SURFACE WATER PUMP (PS)

CONTRACTOR TO OBTAIN DESIGN/QUOTE FROM SUPPLIER BASED ON FOLLOWING PARAMETERS

CHAMBER DIA	1.80m PCC RING
CHAMBER CL	10.541m
LOWEST INLET LEVEL	7.845m
DISCHARGE RATE	4.2 l/s
PUMP TYPE	DUTY/STANDBY

RISING MAIN L38m FROM 9.333m TO 9.450m(TBC). DIAMETER AND REQUIREMENTS FOR WASH OUT CHAMBER TO BE CONFIRMED BY SUPPLIER.

CONTRACTOR TO ALLOW FOR BACKUP PUMP, CONCRETE SURROUND, POWER SUPPLY, CONTROL PANEL, VENTING, HIGH LEVEL ALARM AND GSM CONNECTIVITY.

ATTENUATION TANK

CONTRACTOR TO OBTAIN DESIGN/QUOTE FROM SUPPLIER BASED ON FOLLOWING PARAMETERS

AREA DRAINED	1,866m²
SIZE	280m² x 1.6m (448³)
WATER VOLUME	425m³
GROUND LEVEL	10.470m-10.870m
TANK TOP	9.500m
TANK BASE	7.900m
GROUNDWATER LEVEL	9.030m(ASSUMED. TBC)

- ALLOW FOR VENTING, BEDDING & SURROUND, MEMBRANE WITH WELDED JOINTS
- ALL CONNECTIONS INTO TANKS TO BE VIA MANIFOLD/REDUCERS TO SUIT MIN.150 PIPE CONNECTION.
- POSSIBLE HIGH GROUNDWATER LEVEL. ALLOW FOR DEWATERING DURING INSTALLATION.
- FLOATATION ASSESSMENT FOR PERMANENT CASE TO BE RE-ASSESSED UPON CONFIRMATION OF ONSITE GROUNDWATER LEVEL.
- CONTRACTOR TO ALLOW FOR TEMPORARY WORKS FOR TANK EXCAVATION WITHIN 2.5m OF SITE BOUNDARY

LINEAR DRAINAGE CHANNEL (LDC) SCHEDULE.

CHANNELS TO BE DESIGNED BY SPECIALIST BASED ON 50mm/hr RAINFALL INTENSITY, A 5yr RETURN PERIOD AND THE FOLLOWING PARAMETERS:

CHANNEL REFERENCE	LOCATION	AREA DRAINED	LENGTH	GROUND LEVEL	BOX	OUTLET	PIPE	DUTY	PREFERENCE
A	ACCESS ROAD	16m²	9.10m	10.262	1NO.	END	150Ø	D400	SLOT
B	SERVICE YARD	414m²	21.30m	9.506	1NO.	END	225Ø	D400	SLOT
C	SERVICE YARD	1,381m²	32.30m	10.419	2NO.	END	225Ø	D400	SLOT
D	FOOTPATH	24m²	17.5m	24.130	1NO.	END	150Ø	B125	NARROW/SLOT
E	FOOTPATH	261m²	131.5m	10.750	1NO.	END	150Ø	B125	NARROW

