



PROPOSED ATTENUATION TANK:

- STORAGE VOLUME: 140m³ (APPROX.).
- DEPTH OF TANK: 1.02m
- COVER LEVEL OF GROUND: 121.40 WITH MINIMUM 800mm COVER)
- INVERT LEVEL OF BASE OF TANK: 118.937
- PRODUCT: HYDRO INTERNATIONAL'S STORMBLOC EXTRA OR SIMILAR APPROVED

PROPOSED ATTENUATION TANK:

- STORAGE VOLUME: 140m³
- DEPTH OF TANK: 1.000m
- TANK DIMENSION: 20x7x1.0 (m)
- COVER LEVEL OF GROUND: 120.900 WITH MINIMUM 800mm COVER)
- INVERT LEVEL OF BASE OF TANK: 118.930
- PRODUCT: HYDRO INTERNATIONAL'S STORMBLOC EXTRA OR SIMILAR APPROVED

NOTE:

EXISTING COMBINED DRAINAGE RUN TO BE RETAINED. THE CONTRACTOR TO CONFIRM THE COVER LEVEL AND INVERT LEVELS OF THE EXISTING COMBINED DRAINAGE MANHOLES/RUN ON SITE.
THE CONTRACTOR ALSO NEED TO MAKE SURE THAT THE EXISTING COMBINED DRAINAGE DOWNSTREAM RUN OF MH22 HAS ADEQUATE DRAINAGE NETWORK IN PLACE.

PROPOSED MANHOLE WITH FLOW CONTROL DEVICE (HYDROBRAKE) DISCHARGE RATE TO RESTRICT SURFACE WATER FLOW TO 5L/S.

15
CL: 120.700m
Depth: 1.861m
IL: 118.839m
Diam.: 1.200m

14
CL: 120.500m
Depth: 1.051m
IL: 119.449m
Diam.: 1.200m

8
CL: 120.550m
Depth: 1.473m
IL: 119.077m
Diam.: 1.200m

DIVERSION MANHOLE 4
CL: TBC
IL: TBC

EXISTING MANHOLE 09 (AS PER CCTV SURVEY)
CL: TBC
IL: TBC

NON-RETURN VALVE TO BE INSTALLED IN THIS MANHOLE.

PROPOSED SW & FW CONNECTION MANHOLE:

PROPOSED SURFACE WATER AND FOUL WATER DRAINAGE CONNECTION TO EXISTING FOUL WATER MANHOLE.

THIS MANHOLE AND THE ASSOCIATED OUTGOING PIPE TO BE REINSTATED TO A COMBINED DRAINAGE SYSTEM.

EX MH
CL: 120.070
IL: 118.390

DIVERSION MANHOLE 2
CL: 122.750m
Depth: 1.750m
IL: 120.756m
IL OUT: 119.950

DIVERSION MANHOLE 1
CL: 123.400m
Depth: 2.400m
IL: 120.980m
BACK DROP 1.5M

EX MANHOLE
CL: 123.310m
Depth: 0.710m
IL: 122.600m

Cellular Storage
EL: 120.900m
Depth: 1.000m
BL: 118.930m
Porosity: 95%
No. Crates L: 20
No. Crates W: 7
No. Crates H: 2
Outlets:
Free Discharge

PROPOSED PETROL INTERCEPTOR KLARGESTERS' AQUAOIL BYPASS MDPE & FULL RETENTION SEPARATOR. (PRODUCT REFERENCE NSBP003) OR SIMILAR APPROVED.

EX MH 05
CL: TBC
IL: TBC
THE CONTRACTOR TO CONFIRM MANHOLE DETAILS FOR EXISTING MANHOLES MH05 & MH09 ON SITE AND COORDINATE DIVERSION WITHIN THE REDLINE BOUNDARY TO MH09.
THE CONTRACTOR TO CONFIRM THAT THE DOWNSTREAM DRAINAGE NETWORK FROM MH09 IS ADEQUATE AND CONNECTED TO AN OUTFALL CONNECTION.

