES TO BE LAID IN TRENCHES BEDDED CLASS 'B' ON SINGLE SIZED AGGREGATE AND BACKFILLED WITH APPROVED SELECTED FILL (40mm DOWN) REUSED FROM EXCAVATED MATERIAL UNDER BUILDINGS AND WHERE COVER TO INVERT IS LESS THAN 1200mm UNDER TRAFFICKED AREAS PIPES TO BE CAST IN CONCRETE (CLASS Z BEDDING). CLASS 'S' BED AND SURROUND PIPES BENEATH HIGHWAYS TO BE BACKFILLED WITH TYPE 1 MATERIAL.
5. SELECTED BACKFILL MATERIAL SHALL CONSIST OF UNIFORM EXCAVATED MATERIAL, FREE FROM STONES LARGER THAN 40mm, CLAY LUMPS LARGER THAN 75mm, TREE ROOTS, CONTAMINATED MATERIAL. SELECTED BACKFILL MATERIAL IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm THICKNESS. THE MATERIAL SHALL BE COMPACTED TO ACHIEVE NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED IN LABORATORY COMPACTION TESTS. SUFFICIENT TESTING SHALL BE CARRIED OUT, BY THE CONTRACTOR, TO DEMONSTRATE THIS IS ACHIEVED (NUMBER AND FREQUENCY OF TESTING TO BE AGREED WITH SHD). WHERE THE MOISTURE CONTENT OF THE MATERIAL PROHIBITS COMPLIANCE WITH THE ABOVE 6F1 OR SIMILAR IMPORTED MATERIAL SHALL BE USED.
6. CONCRETE PROTECTION TO PIPEWORK IS TO BE PROVIDED AS FOLLOWS:
   a) ALL PIPEWORK WITHIN PEDESTRIAN/SOFT AREAS WITH LESS THAN 600mm COVER.
   b) ALL PIPEWORK SUBJECT TO VEHICULAR OVERRUN WITH LESS THAN 1.2m COVER.
7. ALL PIPEWORK WITHIN MANHOLES ARE TO BE LAID SOFFIT TO SOFFIT (U.N.O). ALL CHAMBER INVERT LEVELS ARE FOR THE OUTGOING PIPE LEVELS. BACKDROP PIPEWORK SHALL BE CONNECTED AT SOFFIT TO SOFFIT WITH THE RODDING ACCESS LEVEL SPECIFIED.
8. ALL DRAINS TO BE LAID ACCURATELY TO LINE AND LEVEL IN STRICT ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.
9. ANY GRADIENTS OF DRAINS INDICATED ARE INDICATIVE ONLY AND THE CONTRACTOR SHALL INSTALL THE DRAINS TO THE SPECIFIED LEVELS SHOWN FOR EACH MANHOLE (U.N.O). CATCHPIT INVERT LEVELS ARE FOR THE OUTGOING PIPE WITH THE SUMP LEVEL SPECIFIED SEPARATELY.
10. CO-ORDINATE SETTING OUT INFORMATION FOR MANHOLES IS TO THE INTERSECTION THE DRAINS AND NOT THE CENTRE OF THE MANHOLE.
11. COVER LEVELS OF THE MANHOLES ARE PROVISIONAL AND SUBJECT TO ADJUSTMENT ON SITE TO SUIT THE FINISHED GROUND LEVELS. ALL EXTERNAL WORKS CONSTRUCTION AREAS TO BE AS LOCATED BY THE ARCHITECT.
12. MANHOLE COVERS AND FRAMES ARE TO BE IN ACCORDANCE WITH BSEN124 AND THE FOLLOWING:
   a) VEHICULAR AREAS: CLASS D400 (E600 IN VULNERABLE SE`RVICE YARD LOCATIONS), DOUBLE TRIANGULAR, 150mm DEEP DUCTILE IRON COVER AND FRAME WITH THREE POINT COVER SEATING, BADGED FW OR SW FOR FOUL OR SURFACE WATER DRAINAGE.
   b) PEDESTRIAN AREAS: CLASS B125, 100mm DEEP, BADGED FW OR SW FOR FOUL OR SURFACE WATER DRAINAGE.
13. POSITIONS AND SIZES OF ABOVE GROUND FOUL AND SURFACE WATER DRAINAGE CONNECTIONS ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION WITH THE ARCHITECT & M&E ENGINEER.
14. GULLY GRATINGS AND STEEL CHANNEL COVERS ARE TO BE IN ACCORDANCE WITH BSEN124 AS FOLLOWS:
