

**ATTENUATION SYSTEM A**  
 CAST IN-SITU CONCRETE TANK  
 REFER TO APPROPRIATE STRUCTURAL  
 ENGINEERING DRAWING FOR DETAILED  
 DESIGN:  
 VOLUME 415.8m³  
 DEPTH: 1.8m

DELIVERY SHUT OFF VALVE WITH HYDROCARBON SENSOR TO BE INCORPORATED IN LINE FROM BUND AREA CONNECTING TO THE BMS. UPON ALARMING THE SHUT OFF VALVE NEEDS TO BE CONNECTED AND AUTOMATICALLY ACTIVATED AND ALARMS SENT BACK THROUGH THE BMS TO MONITORING PERSONNEL FOR CLEAN UP OPERATION TO COMMENCE.

DELIVERY SHUT OFF VALVE WITH GLYCOL SENSOR TO AUTOMATICALLY SHUT OFF IN THE EVENT OF CONTAMINANTS BEING DETECTED. ALARM TO BE SENT TO BMS. OPS TEAM WILL THEN NEED TO COMMENCE CLEAN UP OF SPILL.

NOTE:  
 FINAL GULLY POSITION TO BE AGREED ON RECEIPT OF FINAL BUILDING B ROAD LEVELS

**GENERAL NOTES:**

- ALL NOTED LEVELS ARE TO ORDNANCE DATUM.
- REFER TO ARCHITECT'S LAYOUT FOR ALL SET-OUT INFORMATION.
- REFER TO ARCHITECT / LANDSCAPE ARCHITECT'S DESIGN DRAWINGS FOR DETAILS OF PROPOSED SURFACE FINISHES AND LANDSCAPING (INCLUDING GREEN ROOFS).
- ALL DRAINAGE COVER LEVELS ARE TO BE COORDINATED WITH PROPOSED ROAD DESIGN LEVELS AND ARCHITECT/LANDSCAPE ARCHITECT'S PROPOSED FINISH LEVELS.
- ALL INTERNAL CHAMBER COVERS TO BE DOUBLE SEALED, AND CLASSIFICATION D400 LOADING WHERE LOCATED IN VEHICULAR AREAS.
- ALL NEW DRAINAGE IS DESIGNED IN ACCORDANCE WITH SEWERS FOR ADOPTION AND BUILDING REGULATIONS PART H: DRAINAGE WASTE DISPOSAL SUBJECT TO RESTRICTIONS IMPOSED BY THE EXISTING BUILDING.
- ALL CONNECTIONS TO NEW DRAINAGE NETWORKS ARE TO BE MADE AT AN ANGLE OF 90° OR IN THE DIRECTION OF FLOW.
- REFER TO ARCHITECT AND M&E ENGINEERING DESIGN DRAWINGS FOR CONFIRMATION OF LOCATION AND SPECIFICATION OF FLOOR GULLIES.
- REFER TO M&E ENGINEERING DESIGN FOR CONFIRMATION OF WASTE AND SANITARY POP-UP/OUTLET LOCATIONS.
- THE CONTRACTOR IS TO VERIFY INVERT LEVEL AT PROPOSED CONNECTION TO EXISTING SEWERS, PRIOR TO ANY OTHER WORKS BEING CARRIED OUT, AND MAKE ANY DISCREPANCIES KNOWN TO THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION OF PRESENCE ALL EXISTING UTILITIES, IF ANY, ALONG ROUTE OF PROPOSED DRAINAGE NETWORKS - BY INTRUSIVE INVESTIGATION OR EQUAL.
- EXISTING PUBLIC SEWER TO BE JET CLEANED AND CCTV SURVEYED PRIOR TO, AND AFTER PROPOSED CONNECTIONS FROM NEW NETWORK. CONTRACTOR TO CONFIRM THE EXISTING MANHOLE LOCATIONS AND INVERTS PRIOR TO COMMENCEMENT. ENGINEER TO BE ADVISED IN WRITING OF ANY DISCREPANCIES FROM INFORMATION SHOWN ON RECORD DRAWINGS.
- ALL NEW DRAINAGE INFRASTRUCTURE TO BE JET CLEANED AND CCTV SURVEYED, WITH ANY NOTED DEFECTS REMEDIATED, ON COMPLETION OF WORKS, TO THE SATISFACTION OF THE LOCAL AUTHORITY.
- SEWERS - SUBJECT TO APPROVAL TO CONNECT (EXISTING THAMES SURFACE AND WASTEWATER)
- THE INTEGRITY OF THE EXCAVATIONS IS TO BE MAINTAINED BY THE CONTRACTOR AT ALL TIMES, REFER TO THE SOIL INVESTIGATIONS REPORT.
- UNDERGROUND SERVICES CO-ORDINATION IS ONGOING - DRAINAGE IS SUBJECT TO CHANGE

