STORM DESIGN DETAILS

TOTAL STORAGE = 304m³ GEOCELLULAR CRATES
CELLULAR TANK INCLUDING ALLOWANCE FOR 95% VOID RATIO - STORAGE 40x6.3x.21m DEEP PROVIDES 304m³ OF STORAGE WITH MIN 1m COVER OVER 1:150 SLOPE ACROSS TANK - SDS GEOLIGHT 400 CRATES WITH INTEGRAL FILTER DRAIN SET AT INVERT LEVEL OF TANK OR SIMILAR APPROVED. ANY SIMILAR APPROVED CRATE SYSTEMS MUST HAVE A BUILT IN FILTER DRAIN SYSTEM.
PIPE DESIGN BASED ON 1 IN 2 YEAR DESIGN STORM
STORAGE DESIGN BASED ON 1 IN 100 STORM EVENT + 40% CLIMATE CHANGE BEING STORED UNDERGROUND.
HYDROBRAKE LOCATED IN DOWNSTREAM 1200mmØ MANHOLE CHAMBER RESTRICTING FLOWS TO 3.1 L/SEC WHICH IS A 30% REDUCTION ON THE GREENFIELD QBAR DISCHARGE RATE AS REQUESTED BY WESSEX WATER.
MODEL: MD-SHE-0071-3100-2000-3100
S106 AGREEMENT WITH WESSEX WATER WILL BE REQUIRED PRIOR TO MAKING CONNECTION TO EXTG MH 5420

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARDS / RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO CURRENT CDM RISK ASSESSMENT REGISTERS

KEY TO HEALTH AND SAFETY SYMBOLS

- INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION
- INDICATES A RESIDUAL RISK FOR INFORMATION
- INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION
- INDICATES A RESIDUAL RISK AS A WARNING

SAFETY, HEALTH AND ENVIRONMENT INFORMATION

NOTES BELOW ARE ADDITIONAL TO HAZARDS/RISKS NORMALLY ASSOCIATED WITH THIS TYPE OF WORK

CONSTRUCTION
#1 - WORKING NEAR TREE ROOTS - ADHERE TO ARBORICULTURIST RECOMMENDATIONS
#2 - WORKING NEAR LIVE SERVICES - SUB-SCAN UNDERTAKEN TO IDENTIFY PLANT TYPE AND DEPTHS - RE-SCAN BEFORE EXCAVATING - HAND DIG MAY BE NECESSARY

DEMOLITION

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE, AND CDM RISK REGISTER

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT

SEYMOUR ROAD

COMMUNITY HOSPITAL

TROWBRIDGE HEALTH CENTRE

ADCROFT STREET

LINEAR DRAINAGE CHANNEL

FILTER DRAIN

#1-TREE ROOTS

#3-PROPOSEDHV

SM01
450Ø PPIC
C.L. 48.375
I.L. 47.750

SM02
450Ø PPIC
C.L. 48.725
I.L. 47.310

150Ø 1:150

150Ø 1:12

RE
C.L. 48.805
I.L. 48.355

M03
450Ø PPIC
C.L. 48.725
I.L. 47.287

RE
C.L. 48.845
I.L. 48.005

FM03
450Ø PPIC
CL 48.800
IL 48.050

FM04
450Ø PPIC
CL 48.800
IL 47.532

FM01
450Ø PPIC
CL 48.985
IL 48.235

FM02
450Ø PPIC
CL 48.932
IL 47.636

100Ø @ 1:40
300Ø FPPIC
FFL = 49.000
100Ø @ 1:100
150Ø 1:150
150Ø 1:60
100Ø @ 1:40
150Ø 1:76

ATTENUATION TANK
SDS GEOLITE GEOCELLLULAR TANK
40m x 6.3m x 1.2m x 95% VOID
RATIO = 304m³ STORAGE VOLUME.
C.L. 48.460
I.L. 46.425

SM09
1200x900
BRICK
C.L. 48.410
I.L. 46.900

DOWNSTREAM DEFENDER
HYDRO-INTERNATIONAL
1.0m ADVANCED VORTEX
MODEL REF. DDC10-620-C-225
C.L. 48.440
I.L. 46.705

SM10
1200x900
BRICK
C.L. 48.540
I.L. 47.000

SM06
600Ø PPIC
C.L. 48.768
I.L. 46.998

SM05
450Ø PPIC
C.L. 48.944
I.L. 47.340

FM05
1200x900
BRICK
C.L. 48.769
I.L. 47.389

SM08
1200Ø PCC
CATCHPIT
C.L. 48.750
I.L. 46.710
300 SUMP

225Ø 1:65
225Ø 1:35
225Ø 1:23
225Ø 1:35

SM11
1200Ø FCC
HYDROBRAKE
C.L. 48.550
I.L. 46.395

400Ø FLOW CONTROL PLATE

1500 @ 1:140

WG

#2-LIVE SERVICES

FM08
1200x900
BRICK
CL 48.311
IL 46.801

FM09
1200Ø PCC
CL 48.684
IL 46.707

150Ø @ 1:140

100Ø @ 1:28

FM06
1200x900
BRICK
C.L. 48.817
I.L. 47.617

FM07
1200x900
BRICK
C.L. 48.740
I.L. 47.173

Ex.MH 5419
CL 48.67
IL 46.100 (225Ø)
IL 46.175 (150Ø)