   a) AREAS SUBJECT TO VEHICULAR OVERRUN: CLASS D400 MINIMUM.
   b) AREAS NOT SUBJECT TO REGULAR VEHICLE OVERRUN (ADJACENT TO KERBS ETC): CLASS C250.
   c) GULLY GRATES ADJACENT TO KERBS SHALL BE HINGED ON THE SIDE OF THE TRAFFIC DIRECTION (LEFT HAND SIDE).
15. ALL BRICKWORK IN CONNECTION WITH DRAINAGE IS TO BE SOLID CLASS B ENGINEERING BRICK TO BS3921.
16. ALL PRECAST CONCRETE PIPES, CHAMBER PRODUCTS AND ROAD GULLIES SHALL BE TO BS5911 AND BE KITEMARKED.
17. ALL DRAINAGE INSITU CONCRETE SHALL BE GEN3 (U.N.O).
18. ALL INSITU AND CONCRETE PRODUCTS SHALL COMPLY WITH THE REQUIREMENTS FOR SULPHATE EXPOSURE IN ACCORDANCE WITH BRE SPECIAL DIGEST 1, CONCRETE IN AGGRESSIVE GROUND (2001) PART 1: TABLE 2.
19. UPON COMPLETION OF THE WORKS THE CONTRACTOR SHALL CLEAN ALL DRAINAGE BY JETTING, REMOVING ALL DEBRIS FROM SITE. NO DEBRIS SHALL BE PERMITTED TO ENTER THE EXISTING DRAINAGE SYSTEM.
20. CONSTRUCTION JOINTS IN CONCRETE SURROUND MUST NOT BE WITHIN 150MM OF CHAMBER/SHAFT RING JOINTS.
21. ROCKER PIPES TO BE SURROUNDED WITH CONCRETE LOCATED 150mm MINIMUM 200mm MAXIMUM FROM THE FIRST FLEXIBLE JOINT TO THE MANHOLE WALL.
22. SOFT SPOTS IN THE TRENCH FORMATION SHALL BE REMOVED AND REPLACED WITH GRANULAR BEDDING UNLESS INSTRUCTED OTHERWISE.
23. LATERAL CONNECTIONS IN BETWEEN MANHOLE RUNS SHALL BE FORMED BY USING PURPOSE MADE JUNCTION FITTINGS. BEND FITTINGS SHALL BE PROVIDED WHERE APPROPRIATE TO DIRECT THE FLOW INTO MAIN RUNS.
24. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO LIAISE WITH BUILDING CONTROL FOR APPROVALS, INTERIM INSPECTION, SNAGGING AND FINAL INSPECTIONS OF THEIR WORK.
25. THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL EXISTING STATUTORY UNDERTAKERS APPARATUS AND SERVICE CONNECTIONS ADJACENT TO AND CROSSING THE WORKS BY TRIAL PITS PRIOR TO COMMENCING MACHINE DIG.
26. AT THE CONCLUSION OF THE WORKS THE CONTRACTOR SHALL PROVIDE A MARKED UP DRAWING TO RECORD ANY AS BUILT VARIATIONS NOT SHOWN ON THE DRAWINGS.
27. THE DRAINAGE SYSTEM IS NOT DESIGNED TO ACCEPT UNTREATED EFFLUENT FROM A COMMERCIAL KITCHEN CONTAINING GREASE AND OILS. REMOVAL OF GREASE AND OIL SHOULD BE MADE AT SOURCE USING A FLOOR MOUNTED ABOVE GROUND GREASE REMOVAL SYSTEM. IT IS RECOMMENDED THAT A MECHANICAL GREASE REMOVAL SYSTEM BE EMPLOYED FOR THIS PURPOSE NOT A PASSIVE SYSTEM.
28. PIPEWORK TO BE OF THE FOLLOWING MANUFACTURER: 100 / 150 / 225 / 300 DIAMETER HEPWORTH SUPERSLEEVE VITRIFIED CLAY PIPES (40kN/mm CRUSHING STRENGTH), 375mm + TO BE CONCRETE CLASS M. ALTERNATIVELY 'POLYSEWER' UPVC DRAINAGE SYSTEM BY POLYPIPE WHEN INSTALLED IN LINE WITH THE MANUFACTURERS RECOMMENDATIONS. FILTER DRAINAGE TO BE PERFORATED HDPE.
29. ALL RWP, WPC & YARD GULLY CONNECTIONS TO BE 100mm DIA UNO & ARE RODDABLE AT LOCATIONS ABOVE GROUND LEVEL.
30. ALL INSPECTION CHAMBERS WITH A DEPTH GREATER THAN 1.2m TO HAVE A 350mm DIAMETER REDUCING PLATE LOCATED BENEATH COVER AND FRAME TO PREVENT ACCESS.