**LEGEND:**

- uPVC TWIN WALL SURFACE WATER DRAINAGE OR SIMILAR APPROVED
- 100mmØ SURFACE WATER DRAINAGE SN8
- uPVC SN8 WASTEWATER DRAINAGE OR SIMILAR APPROVED
- INTERNAL WASTEWATER DRAINAGE SN8
- EXISTING SURFACE WATER DRAINAGE
- EXISTING WASTEWATER DRAINAGE
- RISING MAIN
- WASTEWATER DRAINAGE PRECAST CONCRETE MANHOLE
- SURFACE WATER DRAINAGE PRECAST CONCRETE MANHOLE
- EXISTING SURFACE WATER DRAINAGE MANHOLE
- EXISTING WASTEWATER DRAINAGE MANHOLE

CAST IN-SITU INTERNAL WASTEWATER MANHOLE IN ACCORDANCE WITH BUILDING REGS PART H [DOUBLE SEALED RECESSED COVERS REQUIRED]

SURFACE WATER ACCESS JUNCTION

KLARGESTER CLASS I FULL RETENTION FUEL SEPARATOR

TRAPPED ROAD GULLY/TRAPPED GULLY  
 SURFACE WATER ACO CHANNEL / GATIC DRAIN WITH ACCESSIBLE SUMP OUTLETS [TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES & RECOMMENDATIONS]

PERVIOUS PAVING

SURFACE WATER ATTENUATION



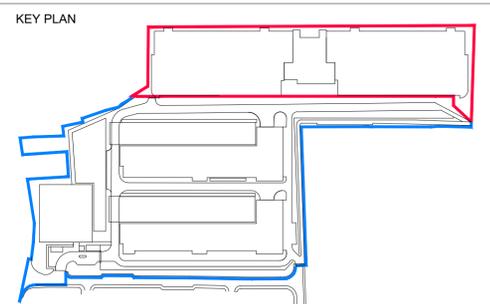
FOR FURTHER DESIGN INFORMATION REFER TO DRAWINGS LON1X2-OCS-CZ-ZZ-DR-C-4005 - 4009 [DRAINAGE LONGSECTIONS]

**FOR CONSTRUCTION**

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Rev	Description	Cor	Com	Dm	Chk	Date
C6	LEGEND UPDATED AS CLOUDED	MC	DC			14.03.25
C5	GULLIES ADDED AS CLOUDED	MC	DC			08.02.25
C4	LEGEND UPDATED AS CLOUDED	MC	COM			29.01.25
C3	LAYOUT UPDATED	RC	SD			20.12.24
C2	LEGEND UPDATED	COR	COM			05.12.24
C1	CONSTRUCTION ISSUE	COR	COM			08.11.24

Campus Number & Name  
 LON1 LONDON ONE  
 Project  
 LON1X2  
 LONDON ONE PHASE THREE

Drawing Title  
 PROPOSED DRAINAGE LAYOUT  
 SHEET 2 OF 3

Status Code  
 A5 - AUTHORISED & ACCEPTED - STAGE 5

Stage  
 CONSTRUCTION ISSUE

Drawing Number  
 LON1X2-OCS-CZ-ZZ-DR-C-4001

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Scale @ A1  
 1 : 250  
 Rev  
 C6