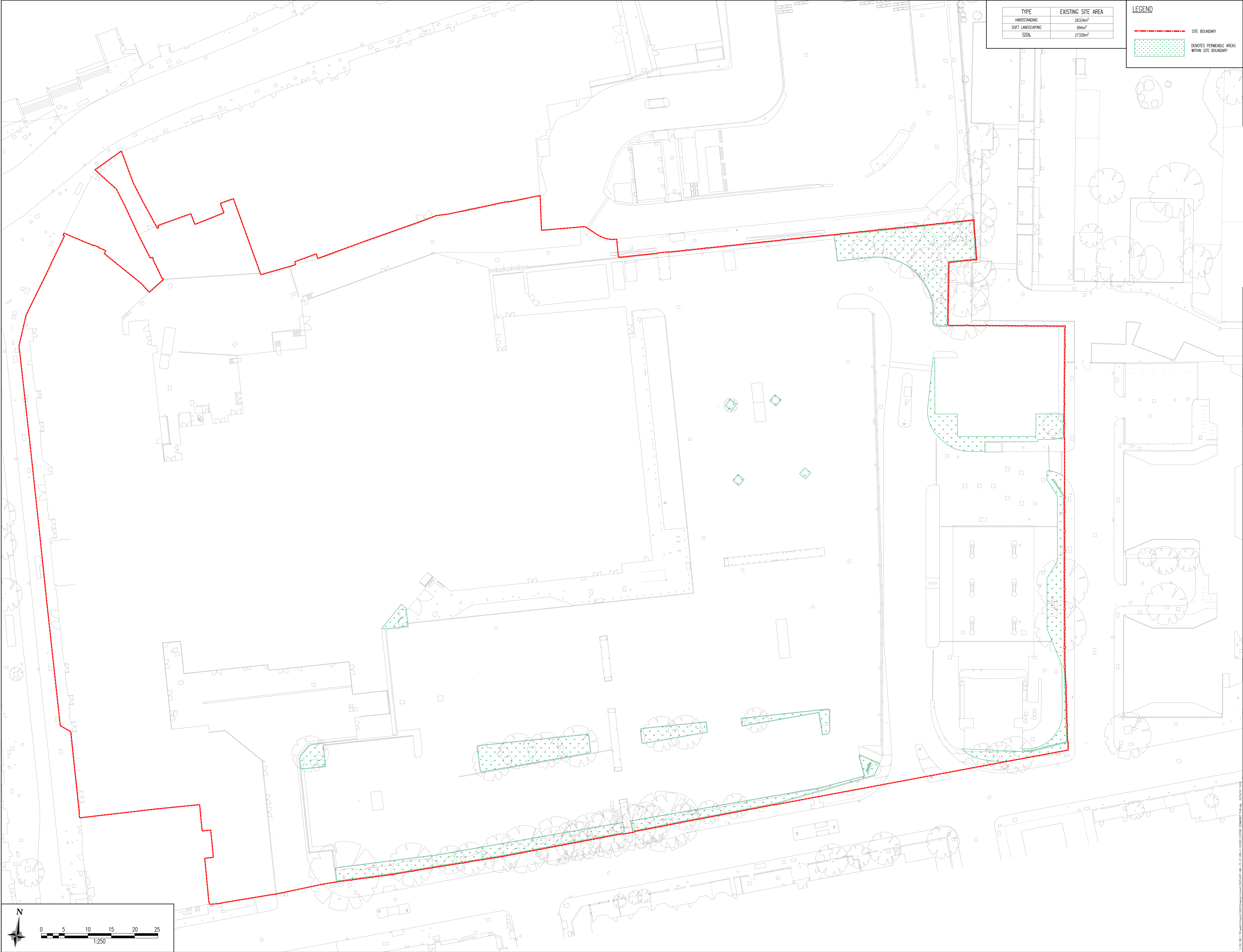




TYPE	EXISTING SITE AREA
HARDSTANDING	26334m ²
SOFT LANDSCAPING	994m ²
TOTAL	27328m ²

LEGEND

--- SITE BOUNDARY

■ DENOTES PERMEABLE AREAS WITHIN SITE BOUNDARY

- Notes**
1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.
 2. THIS DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS.
 3. THIS DRAWING HAS BEEN PRODUCED ELECTRONICALLY AND MAY HAVE BEEN PHOTO REDUCED OR ENLARGED WHEN COPIED. HENCE, DO NOT RELY ON ANY SCALES QUOTED. WORK ONLY TO FIGURED DIMENSIONS (DO NOT SCALE). ALL DIMENSIONS TO BE CHECKED ON SITE. ANY ERRORS OR OMISSIONS TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

THIS DRAWING IS BASED ON THE FOLLOWING CONSULTANTS FILES

TOPO SURVEY:
10042-01
DATE RECEIVED: 16.03.22

Rev.	Date	By	Details Of Revision
P01	26.04.24	JB	ISSUED FOR DRAFT PLANNING REVIEW

Client
BERKELEY HOMES

Project
AYLESHAM CENTRE PECKHAM

Title
EXISTING PERMEABLE AREAS PLAN

WALSH Structural and Civil Engineers
32 Lafone Street
London
SE1 2LX
t: +44(0)20 7089 6800
e: london@walsh.co.uk
walsh.co.uk

Status
PRELIMINARY

Drawn	JB	AS Scale	1:250	App'd.	JK
Date	APR 24	Eng.	WR	Chk.	JK
WA Ref.	5659	Suitability			

Drawing No.	Rev.
ASPC-WAL-ZZ-ZZ-DCA-C-003900	P01

TYPE	PROPOSED SITE AREA
HARDSTANDING	24891m ²
SOFT LANDSCAPING	24371m ²
TOTAL	27326m ²

N.B. SOFT LANDSCAPED AREA NOTED AT GROUND LEVEL ONLY. ADDITIONAL SOFT LANDSCAPING AT ROOF LEVEL IS NOT INCLUDED IN THIS TABLE. REFER TO ARCHITECTURAL ROOF PLANS.

LEGEND

--- SITE BOUNDARY

--- DENOTES AREA OF PERMEABLE SOFT LANDSCAPING

Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS.
3. THIS DRAWING HAS BEEN PRODUCED ELECTRONICALLY AND MAY HAVE BEEN PHOTO REDUCED OR ENLARGED WHEN COPIED. HENCE, DO NOT RELY ON ANY SCALES QUOTED. WORK ONLY TO FIGURED DIMENSIONS (DO NOT SCALE). ALL DIMENSIONS TO BE CHECKED ON SITE. ANY ERRORS OR OMISSIONS TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

THIS DRAWING IS BASED ON THE FOLLOWING CONSULTANTS FILES

LANDSCAPE LAYOUT:
P21673-00-001-GL-0100 GA Landscape Plan Ground Floor
DATE RECEIVED: 14.04.24

P01 26.04.24 JB ISSUED FOR DRAFT PLANNING REVIEW

Rev. Date By Details Of Revision

Client

BERKELEY HOMES

Project

AYLESHAM CENTRE PECKHAM

Title

PROPOSED PERMEABLE AREAS PLAN

W
WALSH
Structural and Civil Engineers
32 Lafone Street
London
SE1 2LX
t: +44(0)20 7089 6800
e: london@walsh.co.uk
walsh.co.uk

Status

PRELIMINARY

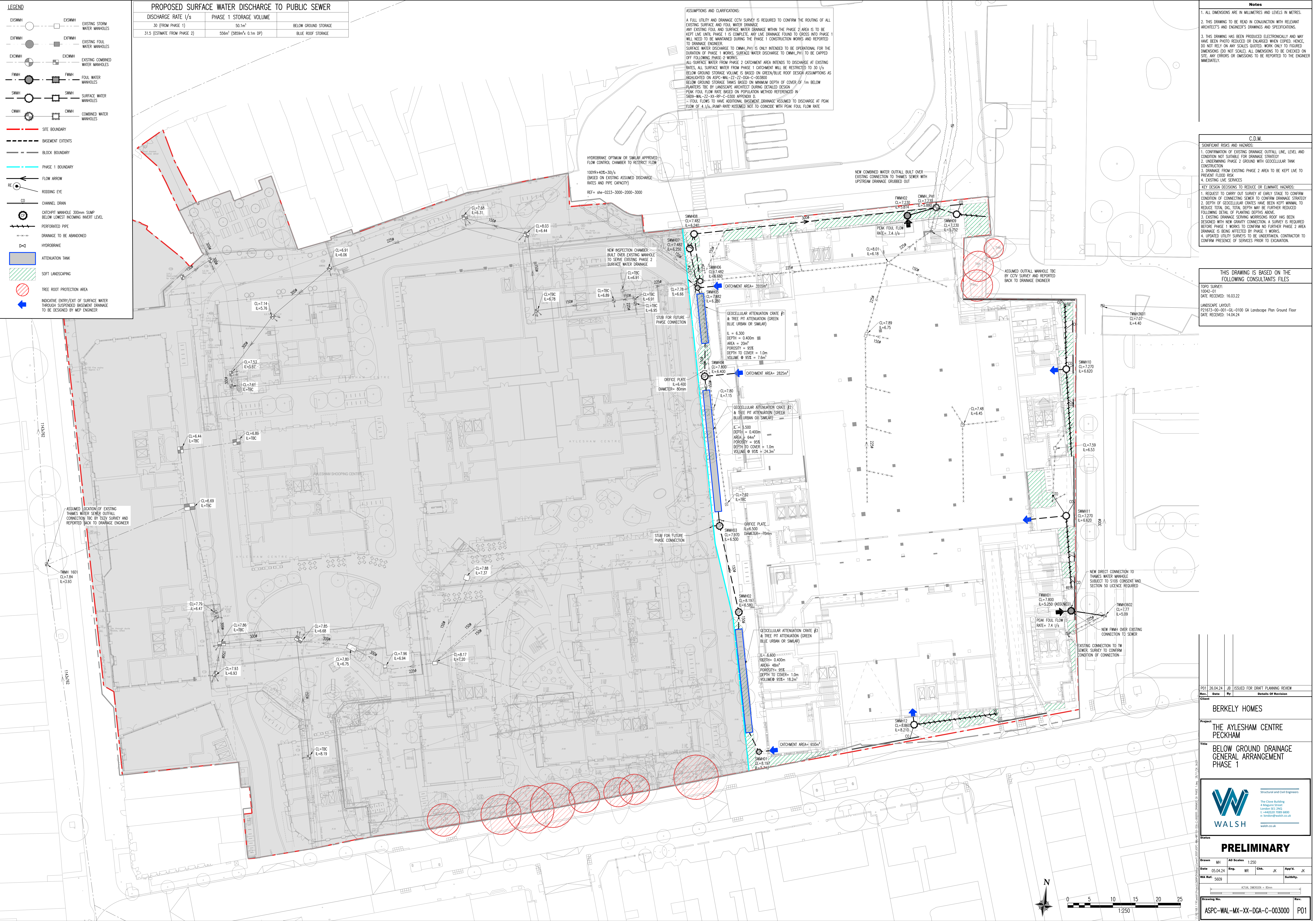
Drawn JB AD Scale 1:250

Date 29/04/24 Eng. WR Chk. JK App'd. JK

WA Ref. 5659 Suitability:

ACTUAL DIMENSION = 80mm

Drawing No. ASPC-WAL-ZZ-ZZ-DGA-C-003901 Rev. P01



LEGEND

- EXISTING STORM WATER MANHOLES
- EXISTING FOUL WATER MANHOLES
- EXISTING COMBINED WATER MANHOLES
- FOUL WATER MANHOLES
- SURFACE WATER MANHOLES
- COMBINED WATER MANHOLES
- SITE BOUNDARY
- BASEMENT EXTENTS
- BLOCK BOUNDARY
- PHASE 1 BOUNDARY
- FLOW ARROW
- RODDING EYE
- CHANNEL DRAIN
- CATCHPIT MANHOLE 300mm SUMP BELOW LOWEST INCOMING INVERT LEVEL
- PERFORATED PIPE
- DRAINAGE TO BE ABANDONED
- HYDROBRAKE
- ATTENUATION TANK
- SOFT LANDSCAPING
- THREE ROOF PROTECTION AREA
- INDICATIVE ENTRY/EXIT OF SURFACE WATER THROUGH SUSPENDED BASEMENT DRAINAGE TO BE DESIGNED BY MEP ENGINEER

PROPOSED SURFACE WATER DISCHARGE TO PUBLIC SEWER		
DISCHARGE RATE l/s	PHASE 1 STORAGE VOLUME	
30 (FROM PHASE 1)	50.1m³	
31.5 (ESTIMATE FROM PHASE 2)	556m³ (589mm x 0.1m DP)	
		BELOW GROUND STORAGE
		BLUE ROOF STORAGE

ASSUMPTIONS AND CLARIFICATIONS:

A FULL UTILITY AND DRAINAGE CCTV SURVEY IS REQUIRED TO CONFIRM THE ROUTING OF ALL EXISTING SURFACE AND FOUL WATER DRAINAGE WITHIN THE PHASE 2 AREA IS TO BE KEPT LIVE UNTIL PHASE 1 IS COMPLETE, ANY LIVE DRAINAGE FOUND TO CROSS INTO PHASE 1 WILL NEED TO BE MAINTAINED DURING THE PHASE 1 CONSTRUCTION WORKS AND REPORTED TO DRAINAGE ENGINEER.

SURFACE WATER DISCHARGE TO CWMH-PH1 IS ONLY INTENDED TO BE OPERATIONAL FOR THE DURATION OF PHASE 1 WORKS. SURFACE WATER DISCHARGE TO CWMH-PH1 TO BE CAPPED OFF FOLLOWING PHASE 1 WORKS.

ALL SURFACE WATER FROM PHASE 2 CATCHMENT AREA INTENDS TO DISCHARGE AT EXISTING RATES. ALL SURFACE WATER FROM PHASE 1 CATCHMENT WILL BE RESTRICTED TO 30 l/s BELOW GROUND STORAGE VOLUME IS BASED ON GREEN/BLUE ROOF DESIGN ASSUMPTIONS AS BIGHLIGHTED ON ASPC-WAL-MX-ZZ-DGA-C-003000.

BELOW GROUND STORAGE TANKS BASED ON MINIMUM DEPTH OF COVER OF 1m BELOW PLAINERS TBC BY LANDSCAPE ARCHITECT DURING DETAILED DESIGN.

PEAK FOUL FLOW RATE BASED ON POPULATION METHOD REFERENCED IN 5609-WAL-ZZ-XX-RP-C-0000 APPENDIX D.

FOUL FLOWS TO HAVE ADDITIONAL BASEMENT DRAINAGE ASSUMED TO DISCHARGE AT PEAK FLOW OF 4 l/s. PUMP RATE ASSUMED NOT TO COINCIDE WITH PEAK FOUL FLOW RATE.

Notes

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.
- THIS DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS.
- THIS DRAWING HAS BEEN PRODUCED ELECTRONICALLY AND MAY HAVE BEEN PHOTO REDUCED OR ENLARGED WHEN COPIED. HENCE, DO NOT RELY ON ANY SCALES QUOTED. WORK ONLY TO FIGURED DIMENSIONS (DO NOT SCALE). ALL DIMENSIONS TO BE CHECKED ON SITE. ANY ERRORS OR OMISSIONS TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

C.D.M.

SIGNIFICANT RISKS AND HAZARDS:

- CONFIRMATION OF EXISTING DRAINAGE OUTFALL LINE, LEVEL AND CONDITION NOT SUITABLE FOR DRAINAGE STRATEGY.
- UNDERMINING PHASE 2 GROUND WITH GEOCELLULAR TANK CONSTRUCTION.
- DRAINAGE FROM EXISTING PHASE 2 AREA TO BE KEPT LIVE TO PREVENT FLOOD RISK.
- EXISTING LIVE SERVICES.

KEY DESIGN DECISIONS TO REDUCE OR ELIMINATE HAZARDS:

- REQUEST TO CARRY OUT SURVEY AT EARLY STAGE TO CONFIRM CONDITION OF CONNECTING SEWER TO CONFIRM DRAINAGE STRATEGY.
- DEPTH OF GEOCELLULAR CRATES HAVE BEEN KEPT MINIMAL TO REDUCE TOTAL DGS. TOTAL DEPTH MAY BE FURTHER REDUCED FOLLOWING DETAIL OF PLANTING DEPTHS ABOVE.
- EXISTING DRAINAGE SERVING WARDROOMS ROOF HAS BEEN DESIGNED WITH NEW GRADITY CONNECTION. A SURVEY IS REQUIRED BEFORE PHASE 1 WORKS TO CONFIRM NO FURTHER PHASE 2 AREA DRAINAGE IS BEING AFFECTED BY PHASE 1 WORKS.
- UPDATED UTILITY SURVEYS TO BE UNDERTAKEN. CONTRACTOR TO CONFIRM PRESENCE OF SERVICES PRIOR TO EXCAVATION.

THIS DRAWING IS BASED ON THE FOLLOWING CONSULTANTS FILES

TOPO SURVEY:
10042-01
DATE RECEIVED: 16.03.22

LANDSCAPE LAYOUT:
P21073-00-001-01-0100 GA Landscape Plan Ground Floor
DATE RECEIVED: 14.04.24

Rev.	Date	By	Details of Revision
P01	26.04.24	JB	ISSUED FOR DRAFT PLANNING REVIEW

Client

BERKELY HOMES

Project

**THE AYLESHAM CENTRE
PECKHAM**

Title

**BELOW GROUND DRAINAGE
GENERAL ARRANGEMENT
PHASE 1**

WALSH

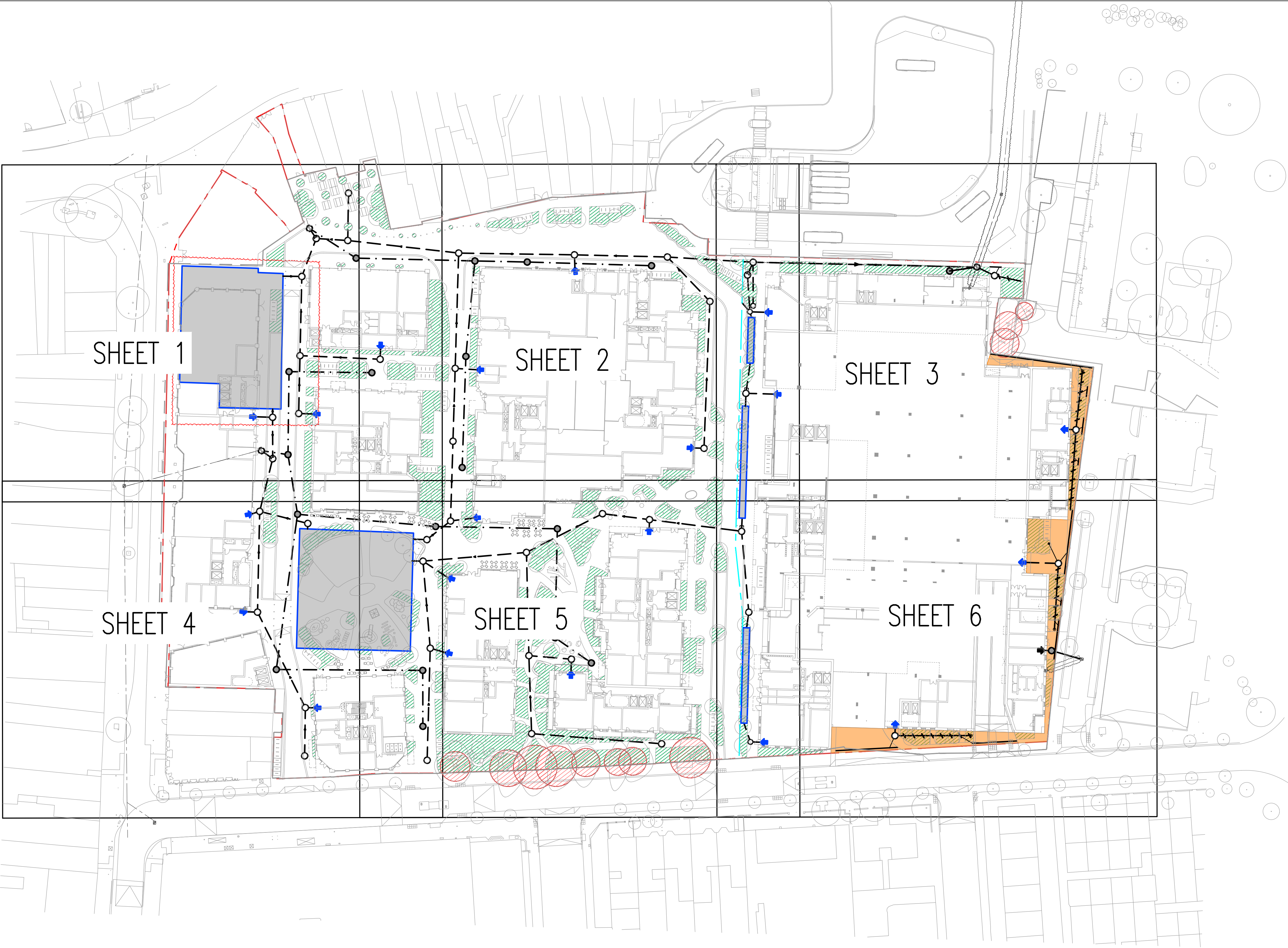
Structural and Civil Engineers
The Clove Building
4 Magpie Street
London SE1 2ND
t: +44(0)20 7089 6800
e: london@walsh.co.uk
walsh.co.uk