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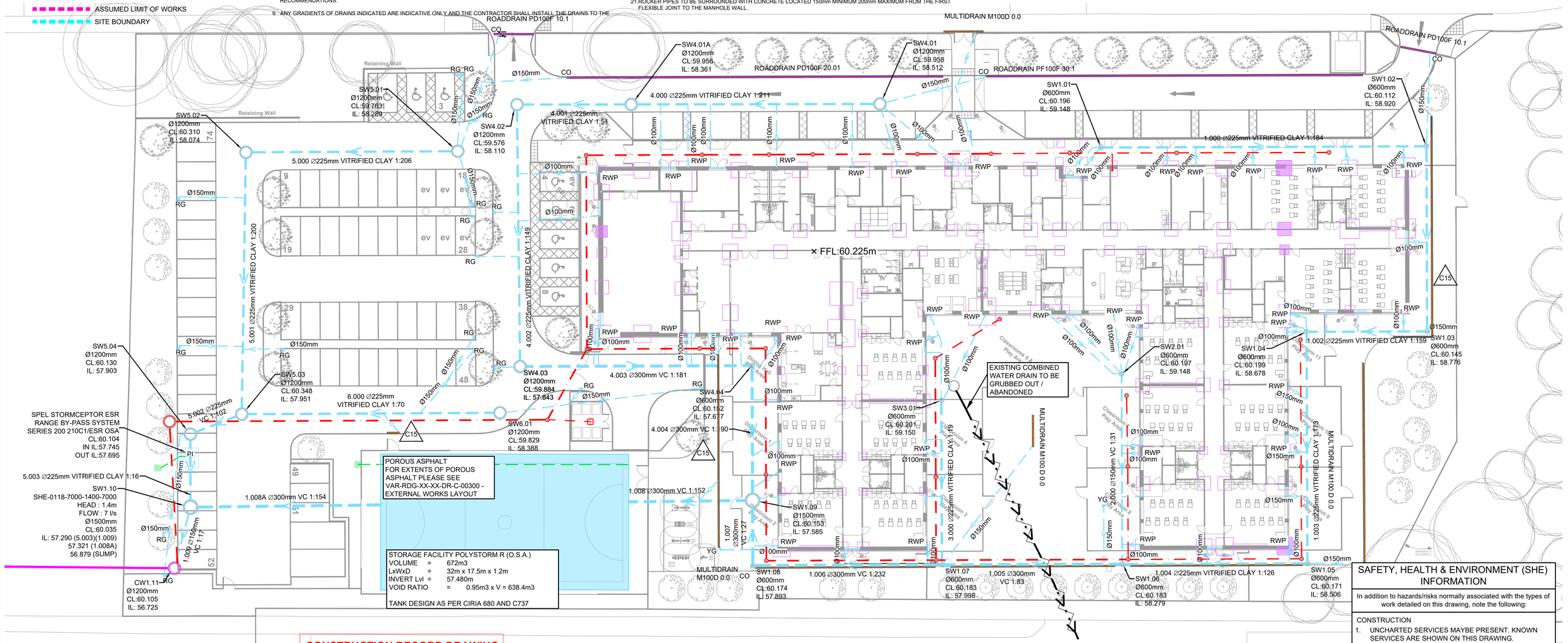