DIVERSION MANHOLE 3
CL: 122.10m
Depth:
IL: TBC

EX MANHOLE 08
THE CONTRACTOR TO CONFIRM THAT THIS MANHOLE DOES NOT SERVE ANYTHING UPSTREAM OUTSIDE REDLINE BOUNDARY. CCTV SURVEY INDICATES RUN ENDS HERE DUE TO DEBRIS IN MH.

20
CL: 120.730m
Depth: 1.219m
IL: 119.511m
Diam.: 1.050m

1
CL: 120.730m
Depth: 1.125m
IL: 119.605m
Diam.: 1.200m

21
CL: 120.730m
Depth: 1.396m
IL: 119.334m
Diam.: 1.050m

22
CL: 120.730m
Depth: 1.464m
IL: 119.266m
Diam.: 1.050m

23
CL: 120.730m
Depth: 1.495m
IL: 119.235m
Diam.: 1.050m

24
CL: 120.600m
Depth: 1.628m
IL: 118.972m
Diam.: 1.050m

- KEY
- REDLINE BOUNDARY
 - BLUELINE BOUNDARY
 - EXISTING FOUL WATER DRAINAGE
 - EXISTING SURFACE WATER DRAINAGE
 - EXISTING PRIVATE COMBINED WATER DRAINAGE
 - EXISTING PUBLIC COMBINED WATER SEWER
 - PROPOSED COMBINED SEWER
 - PROPOSED SURFACE WATER DRAINAGE
 - PROPOSED OIL SEPARATOR
 - PROPOSED ATTENUATION TANK
 - PROPOSED PERMEABLE PAVING
 - PROPOSED PERMEABLE PAVING PERFORATED PIPE
 - PROPOSED ACO DRAINAGE LINEAR CHANNEL
 - EXISTING FOUL WATER DRAIN DIVERTED
 - EXISTING SURFACE WATER DRAIN ABANDONED
 - EXISTING LINEAR CHANNEL TO BE RETAINED
 - PROPOSED RAINWATER PIPE
 - PROPOSED SOIL VENT PIPE
 - PROPOSED TRAPPED FLOOR GULLEY
 - PROPOSED YARD GULLEY

