A1

Existing gully (D06) to be retained

Existing gully (D05) to be retained

Existing gully (D07) to be retained

Existing pond overflow (D09) to be removed

Roof drainage conveys water to the North west corner

Proposed downpipe location - position to be reviewed at detailed design to optimize connectivity to proposed attenuation tank

Proposed drainage to connect into existing manhole. The Contractor should assess the feasibility of the backdrop/saddle connection based on drainage survey results. For standard connection details, refer to drawing (CRB-ARUP-XX-XX-DR-C-00005).

Existing surface water drainage manhole

Assumed Depth = circa 7.5m

Internal or external backdrop required to connect to main drainage (survey to confirm connectivity and condition)

Proposed manhole with Hydrobrake
Dia. 1200mm
CL - 166.000 mAOD (assumed)
IL - 164.069 mAOD

Proposed surface water attenuation tank

Area = 175m2

Volume = 5.478m3

Qex = 3.0 l/s

Qmax = 2.0l/s

Climate Change Allowance = 40%

Proposed inspection chamber
Dia. - 450mm
CL - 165.900 mAOD (assumed)
IL - 164.113 mAOD

Circa. 40m^2 infill required to pond area

Existing gully (D04) to be removed

Existing gully (D01) to be retained

Existing pond overflow (D03) to be retained. Connection to proposed perforated pipe drainage system. Additional drainage surveys required to verify condition and capacity. Refer to the Civil Specification (CRB-ARUP-XX-XX-FC-C-000001)

Existing gully (D02) to be retained

Connection into existing pond overflow

Proposed inspection chamber 450mm dia

100mm perforated pipes within pond backfill

Pond structure to be modified to enclose the southern retained pond section. Waterproofing detail to be developed to maintain watertightness

Existing pond overflow to be retained. Additional drainage surveys required to verify condition and capacity. Refer to the Civil Specification (CRB-ARUP-XX-XX-FC-C-000001)

CDM-35

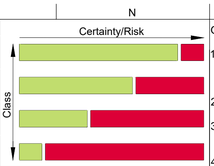
CDM-36
CDM-43

CDM-30

CDM-41

CDM-33

Located Service Classification	
Type A Verification - Visual identification	
Type B Detection - Typically GPR and EML techniques are used	
Type C Site reconnaissance - Physical surface features identified	
Type D Desktop utility records search	



GENERAL NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER DRAWINGS, SPECIFICATIONS AND CONTRACT DOCUMENTS. TO NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES.
2. ALL LEVELS ARE IN METRES ABOVE ORDNANCE DATUM UNLESS NOTED OTHERWISE.
3. DO NOT SCALE FROM DRAWING, USE FIGURED DIMENSIONS ONLY AND RAISE ANY QUERIES OR DISCREPANCIES TO THE PROJECT MANAGER.
4. SUDS REQUIREMENTS TO BE DISCUSSED WITH LOCAL AUTHORITY DURING DESIGN DEVELOPMENT.
5. IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORKS DETAILED ON THIS DRAWING, THIS DRAWING HIGHLIGHTS SPECIFIC RISKS FROM THE CDM RISK REGISTER.
6. DRAWING BASED OFF ADIEN TOPO AND GPR SURVEY INFORMATION DRAWING (6882-1011-01/02) DATED 15/11/2011. CONTRACTOR TO USE NEW TOPO AND GPR SURVEY INFORMATION TO INFORM DETAILED DESIGN
7. PROPOSED LANDSCAPE PLAN FROM AXIS ARCHITECTURE - DATED 05/06/2024.
8. GULLY POSITIONS/ I.D. BASED OFF NG BAILEY SURVEY INFORMATION (15118112) DATED 24/05/2024.
9. POSITION OF RETAINED GULLIES TO BE REVIEWED AT DETAILED DESIGN AGAINST PROPOSED LANDSCAPE LEVELS.
10. FOR INTERNAL DRAINAGE CONNECTIONS - REFER TO DRAWING CRB-ARUP-XX-XX-DR-C-000007
11. UTILITIES HAVE BEEN DRAWN TO PAS128 STANDARD. THE LOCATED SERVICE CLASSIFICATION TABLE GIVES A BRIEF OVERVIEW. FOR FURTHER DETAILS REFER TO DOCUMENT 'PAS 128:2022 SPECIFICATION FOR UNDERGROUND UTILITY DETECTION, VERIFICATION AND LOCATION'.
12. WHERE DRAINAGE REMOVAL IS SHOWN, SLAB VOID TO BE SEALED TO TIE INTO EXISTING WATERPROOFING MEMBRANE

LEGEND

- PRIMARY WORK ZONE BOUNDARY
- E-LV-D — EXISTING ELECTRIC LV
- E-UKN-D — EXISTING ELECTRIC UNKNOWN
- W-DT-D — EXISTING WATER MAIN
- D-FWD-D — EXISTING FOUL WATER
- D-SWD-D — EXISTING SURFACE WATER
- T-UKN-D — EXISTING TELECOMMUNICATIONS
- G-UKN-D — EXISTING GAS
- U — EXISTING UNKNOWN UTILITY
- Ab-ELEC — ELECTRIC TO BE ABANDONED
- Ab-WATER — WATER TO BE ABANDONED
- EXISTING GULLY
- EXISTING POND OVERFLOW
- EXISTING CHAMBER
- PROPOSED DRAINAGE PIPE
- PROPOSED PERFORATED PIPE
- PROPOSED ACO CHANNEL DRAIN
- PROPOSED INSPECTION CHAMBER
- PROPOSED ATTENUATION TANK
- PROPOSED CHAMBER

Issue	Date	
P01	21/06/24	Suitable for Review and Comment

ARUP

9th Floor, 3 St. Paul's Place, Norfolk Street
Sheffield S1 2JE, United Kingdom
Tel +44 (0)114 272 8247
www.arup.com

Client
HSBC

Project Title
SYGDC CR-B REFURBISHMENT

Drawing Title
PROPOSED DRAINAGE EXTERNAL PLAN

Scale at A1: 1:100
Dsg/Drw/Chkd/Appd: JH/DR/NB
Role: CIVIL
Status: S3 - Suitable for Review and Comment
Arup Job No: 297776-00
Rev: P01
ID: CRB-ARUP-XX-XX-DR-C-00004

Do not scale

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