ALL THRESHOLD DRAINS TO BE ACO THRESHOLD

ALL SVP AND RWP DROP LOCATIONS TO BE CONFIRMED BY OTHERS (M&E STAGE 5 DESIGN T.B.C.)

ALL CONNECTIONS TO HAVE ABOVE GROUND RODDABLE ACCESS

ALL SW PIPEWORK Ø100mm U.N.O.

CONSTRUCTION RECORD DRAWING

Note:
The information shown on this Construction Record drawing is based on the latest issued Construction drawings which have been modified as necessary with information supplied by the Contractor to incorporate changes made during construction. Information obtained from third parties has not been verified by Ridge and Partners LLP and may not be wholly accurate. Any party seeking to use this drawing must first verify its fitness for the intended purpose with suitable site inspections/investigations as deemed appropriate.

No	DATE	DRAWN	REV'D ENG.	AMENDMENT
C15	13.01.26	AP	AM	ADDED DRAINAGE CHANNEL
C14	24.11.25	AP	AM	REMOVED DRAINAGE CHANNEL
C13	29.09.25	AP	AM	CONSTRUCTION RECORD
C12	04.07.25	AP	AM	AMENEDED TO LATEST LAYOUT
C11	26.06.25	AP	AM	ADDED THERSHOLD GULLYS
C10	03.03.25	JF	PB	GULLYS ADDED

No	DATE	DRAWN	REV'D ENG.	AMENDMENT
C09	10.09.24	JF	AM	UPDATED TO SITE COMMENTS
C08	21.08.24	JF	AM	ATTENUATION TANK DETAILS UPDATED TO SITE COMMENTS
C07	14.08.24	JF	PB	CL's AMENDED TO SUIT NEW LAYOUT BID TAP LOCATIONS ADDED
C06	27.06.24	JF	LMc	IL's AMENDED TO AS CONSTRUCTED LEVELS

No	DATE	DRAWN	REV'D ENG.	AMENDMENT
C05	13.05.24	JF	PB	CARPARK LEVELS REVERTED TO PREVIOUS REVISION
C04	22.02.24	JF	PB	CARPARK LEVELS LOWERED - DRAINAGE UPDATED TO SUIT
C03	23.11.23	JF	PB	TANK POSITION AMENDED - ACO ADDED
C02	14.11.23	JF	PB	CONSTRUCTION ISSUE
C01	23.10.23	JF	AM	CONSTRUCTION ISSUE

STATUS	PURPOSE OF ISSUE
A6	FINAL ISSUE

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RIDGE

SCALE 1:250 (2 0 2 4 6 8 10 m)

CLIENT	KIER CONSTRUCTION
PROJECT	VARLEY STREET, SEN SCHOOL
DRAFTER	JF
ENGINEER	PB

TITLE	PROPOSED SWS LAYOUT		
SCALE	1:250	SHEET	A1
DRAWING No	VAR-RDG-XX-XX-DR-C-00501	REV	C15

SAFETY, HEALTH & ENVIRONMENT (SHE) INFORMATION

In addition to hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION
1. UNCHARTED SERVICES MAYBE PRESENT. KNOWN SERVICES ARE SHOWN ON THIS DRAWING.
2. WORKING OVER EX COAL MINES - COAL AUTHORITY REPORT TO BE USED AND CONTRACTOR TO HAVE SAFE WORK AND GROUND MONITORING METHODS IN PLACE.

MAINTENANCE / CLEANING
1. REFER TO

DECOMMISSIONING / DEMOLITION
1. REFER TO