STORM DESIGN DETAILS

TOTAL STORAGE = 473m³ SPLIT BETWEEN PERMEABLE TARMACADAM TO CAR PARK AND CELLULAR CRATE STORAGE FOR ROOF AND HGV/TURNING AREA.

PERMEABLE TARMAC ALLOWED FOR BETWEEN 350mm AND 400mm THICK WITH 30% VOID RATIO PROVIDES NOTIONALLY 300m³ OF STORAGE

CELLULAR TANK INCLUDING ALLOWANCE FOR 95% VOID RATIO - STORAGE 26x7x1m DEEP PROVIDES 173m³ OF STORAGE WITH MIN 1m COVER OVER DUE TO HGV LOADING
1:250 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 30 YEAR EVENT BEING STORED UNDERGROUND AND CHECKED FOR 1 IN 100 YEAR +40% STORM EVENT BEING CONTAINED WITHIN SITE
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 ST

POROUS CAR PARK STRUCTURE
PERMEABLE TARMAC CAR PARK TO HAVE MEMBRANE DEPTH OF 0.35-0.475m.
COVER LEVEL VARIES
INVERT LEVEL VARIES

1500 PERFORATED FILTER DRAIN TO RUN BENEATH SUB-BASE AT A GRADIENT OF 1:500 >>>

EV EV EV EV EV EV EV

PERMAVOID DIFFUSER UNIT I.L. 47.265

PERMAVOID DIFFUSER UNIT I.L. 48.170

PERMAVOID DIFFUSER UNIT I.L. 48.200

PERMAVOID DIFFUSER UNIT I.L. 48.180

drop off

main entrance

FFL = 49.000
CONX IL = 48.450

Ambulance and Delivery access

Access Road - NOT UNDER NHSPS OWNERSHIP

Mature Hedgerow / Line of trees

C.L. 48.115
I.L. 47.600

1:12

C.L. 48.825
I.L. 48.215

C.L. 48.810
I.L. 48.315

RE
C.L. 48.815
I.L. 48.365

1:150

CL 48.940
IL 48.225

C.L. 48.830
I.L. 48.200

CL 48.915
IL 48.145

100Ø @ 1:40

CL 48.915
IL 47.945

RE
C.L. 48.995
I.L. 48.545

100Ø @ 1:80

C.L. 48.960
I.L. 48.410

C.L. 48.770
I.L. 48.260

CL 48.765
IL 47.210

CL 48.930
IL 47.540

1:35

150Ø @ 1:150

C.L. 48.695
I.L. 47.540

C.L. 48.645
I.L. 47.595

CL 48.670
IL 47.090

CL 48.660
IL 47.445

C.L. 48.790
I.L. 48.150

SM03
600x900 BRICK
C.L. 48.480
I.L. 47.800
300 SUMP

300Ø 1:13

SHALLOW PIPES
WHERE PIPES IN ROAD,TRAFFICKED AND PARKING AREAS HAVE LESS THAN 1.2m COVER, ALLOW FOR ENCASING IN C20 CONCRETE PROTECTION

CATCHPIT
C.L. 48.375
I.L. 46.530
300 SUMP

ATTENUATION TANK
SDS GEOLITE GEOCELLULAR TANK
26m x 7m x 1m x 95% VOID RATIO = 173m³ STORAGE VOLUME.
C.L. 48.505
I.L. 46.505

CATCHPIT
C.L. 48.525
I.L. 46.535
300 SUMP

1:11

HYDROBRAKE
C.L. 48.680
I.L. 46.385

CL 48.445
IL 46.775

150Ø @ 1:150

CL 48.655
IL 46.665

#2-LIVE SERVICES

#1-TREE ROOTS
#2-LIVE SERVICES

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

300Ø 1:240

CL 48.720
IL 46.270

C.L. 48.700
I.L. 46.000

C.L. 48.600
I.L. 46.025

CL 48.810
IL 46.560

C.L. 48.620
I.L. 46.213

C.L. 48.405
I.L. 46.270

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
- EXISTING STORM WATER PIPE
- EXISTING STORM WATER MANHOLE
- PROPOSED STORM WATER PIPE
- PROPOSED STORM WATER MANHOLE
- EXISTING FOUL WATER PIPE
- EXISTING FOUL WATER MANHOLE
- PROPOSED FOUL WATER PIPE
- PROPOSED FOUL WATER MANHOLE
- EXISTING COMBINED WATER PIPE
- EXISTING COMBINED WATER MANHOLE
- PROPOSED COMBINED WATER PIPE
- PROPOSED COMBINED WATER MANHOLE
- LINEAR DRAINAGE CHANNEL
- PERFORATED PIPE FILTER DRAIN
- RODDING EYE
- PERMAVOID DIFFUSER UNIT
- ATTENUATION TANK
- PERMEABLE PAVING

REV	DESCRIPTION	DATE	BY
P01	INITIAL ISSUE	18.12.23	BA

DESIGNER

ONE Creative environments
Worcester 01905 362 300 · Birmingham 0121 312 3876 · London 0208 059 6526 · Cardiff 029 2002 7983
oneltd.com

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: Gavin Vickers	POSITION: Technical Director	DATE: 18/12/2023
APPROVED FOR ISSUE BY: Gavin Vickers	POSITION: Technical Director	DATE: 18/12/2023

DRAWING TITLE

PRIVATE DRAINAGE PLAN

DRAWING STATUS
S2 - Suitable for Information

SCALE 1 : 250 DRAWING SIZE A1

DRAWING NUMBER TICC-ONE-ZZ-XX-DR-C-3001 REVISION P01

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