PRELIMINARY

Drawn	MH	AS Scale	1:250
Date	05.04.24	Eng.	WR
WA Ref.	5609	Chk.	JK
		App'd.	JK
		Suitability	

ACTUAL DIMENSION = 30mm

Drawing No.	Rev.
ASPC-WAL-MX-XX-DGA-C-003000	P01



ASSUMPTIONS AND CLARIFICATIONS

- DISCHARGE LOCATIONS TO THE PUBLIC SEWER ARE ASSUMED BASED ON 'MEINHARDT – EXISTING DRAINAGE SKETCH AND CCTV SURVEY SCOPE DRAWING 2029–C–SK005' AND 'PLOWMAN CRAVEN TOPOGRAPHICAL SURVEY DRAWING NO. 37515T–01–3 REV B' A CCTV LINE, LEVEL AND CONDITION SURVEY IS REQUIRED TO CONFIRM THE EXISTING CONNECTIONS AND ANY REMEDIATIONS REQUIRED WHERE IT IS PROPOSED TO REUSE THESE
- THE SITEWIDE DRAINAGE STRATEGY IS BASED ON THE DISCHARGE FROM SITE AT GREENFIELD RUN–OFF RATES CALCULATED AT 6.3l/s
- IT IS PROPOSED TO DISCHARGE PHASE 1 AS PER EXISTING ESTIMATED RUN–OFF RATES SUBJECT TO PLANNING APPROVAL

Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS.
3. THIS DRAWING HAS BEEN PRODUCED ELECTRONICALLY AND MAY HAVE BEEN PHOTO REDUCED OR ENLARGED WHEN COPIED. HENCE, DO NOT RELY ON ANY SCALES QUOTED. WORK ONLY TO FIGURED DIMENSIONS (DO NOT SCALE). ALL DIMENSIONS TO BE CHECKED ON SITE. ANY ERRORS OR OMISSIONS TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

C.D.M.

SIGNIFICANT RISKS AND HAZARDS:
NO ABNORMAL RISKS IDENTIFIED

KEY DESIGN DECISIONS TO REDUCE OR ELIMINATE HAZARDS:

THIS DRAWING IS BASED ON THE
FOLLOWING CONSULTANTS FILES

LANDSCAPE LAYOUT:
P21673–00–001–GIL–0100 GA Landscape Plan Ground Floor
DATE RECEIVED: 14.04.24

Rev. Date By Details Of Revision
P01 26.04.24 JB ISSUED FOR DRAFT PLANNING REVIEW

Client
BERKELEY HOMES

Project
AYLESHAM CENTRE
PECKHAM

Title
SITEWIDE
BELOW GROUND DRAINAGE
OVERVIEW



Structural and Civil Engineers

The Clove Building
4 Maguire Street
London SE1 2NQ
t: +44(0)20 7089 6800
e: london@walsh.co.uk

walsh.co.uk

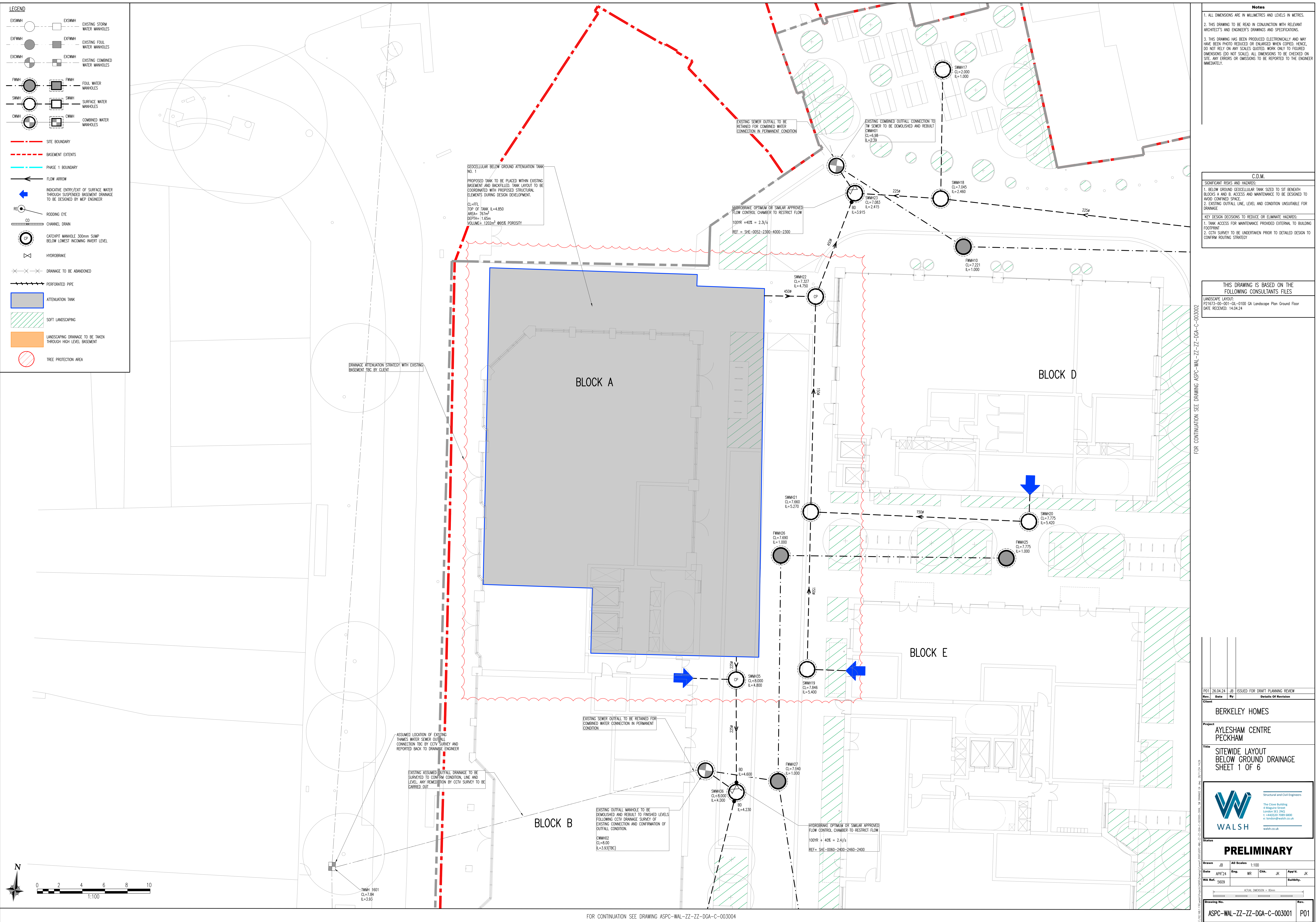
Status

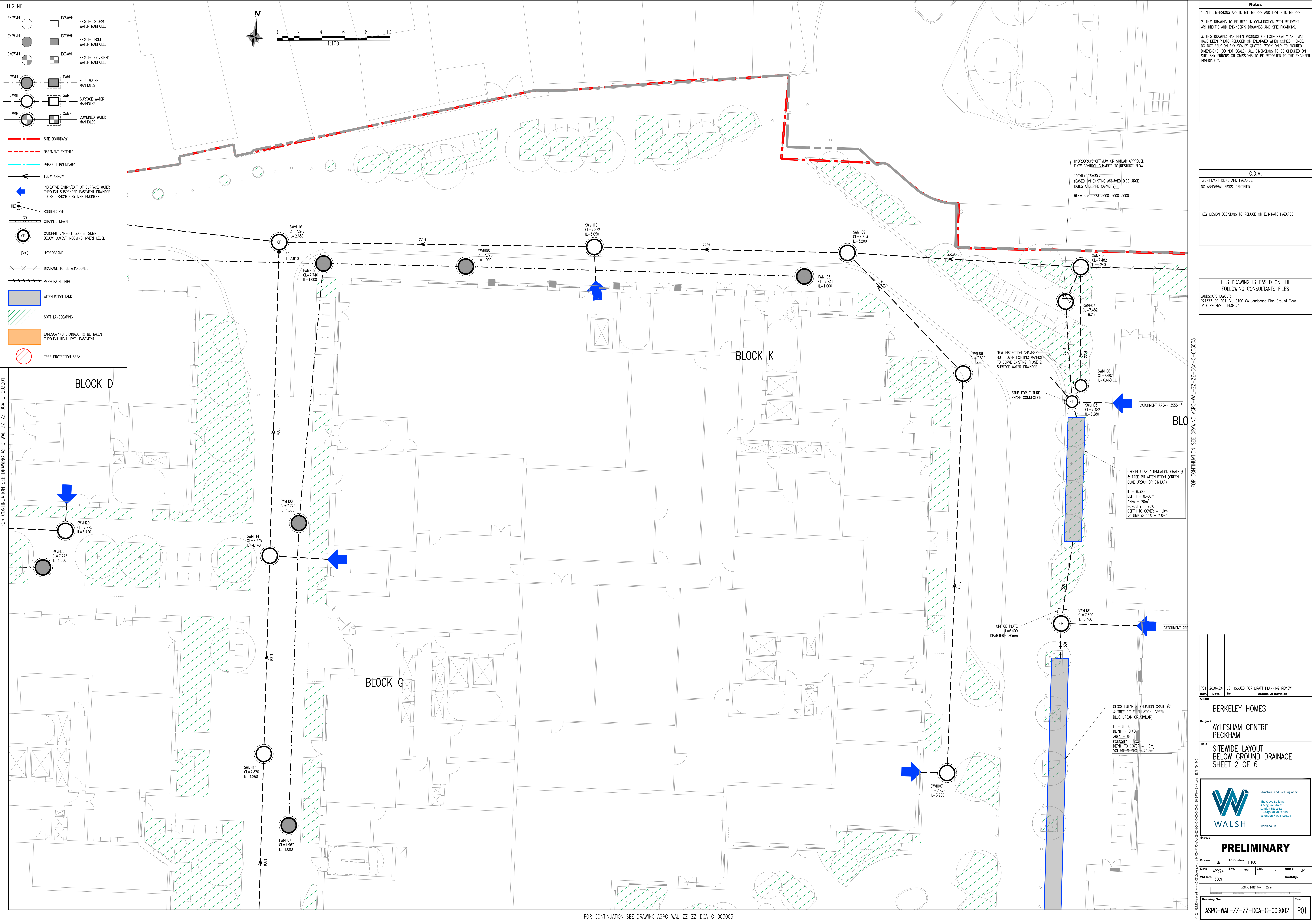
PRELIMINARY

Drawn JB A1 Scales 1:500
Date APR'24 Eng. WR Chk. JK App'd. JK
WA Ref. 5609 Suitability.

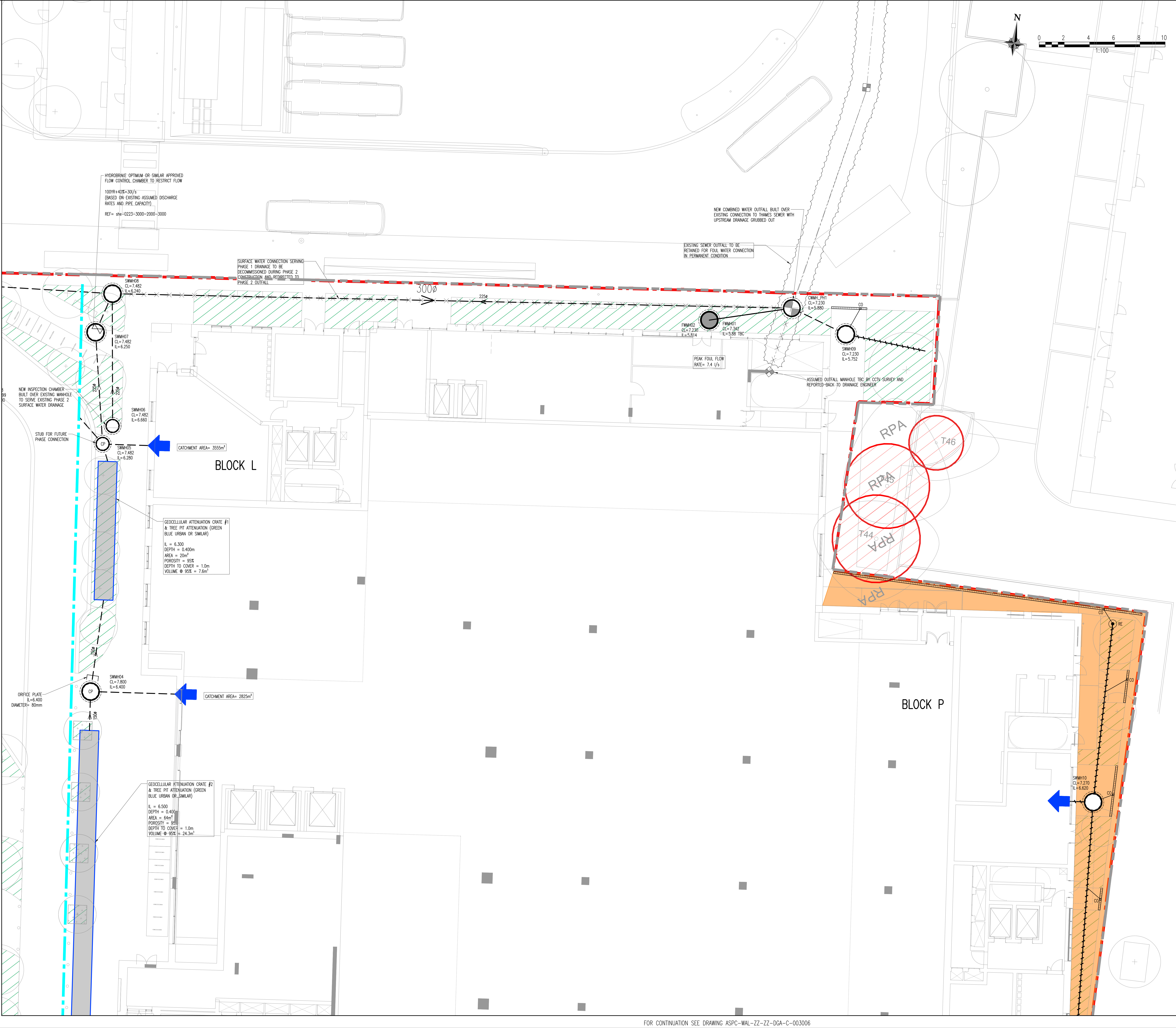
ACTUAL DIMENSION = 80mm
0 10 20 30 40 50
1: 500

Drawing No. ASPC–WAL–ZZ–DGA–C–003000 Rev. P01





FOR CONTINUATION SEE DRAWING ASPC-WAL-ZZ-ZZ-DGA-C-003002



LEGEND

EXWMH EXISTING STORM WATER MANHOLES
EXWMH EXISTING FOUL WATER MANHOLES
EXWMH EXISTING COMBINED WATER MANHOLES

FWMH FOUL WATER MANHOLES
SWMH SURFACE WATER MANHOLES
CWMH COMBINED WATER MANHOLES

— SITE BOUNDARY
--- BASEMENT EXTENTS
--- PHASE 1 BOUNDARY
→ FLOW ARROW
INDICATIVE ENTRY/EXIT OF SURFACE WATER THROUGH SUSPENDED BASEMENT DRAINAGE TO BE DESIGNED BY MEP ENGINEER
RE RODDING EYE
CO CHANNEL DRAIN
CP CATCHPIT MANHOLE 300mm SUMP BELOW LOWEST INCOMING INVERT LEVEL
HYDROBRAKE
--- DRAINAGE TO BE ABANDONED
--- PERFORATED PIPE
ATTENUATION TANK
SOFT LANDSCAPING
LANDSCAPING DRAINAGE TO BE TAKEN THROUGH HIGH LEVEL BASEMENT
TREE PROTECTION AREA

Notes

1. ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES.
2. THIS DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS.
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C.D.M.