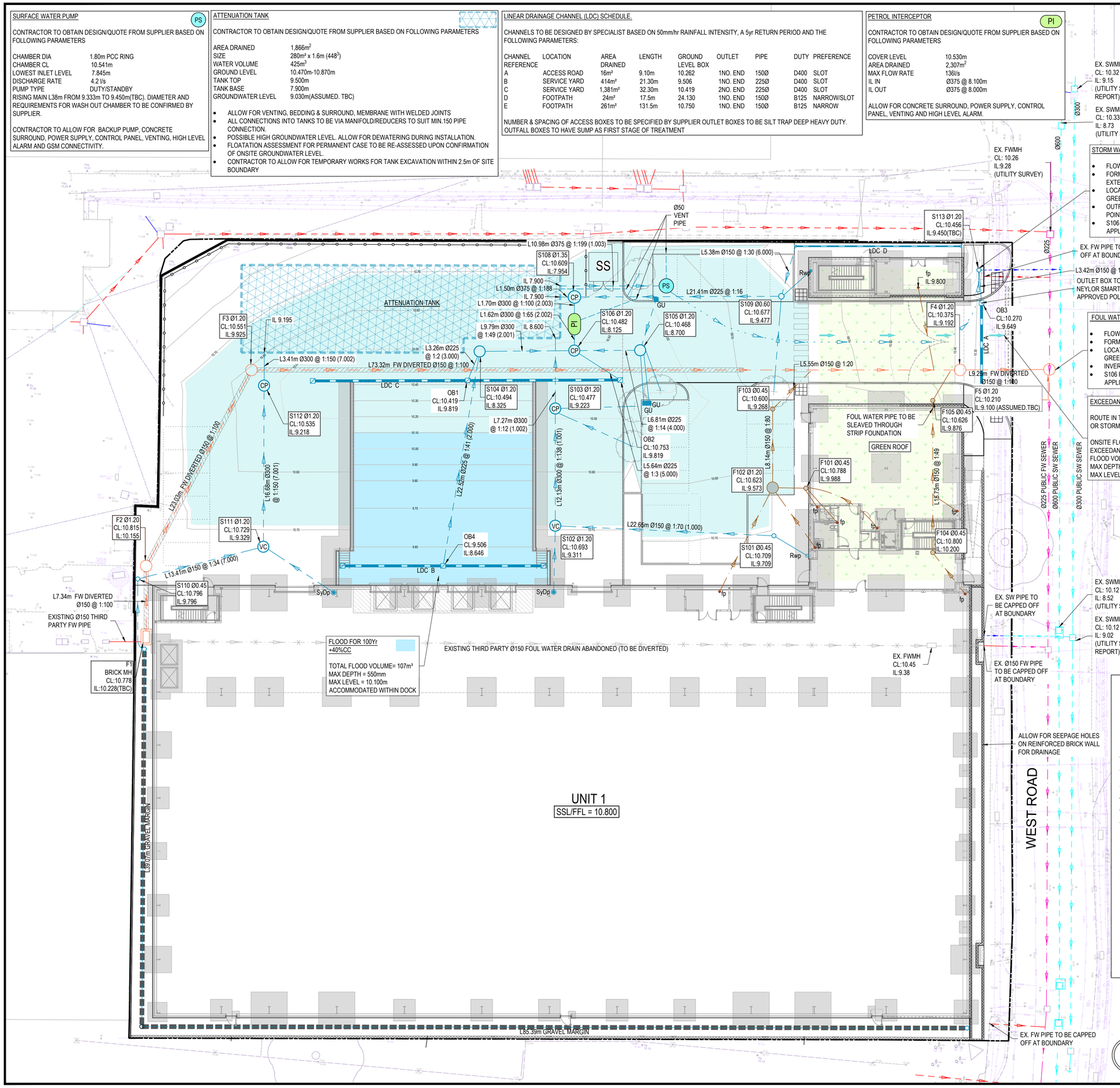
NUMBER & SPACING OF ACCESS BOXES TO BE SPECIFIED BY SUPPLIER OUTLET BOXES TO BE SILT TRAP DEEP HEAVY DUTY. OUTFALL BOXES TO HAVE SUMP AS FIRST STAGE OF TREATMENT

PETROL INTERCEPTOR (PI)

CONTRACTOR TO OBTAIN DESIGN/QUOTE FROM SUPPLIER BASED ON FOLLOWING PARAMETERS

COVER LEVEL	10.530m
AREA DRAINED	2,307m²
MAX FLOW RATE	136l/s
IL IN	Ø375 @ 8.100m
IL OUT	Ø375 @ 8.000m

ALLOW FOR CONCRETE SURROUND, POWER SUPPLY, CONTROL PANEL, VENTING AND HIGH LEVEL ALARM.



STORM WATER DISCHARGE

- FLOWS FROM NEW SITE ONLY.
- FORM NEW INSPECTION CHAMBER IN LINE WITH EXISTING SW SPUR AND EXTEND EXISTING SPUR AS REQUIRED.
- LOCATION OF CONNECTION POINT BASED ON UNDERGROUND SURVEY BY GREENHATCH REF. NO 52972 UG
- OUTFALL TO BE TRACED AND SURVEYED TO MAIN SEWER. INVERT LEVEL AT POINT OF CONNECTION TO BE CONFIRMED.
- S106 REQUIRED FOR INDIRECT CONNECTION PRIOR TO MAKING CONNECTION. APPLICATION IN PROGRESS (DECEMBER 2025).