Ex. MH 5420
C.L. 48.570
I.L. 45.970

150Ø @ 1:140
300Ø 1:240

SM15
12000Ø PCC
C.L. 48.700
I.L. 46.000

FM11
1200Ø PCC
CL 48.720
IL 46.277

#1-TREE ROOTS
#2-LIVE SERVICES

SM14
1200Ø PCC
C.L. 48.600
I.L. 46.025

#2-LIVE SERVICES

FM10
1200Ø PCC
CL 48.810
IL 46.588

SM13
1200Ø PCC
C.L. 48.620
I.L. 46.215

SM12
1200Ø PCC
C.L. 48.405
I.L. 46.270

300Ø 1:240

PIPE ROUTING THROUGH ADJACENT HOSPITAL
PIPE ROUTE THROUGH ADJACENT LAND OF EXISTING HOSPITAL SUBJECT TO ONGOING DISCUSSION WITH NHS TRUST (UNDER SAME OWNERSHIP AS PROPOSED SITE) - SUBJECT TO CONSTRAINTS INCLUDING EXISTING TREES, BOUNDARIES AND UTILITIES

0 5 10 15 20
SCALE - 1: 250 (A1) METRES

GENERAL NOTES

1. DO NOT SCALE FROM THIS DRAWING.
2. ALL DIMENSIONS ARE IN MILLIMETRES (mm), ALL LEVELS IN METRES (m) UNLESS NOTED OTHERWISE.
3. DISCREPANCIES OR OMISSIONS ARE TO BE REPORTED TO THE ENGINEER PRIOR TO WORK COMMENCING.
4. MATERIALS AND WORKMANSHIP ARE TO COMPLY IN ALL RESPECTS WITH CURRENT BRITISH STANDARD SPECIFICATIONS, CODES OF PRACTICE, AND BUILDING REGULATIONS APPROVED DOCUMENTS.
5. THE COPYRIGHT OF THIS DRAWING IS VESTED IN THE ENGINEER AND MUST NOT BE COPIED OR REPRODUCED WITHOUT WRITTEN CONSENT.
6. THE CONTRACTOR IS TO CHECK AND VERIFY ALL BUILDING AND SITE DIMENSIONS, LEVELS AND SEWER INVERT LEVELS AT CONNECTION POINTS BEFORE WORK COMMENCES.
7. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SPECIFICATIONS AND DRAWINGS ISSUED BY THE ENGINEER, ARCHITECT AND OTHER SPECIALISTS.
8. WHERE PRODUCTS ARE NAMED EQUIVALENT PRODUCTS CAN BE SUBSTITUTED PROVIDED THEY ACHIEVE THE SAME OR BETTER PERFORMANCE LEVELS.
9. EXISTING HIGHWAY GULLIES ALONG HAMMERSMITH FIELDS TO BE JETTED UPON COMPLETION OF CONSTRUCTION WORKS.

KEY

- LAND OWNERSHIP BOUNDARY
- SITE BOUNDARY
- SW — SW — EXISTING STORM WATER PIPE
- EXISTING STORM WATER MANHOLE
- PROPOSED STORM WATER PIPE
- PROPOSED STORM WATER MANHOLE
- FW — FW — EXISTING FOUL WATER PIPE
- EXISTING FOUL WATER MANHOLE
- PROPOSED FOUL WATER PIPE
- PROPOSED FOUL WATER MANHOLE
- LINEAR DRAINAGE CHANNEL
- RODDING EYE
- ATTENUATION TANK
- G GULLY
- A/S ACCESS/SUMP BOX
- WG WASH DOWN GULLY
- FILTER DRAIN
- SVP
- RWP

REV	DESCRIPTION	DATE	BY
P05	UPDATED PHASE 1 DRAINAGE AS PER TICC-ONE-ZZ-XX-DR-L-0010 P04 P1 LANDSCAPE MASTERPLAN	19.07.24	DE
P04	SVPs AND RWPs ADDED	05.07.24	AB
P03	AMENDED TO SUIT UPDATED LANDSCAPE MASTERPLAN	28.06.24	DE
P02	STAGE 3 ISSUE	19.04.24	BA
P01	INITIAL ISSUE	18.12.23	BA

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CLIENT

Tilbury Douglas
NHS Bath and North East Somerset, Swindon and Wiltshire Integrated Care Board

PROJECT NUMBER

P1402

PROJECT TITLE

TROWBRIDGE INTEGRATED CARE CENTRE

DRAWN BY :	POSITION :	DATE :
BA	AE	18.12.2023
CHECKED BY: A'isha Baig	POSITION: Senior Engineer	DATE: 19/07/2024
APPROVED FOR ISSUE BY: A'isha Baig	POSITION: Senior Engineer	DATE: 19/07/2024

DRAWING TITLE

PHASE 1
PRIVATE DRAINAGE PLAN

DRAWING STATUS
S3 - Suitable for Review & Comment

SCALE 1 : 250 | DRAWING SIZE A1

DRAWING NUMBER TICC-ONE-ZZ-XX-DR-C-3001 | REVISION P05

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