SIGNIFICANT RISKS AND HAZARDS:
NO ABNORMAL RISKS IDENTIFIED

KEY DESIGN DECISIONS TO REDUCE OR ELIMINATE HAZARDS:

THIS DRAWING IS BASED ON THE FOLLOWING CONSULTANTS FILES
LANDSCAPE LAYOUT: P21673-00-001-GIL-0100 GA Landscape Plan Ground Floor
DATE RECEIVED: 14.04.24

Rev.	Date	By	Details Of Revision
P01	26.04.24	JB	ISSUED FOR DRAFT PLANNING REVIEW

Client
BERKELEY HOMES

Project
AYLESHAM CENTRE
PECKHAM

Title
SITEWIDE LAYOUT
BELOW GROUND DRAINAGE
SHEET 3 OF 6

Status
PRELIMINARY

Drawn JB **AD Scale** 1:100
Date APR 24 **Eng** WR **Chk** JK **App'd** JK
WA Ref. 5659 **Suitability**

Drawing No. ASPC-WAL-ZZ-ZZ-DGA-C-003003 **Rev.** P01

FOR CONTINUATION SEE DRAWING ASPC-WAL-ZZ-ZZ-DGA-C-003006



Walsh

The Clove Building, 4 Maguire Street,
London, SE1 2NQ
Tel: 020 7089 6800

Project:
THE AYLESHAM CENTRE,
PECKHAM

Drawing Title:
OVERLAND SURFACE WATER
EXCEEDANCE FLOW ROUTING

Scale:
NTS

Job No:

Drawing No:
5609-WAL-SK-240612-WR001

Rev: A

SOFT LANDSCAPE -
OVERLAND FLOW NOT
CONSIDERED HERE



AREA OF LOCAL
PONDING DURING
EXCEEDANCE EVENT



POSITIVE DRAINAGE
DIRECTION



RIDGE/VALLEY TO BE
INTRODUCED



Key

EX
+0.00 Existing spot level

FFL
+0.00 Finished floor level

+0.00 Proposed spot level

1:21 slope from building entrance

Stair access

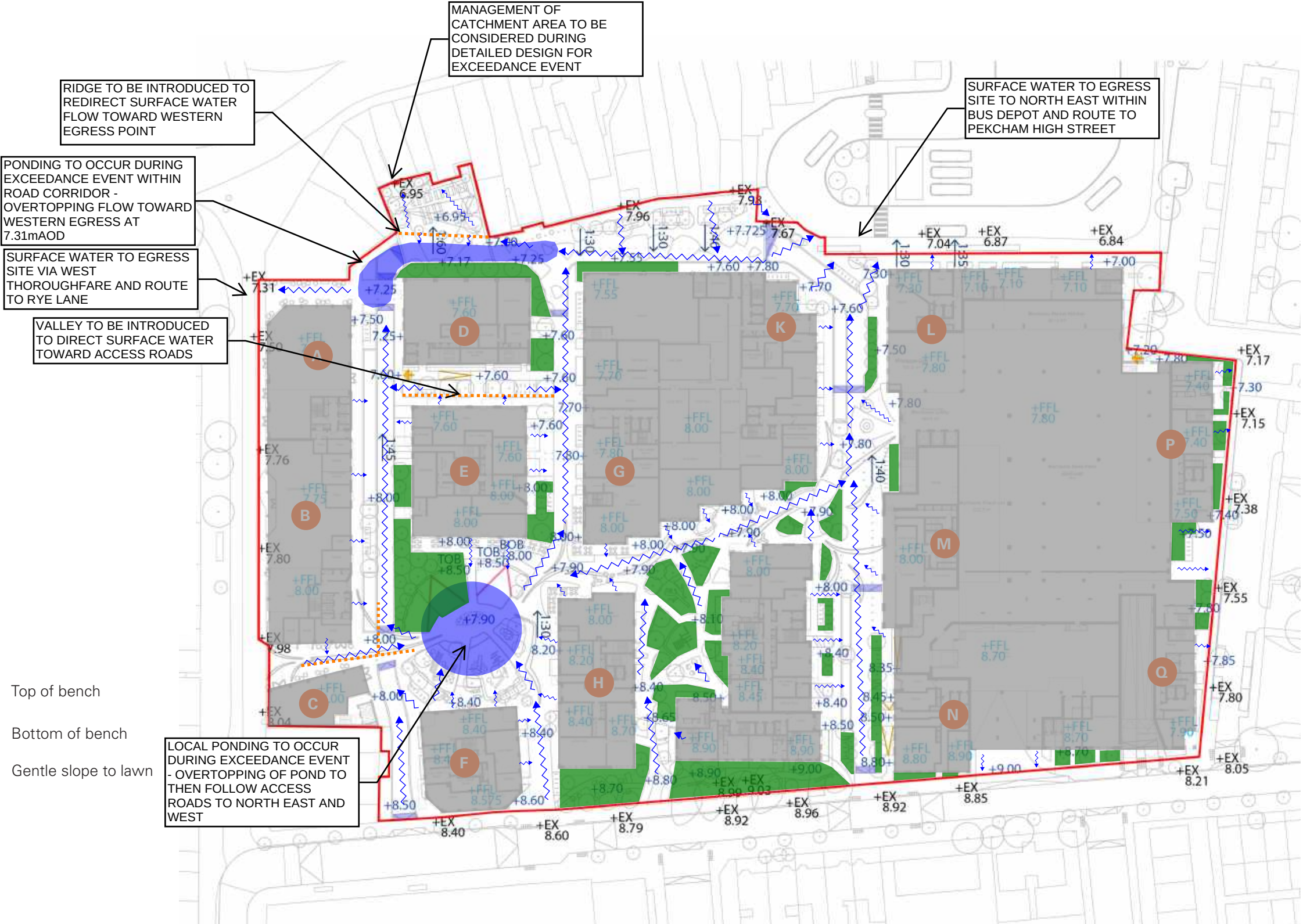
Raised Table

Building Name

TOB
+0.00 Top of bench

BOB
+0.00 Bottom of bench

Gentle slope to lawn





Project:
THE AYLESHAM CENTRE,
PECKHAM

Drawing Title:
BLUE ROOF AREA AND CATCHMENT PLAN

Scale: 1:500	Job No:
-----------------	---------

Drawing No:
5609-WAL-SK-240612-WR002

Rev:	A						
------	---	--	--	--	--	--	--

CATCHMENT AREA

XXm²

BLUE ROOF WITH 100mm
CRATE SYSTEM

XXm²

GREEN ROOF WITH 100mm
UNDERLYING BLUE ROOF
CRATE SYSTEM

 XXm^2

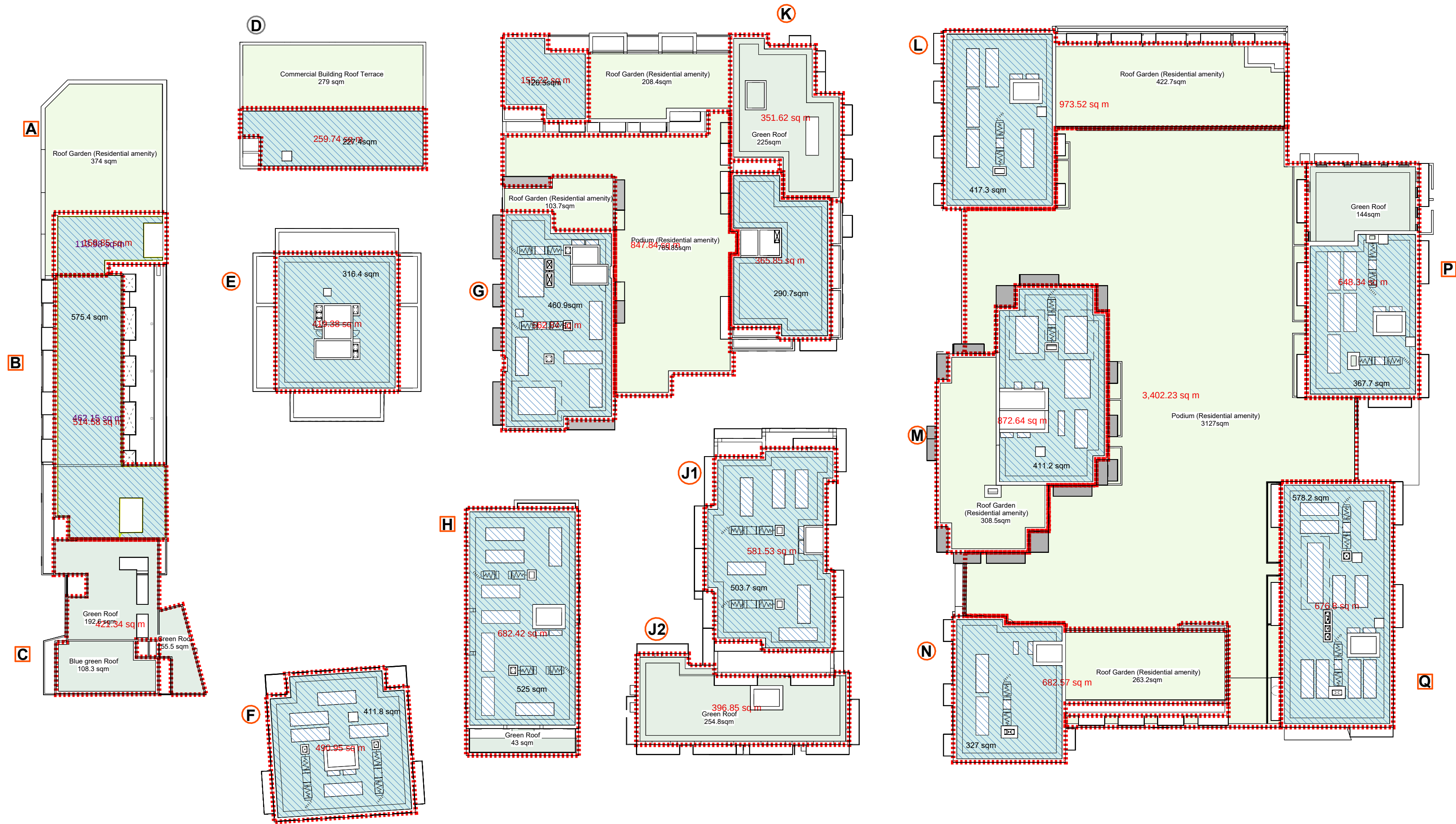
PODIUM (RESIDENTIAL AMENITY) WITH 100mm UNDERLYING BLUE ROOF CRATE SYSTEM

 XXm^2

ROOF GARDEN
(RESIDENTIAL AMENITY)
WITH 100mm UNDERLYING
BLUE ROOF CRATE
SYSTEM ONLY ON
BUILDINGS: L, M, N. NO
BLUE ROOF CONSIDERED
ELSEWHERE

 XXm^2

COMMERCIAL BUILDING
ROOF TERRACE (NO BLUE
ROOF)

 XXm^2 

Appendix D Peak Foul Flows

Date: 24-Apr-24

Accomodation Schedule:

BLOCK	Retail (Exc. Morrisons)	car-wash		Commercial other		Morrisons		All
	Gross Area	Peak Design Flow	Daily Users	Peak Design Flow	Gross Area	Peak Design Flow	Daily users	Peak Design Flow
PERSONS/UNIT	m2	l/s	No.		m2	l/s	No.	l/s
	4938	1.6	100.0	2.2	294	0.2	4732	3.9
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
		0.0				0.0		0.0
Total	4938	1.6			294	0.2	4732	3.9
							#REF!	#REF! pers per unit

Assumptions

1. **Car-Wash**; Assume 160L per car (www.castlewater.co.uk) and 100 car washes per day
2. **Retail**; Assume 400l/day/100m2 - discharged over 10 hour period with DWF 3. (Thames Water Developer Studies, 2016)
3. **Commercial**; Assume 750l/day/100m2 - discharged over 10 hour period with DWF 3. (Thames Water Developer Studies, 2016)
4. **Morrisons**; Assume 12l/person/day (Based on British Water; Flows and Loads 4 Restaurant; Fast food usage used to simulate uses of deli/cafe/butcher and fishmongers) For Morrisons assume 3381 customers/day (assume all customers use deli/cafe/butcher/fishmonger) discharged over 12 hour period with DWF 3. (Ref. Average number of Morrisons customers per store per week in the United Kingdom from financial year 2009/2010 to 2020/2021* Statista)

Design of Total Foul Flow from Development - Population Method

Accomodation Schedule:

BLOCK	Residential									Retail (Exc. Supermarket)		Commercial other		Supermarket/BOH		All
	1B1P	1B2P	2P3P	2B4P	3B5P	3B6P	4B6P	Population	Peak Design Flow	Gross Area	Peak Design Flow	Gross Area	Peak Design Flow	Daily users	Peak Design Flow	Peak Design Flow
PERSONS/UNIT	1	2	3	4	5	6	6	No	l/s	m2	l/s	m2	l/s	No.	l/s	l/s
A	0	6	1	8	3	1		68	0.6	459	0.2		0.0		0.0	0.8
B	0	2	4	21	0	0		100	0.9	381	0.1		0.0		0.0	1.0
C	0	8	1	4	4	2		67	0.6	404	0.1		0.0		0.0	0.7
D	0	0	0	0	0	0		0	0.0	2,725	0.9		0.0		0.0	0.9
E	16	40	7	13	0	3		187	1.7	341	0.1		0.0		0.0	1.8
F	0	0	0	10	8	2		92	0.8	207	0.1		0.0		0.0	0.9
G	11	23	0	23	0	14		233	2.1	276	0.1		0.0		0.0	2.2
H	0	0	4	31	8	0		176	1.6	244	0.1		0.0		0.0	1.7
J1	12	32	18	29	0	17		348	3.1	125	0.0		0.0		0.0	3.2
J2	4	4	2	5	4	2		70	0.6	0	0.0		0.0		0.0	0.6
K	8	36	8	15	2	16		270	2.4	1,259	0.4		0.0		0.0	2.8
L	18	12	4	42	0	9		276	2.5	17	0.0		0.0		0.0	2.5
M	15	33	27	35	0	39		536	4.8	0	0.0		0.0		0.0	4.8
N	6	53	0	5	0	0		132	1.2	97	0.0		0.0		0.0	1.2
P	0	0	12	1	20	0	17	242	2.2	0	0.0		0.0		0.0	2.2
Q	0	4	0	21	2	0		102	0.9	0	0.0		0.0		0.0	0.9
Morrisons								0	0.0		0.0		0.0	4,435	3.7	3.7
Total	90	253	88	263	51	105	17	2899	26.1	6535	2.2	0	0.0	4435	3.7	31.9
							850	3.4 pers per unit								

Assumptions

1. **Residential**; Assume 125l/day/person - discharged over 24 hour period with DWF 6. (Thames Water Developer Studies, 2016)

2. **Retail**; Assume 400l/day/100m2 - discharged over 10 hour period with DWF 3. (Thames Water Developer Studies, 2016)

3. **Commercial**; Assume 750l/day/100m2 - discharged over 10 hour period with DWF 3. (Thames Water Developer Studies, 2016)

4. **Restaurant; fast food (assumed for Morrisons)**; Assume 12l/person/day (Based on British Water; Flows and Loads 4) For Morrisons assume 3381 customers/day (assume all customers use deli/cafe/butcher/fishmonger) discharged over 12 hour period with DWF 3. (Ref. Average number of Morrisons customers per store per week in the United Kingdom from financial year 2009/2010 to 2020/2021* Statista)

Appendix E Thames Water Pre-Development Enquiry



Winston Rollings

Walsh associates
The Clove Building,
4 Maguire St
London
SE1 2NQ

24 April 2024



Pre-planning enquiry: Confirmation of sufficient capacity

Site: The Aylesham Centre Hanover Park, London SE15 5EW

Dear Winston,

Thank you for providing information on your development.

Existing site: 4732m² retail (supermarket), 4939m² other retail & 334m² commercial (petrol filling station). Existing foul and surface water discharging unrestricted.

Proposed Site: Phase 1: 4626m² of retail (supermarket), Phase 2: 865 flats & 6793m² of other retail.

Proposed connections:-

Connection 1: To Discharge by gravity via existing on-site outfall further discharging to trunk sewer in Rye Lane, manhole 1601.

Foul water = 3332m² retail & 239 residential units

Surface Water= 8239m² restricted to 3.15 l/s

Connection 2: To discharge by gravity via existing on-site outfall further discharging to trunk sewer between MHs 1701 & 1706 on Peckham High Street.

Foul water = 2366m² supermarket, 2469m² other retail & 147m² commercial.

Surface water= 8239m² restricted to 3.15 l/s.

Connection 3: To discharge by gravity via existing on-site outfall to manhole 3602 in McKerral Rd.

Foul Water: 193 residential units & 129m² other retail.

Surface water: No proposed surface water.

Connection 4: To discharge by pumped flow at 4 l/s to existing on-site outfall, further discharging via approx. 71m of existing gravity pipework to trunk sewer on A202 u/s of side entry manhole 3701.

Foul Water: 194 residential units & 4626m² supermarket retail.

Surface water: No proposed surface water.



We have completed the assessment of the foul water flows and surface water run-off based on the information submitted in your application with the purpose of assessing sewerage capacity within the existing Thames Water sewer network.

Foul Water

If your proposals progress in line with the details you've provided, we're pleased to confirm that there will be sufficient sewerage capacity in the adjacent foul water sewer network to serve your development.

This confirmation is valid for 12 months or for the life of any planning approval that this information is used to support, to a maximum of three years.

You'll need to keep us informed of any changes to your design – for example, an increase in the number or density of homes. Such changes could mean there is no longer sufficient capacity.

Surface Water

In accordance with the Building Act 2000 Clause H3.3, positive connection of surface water to a public sewer will only be consented when it can be demonstrated that the hierarchy of disposal methods have been examined and proven to be impracticable. Before we can consider your surface water needs, you'll need written approval from the lead local flood authority that you have followed the sequential approach to the disposal of surface water and considered all practical means.

When developing a site, policy SI 13 of the London Plan states "Development proposals should aim to achieve greenfield run-off rates and ensure that surface water run-off is managed as close to its source as possible. There should also be a preference for green over grey features, in line with the following drainage hierarchy:"

The disposal hierarchy being:

1. rainwater use as a resource (for example rainwater harvesting, blue roofs for irrigation)
2. rainwater infiltration to ground at or close to source
3. rainwater attenuation in green infrastructure features for gradual release (for example green roofs, rain gardens)
4. rainwater discharge direct to a watercourse (unless not appropriate)
5. controlled rainwater discharge to a surface water sewer or drain
6. controlled rainwater discharge to a combined sewer

Where connection to the public sewerage network is still required to manage surface water flows, we will accept these flows at a discharge rate in line with CIRIA's best practice guide on SuDS or that stated within the sites planning approval.

If the above surface water hierarchy has been followed and if the flows are restricted as described above for all storms up to and including 1:100+40%CC, then Thames Water would not have any objections to the proposal.

Please see the attached 'Planning your wastewater' leaflet for additional information.



Existing connections

Where reusing existing on-site connections, the developer should carry out CCTV surveys to ensure that any existing on site pipework is fit for purpose.

Combined sewers & Trade Effluent

Foul and surface water must not be combined. This will only be permitted when a combined public sewerage system exists. When it is proposed to connect to a combined public sewer, the site drainage should be separate and combined at the final manhole nearest the boundary. Connections are not permitted for the removal of Ground Water. The discharge of non-domestic effluent is not permitted until a valid trade effluent consent has been issued by Thames Water. If anything other than domestic sewage is discharged into the public sewers without the above agreement an offence is committed and the applicant will be liable to the penalties contained in Section 109(1) (WIA 1991). Applicants should contact Trade Effluent prior to seeking a connection approval, to discuss trade effluent consent and conditions of discharge. A Trade Effluent reference number should be obtained and included in the relevant box of the attached application form. The address for Trade Effluent is - Thames Water Utilities Limited, Waste Water Quality, Crossness Sewage Treatment Works, Belvedere Road, Abbeywood, London. SE2 9AQ. Alternatively you can telephone them on 020 8507 4321.

Diversion

Where there are any existing public sewers crossing the site, new buildings will need to be kept between 3 and 6.5m away from existing sewer depending on the size and depth of the sewer. Alternatively, it may be possible for sewers to be diverted around the new development. If you wish us to review a diversion proposal, please submit this via a Section 185 Diversion application. On some occasions it may be possible to abandon existing public sewers. Please contact us for further information on this process.

What happens next?

Please make sure you submit your connection application, giving us at least 21 days' notice of the date you wish to make your new connection/s.

The views expressed by Thames Water in this letter are in response to this pre-planning enquiry at this time and do not represent our final views on any future planning applications made in relation to this site.

If you have any further questions, please contact me on 0800 009 3921.

Yours sincerely

A handwritten signature in purple ink, appearing to read "J. Kitching".

James Kitching
Development Engineer
Developer Services – Sewer Adoptions Team

Get advice on making your sewer connection correctly at connectright.org.uk

Clearwater Court, Vastern Road, Reading, RG1 8DB

Find us online at developers.thameswater.co.uk

Appendix F Greenfield runoff

Calculated by: Jacqui Kantor

Site name: Aylesham Centre

Site location: Peckham

Site Details

Latitude: 51.47262° N

Longitude: 0.0676° W

Reference: 345984853

Date: Jan 17 2024 13:50

This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance “Rainfall runoff management for developments”, SC030219 (2013) , the SuDS Manual C753 (Ciria, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Runoff estimation approach

FEH Statistical

Site characteristics

Total site area (ha): 2.733

Methodology

Q_{MED} estimation method: Calculate from BFI and SAAR

BFI and SPR method: Calculate from dominant HOST

HOST class: 18

BFI / BFIHOST: 0.492

Q_{MED} (l/s): 5.57

Q_{BAR} / Q_{MED} factor: 1.14

Hydrological characteristics

	Default	Edited
SAAR (mm):	611	611
Hydrological region:	6	6
Growth curve factor 1 year:	0.85	0.85
Growth curve factor 30 years:	2.3	2.3
Growth curve factor 100 years:	3.19	3.19
Growth curve factor 200 years:	3.74	3.74

Notes

(1) Is $Q_{BAR} < 2.0$ l/s/ha?

When Q_{BAR} is < 2.0 l/s/ha then limiting discharge rates are set at 2.0 l/s/ha.

(2) Are flow rates < 5.0 l/s?

Where flow rates are less than 5.0 l/s consent for discharge is usually set at 5.0 l/s if blockage from vegetation and other materials is possible. Lower consent flow rates may be set where the blockage risk is addressed by using appropriate drainage elements.

(3) Is $SPR/SPR_{HOST} \leq 0.3$?