FOUL WATER DISCHARGE

- FLOWS FROM THIRD PARTY DIVERSION + NEW SITE DRAINAGE.
- FORM NEW MANHOLE ON EXISTING Ø225 PUBLIC NETWORK.
- LOCATION OF CONNECTION POINT BASED ON UNDERGROUND SURVEY BY GREENHATCH REF. NO 52972 UG.
- INVERT LEVEL AT POINT OF CONNECTION TO BE CONFIRMED.
- S106 REQUIRED FOR DIRECT CONNECTION PRIOR TO MAKING CONNECTION. APPLICATION IN PROGRESS (DECEMBER 2025).

EXCEEDANCE OVERLAND FLOWS

ROUTE IN THE EVENT OF A FAILURE OF THE DRAINAGE SYSTEM OR STORM EVENT GREATER THAN 100Yr+40%CC.

ONSITE FLOOD STORAGE PROVIDED PRIOR TO EXCEEDANCE FLOW AS BELOW
FLOOD VOLUME = 386m³
MAX DEPTH = 275mm
MAX LEVEL = 10.690mm

DRAINAGE

1. REFER TO CIVIL AND STRUCTURAL SPECIFICATION REPORT - PART R.
2. CONTRACTOR SHOULD ENSURE THE LOCAL PLANNING AUTHORITY HAVE APPROVED THE DRAINAGE PROPOSALS PRIOR TO ORDERING MATERIAL OR INSTALLATION.

HYDRAULIC DESIGN:

3. THE SURFACE WATER NETWORK, FLOW CONTROL AND ATTENUATION HAS BEEN DESIGNED USING DRAINAGE SOFTWARE WITH FEH RAINFALL DATA.

STRATEGY:

4. DISCHARGE RATE RESTRICTED AT 4.2 l/s SUBJECT TO LLFA APPROVAL. THIS IS BASED ON A URBAN RATE CALCULATED USING ICP SUDS.
5. TOTAL ATTENUATION FOR 100YR+40% CLIMATE CHANGE BELOW GROUND = 425m³ & ABOVE GROUND = 107m³.

FINAL DRAINAGE CONNECTIONS:

6. WHERE THIRD PARTY APPROVAL IS REQUIRED THESE ARE NOTED AGAINST EACH DISCHARGE POINT ON THE DRAWING.
7. NO CONNECTION OR DISCHARGE SHOULD BE MADE UNTIL APPROVAL HAS BEEN RECEIVED. CHECK STATUS OF APPLICATION WITH ENGINEER.
8. CONTRACTOR SHOULD INVESTIGATE AND INSTALL FINAL DRAINAGE CONNECTIONS PRIOR TO INSTALLING ANY UPSTREAM DRAINAGE TO AVOID POTENTIAL LEVEL ISSUES.
9. EVERY EFFORT HAS BEEN MADE TO PROVIDE ACCURATE INFORMATION. HOWEVER, THE CONTRACTOR IS ADVISED TO CHECK ACTUAL CONDITIONS. I.E. THE LOCATION, ACCESSIBILITY, UNDERGROUND ROUTE, LEVELS, SIZES, CONDITION OF EXISTING SEWERS TO BE RE-USED AND/OR CONNECTED INTO.

GENERALLY:

10. DO NOT SCALE FROM THIS DRAWING, WORK TO DIMENSIONS OR CO-ORDINATES PROVIDED.
11. REPORT CONFLICTS TO ENGINEER IMMEDIATELY.
12. EVERY EFFORT HAS BEEN MADE TO ASCERTAIN TYPE, LOCATION AND DEPTH OF BURIED SERVICES AND/OR OBSTRUCTIONS. HOWEVER, THE CONTRACTOR IS ADVISED TO CARRY OUT OWN INVESTIGATIONS TO ENSURE THERE ARE NO CLASHES WITH THE PROPOSED WORKS.
13. CONTRACTOR IS RESPONSIBLE FOR PROTECTING RETAINED SERVICES AND MAKING CONTACT WITH OWNERS OF APPARATUS TO OBTAIN NECESSARY CONSENT FOR EXCAVATION, PROTECTION AND/OR DIVERTING.
14. BURIED OBSTRUCTIONS ENCOUNTERED DURING EXCAVATION THAT CONFLICT WITH PROPOSED WORKS SHOULD BE BROKEN OUT AND REMOVED. RESIDUAL VOIDS TO BE BACKFILLED AND COMPACTED AS PER SPECIFICATION.