GENERAL NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL ENGINEER, ARCHITECT'S OR OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.
- ALL DIMENSIONS AND LEVELS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO PREPARING ANY WORKING DRAWINGS OR COMMENCING ON SITE.
- THE CONTRACTOR MUST ENSURE AND WILL BE HELD RESPONSIBLE FOR THE OVERALL STABILITY OF THE BUILDING/STRUCTURE/EXCAVATION AT ALL STAGES OF THE WORK.
- ALL WORK BY THE CONTRACTOR MUST BE CARRIED OUT IN SUCH A WAY THAT ALL REQUIREMENTS UNDER THE HEALTH AND REGULATIONS.
- ALL WORK IS TO BE CARRIED OUT IN COMPLIANCE WITH THE REQUIREMENTS OF THE RELEVANT STATUTORY AUTHORITIES
- THE PROPOSED ARCHITECTS LAYOUT IS BASED ON THE DESIGN BURD'S DRAWING "08C1762-DBG-ENB-00-OR-0650" REV P07 DATED 23.05.2024
- THE TOPOGRAPHICAL SURVEY INFORMATION IS BASED ON SURVEY SOLUTIONS DRAWING "244220-01" DATED 24/05/19.
- THE EXISTING UTILITY SURVEY INFORMATION IS BASED ON C L B SURVEY LTD'S DRAWING "JAZ3-4862-1" DATED JANUARY 2023.
- THE EXISTING PUBLIC SEWER INFORMATION IS BASED ON SEVERN TRENT'S SEWER RECORD PLAN.
- PROPOSED CATCHMENT AREA IS CALCULATED BASED ON ASSUMED IMPERMEABILITY COEFFICIENT OF 0.95 FOR IMPERMEABLE AREAS. THE APPROXIMATE OVERALL EFFECTIVE IMPERMEABLE AREA FOR THE SITE IS 0.280ha.
- THE PROPOSED OVERALL ATTENUATION STORAGE VOLUME OF 140m³ IS SIZED BASED ON A MAXIMUM ALLOWABLE SURFACE WATER DISCHARGE RATE OF 5 L/S FOR THE 1 IN 100 YEAR CRITICAL STORM RETURN PERIOD WITH 40% ALLOWANCE FOR CLIMATE CHANGE. ALLOWANCE FOR CLIMATE CHANGE.
- THE PROPOSED ATTENUATION IS PROVIDED IN THE FORM OF SUDS FEATURE SUCH AS PERMEABLE PAVING AND BELOW GROUND CELLULAR CRATES/TANK.
- THE PROPOSED SURFACE WATER DRAINAGE STRATEGY IS SUBJECT TO FURTHER SITE INVESTIGATIVE WORKS AND THIRD PARTIES APPROVAL.
- THE PROPOSED SURFACE WATER DRAINAGE STRATEGY IS BASED ON ASSUMED FINISHED FLOOR LEVELS AND EXTERNAL LEVELS THAT WORKS WITH THE DRAINAGE DESIGN DICTATED BY THE OUTFALL INVERT LEVEL OF 118.390.
- SECTION 108 APPLICATION WILL BE REQUIRED FOR BOTH SURFACE WATER AND FOUL WATER CONNECTIONS FROM SEVERN TRENT WATER.
- IMPERMEABLE LINED PERMEABLE PAVING ARE PROVIDED IN PARKING BAYS CONTRIBUTING TO SUSTAINABLE DRAINAGE OF ONSITE SURFACE WATER RUNOFF.
- PROPOSED PETROL INTERCEPTOR PRODUCT BY KLARGESTER IS DESIGNED TO PROVIDE ONSITE SURFACE WATER TREATMENT BEFORE RUNOFF IS DISCHARGED TO CELLULAR CRATES/TANK AND THEN TO OUTFALL.
- THE EXISTING ACCESS ROAD TO THE WEST OF THE SITE UP TO THE ENTRANCE INTO THE SITE IS EXCLUDED FROM DRAINAGE DESIGN. IT IS ASSUMED THAT THE EXISTING DRAINAGE SYSTEM WITHIN THE ROAD IS ADEQUATE AS THE TOPO SURVEY INDICATE GULLEYS AND MANHOLE PRESENT IN THE ROAD.
- THE EXISTING LINEAR CHANNEL AT THE ENTRANCE OF THE SITE IS TO BE RETAINED. THE CONTRACTOR TO CONFIRM ON SITE THE OUTFALL CONNECTION OF THIS LINEAR CHANNEL.
- PRIOR TO COMMENCEMENT OF WORKS, CONTRACTOR TO CHECK PRESENCE OF ALL BELOW GROUND SERVICES AND DRAINAGE, AND INFORM THE ENGINEER.
- RWPS AND FOUL DOWN POINTS ARE PROVIDED BY ARCHITECT.

Rev	Date	Description	By	Chk
C01	30.05.24	STAGE 4 ISSUE	AS	SS
A02	08.08.23	REDLINE BOUNDARY AND SITE LAYOUT UPDATED	AS	RB
A01	02.06.23	FIRST ISSUE	RL	RB

Amendments

Project

HINCKLEY CDC AND ENDOSCOPY

Title

PROPOSED SURFACE WATER AND FOUL WATER DRAINAGE STRATGEY

Client

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Work Stage
STAGE 4
Technical Design

Subsidiary
RIBA

Designed By
RB
Director
SS
Waterman Ref
WIE19849

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RL
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