Where groundwater levels are low enough the use of soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.

Q_{BAR} (l/s):	6.32	6.32
1 in 1 year (l/s):	5.38	5.38
1 in 30 years (l/s):	14.54	14.54
1 in 100 year (l/s):	20.17	20.17
1 in 200 years (l/s):	23.65	23.65

This report was produced using the greenfield runoff tool developed by HR Wallingford and available at www.uksuds.com. The use of this tool is subject to the UK SuDS terms and conditions and licence agreement , which can both be found at www.uksuds.com/terms-and-conditions.htm. The outputs from this tool are estimates of greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, CEH, Hydrosolutions or any other organisation for the use of this data in the design or operational characteristics of any drainage scheme.

Calculated by:	winston rollings
Site name:	Aylesham Centre Phase 1
Site location:	Peckham

This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance "Rainfall runoff management for developments", SC030219 (2013), the SuDS Manual C753 (Ciria, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Site Details

Latitude:	51.47270° N
Longitude:	0.06767° W
Reference:	3335522298
Date:	Oct 01 2024 11:13

Runoff estimation approach

FEH Statistical

Site characteristics

Total site area (ha):	0.9
-----------------------	-----

Methodology

Q _{MED} estimation method:	Calculate from BFI and SAAR
BFI and SPR method:	Calculate from dominant HOST
HOST class:	18
BFI / BFIHOST:	0.492
Q _{MED} (l/s):	1.83
Q _{BAR} / Q _{MED} factor:	1.14

Hydrological characteristics

	Default	Edited
SAAR (mm):	611	611
Hydrological region:	6	6
Growth curve factor 1 year:	0.85	0.85
Growth curve factor 30 years:	2.3	2.3
Growth curve factor 100 years:	3.19	3.19
Growth curve factor 200 years:	3.74	3.74

Notes

(1) Is $Q_{BAR} < 2.0$ l/s/ha?

When Q_{BAR} is < 2.0 l/s/ha then limiting discharge rates are set at 2.0 l/s/ha.

(2) Are flow rates < 5.0 l/s?

Where flow rates are less than 5.0 l/s consent for discharge is usually set at 5.0 l/s if blockage from vegetation and other materials is possible. Lower consent flow rates may be set where the blockage risk is addressed by using appropriate drainage elements.

(3) Is $SPR/SPRHOST \leq 0.3$?

Where groundwater levels are low enough the use of soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.

Q_{BAR} (l/s):	2.08	2.08
1 in 1 year (l/s):	1.77	1.77
1 in 30 years (l/s):	4.79	4.79
1 in 100 year (l/s):	6.64	6.64
1 in 200 years (l/s):	7.79	7.79

This report was produced using the greenfield runoff tool developed by HR Wallingford and available at www.uksuds.com. The use of this tool is subject to the UK SuDS terms and conditions and licence agreement , which can both be found at www.uksuds.com/terms-and-conditions.htm. The outputs from this tool are estimates of greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, CEH, Hydrosolutions or any other organisation for the use of this data in the design or operational characteristics of any drainage scheme.

Appendix G Southwark SUDS Proforma

The London Sustainable Drainage Proforma

Introduction

This proforma is intended to accompany a drainage strategy prepared for a planning application where required by national or local planning policy. It should be used to summarise the key outputs from the strategy to allow assessing officers at the Lead Local Flood Authority (LLFA) to quickly assess compliance with sustainable drainage (SuDS) planning

The proforma is divided into 4 sections, which are intended to be used as follows:

1. Site and project information - Provide summary details of the development, site and drainage
2. Proposed discharge arrangement – Summarise site ground conditions to determine potential for infiltration. Select a surface water discharge method (or mix of methods) following the hierarchical approach set out in the London Plan.
3. Drainage strategy – Prioritise SuDS measures that manage runoff as close to source as possible and contribute to the four main pillars of SuDS; amenity, biodiversity, water quality and water quantity.
4. Supporting information – Provide cross references to the page or section of the drainage strategy report where the detailed information to support each element can be found. This may be more than one reference for each

Policy

Drainage strategies for developments in the London Borough of Southwark need to comply with the following policies on SuDS:

1. [New Draft Southwark Plan policy P69](#)
2. [London Plan policy 5.13](#) and draft [New London Plan policy SI13](#)
3. [The National Planning Policy Framework \(NPPF\)](#)

Technical Guidance

- Post-development surface water discharge rate should be limited to greenfield runoff rates. Proposals for higher discharge rates should be agreed with the LLFA ahead of submission of the Planning Application. Clear evidence should be provided with the Planning Application to show why greenfield rates cannot be achieved.
- Greenfield runoff rate is the runoff rate from a site in its natural state, prior to any development. This should be calculated using one of the runoff estimation methods set out in Table 24.1 of CIRIA C753 The SuDS Manual.
- Attenuation storage volumes required to reduce post-development discharge rates to greenfield rates should be calculated using one of the runoff estimation methods set out in Table 24.1 of CIRIA C753 The SuDS Manual.
- 'CC' refers to climate change allowance from the current Environment Agency guidance.
- An operation and maintenance strategy for proposed SuDS measures should be submitted with the Planning Application and include the details set out in section 32.2 of CIRIA C753 The SuDS Manual. The manual should be site-specific and not directly reproduce parts of The SuDS Manual.
- Other useful sources of guidance are:
 - o [The Southwark developers' guide for surface water management](#)
 - o [The London Plan Sustainable Design and Construction SPG](#)
 - o [DEFRA non-statutory technical standards for sustainable drainage](#)
 - o [Environment Agency climate change guidance](#)
 - o [CIRIA C753 The SuDS Manual](#)

1. Project & Site Details	Project / Site Name (including sub-catchment / stage / phase where appropriate)	The Aylesham Centre, Peckham
	Address & post code	Aylesham Centre, Hanover Park London SE15 5EW
	OS Grid ref. (Easting, Northing)	E 534243 N 176650
	LPA reference (if applicable)	
	Brief description of proposed work	Demolition of existing buildings and phased redevelopment to provide replacement supermarket and associated service yard and car parking, flexible retail, leisure and commercial accommodation, dwellings, landscaping and associated works
	Total site Area	27000 m ²
	Total existing impervious area	994 m ²
	Total proposed impervious area	2437 m ²
	Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?	
	Existing drainage connection type and location	4 x direct connection to Thames Water combined sewers on: Rye Lane, Peckham High Street (x2) and Mckerrell Road
Designer Name	Winston Rollings	
Designer Position	Civil Engineer	
Designer Company	Walsh	

2. Proposed Discharge Arrangements	2a. Infiltration Feasibility		
	Superficial geology classification	Interglacial Lacustrine Deposits	
	Bedrock geology classification	Woolwich and Reading beds	
	Site infiltration rate	TBC m/s	
	Depth to groundwater level	3-5 m below ground level	
	Is infiltration feasible?	TBC following soakaway test	
	2b. Drainage Hierarchy		
		Feasible (Y/N)	Proposed (Y/N)
	1 store rainwater for later use	Y	Y
	2 use infiltration techniques, such as porous surfaces in non-clay areas	TBC	TBC
	3 attenuate rainwater in ponds or open water features for gradual release	Y	N
	4 attenuate rainwater by storing in tanks or sealed water features for gradual release	Y	Y
	5 discharge rainwater direct to a watercourse	N	N
	6 discharge rainwater to a surface water sewer/drain	N	N
	7 discharge rainwater to the combined sewer.	Y	Y
2c. Proposed Discharge Details			
Proposed discharge location	4 x direct connection to Thames Water combined sewers on: Rye Lane, Peckham High Street (x2) and Mckerrell Road		
Has the owner/regulator of the discharge location been consulted?	YES - Thames Water DS6115008		

3. Drainage Strategy	3a. Discharge Rates & Required Storage				
		Greenfield (GF) runoff rate (l/s)	Existing discharge rate (l/s)	Required storage for GF rate (m ³)	Proposed discharge rate (l/s)
	Q _{bar}	6.32			
	1 in 1	5.38			
	1 in 30	14.54	364		
	1 in 100	20.17	579		
	1 in 100 + CC			3750	6.3
	Climate change allowance used		40%		
	3b. Principal Method of Flow Control		Flow control device at outfall		
	3c. Proposed SuDS Measures				
			Catchment area (m ²)	Plan area (m ²)	Storage vol. (m ³)
	Rainwater harvesting		0		0
	Infiltration systems		0		0
	Green roofs		0	0	0
	Blue roofs		14,986	11,398	1083
	Filter strips		0	0	0
	Filter drains		0	0	0
	Bioretention / tree pits		0	0	0
	Pervious pavements		0	0	0
	Swales		0	0	0
	Basins/ponds		0	0	0
	Attenuation tanks		0		2800
	Total		0	0	3750

4. Supporting Information	4a. Discharge & Drainage Strategy	Page/section of drainage report
	Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	N/A
	Drainage hierarchy (2b)	Section 6
	Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	Appendix A, B, C, D, E
	Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	Section 6.8, 7 and Appendix C and H
	Proposed SuDS measures & specifications (3b)	Section 6.7, 8 and Appendix C
	4b. Other Supporting Details	Page/section of drainage report
	Detailed Development Layout	Appendix C
	Detailed drainage design drawings, including exceedance flow routes	Appendix C
	Detailed landscaping plans	Appendix C
	Maintenance strategy	section 9
	Demonstration of how the proposed SuDS measures improve:	
	a) water quality of the runoff?	section 6.9
	b) biodiversity?	section 6.7
	c) amenity?	section 6.7

Appendix H Drainage Modelling Calculations

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



L 1

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	39.715

Depth (m)	Area (m²)	Volume (m³)
0.000	417.00	0.000
0.100	417.00	39.615

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	L 1
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (1)
Outlet Type	Orifice
Diameter (m)	0.065
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	28.525

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



L 2

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	40.190

Depth (m)	Area (m²)	Volume (m³)
0.000	422.00	0.000
0.100	422.00	40.090

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	L2
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe
Outlet Type	Orifice
Diameter (m)	0.025
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	36.384

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



P

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	48.645

Depth (m)	Area (m²)	Volume (m³)
0.000	511.00	0.000
0.100	511.00	48.545

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	P
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (2)
Outlet Type	Orifice
Diameter (m)	0.065
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	33.745

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



Q

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	55.010

Depth (m)	Area (m²)	Volume (m³)
0.000	578.00	0.000
0.100	578.00	54.910

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Q
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (7)
Outlet Type	Orifice
Diameter (m)	0.055
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	35.192

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



N 1

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	31.165

Depth (m)	Area (m²)	Volume (m³)
0.000	327.00	0.000
0.100	327.00	31.065

Inlets

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	N1
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (9)
Outlet Type	Orifice
Diameter (m)	0.035
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	21.054

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



N 2

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	25.085

Depth (m)	Area (m²)	Volume (m³)
0.000	263.00	0.000
0.100	263.00	24.985

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	N2
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (8)
Outlet Type	Orifice
Diameter (m)	0.030
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	28.031

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



M 2

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	29.360

Depth (m)	Area (m²)	Volume (m³)
0.000	308.00	0.000
0.100	308.00	29.260

Inlets

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	M2
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (6)
Outlet Type	Orifice
Diameter (m)	0.030
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	32.413

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



M 1

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	39.145

Depth (m)	Area (m²)	Volume (m³)
0.000	411.00	0.000
0.100	411.00	39.045

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	M1
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (5)
Outlet Type	Orifice
Diameter (m)	0.055
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	26.812

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



MORRISONS PODIUM

Type : Tank

Dimensions

Exceedance Level (m)	10.200
Depth (m)	0.200
Base Level (m)	10.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	297.165

Depth (m)	Area (m²)	Volume (m³)
0.000	3127.00	0.000
0.100	3127.00	297.065

Inlets

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	MORRISONS
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (3)
Outlet Type	Orifice
Diameter (m)	0.077
Coefficient of Discharge	0.600
Invert Level (m)	10.000

Outlet (1)

Outgoing Connection	Pipe (4)
Outlet Type	Orifice
Diameter (m)	0.077
Coefficient of Discharge	0.600
Invert Level (m)	10.000

Advanced

Perimeter	Circular
Length (m)	101.590

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



Tank

Type : Tank

Dimensions

Exceedance Level (m)	7.810
Depth (m)	1.310
Base Level (m)	6.500
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	25.230

Depth (m)	Area (m²)	Volume (m³)
0.000	64.00	0.000
0.400	64.00	24.320

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (14) (1)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (39)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (15)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	19.863

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



Tank (1)

Type : Tank

Dimensions

Exceedance Level (m)	7.685
Depth (m)	1.385
Base Level (m)	6.300
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	8.585

Depth (m)	Area (m²)	Volume (m³)
0.000	20.00	0.000
0.400	20.00	7.600

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (32)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (11)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (14)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	14.886

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



Tank (2)

Type : Tank

Dimensions

Exceedance Level (m)	8.442
Depth (m)	1.842
Base Level (m)	6.600
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	-0.002
Total Volume (m³)	19.686

Depth (m)	Area (m²)	Volume (m³)
0.000	48.02	0.000
0.400	48.00	18.244

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (13)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (12)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	17.587

The Aylesham Centre, Peckham: Phase 1 Drainage		Date: 13/06/2024			
		Designed by: W. Rollings	Checked by:		Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase		Walsh Associates:			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
1 (1)	8.997 7.000	Diameter / Length: 1.200	{1} Pipe (9)	Pipe	7.000	Diam/Width:100	Manhole
E:534306.903 N:176584.610	1.997		{a} Pipe (13)	Pipe	7.000	Diam/Width:150	Not Applicable
2 (1)	8.381 7.000	Diameter / Length: 1.200	{1} Pipe (8)	Pipe	7.000	Diam/Width:100	Manhole
E:534306.258 N:176606.662	1.381		{a} Pipe (39)	Pipe	7.000	Diam/Width:100	Not Applicable
3 (1)	7.800 6.400	Diameter / Length: 1.200	{1} Pipe (4)	Pipe	6.400	Diam/Width:100	Manhole
E:534295.695 N:176663.406	1.400		{2} Pipe (7)	Pipe	6.400	Diam/Width:100	
			{3} Pipe (6)	Pipe	6.400	Diam/Width:100	
			{4} Pipe (15)	Pipe	6.400	Diam/Width:150	
			{a} Pipe (11)	Pipe	6.400	Diam/Width:150	Not Applicable
4 (1)	7.800 6.400	Diameter / Length: 1.200	{1} Pipe (5)	Pipe	6.400	Diam/Width:100	Manhole
E:534300.056 N:176660.060	1.400		{a} Pipe (32)	Pipe	6.400	Diam/Width:100	Not Applicable

The Aylesham Centre, Peckham: Phase 1 Drainage		Date: 13/06/2024			
		Designed by: W. Rollings	Checked by:		Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase		Walsh Associates:			

Name	Cover Level (m) Invert Level (m)		Connection Details				Type
Coordinates (m)	Depth (m)	Manhole Size (m)	Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
5	7.520 6.250	Diameter / Length: 1.200	{1} Pipe	Pipe	6.250	Diam/Width:100	Manhole
E:534294.743	1.270		{2} Pipe (1)	Pipe	6.250	Diam/Width:100	
N:176698.086			{3} Pipe (3)	Pipe	6.250	Diam/Width:100	
			{4} Pipe (14)	Pipe	6.250	Diam/Width:225	
					6.250		
			{a} Pipe (10)	Pipe	6.250	Diam/Width:225	Not Applicable
6	7.324 5.880	Diameter / Length: 1.200	{1} Pipe (2)	Pipe	5.880	Diam/Width:100	Manhole
E:534345.869	1.444		{2} Pipe (10) (1)	Pipe	5.880	Diam/Width:225	
N:176706.456							Not Applicable
Manhole	8.412 6.500	Diameter / Length: 1.200	{1} Pipe (12)	Pipe	6.500	Diam/Width:150	Manhole
E:534304.144	1.912						
N:176606.070			{a} Pipe (14) (1)	Pipe	6.500	Diam/Width:150	Not Applicable
Manhole (1)	7.392 6.240	Diameter / Length: 1.200	{1} Pipe (10)	Pipe	6.240	Diam/Width:225	Manhole
E:534295.122	1.152						
N:176701.556			{a} Pipe (10) (1)	Pipe	6.240	Diam/Width:225	Not Applicable

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024			
	Designed by: W. Rollings	Checked by:	Approved By:	
	Report Details: Type: Outfall Details Storm Phase: Phase			
Walsh Associates:				

Outfalls

Outfall	Outfall Type	Fixed Surcharged Level (m)	Level Curve
6	Free Discharge		

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Walsh Associates:		



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
MORRISO NS	FEH: 100 years: +0 %: 30 mins: Winter	0.34	57.5	101.696
L2	FEH: 100 years: +0 %: 30 mins: Winter	0.04	7.1	12.518
M2	FEH: 100 years: +0 %: 30 mins: Winter	0.04	6.0	10.640
N2	FEH: 100 years: +0 %: 30 mins: Winter	0.03	5.1	8.972
L1	FEH: 100 years: +0 %: 15 mins: Winter	0.06	31.2	14.396
P	FEH: 100 years: +0 %: 15 mins: Winter	0.06	35.9	16.595
Q	FEH: 100 years: +0 %: 15 mins: Winter	0.07	37.0	17.085
N1	FEH: 100 years: +0 %: 15 mins: Winter	0.04	21.4	9.902
M1	FEH: 100 years: +0 %: 15 mins: Winter	0.05	28.7	13.237
Catchment Area (1)	FEH: 100 years: +0 %: 15 mins: Winter	0.01	5.8	2.696
Catchment Area (2)	FEH: 100 years: +0 %: 15 mins: Winter	0.03	14.9	6.887
Catchment Area (3)	FEH: 100 years: +0 %: 15 mins: Winter	0.02	9.0	4.142
Catchment Area (4)	FEH: 100 years: +0 %: 15 mins: Winter	0.01	5.3	2.447
Catchment Area (5)	FEH: 100 years: +0 %: 15 mins: Winter	0.01	2.8	1.308
Catchment Area (6)	FEH: 100 years: +0 %: 15 mins: Winter	0.01	4.5	2.097

The Aylesham Centre, Peckham: Phase 1 Drainage		Date: 13/06/2024			
		Designed by: W. Rollings	Checked by:		Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase		Walsh Associates:			

Catchment Area (7)	FEH: 100 years: +0 %: 15 mins: Winter	0.02	12.4	5.735
Catchment Area (8)	FEH: 100 years: +0 %: 15 mins: Winter	0.02	9.8	4.527
Catchment Area (19)	FEH: 100 years: +0 %: 15 mins: Winter	0.01	5.5	2.544
Catchment Area (22)	FEH: 100 years: +0 %: 15 mins: Winter	0.01	7.8	3.581
Catchment Area (25)	FEH: 100 years: +0 %: 15 mins: Winter	0.02	8.8	4.053
Catchment Area (29)	FEH: 100 years: +0 %: 15 mins: Winter	0.02	10.0	4.622
Catchment Area	FEH: 100 years: +0 %: 15 mins: Winter	0.19	107.7	49.779

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Walsh Associates:		



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1 (1)	FEH: 100 years: +0 %: 15 mins: Summer	8.997	7.000	7.065	0.065	19.5	0.073	0.000	19.4	8.673	OK
2 (1)	FEH: 100 years: +0 %: 15 mins: Summer	8.381	7.000	7.008	0.008	0.1	0.010	0.000	0.1	0.045	OK
3 (1)	FEH: 100 years: +0 %: 15 mins: Summer	7.800	6.400	6.862	0.462	17.6	0.523	0.000	2.7	14.400	Surcharged
4 (1)	FEH: 100 years: +0 %: 15 mins: Summer	7.800	6.400	7.651	1.251	9.7	1.415	0.000	6.2	3.830	Flood Risk
5	FEH: 100 years: +0 %: 15 mins: Winter	7.520	6.250	7.521	1.271	45.5	1.967	0.531	8.7	19.430	Flood
6	FEH: 100 years: +0 %: 15 mins: Winter	7.324	5.880	7.328	1.448	42.1	5.304	3.671	29.8	40.583	Flood
Manhole	FEH: 100 years: +0 %: 15 mins: Summer	8.412	6.500	6.797	0.297	7.4	0.336	0.000	3.9	4.997	Surcharged
Manhole (1)	FEH: 100 years: +0 %: 30 mins: Winter	7.392	6.240	7.418	1.178	91.5	27.182	25.879	28.8	81.835	Flood