NEW DRAINAGE:

15. INTERNAL FOUL POINTS ARE LOCATED AND SET OUT BY THE ARCHITECT.
16. TRADITIONAL RAINWATER DOWNPIPES ARE PROVIDED BY THE CLADDING CONTRACTOR AND COORDINATED WITH THE ARCHITECT.
17. PREFERRED LOCATIONS OF SIPHONIC DOWNPIPES ARE SHOWN AND ARE TO BE DESIGNED BY A SPECIALIST. THE WAREHOUSE SHOULD NOT DRAIN THROUGH OFFICE AREAS.
18. DESIGN ASSUMES THAT ALL WORKS ARE NOT TO BE ADOPTED.
19. GRADIENTS OF PIPES ARE AVERAGED. PIPE CONNECTIONS SHOULD BE INSTALLED TO THE STATED INVERT LEVELS.
20. COVER LEVELS OF THE MANHOLES ARE AVERAGED. COVER AND FRAME SHOULD BE SET TO SUIT FINISHED GROUND LEVELS.
21. ALL PIPEWORK WITHIN MANHOLES ARE TO BE LAID SOFFIT TO SOFFIT (U.N.O), INCLUDING BACKDROP PIPEWORK, WHERE THE RODDING ACCESS LEVEL IS SPECIFIED.
22. FLAT LATERAL CONNECTION TO BE 135° 'Y' JUNCTIONS (IE 45° OBLIQUE JUNCTIONS) RELATIVE TO MAIN RUN. TO BE USED ON FOUL OR SURFACE WATER RUNS. 90° OR 87½° SQUARE JUNCTIONS SUITABLE FOR SURFACE WATER CONNECTIONS ONLY.
23. SADDLE CONNECTIONS TO LARGER PIPES SHOULD BE MADE SO THAT THE INVERT LEVEL OF THE SMALLER PIPE DOES NOT ADJOIN BELOW MID HEIGHT OF THE LARGER PIPE.
24. PIPES CROSSING WITHIN 200MM OF EACH OTHER ARE TO BE ISOLATED BY CONCRETE FOR A MINIMUM DISTANCE OF 1M BEYOND CROSSING POINT IN ALL DIRECTIONS.
25. A CCTV DRAINAGE SURVEY TO BE CARRIED OUT ON COMPLETION TO PROVE THE INTEGRITY OF THE AS-BUILT DRAINAGE SYSTEMS.

ANCILLARY ITEMS:

26. WHERE PROPOSED CONTRACTOR MUST PROVIDE PROPOSALS FOR SUPPLY OF LINEAR DRAINAGE CHANNELS, KERB DRAINS, INTERCEPTORS, ATTENUATION, PUMPS, HYDROBRAKE, FILTER UNITS.
27. WHERE PROPOSED ALLOWANCE SHOULD BE MADE FOR POWER SUPPLY TO INTERCEPTORS AND PUMPS AND FOR INSTALLING CONTROL PANELS.

LEGEND

- EXISTING PUBLIC FOUL SEWER
- EXISTING PRIVATE FOUL DRAIN
- NEW FOUL WATER PIPE
- IC 0.45 — NEW FOUL WATER INSPECTION CHAMBER
- F000 1.20 — NEW FOUL WATER MANHOLE
- NEW DIVERTED FOUL DRAIN
- EXISTING FW DRAIN TO BE ABANDONED
- EXISTING PUBLIC STORM WATER SEWER
- EXISTING PRIVATE STORM WATER DRAIN
- NEW STORM WATER PIPE
- ASSUMED EXISTING SW DRAIN TO BE ABANDONED
- S000 0.45 — NEW STORM WATER INSPECTION CHAMBER
- S000 1.20 (CP) — NEW STORM WATER CATCHPIT MANHOLE
- S000 1.20 (VC) — NEW STORM WATER MANHOLE WITH VENTED COVER
- fp — FOUL WATER POP UP
- SyDp — SYPHONIC DOWN PIPE
- Rwp — RAIN WATER DOWN PIPE
- CONCRETE ENCASEMENT
- AB/OB — LINEAR DRAINAGE CHANNEL (ACCESS BOX/ OUTLET BOX)
- SITE BOUNDARY

Rev.	Date	Description	Technician	Reviewer
P2	28.01.26	PLANNING CONDITION INCORPORATED	AN	IL
P1	29.01.25	PRELIMINARY ISSUE	SH	GV

I&L CONSULTING Ltd
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Project: WEST ROAD, TOTTENHAM
Drawing: DRAINAGE PLANNING STRATGEY

Drawing Set	Drawing Status	Scale	Project Number	Drawing Number	Revision
DRAINAGE	PRELIMINARY	1:200 @ A1 1:400 @ A3	24-027-I&L	D00	P2