The Aylesham Centre, Peckham: Phase 1 Drainage		Date: 13/06/2024			
		Designed by: W. Rollings	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Walsh Associates:			



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
L 1	FEH: 100 years: +0 %: 15 mins: Summer	20.032	20.032	0.032	0.032	29.6	12.569	0.000	0.000	0.5	0.593	68.351	OK
L 2	FEH: 100 years: +0 %: 15 mins: Summer	20.016	20.016	0.016	0.016	5.9	6.447	0.000	0.000	0.1	0.048	83.958	OK
P	FEH: 100 years: +0 %: 15 mins: Summer	20.030	20.030	0.030	0.030	34.2	14.560	0.000	0.000	0.5	0.538	70.068	OK
Q	FEH: 100 years: +0 %: 15 mins: Summer	20.027	20.027	0.027	0.027	35.2	15.063	0.000	0.000	0.3	0.393	72.618	OK
N 1	FEH: 100 years: +0 %: 15 mins: Summer	20.028	20.028	0.028	0.028	20.4	8.713	0.000	0.000	0.2	0.267	72.041	OK
N 2	FEH: 100 years: +0 %: 15 mins: Summer	20.018	20.018	0.018	0.018	4.2	4.588	0.000	0.000	0.1	0.072	81.711	OK
M 2	FEH: 100 years: +0 %: 15 mins: Summer	20.019	20.019	0.019	0.019	5.0	5.453	0.000	0.000	0.1	0.073	81.428	OK
M 1	FEH: 100 years: +0 %: 15 mins: Summer	20.030	20.030	0.030	0.030	27.3	11.599	0.000	0.000	0.4	0.457	70.370	OK
MORRISONS PODIUM	FEH: 100 years: +0 %: 15 mins: Summer	10.018	10.018	0.018	0.018	47.9	52.484	0.000	0.000	0.5	0.312	82.338	OK
Tank	FEH: 100 years: +0 %: 15 mins: Summer	6.785	6.785	0.285	0.285	22.2	17.310	0.000	0.000	0.0	0.059	31.389	OK
Tank (1)	FEH: 100 years: +0 %: 15 mins: Summer	7.522	7.522	1.222	1.222	45.6	8.388	0.000	0.000	8.1	12.659	2.292	OK
Tank (2)	FEH: 100 years: +0 %: 15 mins: Summer	6.798	6.798	0.198	0.198	23.6	9.044	0.000	0.000	3.2	2.089	54.058	OK

The Aylesham Centre, Peckham: Phase 1 Drainage	Date: 13/06/2024		
	Designed by: W. Rollings	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase	Walsh Associates:		




FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Velocity

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
Pipe (1)	FEH: 100 years: +0 %: 240 mins: Winter	Pipe	L 1	5	7.538	20.066	0.100	23.764	0.2	0.02	1.6	OK
Pipe (2)	FEH: 100 years: +0 %: 240 mins: Winter	Pipe	P	6	7.202	20.065	0.100	24.492	0.2	0.04	1.5	OK
Pipe (3)	FEH: 100 years: +0 %: 480 mins: Winter	Pipe	MORRISONS PODIUM	5	7.521	10.068	0.100	62.793	0.2	0.1	1.9	OK
Pipe (4)	FEH: 100 years: +0 %: 960 mins: Winter	Pipe	MORRISONS PODIUM	3 (1)	8.299	10.061	0.100	88.091	0.3	0.1	1.6	OK
Pipe (5)	FEH: 100 years: +0 %: 480 mins: Summer	Pipe	M 1	4 (1)	7.756	20.058	0.080	27.030	0.8	0.02	1.1	OK
Pipe (6)	FEH: 100 years: +0 %: 480 mins: Winter	Pipe	M 2	3 (1)	8.088	20.068	0.100	16.436	0.1	0.01	0.4	OK
Pipe (7)	FEH: 100 years: +0 %: 240 mins: Summer	Pipe	Q	3 (1)	7.844	20.056	0.100	18.089	0.2	0.04	1.1	OK
Pipe (8)	FEH: 100 years: +0 %: 480 mins: Winter	Pipe	N 2	2 (1)	8.720	20.065	0.012	15.303	0.8	0.01	0.4	OK
Pipe (9)	FEH: 100 years: +0 %: 360 mins: Winter	Pipe	N 1	1 (1)	8.792	20.067	0.014	16.325	1.8	0.01	0.6	OK
Pipe (15)	FEH: 100 years: +0 %: 120 mins: Winter	Pipe	Tank	3 (1)	7.827	7.662	0.150	15.935	0.4	0.3	6.2	Surcharged
Pipe (14) (1)	FEH: 100 years: +0 %: 15 mins: Winter	Pipe	Manhole	Tank	8.412	6.823	0.150	3.528	0.8	0.3	4.0	Surcharged
Pipe (39)	FEH: 100 years: +0 %: 480 mins: Winter	Pipe	2 (1)	Tank	8.381	7.017	0.100	15.269	0.4	0.06	0.4	OK
Pipe (14)	FEH: 100 years: +0 %: 60 mins: Winter	Pipe	Tank (1)	5	7.800	7.480	0.225	14.186	0.5	0.84	20.0	Surcharged
Pipe (32)	FEH: 100 years: +0 %: 15 mins: Winter	Pipe	4 (1)	Tank (1)	7.800	7.728	0.100	3.962	1.0	1.58	7.6	Flood Risk

The Aylesham Centre, Peckham: Phase 1 Drainage		Date: 13/06/2024			
		Designed by: W. Rollings	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase		Walsh Associates:			

Pipe (11)	FEH: 100 years: +0 %: 120 mins: Winter	Pipe	3 (1)	Tank (1)	7.800	7.661	0.150	48.553	0.6	0.69	11.4	Flood Risk
Pipe (13)	FEH: 100 years: +0 %: 15 mins: Winter	Pipe	1 (1)	Tank (2)	8.997	7.067	0.125	9.729	2.9	0.32	20.4	OK
Pipe (12)	FEH: 100 years: +0 %: 15 mins: Winter	Pipe	Tank (2)	Manhole	8.470	6.825	0.150	0.766	0.2	0.09	3.4	Surcharged
Pipe	FEH: 100 years: +0 %: 960 mins: Winter	Pipe	L 2	5	7.366	20.058	0.100	20.502	0.1	0.01	0.3	OK
Pipe (10)	FEH: 100 years: +0 %: 120 mins: Winter	Pipe	5	Manhole (1)	7.520	7.517	0.225	111.970	1.0	0.85	23.5	Flood Risk
Pipe (10) (1)	FEH: 100 years: +0 %: 15 mins: Winter	Pipe	Manhole (1)	6	7.392	7.416	0.225	34.848	0.8	0.68	29.6	Flood

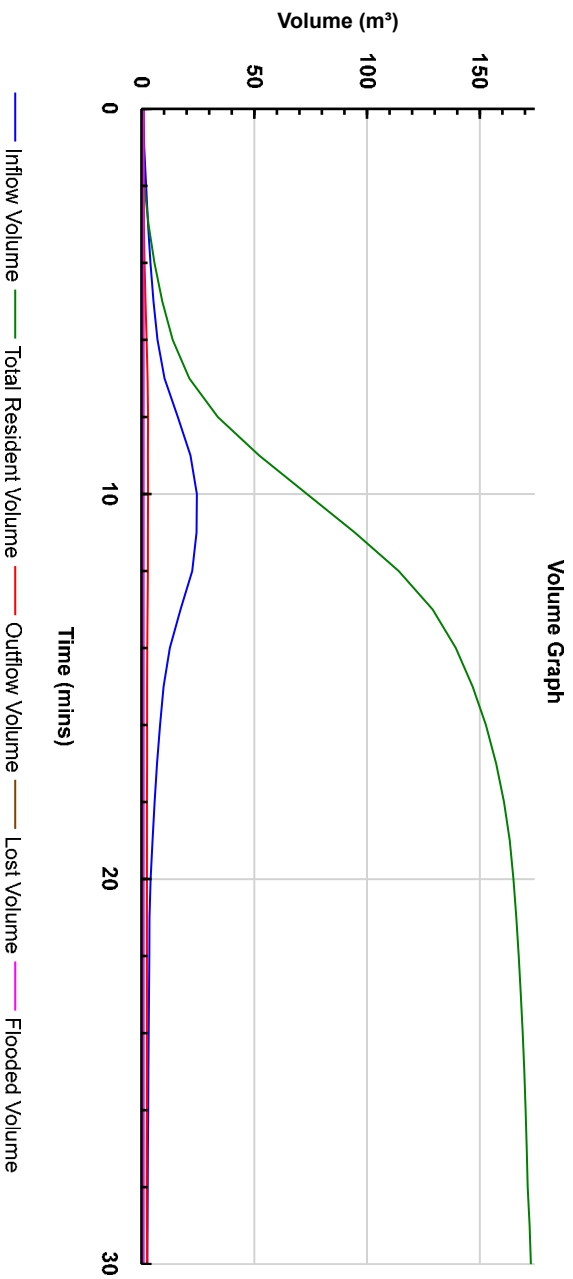
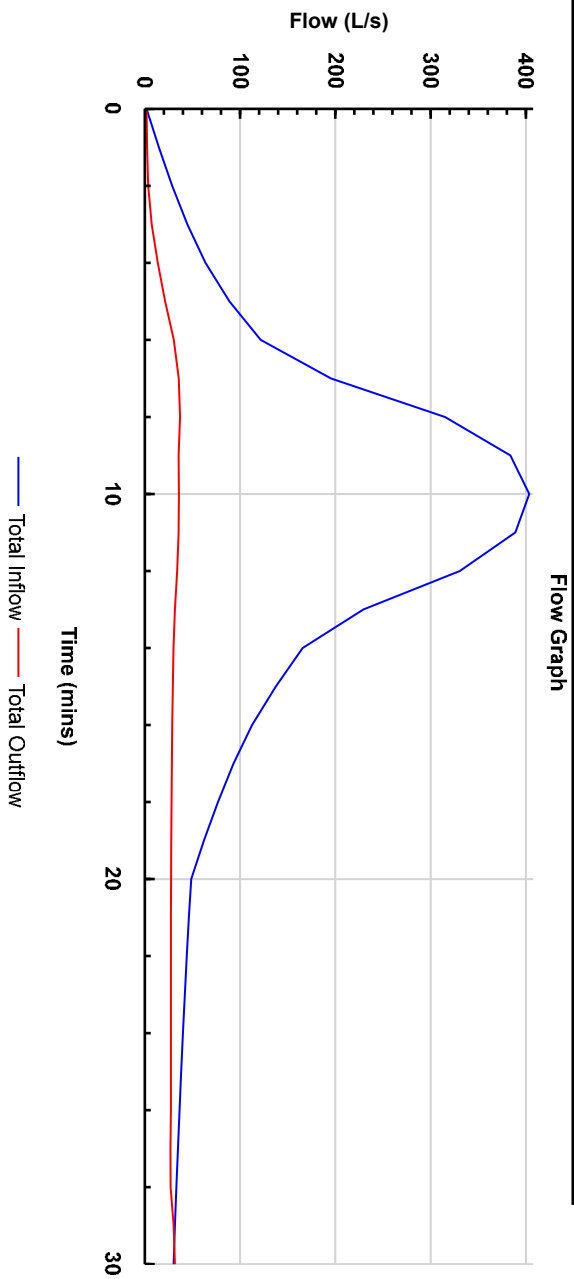
Phase

FEH: 100 years: Increase Rainfall (%): +0: 15 mins: Summer

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
6			29.8	40.370
TOTAL	403.6	217.637	35.2	43.989

Graphs



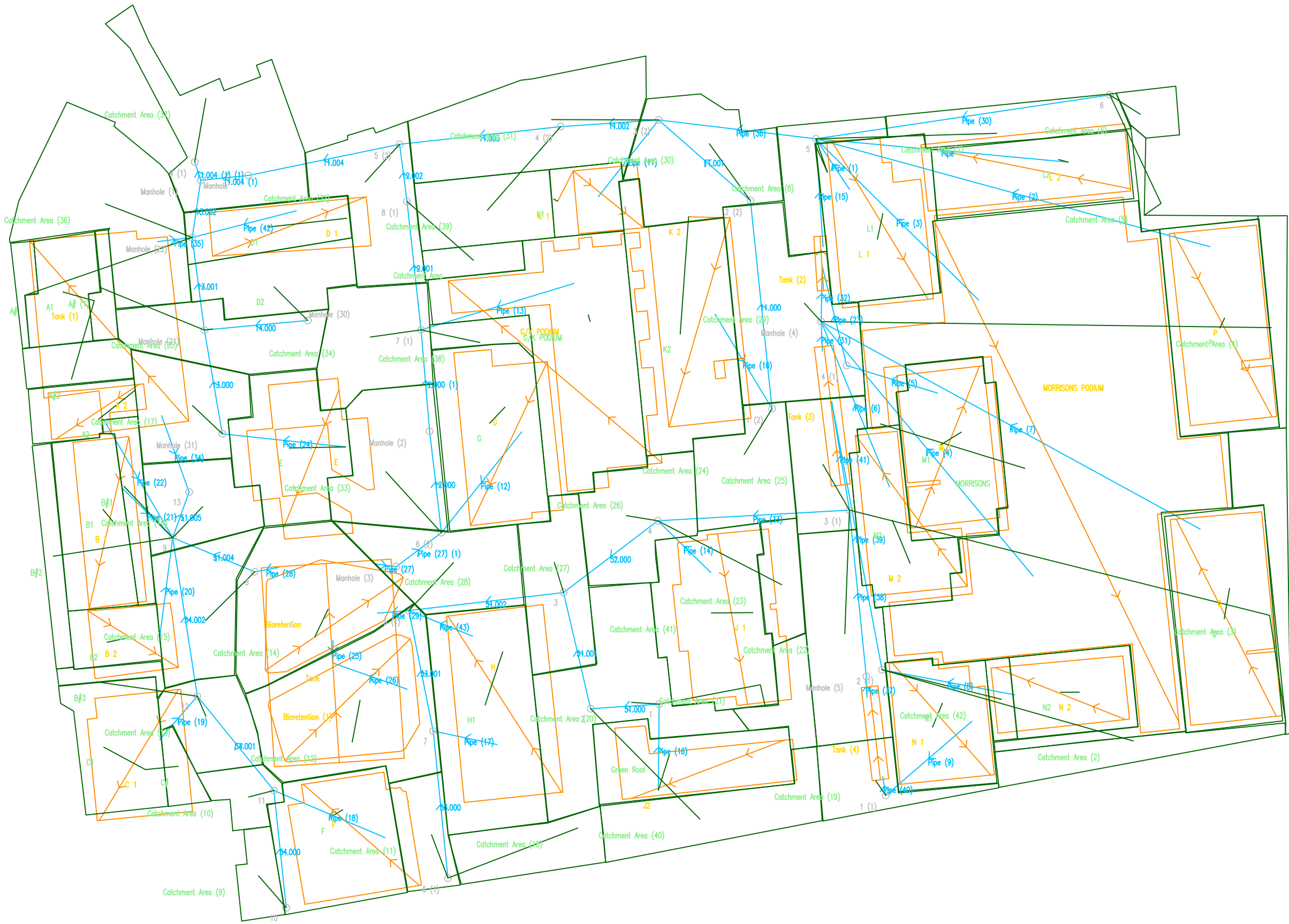
Notes

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED AND LEVELS ARE IN METRES.

2. THIS DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS.

3. THIS DRAWING HAS BEEN PRODUCED ELECTRONICALLY AND MAY HAVE BEEN PHOTO REDUCED OR ENLARGED WHEN COPIED. HENCE, DO NOT RELY ON ANY SCALES QUOTED. WORK ONLY TO FIGURED DIMENSIONS (DO NOT SCALE). ALL DIMENSIONS TO BE CHECKED ON SITE. ANY ERRORS OR OMISSIONS TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

C.D.M.
SIGNIFICANT RISKS AND HAZARDS:
KEY DESIGN DECISIONS TO REDUCE OR ELIMINATE HAZARDS:



P1	Rev.	Date	By	Details Of Revision
Client				
Project				
Title				
INFODRAINAGE SITEWIDE KEY PLAN				
WALSH				
Structural and Civil Engineers The Close Building 4 Marston Street London E1 2HQ t: +44(0)20 7599 6800 e: london@walsh.co.uk walsh.co.uk				
Status				
SKETCH				
Drawn	AD	Scale		
Date	Eng	Chk	App'd	
WA Ref.			Suitability	
ACTUAL DIMENSION = 10mm				
Drawing No.				
Rev.				

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



Bioretention

Type : Bioretention

Ponding Area

Exceedance Level (m)	8.012
Depth (m)	0.300
Base Level (m)	7.712
Top Area (m²)	317.89
Side Slope (1:X)	2.00
Base Area (m²)	282.86
Freeboard (mm)	0
Porosity (%)	30
Length (m)	29.189
Long. Slope (1:X)	0.00
Filtration Rate (m/hr)	268.0
Friction Scheme	Manning's n
n	0.035
Total Volume (m³)	56.734

Filter Area

Base Level (m)	7.362
----------------	-------

Filtration Layers

Use	Name	Filtration Layer Depth (mm)	Porosity (%)	Conductivity (m/hr)	Soil Type
☒	Soil	50	30	500.0	Soil Type
	Storage	300	30	500.0	

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (14)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (25)
Outlet Type	Weir
Width (m)	0.400
Coefficient of Discharge	0.544
Crest Level (m)	7.950

Advanced

Ponding Area

Base Perimeter (m)	77.760
Top Perimeter (m)	80.160

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		




Bioretention (1)

Type : Bioretention

Ponding Area

Exceedance Level (m)	8.100
Depth (m)	0.300
Base Level (m)	7.800
Top Area (m²)	404.78
Side Slope (1:X)	2.00
Base Area (m²)	367.96
Freeboard (mm)	0
Porosity (%)	100
Length (m)	30.685
Long. Slope (1:X)	0.00
Filtration Rate (m/hr)	268.0
Friction Scheme	Manning's n
n	0.035
Total Volume (m³)	154.546

Filter Area

Base Level (m)	7.450
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Filtration Layers

Use	Name	Filtration Layer Depth (mm)	Porosity (%)	Conductivity (m/hr)	Soil Type
☒	Soil	50	30	250.0	Soil Type
	Storage	300	30	250.0	

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (12)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (26)
Outlet Type	Weir
Width (m)	0.450
Coefficient of Discharge	0.544
Crest Level (m)	8.000

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024			
	Designed by: W.Rollings	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:			

Advanced

Ponding Area	
Base Perimeter (m)	85.353
Top Perimeter (m)	87.753

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



A 2

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	10.835

Depth (m)	Area (m²)	Volume (m³)
0.000	113.00	0.000
0.100	113.00	10.735

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	A2
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (22)
Outlet Type	Orifice
Diameter (m)	0.030
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	20.958

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



B 1

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	-0.031
Total Volume (m³)	27.849

Depth (m)	Area (m²)	Volume (m³)
0.000	292.19	0.000
0.100	292.00	27.749

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	B1
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (21)
Outlet Type	Orifice
Diameter (m)	0.035
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	30.968

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



B 2

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	16.250

Depth (m)	Area (m²)	Volume (m³)
0.000	170.00	0.000
0.100	170.00	16.150

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	B2
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (20)
Outlet Type	Orifice
Diameter (m)	0.012
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	18.912

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



C 1

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	33.825

Depth (m)	Area (m²)	Volume (m³)
0.000	355.00	0.000
0.100	355.00	33.725

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	C1
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	C#
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (19)
Outlet Type	Orifice
Diameter (m)	0.032
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	23.089

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



D 1

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	-0.085
Total Volume (m³)	21.591

Depth (m)	Area (m²)	Volume (m³)
0.000	226.45	0.000
0.100	226.00	21.491

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	D1
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (42)
Outlet Type	Orifice
Diameter (m)	0.025
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	29.025

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



E

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	30.120

Depth (m)	Area (m²)	Volume (m³)
0.000	316.00	0.000
0.100	316.00	30.020

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	E
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (24)
Outlet Type	Orifice
Diameter (m)	0.047
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	35.970

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



F

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	39.145

Depth (m)	Area (m²)	Volume (m³)
0.000	411.00	0.000
0.100	411.00	39.045

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	F
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (18)
Outlet Type	Orifice
Diameter (m)	0.044
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	21.545

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



H

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	54.060

Depth (m)	Area (m²)	Volume (m³)
0.000	568.00	0.000
0.100	568.00	53.960

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	H1
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (17)
Outlet Type	Orifice
Diameter (m)	0.035
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Outlet (1)

Outgoing Connection	Pipe (43)
Outlet Type	Orifice
Diameter (m)	0.045
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	36.111

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



J2

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	24.230

Depth (m)	Area (m²)	Volume (m³)
0.000	254.00	0.000
0.100	254.00	24.130

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Green Roof
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (16)
Outlet Type	Orifice
Diameter (m)	0.050
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	34.589

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



J 1

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	47.885

Depth (m)	Area (m²)	Volume (m³)
0.000	503.00	0.000
0.100	503.00	47.785

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	Catchment Area (41)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (14)
Outlet Type	Orifice
Diameter (m)	0.036
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	29.088

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



G

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	43.800

Depth (m)	Area (m²)	Volume (m³)
0.000	460.00	0.000
0.100	460.00	43.700

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	G
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (12)
Outlet Type	Orifice
Diameter (m)	0.050
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	33.697

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



G/K PODIUM

Type : Tank

Dimensions

Exceedance Level (m)	10.200
Depth (m)	0.200
Base Level (m)	10.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	72.300

Depth (m)	Area (m²)	Volume (m³)
0.000	760.00	0.000
0.100	760.00	72.200

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	G/K PODIUM
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (13)
Outlet Type	Orifice
Diameter (m)	0.055
Coefficient of Discharge	0.600
Invert Level (m)	10.000

Advanced

Perimeter	Circular
Length (m)	50.585

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



K 1

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	12.070

Depth (m)	Area (m²)	Volume (m³)
0.000	126.00	0.000
0.100	126.00	11.970

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	K1
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (11)
Outlet Type	Orifice
Diameter (m)	0.022
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	14.831

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



K 2

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	49.025

Depth (m)	Area (m²)	Volume (m³)
0.000	515.00	0.000
0.100	515.00	48.925

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	K2
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (10)
Outlet Type	Orifice
Diameter (m)	0.084
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	36.208

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



L 1

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	39.715

Depth (m)	Area (m²)	Volume (m³)
0.000	417.00	0.000
0.100	417.00	39.615

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	L 1
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (1)
Outlet Type	Orifice
Diameter (m)	0.065
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	28.525

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



L 2

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	40.190

Depth (m)	Area (m²)	Volume (m³)
0.000	422.00	0.000
0.100	422.00	40.090

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	L2
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe
Outlet Type	Orifice
Diameter (m)	0.025
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	36.384

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



P

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	48.645

Depth (m)	Area (m²)	Volume (m³)
0.000	511.00	0.000
0.100	511.00	48.545

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	P
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (2)
Outlet Type	Orifice
Diameter (m)	0.065
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	33.745

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



Q

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	55.010

Depth (m)	Area (m²)	Volume (m³)
0.000	578.00	0.000
0.100	578.00	54.910

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Q
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (7)
Outlet Type	Orifice
Diameter (m)	0.055
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	35.192

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



N 1

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	31.165

Depth (m)	Area (m²)	Volume (m³)
0.000	327.00	0.000
0.100	327.00	31.065

Inlets

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	N1
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (9)
Outlet Type	Orifice
Diameter (m)	0.035
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	21.054

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



N 2

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	25.085

Depth (m)	Area (m²)	Volume (m³)
0.000	263.00	0.000
0.100	263.00	24.985

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	N2
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (8)
Outlet Type	Orifice
Diameter (m)	0.030
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	28.031

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



M 2

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	29.360

Depth (m)	Area (m²)	Volume (m³)
0.000	308.00	0.000
0.100	308.00	29.260

Inlets

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	M2
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (6)
Outlet Type	Orifice
Diameter (m)	0.030
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	32.413

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



M 1

Type : Tank

Dimensions

Exceedance Level (m)	20.200
Depth (m)	0.200
Base Level (m)	20.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	39.145

Depth (m)	Area (m²)	Volume (m³)
0.000	411.00	0.000
0.100	411.00	39.045

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	M1
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (5)
Outlet Type	Orifice
Diameter (m)	0.055
Coefficient of Discharge	0.600
Invert Level (m)	20.000

Advanced

Perimeter	Circular
Length (m)	26.812

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



MORRISONS PODIUM

Type : Tank

Dimensions

Exceedance Level (m)	10.200
Depth (m)	0.200
Base Level (m)	10.000
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	297.165

Depth (m)	Area (m²)	Volume (m³)
0.000	3127.00	0.000
0.100	3127.00	297.065

Inlets

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	MORRISONS
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (3)
Outlet Type	Orifice
Diameter (m)	0.077
Coefficient of Discharge	0.600
Invert Level (m)	10.000

Outlet (1)

Outgoing Connection	Pipe (4)
Outlet Type	Orifice
Diameter (m)	0.077
Coefficient of Discharge	0.600
Invert Level (m)	10.000

Advanced

Perimeter	Circular
Length (m)	101.590

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
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Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



Tank

Type : Tank

Dimensions		
Exceedance Level (m)	8.003	
Depth (m)	3.500	
Base Level (m)	4.503	
Freeboard (mm)	0	
Initial Depth (m)	0.000	
Porosity (%)	95	
Average Slope (1:X)	0.00	
Total Volume (m³)	1521.500	
	Depth (m)	Area (m²)
	0.000	800.00
	2.000	800.00
		Volume (m³)
		0.000
		1520.000

Inlets	
Inlet (2)	
Inlet Type	Point Inflow
Incoming Item(s)	Pipe (29)
Bypass Destination	(None)
Capacity Type	No Restriction
Inlet	
Inlet Type	Point Inflow
Incoming Item(s)	Pipe (26)
Bypass Destination	(None)
Capacity Type	No Restriction
Inlet (1)	
Inlet Type	Point Inflow
Incoming Item(s)	Pipe (25)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets	
Outlet	
Outgoing Connection	Pipe (27)
Outlet Type	Free Discharge
Outlet (1)	
Outgoing Connection	Pipe (28)
Outlet Type	Free Discharge

Advanced	
Perimeter	Circular
Length (m)	35.015

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		





Tank (1)

Type : Tank

Dimensions

Exceedance Level (m)	7.255
Depth (m)	2.405
Base Level (m)	4.850
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	-0.002
Total Volume (m³)	1203.260

Depth (m)	Area (m²)	Volume (m³)
0.000	767.30	0.000
1.650	767.00	1202.505

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	A1
	A#2
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (34)
Outlet Type	Free Discharge

Outlet (1)

Outgoing Connection	Pipe (35)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	42.248

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		





Tank (2)

Type : Tank

Dimensions

Exceedance Level (m)	7.754
Depth (m)	1.454
Base Level (m)	6.300
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	8.654

Depth (m)	Area (m²)	Volume (m³)
0.000	20.00	0.000
0.400	20.00	7.600

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (23) Pipe (32)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (15)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	9.557

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



Tank (3)

Type : Tank

Dimensions

Exceedance Level (m)	7.810
Depth (m)	1.310
Base Level (m)	6.500
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	25.230

Depth (m)	Area (m²)	Volume (m³)
0.000	64.00	0.000
0.400	64.00	24.320

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (39) Pipe (41)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (31)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	24.529

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Walsh Associates:		



Tank (4)

Type : Tank

Dimensions

Exceedance Level (m)	8.461
Depth (m)	1.861
Base Level (m)	6.600
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	95
Average Slope (1:X)	0.00
Total Volume (m³)	19.701

Depth (m)	Area (m²)	Volume (m³)
0.000	48.00	0.000
0.400	48.00	18.240

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Pipe (40)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Pipe (37)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	16.431

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024			
		Designed by: W.Rollings	Checked by:		Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase		Walsh Associates:			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
1 (2)	7.872 3.900	Diameter / Length: 1.200	{1} Pipe (10)	Pipe	3.900	Diam/Width:150	Manhole
E:534286.959 N:176652.482	3.972						
			{a} 11.000	Pipe	3.900	Diam/Width:150	Not Applicable
2 (2)	7.599 3.500	Diameter / Length: 1.200	{1} 11.000	Pipe	3.500	Diam/Width:150	Manhole
E:534283.158 N:176689.001	4.099						
			{a} 11.001	Pipe	3.500	Diam/Width:225	Not Applicable
3 (2)	7.713 3.200	Diameter / Length: 1.200	{1} 11.001	Pipe	3.200	Diam/Width:225	Manhole
E:534267.044 N:176703.162	4.513		{2} Pipe (11)	Pipe	3.200	Diam/Width:100 Diam/Width:225	
			{3} Pipe (36)	Pipe	3.200		
			{a} 11.002	Pipe	3.200	Diam/Width:225	Not Applicable
4 (2)	7.872 3.050	Diameter / Length: 1.200	{1} 11.002	Pipe	3.050	Diam/Width:225	Manhole
E:534249.832 N:176701.990	4.822						
			{a} 11.003	Pipe	3.050	Diam/Width:225	Not Applicable

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024			
		Designed by: W.Rollings	Checked by:		Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase		Walsh Associates:			

Name	Cover Level (m) Invert Level (m)		Connection Details				Type
Coordinates (m)	Depth (m)	Manhole Size (m)	Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
9 (1)	6.984 2.390	Diameter / Length: 1.200	{1} 11.004 (1) (1)	Pipe	2.390	Diam/Width:225	Manhole
E:534185.601	4.594						
N:176695.783							Not Applicable
5 (2)	7.547 2.650	Diameter / Length: 1.200	{1} 11.003	Pipe	2.650	Diam/Width:225	Manhole
E:534221.572	4.897		{2} 12.002	Pipe	3.910	Diam/Width:225	
N:176698.872			{a} 11.004	Pipe	2.650	Diam/Width:225	Not Applicable
6 (2)	8.000 3.250	Diameter / Length: 1.200	{1} Pipe (12)	Pipe	3.250	Diam/Width:100	Manhole
E:534228.900	4.750		{2} Pipe (27) (1)	Pipe	4.380	Diam/Width:150	
N:176630.709			{a} 12.000	Pipe	4.380	Diam/Width:150	Not Applicable
7 (1)	7.775 3.000	Diameter / Length: 1.200	{1} 12.000 (1)	Pipe	4.140	Diam/Width:225	Manhole
E:534225.329	4.775		{2} Pipe (13)	Pipe	3.000	Diam/Width:100	
N:176666.324			{a} 12.001	Pipe	4.140	Diam/Width:225	Not Applicable
8 (1)	7.723 3.990	Diameter / Length: 1.200	{1} 12.001	Pipe	3.990	Diam/Width:225	Manhole
E:534222.845	3.733		{a} 12.002	Pipe	3.990	Diam/Width:225	Not Applicable
N:176688.876							

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024			
		Designed by: W.Rollings	Checked by:		Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase		Walsh Associates:			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
1	8.545 5.200	Diameter / Length: 1.200	{1} Pipe (16)	Pipe	5.200	Diam/Width:100	Manhole
E:534267.111 N:176600.625	3.345		{a} 51.000	Pipe	5.200	Diam/Width:150	Not Applicable
2	8.487 7.121	Diameter / Length: 1.200	{1} 51.000	Pipe	7.121	Diam/Width:150	Manhole
E:534255.111 N:176599.818	1.366		{a} 51.001	Pipe	7.121	Diam/Width:225	Not Applicable
3	8.031 5.877	Diameter / Length: 1.200	{1} 51.001	Pipe	5.877	Diam/Width:225	Manhole
E:534250.354 N:176620.222	2.154		{2} 52.000	Pipe	5.877	Diam/Width:225	
			{a} 51.002	Pipe	5.877	Diam/Width:225	Not Applicable
5 (1)	8.059 4.400	Diameter / Length: 1.200	{1} 51.002	Pipe	4.400	Diam/Width:225	Manhole
E:534223.184 N:176617.051	3.659		{2} Pipe (43)	Pipe	4.400	Diam/Width:100	
			{3} 53.001	Pipe	6.924	Diam/Width:150	
			{a} Pipe (29)	Pipe	4.550	Diam/Width:300	Not Applicable

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Walsh Associates:			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
8	8.008 4.420	Diameter / Length: 1.200	{1} Pipe (28)	Pipe	4.420	Diam/Width:300	Manhole
E:534196.136 N:176623.854	3.588						
			{a} 51.004	Pipe	4.420	Diam/Width:300	Not Applicable
9	8.000 4.000	Diameter / Length: 1.200	{1} 51.004	Pipe	4.300	Diam/Width:300	Manhole
E:534181.722 N:176629.848	4.000		{2} Pipe (20)	Pipe	4.000	Diam/Width:100	
			{3} Pipe (21)	Pipe	4.000	Diam/Width:150	
			{4} 54.002	Pipe	4.000	Diam/Width:100	
			{5} Pipe (22)	Pipe	4.000		
					4.000		
			{a} 51.005	Pipe	4.000	Diam/Width:300	Not Applicable
13	8.000 4.230	Diameter / Length: 1.200	{1} 51.005	Pipe	4.230	Diam/Width:300	Manhole
E:534184.617 N:176637.851	3.770		{2} Pipe (34)	Pipe	4.230	Diam/Width:225	
							Not Applicable
6 (1)	8.627 7.400	Diameter / Length: 1.200					Manhole
E:534230.048 N:176570.100	1.227						
			{a} 53.000	Pipe	7.400	Diam/Width:150	Not Applicable

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024			
		Designed by: W.Rollings	Checked by:		Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase		Walsh Associates:			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
7	8.264 4.650	Diameter / Length: 1.200	{1} 53.000	Pipe	4.650	Diam/Width:150	Manhole
E:534227.446 N:176595.896	3.614		{2} Pipe (17)	Pipe	4.650	Diam/Width:100	
			{a} 53.001	Pipe	7.140	Diam/Width:150	Not Applicable
10	8.489 6.500	Diameter / Length: 1.200					Manhole
E:534201.650 N:176564.896	1.989						
			{a} 54.000	Pipe	6.500	Diam/Width:100	Not Applicable
11	8.212 4.600	Diameter / Length: 1.200	{1} 54.000	Pipe	4.600	Diam/Width:100	Manhole
E:534199.500 N:176585.487	3.612		{2} Pipe (18)	Pipe	4.600	Diam/Width:100	
			{a} 54.001	Pipe	4.600	Diam/Width:150	Not Applicable
12	8.017 1.050	Diameter / Length: 1.200	{1} 54.001	Pipe	1.050	Diam/Width:150	Manhole
E:534186.036 N:176602.006	6.967		{2} Pipe (19)	Pipe	1.050	Diam/Width:100	
			{a} 54.002	Pipe	1.050	Diam/Width:150	Not Applicable

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024			
	Designed by: W.Rollings	Checked by:	Approved By:	
Report Details: Type: Manhole Schedule Storm Phase: Phase	Walsh Associates:			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (21)	7.660 5.270	Diameter / Length: 1.200	{1} 14.000	Pipe	5.270	Diam/Width:150	Manhole
E:534187.288 N:176666.276	2.390		{2} 13.000	Pipe	5.270	Diam/Width:150	
			{a} 13.001	Pipe	5.270	Diam/Width:150	Not Applicable
Manhole (22)	7.327 2.390	Diameter / Length: 1.200	{1} 13.001	Pipe	2.390	Diam/Width:150	Manhole
E:534185.152 N:176682.512	4.937		{2} Pipe (42)	Pipe	2.390	Diam/Width:100 Diam/Width:450	
			{3} Pipe (35)	Pipe	4.800		
			{a} 13.002	Pipe	2.390	Diam/Width:300	Not Applicable
4	8.000 4.800	Diameter / Length: 1.200	{1} Pipe (14)	Pipe	4.800	Diam/Width:100 Diam/Width:150	Manhole
E:534266.896 N:176632.815	3.200		{2} Pipe (33)	Pipe	4.800		
			{a} 52.000	Pipe	4.800	Diam/Width:225	Not Applicable
1 (1)	8.997 7.000	Diameter / Length: 1.200	{1} Pipe (9)	Pipe	7.000	Diam/Width:100	Manhole
E:534306.903 N:176584.610	1.997		{a} Pipe (40)	Pipe	7.000	Diam/Width:150	

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024			
		Designed by: W.Rollings	Checked by:		Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase		Walsh Associates:			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
2 (1)	8.381 7.000	Diameter / Length: 1.200	{1} Pipe (8)	Pipe	7.000	Diam/Width:100	Manhole
E:534306.258 N:176606.662	1.381		{a} Pipe (39)	Pipe	7.000	Diam/Width:150	Not Applicable
3 (1)	7.968 5.500	Diameter / Length: 1.200	{1} Pipe (38)	Pipe	5.500	Diam/Width:150	Manhole
E:534300.551 N:176634.681	2.468		{a} Pipe (33)	Pipe	5.500	Diam/Width:150	Not Applicable
			{b} Pipe (41)	Pipe	5.500	Diam/Width:150	Not Applicable
4 (1)	7.800 6.400	Diameter / Length: 1.200	{1} Pipe (5)	Pipe	6.400	Diam/Width:100	Manhole
E:534300.056 N:176660.060	1.400		{a} Pipe (23)	Pipe	6.400	Diam/Width:100	Not Applicable

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024			
		Designed by: W.Rollings	Checked by:		Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase		Walsh Associates:			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
5	7.482 5.800	Diameter / Length: 1.200	{1} Pipe (1)	Pipe	5.800	Diam/Width:100	Manhole
E:534294.633	1.682		{2} Pipe (2)	Pipe	6.400	Diam/Width:100	
N:176699.853			{3} Pipe (3)	Pipe		Diam/Width:100	
			{4} Pipe	Pipe		Diam/Width:100	
			{5} Pipe (30)	Pipe	Diam/Width:225		
			{6} Pipe (15)	Pipe	Diam/Width:225		
					5.800		
			{a} Pipe (36)	Pipe	5.800	Diam/Width:225	Not Applicable
6	7.229 6.400	Diameter / Length: 1.200					Manhole
E:534346.243	0.829						
N:176707.544			{a} Pipe (30)	Pipe	6.400	Diam/Width:225	Not Applicable
Manhole (30)	7.775 3.000	Diameter / Length: 1.200					Manhole
E:534205.445	4.775						
N:176667.961			{a} 14.000	Pipe	3.000	Diam/Width:150	Not Applicable

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
	Report Details: Type: Manhole Schedule Storm Phase: Phase		
Walsh Associates:			

Name	Cover Level (m) Invert Level (m)	Manhole Size (m)	Connection Details				Type
Coordinates (m)	Depth (m)		Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (31)	7.846 3.000	Diameter / Length: 1.200	{1} Pipe (24)	Pipe	3.000	Diam/Width:100	Manhole
E:534190.452	4.846						
N:176648.073			{a} 13.000	Pipe	5.400	Diam/Width:150	Not Applicable
Manhole	7.045 2.460	Diameter / Length: 1.200	{1} 11.004	Pipe	2.460	Diam/Width:225	Manhole
E:534195.001	4.585						
N:176693.412			{a} 11.004 (1)	Pipe	2.460	Diam/Width:225	Not Applicable
Manhole (1)	7.083 2.390	Diameter / Length: 1.200	{1} 11.004 (1)	Pipe	2.390	Diam/Width:225	Manhole
E:534186.663	4.693		{2} 13.002	Pipe	2.390	Diam/Width:300	
N:176692.564			{a} 11.004 (1) (1)	Pipe	2.390	Diam/Width:225	Not Applicable
Manhole (2)	7.870 4.260	Diameter / Length: 1.200	{1} 12.000	Pipe	4.260	Diam/Width:150	Manhole
E:534226.821	3.610						
N:176648.499			{a} 12.000 (1)	Pipe	4.260	Diam/Width:225	Not Applicable
Manhole (3)	8.006 4.450	Diameter / Length: 1.200	{1} Pipe (27)	Pipe	4.450	Diam/Width:150	Manhole
E:534220.962	3.556						
N:176624.764			{a} Pipe (27) (1)	Pipe	4.450	Diam/Width:150	Not Applicable

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Manhole Schedule Storm Phase: Phase	Walsh Associates:		



Name	Cover Level (m) Invert Level (m)		Connection Details				Type
Coordinates (m)	Depth (m)	Manhole Size (m)	Incoming Connections	Connection Type	Connection Invert (m)	Connection Size (mm)	Junction Type
			Outgoing Connections				Cover
Manhole (4)	7.800 5.500	Diameter / Length: 1.200	{1} Pipe (31)	Pipe	5.500	Diam/Width:150	Manhole
E:534295.566	2.300		{2} Pipe (7)	Pipe	5.500	Diam/Width:100	
N:176667.768			{3} Pipe (4)	Pipe	5.500	Diam/Width:100	
			{4} Pipe (6)	Pipe	5.500	Diam/Width:100	
					5.500		
			{a} Pipe (32)	Pipe	5.500	Diam/Width:150	Not Applicable
Manhole (5)	8.431 6.580	Diameter / Length: 1.200	{1} Pipe (37)	Pipe	6.580	Diam/Width:100	Manhole
E:534303.482	1.851						
N:176605.521			{a} Pipe (38)	Pipe	6.580	Diam/Width:150	Not Applicable

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024			
	Designed by: W.Rollings	Checked by:	Approved By:	
	Walsh Associates:			
Report Details: Type: Outfall Details Storm Phase: Phase				

Outfalls

Outfall	Outfall Type	Fixed Surcharged Level (m)	Level Curve
9 (1)	Free Discharge		
13	Free Discharge		

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Walsh Associates:		



FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flooded Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1 (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.872	3.900	7.079	3.179	23.3	3.595	0.000	11.3	10.291	Surcharged
2 (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.599	3.500	6.985	3.485	45.7	3.941	0.000	27.9	23.597	Surcharged
3 (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.713	3.200	6.945	3.745	74.5	4.236	0.000	67.9	69.734	Surcharged
4 (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.872	3.050	6.687	3.637	72.7	4.114	0.000	77.5	67.360	Surcharged
9 (1)	FEH: 100 years: +40 %: 15 mins: Summer	6.984	2.390	6.240	3.850	40.6	4.354	0.000	3.1	16.216	OK
5 (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.547	2.650	6.423	3.773	83.9	4.268	0.000	83.8	77.361	Surcharged
6 (2)	FEH: 100 years: +40 %: 15 mins: Summer	8.000	3.250	6.049	2.799	54.2	3.166	0.000	0.0	38.878	Surcharged
7 (1)	FEH: 100 years: +40 %: 15 mins: Summer	7.775	3.000	6.397	3.397	45.0	3.843	0.000	0.0	28.943	Surcharged
8 (1)	FEH: 100 years: +40 %: 15 mins: Summer	7.723	3.990	6.409	2.419	24.0	2.736	0.000	1.3	18.515	Surcharged
1	FEH: 100 years: +40 %: 15 mins: Summer	8.545	5.200	8.316	3.116	55.4	3.524	0.000	53.1	22.356	Flood Risk
2	FEH: 100 years: +40 %: 15 mins: Summer	8.487	7.121	7.288	0.167	79.9	0.189	0.000	65.1	33.915	OK
3	FEH: 100 years: +40 %: 15 mins: Summer	8.031	5.877	6.975	1.098	142.6	1.242	0.000	137.1	89.959	Surcharged
5 (1)	FEH: 100 years: +40 %: 15 mins: Summer	8.059	4.400	4.918	0.518	185.3	0.586	0.000	183.9	110.404	Surcharged
8	FEH: 100 years: +40 %: 15 mins: Summer	8.008	4.420	4.920	0.500	76.2	0.566	0.000	5.2	79.048	Surcharged
9	FEH: 100 years: +40 %: 15 mins: Summer	8.000	4.000	4.969	0.969	65.8	1.096	0.000	15.5	75.659	Surcharged
13	FEH: 100 years: +40 %: 15 mins: Summer	8.000	4.230	4.965	0.735	50.7	0.831	0.000	1.8	49.502	OK
6 (1)	FEH: 100 years: +40 %: 15 mins: Summer	8.627	7.400	7.865	0.465	30.4	0.526	0.000	24.8	13.190	Surcharged
7	FEH: 100 years: +40 %: 15 mins: Summer	8.264	4.650	7.412	2.762	24.9	3.123	0.000	21.5	10.263	Surcharged
10	FEH: 100 years: +40 %: 15 mins: Summer	8.489	6.500	6.544	0.044	7.6	0.050	0.000	7.5	3.298	OK
11	FEH: 100 years: +40 %: 15 mins: Summer	8.212	4.600	5.532	0.932	15.6	1.054	0.000	10.7	6.740	Surcharged

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024			
		Designed by: W.Rollings	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase		Walsh Associates:			

12	FEH: 100 years: +40 %: 15 mins: Summer	8.017	1.050	5.465	4.415	31.4	4.993	0.000	27.1	13.547	Surcharged
Manhole (21)	FEH: 100 years: +40 %: 15 mins: Summer	7.660	5.270	6.643	1.373	46.2	1.552	0.000	45.1	28.391	Surcharged
Manhole (22)	FEH: 100 years: +40 %: 15 mins: Summer	7.327	2.390	6.172	3.782	154.5	4.278	0.000	7.6	113.705	Surcharged
4	FEH: 100 years: +40 %: 15 mins: Summer	8.000	4.800	7.223	2.423	63.0	2.740	0.000	53.9	46.940	Surcharged
1 (1)	FEH: 100 years: +40 %: 15 mins: Summer	8.997	7.000	7.054	0.054	15.0	0.061	0.000	14.8	6.860	OK
2 (1)	FEH: 100 years: +40 %: 15 mins: Summer	8.381	7.000	7.183	0.183	20.5	0.207	0.000	17.8	8.902	Surcharged
3 (1)	FEH: 100 years: +40 %: 15 mins: Summer	7.968	5.500	7.772	2.272	71.5	2.569	0.000	36.3	44.548	Flood Risk
4 (1)	FEH: 100 years: +40 %: 15 mins: Summer	7.800	6.400	7.105	0.705	0.7	0.797	0.000	2.9	1.699	Surcharged
5	FEH: 100 years: +40 %: 15 mins: Summer	7.482	5.800	7.029	1.229	48.7	1.390	0.000	51.4	39.122	Surcharged
6	FEH: 100 years: +40 %: 15 mins: Winter	7.229	6.400	7.232	0.832	22.2	4.320	3.382	5.9	6.302	Flood
Manhole (30)	FEH: 100 years: +40 %: 15 mins: Summer	7.775	3.000	6.671	3.671	21.1	4.152	0.000	14.1	7.434	Surcharged
Manhole (31)	FEH: 100 years: +40 %: 15 mins: Summer	7.846	3.000	6.703	3.703	23.7	4.188	0.000	15.4	7.912	Surcharged
Manhole	FEH: 100 years: +40 %: 15 mins: Summer	7.045	2.460	6.263	3.803	83.8	4.301	0.000	86.9	59.577	Surcharged
Manhole (1)	FEH: 100 years: +40 %: 15 mins: Summer	7.083	2.390	6.218	3.828	95.6	4.330	0.000	2.5	72.141	Surcharged
Manhole (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.870	4.260	6.319	2.059	33.8	2.329	0.000	0.0	27.770	Surcharged
Manhole (3)	FEH: 100 years: +40 %: 15 mins: Summer	8.006	4.450	5.400	0.950	44.2	1.075	0.000	0.0	37.110	Surcharged
Manhole (4)	FEH: 100 years: +40 %: 30 mins: Winter	7.800	5.500	7.803	2.303	38.8	5.493	2.892	14.0	46.049	Flood
Manhole (5)	FEH: 100 years: +40 %: 15 mins: Summer	8.431	6.580	7.241	0.661	24.9	0.748	0.000	13.7	15.039	Surcharged

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Walsh Associates:		



FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1 (2)	FEH: 100 years: +0 %: 15 mins: Summer	7.872	3.900	6.406	2.506	17.2	2.834	0.000	9.7	6.961	Surcharged
2 (2)	FEH: 100 years: +0 %: 15 mins: Summer	7.599	3.500	6.360	2.860	24.9	3.235	0.000	17.4	16.001	Surcharged
3 (2)	FEH: 100 years: +0 %: 15 mins: Summer	7.713	3.200	6.345	3.145	53.2	3.557	0.000	55.7	46.712	Surcharged
4 (2)	FEH: 100 years: +0 %: 15 mins: Summer	7.872	3.050	6.158	3.108	59.1	3.515	0.000	62.1	47.228	Surcharged
9 (1)	FEH: 100 years: +0 %: 15 mins: Summer	6.984	2.390	5.655	3.265	29.0	3.693	0.000	2.9	11.242	OK
5 (2)	FEH: 100 years: +0 %: 15 mins: Summer	7.547	2.650	5.810	3.160	66.6	3.574	0.000	62.0	54.457	Surcharged
6 (2)	FEH: 100 years: +0 %: 15 mins: Summer	8.000	3.250	5.399	2.149	41.3	2.430	0.000	0.0	30.892	Surcharged
7 (1)	FEH: 100 years: +0 %: 15 mins: Summer	7.775	3.000	5.788	2.788	44.1	3.153	0.000	0.0	24.888	Surcharged
8 (1)	FEH: 100 years: +0 %: 15 mins: Summer	7.723	3.990	5.805	1.815	32.7	2.053	0.000	0.9	17.945	Surcharged
1	FEH: 100 years: +0 %: 15 mins: Summer	8.545	5.200	7.860	2.660	39.5	3.009	0.000	36.0	15.381	Surcharged
2	FEH: 100 years: +0 %: 15 mins: Summer	8.487	7.121	7.224	0.103	55.0	0.117	0.000	54.4	23.645	OK
3	FEH: 100 years: +0 %: 15 mins: Summer	8.031	5.877	6.147	0.270	121.5	0.306	0.000	107.8	66.771	Surcharged
5 (1)	FEH: 100 years: +0 %: 15 mins: Summer	8.059	4.400	4.834	0.434	144.1	0.491	0.000	148.8	80.024	OK
8	FEH: 100 years: +0 %: 15 mins: Summer	8.008	4.420	4.879	0.459	54.7	0.519	0.000	3.7	47.366	Surcharged
9	FEH: 100 years: +0 %: 15 mins: Summer	8.000	4.000	4.907	0.907	44.7	1.026	0.000	7.5	45.482	Surcharged
13	FEH: 100 years: +0 %: 15 mins: Summer	8.000	4.230	4.907	0.677	32.3	0.766	0.000	2.0	27.442	OK
6 (1)	FEH: 100 years: +0 %: 15 mins: Summer	8.627	7.400	7.505	0.105	21.7	0.118	0.000	18.6	9.416	OK
7	FEH: 100 years: +0 %: 15 mins: Summer	8.264	4.650	7.271	2.621	18.6	2.964	0.000	17.2	6.338	OK
10	FEH: 100 years: +0 %: 15 mins: Summer	8.489	6.500	6.536	0.036	5.4	0.041	0.000	5.4	2.358	OK
11	FEH: 100 years: +0 %: 15 mins: Summer	8.212	4.600	5.157	0.557	11.1	0.630	0.000	6.3	4.817	Surcharged

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024			
		Designed by: W.Rollings	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase		Walsh Associates:			

12	FEH: 100 years: +0 %: 15 mins: Summer	8.017	1.050	5.127	4.077	21.1	4.611	0.000	17.1	9.094	Surcharged
Manhole (21)	FEH: 100 years: +0 %: 15 mins: Summer	7.660	5.270	5.732	0.462	26.6	0.522	0.000	31.2	18.866	Surcharged
Manhole (22)	FEH: 100 years: +0 %: 15 mins: Summer	7.327	2.390	5.635	3.245	112.9	3.670	0.000	5.9	72.712	Surcharged
4	FEH: 100 years: +0 %: 15 mins: Summer	8.000	4.800	6.355	1.555	54.0	1.759	0.000	50.2	36.870	Surcharged
1 (1)	FEH: 100 years: +0 %: 15 mins: Summer	8.997	7.000	7.045	0.045	10.7	0.051	0.000	10.6	4.859	OK
2 (1)	FEH: 100 years: +0 %: 15 mins: Summer	8.381	7.000	7.103	0.103	14.6	0.116	0.000	14.0	6.348	OK
3 (1)	FEH: 100 years: +0 %: 15 mins: Summer	7.968	5.500	7.052	1.552	51.1	1.755	0.000	34.1	32.956	Surcharged
4 (1)	FEH: 100 years: +0 %: 15 mins: Summer	7.800	6.400	6.500	0.100	0.4	0.114	0.000	1.6	0.618	Surcharged
5	FEH: 100 years: +0 %: 15 mins: Summer	7.482	5.800	6.450	0.650	26.2	0.735	0.000	29.9	22.865	Surcharged
6	FEH: 100 years: +0 %: 15 mins: Summer	7.229	6.400	6.465	0.065	4.0	0.073	0.000	3.7	1.828	OK
Manhole (30)	FEH: 100 years: +0 %: 15 mins: Summer	7.775	3.000	5.779	2.779	15.1	3.143	0.000	9.8	4.811	Surcharged
Manhole (31)	FEH: 100 years: +0 %: 15 mins: Summer	7.846	3.000	5.801	2.801	16.9	3.168	0.000	10.6	4.728	Surcharged
Manhole	FEH: 100 years: +0 %: 15 mins: Summer	7.045	2.460	5.663	3.203	62.0	3.622	0.000	64.7	37.691	Surcharged
Manhole (1)	FEH: 100 years: +0 %: 15 mins: Summer	7.083	2.390	5.649	3.259	71.0	3.685	0.000	2.6	46.271	Surcharged
Manhole (2)	FEH: 100 years: +0 %: 15 mins: Summer	7.870	4.260	5.753	1.493	31.6	1.689	0.000	0.0	23.796	Surcharged
Manhole (3)	FEH: 100 years: +0 %: 15 mins: Summer	8.006	4.450	5.026	0.576	34.5	0.652	0.000	0.0	29.238	Surcharged
Manhole (4)	FEH: 100 years: +0 %: 15 mins: Summer	7.800	5.500	6.906	1.406	39.1	1.590	0.000	9.5	19.645	Surcharged
Manhole (5)	FEH: 100 years: +0 %: 15 mins: Summer	8.431	6.580	6.895	0.315	12.7	0.356	0.000	7.2	8.372	Surcharged

The Aylesham Centre, Peckham: Sitewide Drainage	Date: 13/06/2024		
	Designed by: W.Rollings	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Walsh Associates:		



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
1 (2)	FEH: 30 years: +0 %: 15 mins: Summer	7.872	3.900	6.010	2.110	14.6	2.386	0.000	6.1	5.007	Surcharged
2 (2)	FEH: 30 years: +0 %: 15 mins: Summer	7.599	3.500	5.976	2.476	22.4	2.801	0.000	13.1	11.553	Surcharged
3 (2)	FEH: 30 years: +0 %: 15 mins: Summer	7.713	3.200	5.965	2.765	41.4	3.127	0.000	44.1	33.459	Surcharged
4 (2)	FEH: 30 years: +0 %: 15 mins: Summer	7.872	3.050	5.844	2.794	46.7	3.160	0.000	49.5	34.453	Surcharged
9 (1)	FEH: 30 years: +0 %: 15 mins: Summer	6.984	2.390	5.338	2.948	22.1	3.335	0.000	2.7	8.278	OK
5 (2)	FEH: 30 years: +0 %: 15 mins: Summer	7.547	2.650	5.616	2.966	53.0	3.355	0.000	46.9	40.919	Surcharged
6 (2)	FEH: 30 years: +0 %: 15 mins: Summer	8.000	3.250	5.281	2.031	30.3	2.297	0.000	0.0	25.714	Surcharged
7 (1)	FEH: 30 years: +0 %: 15 mins: Summer	7.775	3.000	5.596	2.596	41.2	2.936	0.000	0.0	22.014	Surcharged
8 (1)	FEH: 30 years: +0 %: 15 mins: Summer	7.723	3.990	5.612	1.622	33.6	1.834	0.000	0.7	17.487	Surcharged
1	FEH: 30 years: +0 %: 15 mins: Summer	8.545	5.200	7.618	2.418	30.1	2.734	0.000	27.7	11.236	Surcharged
2	FEH: 30 years: +0 %: 15 mins: Summer	8.487	7.121	7.210	0.089	42.3	0.100	0.000	41.8	17.539	OK
3	FEH: 30 years: +0 %: 15 mins: Summer	8.031	5.877	6.031	0.154	97.8	0.175	0.000	96.2	51.358	OK
5 (1)	FEH: 30 years: +0 %: 15 mins: Summer	8.059	4.400	4.814	0.414	112.4	0.468	0.000	114.8	60.371	OK
8	FEH: 30 years: +0 %: 15 mins: Summer	8.008	4.420	4.779	0.359	29.7	0.406	0.000	2.8	26.393	Surcharged
9	FEH: 30 years: +0 %: 15 mins: Summer	8.000	4.000	4.777	0.777	25.5	0.879	0.000	6.6	25.650	Surcharged
13	FEH: 30 years: +0 %: 15 mins: Summer	8.000	4.230	4.781	0.551	15.8	0.623	0.000	2.0	12.587	OK
6 (1)	FEH: 30 years: +0 %: 15 mins: Summer	8.627	7.400	7.454	0.054	16.6	0.061	0.000	16.4	7.167	OK
7	FEH: 30 years: +0 %: 15 mins: Summer	8.264	4.650	7.196	2.546	16.4	2.879	0.000	5.2	4.005	OK
10	FEH: 30 years: +0 %: 15 mins: Summer	8.489	6.500	6.531	0.031	4.2	0.035	0.000	4.1	1.796	OK
11	FEH: 30 years: +0 %: 15 mins: Summer	8.212	4.600	4.825	0.225	10.3	0.254	0.000	4.9	3.804	Surcharged

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024			
		Designed by: W.Rollings	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase		Walsh Associates:			

12	FEH: 30 years: +0 %: 15 mins: Summer	8.017	1.050	4.817	3.767	11.3	4.261	0.000	8.7	6.572	Surcharged
Manhole (21)	FEH: 30 years: +0 %: 15 mins: Summer	7.660	5.270	5.545	0.275	27.5	0.310	0.000	24.9	13.236	Surcharged
Manhole (22)	FEH: 30 years: +0 %: 15 mins: Summer	7.327	2.390	5.305	2.915	85.1	3.297	0.000	25.4	48.492	Surcharged
4	FEH: 30 years: +0 %: 15 mins: Summer	8.000	4.800	6.236	1.436	44.2	1.624	0.000	43.2	29.258	Surcharged
1 (1)	FEH: 30 years: +0 %: 15 mins: Summer	8.997	7.000	7.040	0.040	8.1	0.045	0.000	8.1	3.677	OK
2 (1)	FEH: 30 years: +0 %: 15 mins: Summer	8.381	7.000	7.089	0.089	11.1	0.101	0.000	10.7	4.893	OK
3 (1)	FEH: 30 years: +0 %: 15 mins: Summer	7.968	5.500	6.788	1.288	38.9	1.457	0.000	28.9	25.433	Surcharged
4 (1)	FEH: 30 years: +0 %: 15 mins: Summer	7.800	6.400	6.416	0.016	0.3	0.018	0.000	0.3	0.261	OK
5	FEH: 30 years: +0 %: 15 mins: Summer	7.482	5.800	6.026	0.226	17.5	0.256	0.000	22.5	15.107	Surcharged
6	FEH: 30 years: +0 %: 15 mins: Summer	7.229	6.400	6.434	0.034	3.1	0.039	0.000	2.8	1.338	OK
Manhole (30)	FEH: 30 years: +0 %: 15 mins: Summer	7.775	3.000	5.569	2.569	11.5	2.906	0.000	11.1	3.261	Surcharged
Manhole (31)	FEH: 30 years: +0 %: 15 mins: Summer	7.846	3.000	5.582	2.582	12.8	2.920	0.000	7.7	2.864	Surcharged
Manhole	FEH: 30 years: +0 %: 15 mins: Summer	7.045	2.460	5.424	2.964	46.9	3.353	0.000	49.4	25.370	Surcharged
Manhole (1)	FEH: 30 years: +0 %: 15 mins: Summer	7.083	2.390	5.338	2.948	54.0	3.335	0.000	2.4	31.250	Surcharged
Manhole (2)	FEH: 30 years: +0 %: 15 mins: Summer	7.870	4.260	5.567	1.307	26.8	1.479	0.000	0.0	20.970	Surcharged
Manhole (3)	FEH: 30 years: +0 %: 15 mins: Summer	8.006	4.450	4.970	0.520	29.5	0.588	0.000	0.0	24.137	Surcharged
Manhole (4)	FEH: 30 years: +0 %: 15 mins: Summer	7.800	5.500	6.797	1.297	29.7	1.466	0.000	8.6	15.094	Surcharged
Manhole (5)	FEH: 30 years: +0 %: 15 mins: Summer	8.431	6.580	6.723	0.143	7.6	0.162	0.000	5.6	4.142	OK

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024			
		Designed by: W.Rollings	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Walsh Associates:			



FEH: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
A 2	FEH: 100 years: +40 %: 15 mins: Summer	20.046	20.046	0.046	0.046	12.0	4.989	0.000	0.000	0.3	0.394	53.959	OK
B 1	FEH: 100 years: +40 %: 15 mins: Summer	20.040	20.040	0.040	0.040	26.2	11.139	0.000	0.000	0.4	0.442	60.002	OK
B 2	FEH: 100 years: +40 %: 15 mins: Summer	20.031	20.031	0.031	0.031	11.7	5.038	0.000	0.000	0.0	0.058	68.997	OK
C 1	FEH: 100 years: +40 %: 15 mins: Summer	20.039	20.039	0.039	0.039	30.7	13.146	0.000	0.000	0.3	0.375	61.134	OK
D 1	FEH: 100 years: +40 %: 15 mins: Summer	20.024	20.024	0.024	0.024	4.6	5.079	0.000	0.000	0.1	0.089	76.477	OK
E	FEH: 100 years: +40 %: 15 mins: Summer	20.044	20.044	0.044	0.044	31.4	13.266	0.000	0.000	0.6	0.710	55.957	OK
F	FEH: 100 years: +40 %: 15 mins: Summer	20.039	20.039	0.039	0.039	35.9	15.305	0.000	0.000	0.5	0.555	60.902	OK
H	FEH: 100 years: +40 %: 15 mins: Summer	20.040	20.040	0.040	0.040	50.5	21.405	0.000	0.000	0.9	1.014	60.405	OK
J2	FEH: 100 years: +40 %: 15 mins: Summer	20.034	20.034	0.034	0.034	7.6	8.191	0.000	0.000	0.5	0.310	66.194	OK
J 1	FEH: 100 years: +40 %: 15 mins: Summer	20.039	20.039	0.039	0.039	43.1	18.465	0.000	0.000	0.4	0.442	61.439	OK
G	FEH: 100 years: +40 %: 15 mins: Summer	20.041	20.041	0.041	0.041	41.6	17.731	0.000	0.000	0.6	0.663	59.517	OK
G/K PODIUM	FEH: 100 years: +40 %: 15 mins: Summer	10.027	10.027	0.027	0.027	17.7	19.560	0.000	0.000	0.3	0.229	72.946	OK
K 1	FEH: 100 years: +40 %: 15 mins: Summer	20.039	20.039	0.039	0.039	11.0	4.652	0.000	0.000	0.2	0.202	61.455	OK
K 2	FEH: 100 years: +40 %: 15 mins: Summer	20.046	20.046	0.046	0.046	53.3	22.498	0.000	0.000	1.2	1.341	54.109	OK

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024			
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Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Walsh Associates:			

L 1	FEH: 100 years: +40 %: 15 mins: Summer	20.044	20.044	0.044	0.044	40.9	17.294	0.000	0.000	0.9	0.957	56.454	OK
L 2	FEH: 100 years: +40 %: 15 mins: Summer	20.022	20.022	0.022	0.022	8.1	8.965	0.000	0.000	0.1	0.080	77.694	OK
P	FEH: 100 years: +40 %: 15 mins: Summer	20.042	20.042	0.042	0.042	47.8	20.306	0.000	0.000	0.8	0.870	58.258	OK
Q	FEH: 100 years: +40 %: 15 mins: Summer	20.038	20.038	0.038	0.038	49.1	20.977	0.000	0.000	0.6	0.648	61.866	OK
N 1	FEH: 100 years: +40 %: 15 mins: Summer	20.039	20.039	0.039	0.039	28.7	12.244	0.000	0.000	0.4	0.433	60.711	OK
N 2	FEH: 100 years: +40 %: 15 mins: Summer	20.026	20.026	0.026	0.026	5.9	6.484	0.000	0.000	0.2	0.121	74.153	OK
M 2	FEH: 100 years: +40 %: 15 mins: Summer	20.026	20.026	0.026	0.026	6.9	7.638	0.000	0.000	0.2	0.122	73.986	OK
M 1	FEH: 100 years: +40 %: 15 mins: Summer	20.042	20.042	0.042	0.042	38.3	16.240	0.000	0.000	0.7	0.755	58.512	OK
MORRIS ONS PODIUM	FEH: 100 years: +40 %: 15 mins: Summer	10.025	10.025	0.025	0.025	66.0	73.256	0.000	0.000	0.8	0.525	75.348	OK
Bioretenti on	FEH: 100 years: +40 %: 15 mins: Summer	7.785	7.384	0.423	0.022	43.7	20.570	0.000	0.000	0.0	0.000	63.743	OK
Bioretenti on (1)	FEH: 100 years: +40 %: 15 mins: Summer	7.838	7.451	0.388	0.000	52.5	24.885	0.000	0.000	0.0	0.000	83.898	OK
Tank	FEH: 100 years: +40 %: 15 mins: Summer	4.798	4.798	0.296	0.296	299.5	224.62 1	0.000	0.000	0.0	0.032	85.237	OK
Tank (1)	FEH: 100 years: +40 %: 15 mins: Summer	4.975	4.975	0.125	0.125	177.0	90.997	0.000	0.000	40.2	47.196	92.437	OK
Tank (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.054	7.054	0.754	0.754	39.6	7.944	0.000	0.000	46.1	19.925	8.207	OK
Tank (3)	FEH: 100 years: +40 %: 15 mins: Summer	7.186	7.186	0.686	0.686	69.0	24.614	0.000	0.000	7.9	11.519	2.443	OK
Tank (4)	FEH: 100 years: +40 %: 15 mins: Summer	6.885	6.885	0.285	0.285	34.9	12.993	0.000	0.000	10.7	7.642	34.048	OK

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FEH: 100 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
A 2	FEH: 100 years: +0 %: 15 mins: Summer	20.033	20.033	0.033	0.033	8.5	3.564	0.000	0.000	0.3	0.290	67.105	OK
B 1	FEH: 100 years: +0 %: 15 mins: Summer	20.029	20.029	0.029	0.029	18.7	7.972	0.000	0.000	0.2	0.278	71.373	OK
B 2	FEH: 100 years: +0 %: 15 mins: Summer	20.022	20.022	0.022	0.022	8.3	3.593	0.000	0.000	0.0	0.046	77.888	OK
C 1	FEH: 100 years: +0 %: 15 mins: Summer	20.028	20.028	0.028	0.028	21.9	9.407	0.000	0.000	0.2	0.244	72.189	OK
D 1	FEH: 100 years: +0 %: 15 mins: Summer	20.017	20.017	0.017	0.017	3.3	3.632	0.000	0.000	0.1	0.053	83.180	OK
E	FEH: 100 years: +0 %: 15 mins: Summer	20.032	20.032	0.032	0.032	22.4	9.514	0.000	0.000	0.4	0.430	68.414	OK
F	FEH: 100 years: +0 %: 15 mins: Summer	20.028	20.028	0.028	0.028	25.6	10.962	0.000	0.000	0.3	0.336	71.995	OK
H	FEH: 100 years: +0 %: 15 mins: Summer	20.028	20.028	0.028	0.028	36.0	15.339	0.000	0.000	0.6	0.623	71.626	OK
J2	FEH: 100 years: +0 %: 15 mins: Summer	20.024	20.024	0.024	0.024	5.4	5.881	0.000	0.000	0.3	0.187	75.728	OK
J 1	FEH: 100 years: +0 %: 15 mins: Summer	20.028	20.028	0.028	0.028	30.7	13.216	0.000	0.000	0.2	0.270	72.401	OK
G	FEH: 100 years: +0 %: 15 mins: Summer	20.029	20.029	0.029	0.029	29.7	12.704	0.000	0.000	0.4	0.400	70.995	OK
G/K PODIUM	FEH: 100 years: +0 %: 15 mins: Summer	10.019	10.019	0.019	0.019	12.6	13.986	0.000	0.000	0.2	0.137	80.656	OK
K 1	FEH: 100 years: +0 %: 15 mins: Summer	20.028	20.028	0.028	0.028	7.8	3.321	0.000	0.000	0.1	0.152	72.485	OK
K 2	FEH: 100 years: +0 %: 15 mins: Summer	20.033	20.033	0.033	0.033	38.1	16.141	0.000	0.000	0.7	0.812	67.076	OK

The Aylesham Centre, Peckham: Sitewide Drainage						Date: 13/06/2024							
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L 1	FEH: 100 years: +0 %: 15 mins: Summer	20.031	20.031	0.031	0.031	29.2	12.406	0.000	0.000	0.5	0.579	68.764	OK
L 2	FEH: 100 years: +0 %: 15 mins: Summer	20.016	20.016	0.016	0.016	5.8	6.406	0.000	0.000	0.1	0.048	84.061	OK
P	FEH: 100 years: +0 %: 15 mins: Summer	20.030	20.030	0.030	0.030	34.1	14.550	0.000	0.000	0.5	0.523	70.090	OK
Q	FEH: 100 years: +0 %: 15 mins: Summer	20.027	20.027	0.027	0.027	35.0	15.015	0.000	0.000	0.3	0.389	72.704	OK
N 1	FEH: 100 years: +0 %: 15 mins: Summer	20.028	20.028	0.028	0.028	20.5	8.769	0.000	0.000	0.2	0.268	71.864	OK
N 2	FEH: 100 years: +0 %: 15 mins: Summer	20.019	20.019	0.019	0.019	4.2	4.640	0.000	0.000	0.1	0.073	81.504	OK
M 2	FEH: 100 years: +0 %: 15 mins: Summer	20.019	20.019	0.019	0.019	4.9	5.463	0.000	0.000	0.1	0.073	81.395	OK
M 1	FEH: 100 years: +0 %: 15 mins: Summer	20.030	20.030	0.030	0.030	27.3	11.643	0.000	0.000	0.4	0.456	70.257	OK
MORRIS ONS PODIUM	FEH: 100 years: +0 %: 15 mins: Summer	10.018	10.018	0.018	0.018	47.1	52.321	0.000	0.000	0.5	0.310	82.393	OK
Bioretenti on	FEH: 100 years: +0 %: 15 mins: Summer	7.756	7.363	0.394	0.001	31.2	15.172	0.000	0.000	0.0	0.000	73.259	OK
Bioretenti on (1)	FEH: 100 years: +0 %: 15 mins: Summer	7.826	7.450	0.375	0.000	37.5	18.384	0.000	0.000	0.0	0.000	88.105	OK
Tank	FEH: 100 years: +0 %: 15 mins: Summer	4.706	4.706	0.204	0.204	226.9	154.68 8	0.000	0.000	0.0	0.046	89.833	OK
Tank (1)	FEH: 100 years: +0 %: 15 mins: Summer	4.933	4.933	0.083	0.083	120.5	60.510	0.000	0.000	31.6	28.395	94.971	OK
Tank (2)	FEH: 100 years: +0 %: 15 mins: Summer	6.487	6.487	0.187	0.187	9.4	3.567	0.000	0.000	19.5	11.908	58.778	OK
Tank (3)	FEH: 100 years: +0 %: 15 mins: Summer	6.748	6.748	0.248	0.248	48.3	15.047	0.000	0.000	6.7	10.700	40.360	OK
Tank (4)	FEH: 100 years: +0 %: 15 mins: Summer	6.747	6.747	0.147	0.147	20.8	6.701	0.000	0.000	7.1	5.365	65.986	OK

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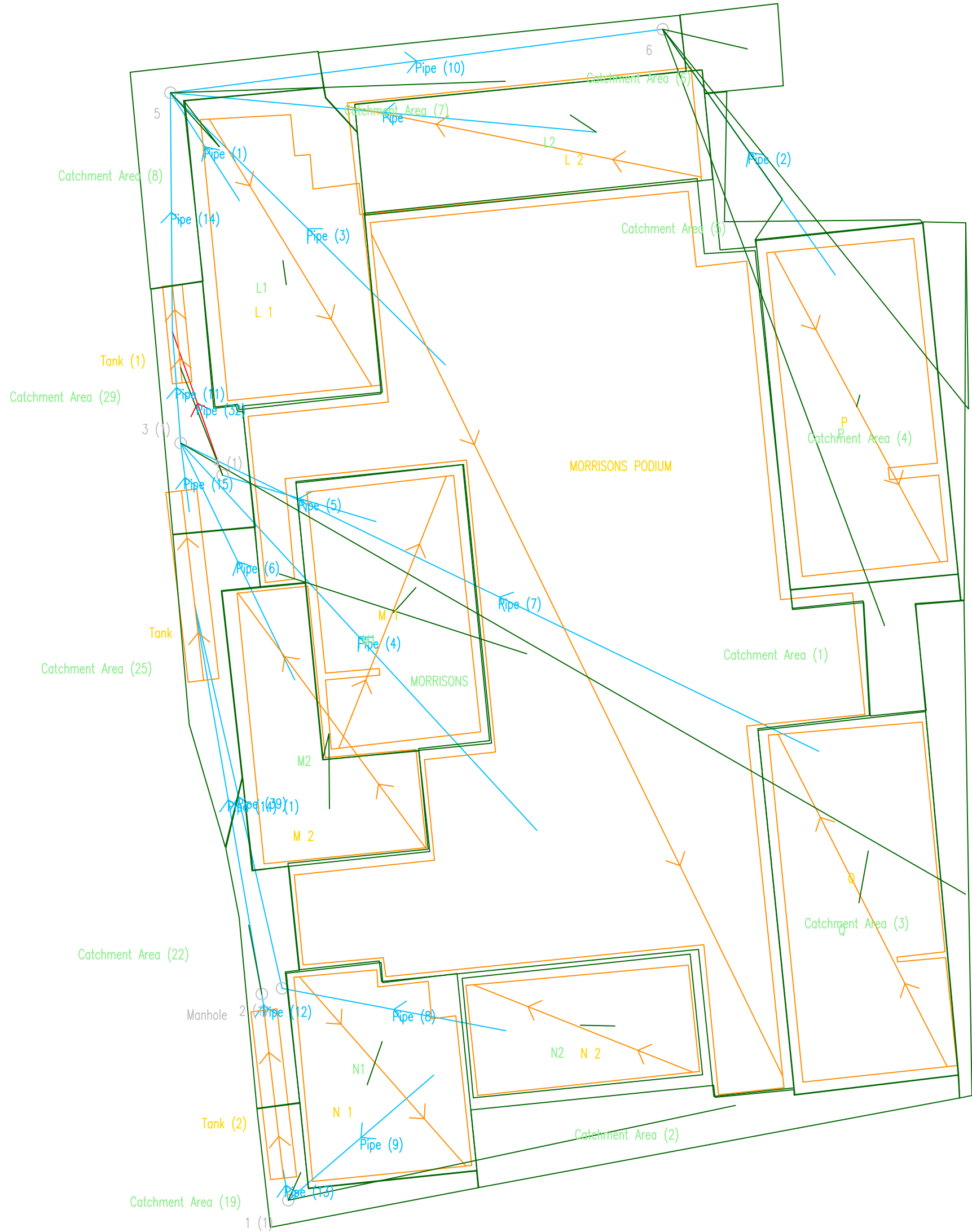


FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flooded Volume

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
A 2	FEH: 30 years: +0 %: 15 mins: Summer	20.025	20.025	0.025	0.025	6.5	2.727	0.000	0.000	0.2	0.198	74.830	OK
B 1	FEH: 30 years: +0 %: 15 mins: Summer	20.022	20.022	0.022	0.022	14.2	6.083	0.000	0.000	0.2	0.185	78.156	OK
B 2	FEH: 30 years: +0 %: 15 mins: Summer	20.017	20.017	0.017	0.017	6.4	2.736	0.000	0.000	0.0	0.037	83.162	OK
C 1	FEH: 30 years: +0 %: 15 mins: Summer	20.021	20.021	0.021	0.021	16.7	7.176	0.000	0.000	0.1	0.162	78.784	OK
D 1	FEH: 30 years: +0 %: 15 mins: Summer	20.013	20.013	0.013	0.013	2.5	2.768	0.000	0.000	0.1	0.035	87.180	OK
E	FEH: 30 years: +0 %: 15 mins: Summer	20.024	20.024	0.024	0.024	17.1	7.265	0.000	0.000	0.3	0.286	75.881	OK
F	FEH: 30 years: +0 %: 15 mins: Summer	20.021	20.021	0.021	0.021	19.5	8.362	0.000	0.000	0.2	0.223	78.639	OK
H	FEH: 30 years: +0 %: 15 mins: Summer	20.022	20.022	0.022	0.022	27.4	11.710	0.000	0.000	0.4	0.415	78.339	OK
J2	FEH: 30 years: +0 %: 15 mins: Summer	20.019	20.019	0.019	0.019	4.1	4.491	0.000	0.000	0.2	0.124	81.467	OK
J 1	FEH: 30 years: +0 %: 15 mins: Summer	20.021	20.021	0.021	0.021	23.4	10.077	0.000	0.000	0.2	0.179	78.957	OK
G	FEH: 30 years: +0 %: 15 mins: Summer	20.022	20.022	0.022	0.022	22.6	9.691	0.000	0.000	0.2	0.266	77.875	OK
G/K PODIUM	FEH: 30 years: +0 %: 15 mins: Summer	10.015	10.015	0.015	0.015	9.6	10.651	0.000	0.000	0.1	0.089	85.268	OK
K 1	FEH: 30 years: +0 %: 15 mins: Summer	20.021	20.021	0.021	0.021	6.0	2.535	0.000	0.000	0.1	0.111	79.001	OK
K 2	FEH: 30 years: +0 %: 15 mins: Summer	20.025	20.025	0.025	0.025	29.0	12.329	0.000	0.000	0.5	0.540	74.852	OK

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L 1	FEH: 30 years: +0 %: 15 mins: Summer	20.024	20.024	0.024	0.024	22.3	9.475	0.000	0.000	0.3	0.385	76.142	OK
L 2	FEH: 30 years: +0 %: 15 mins: Summer	20.012	20.012	0.012	0.012	4.4	4.870	0.000	0.000	0.0	0.032	87.884	OK
P	FEH: 30 years: +0 %: 15 mins: Summer	20.023	20.023	0.023	0.023	26.0	11.110	0.000	0.000	0.3	0.345	77.161	OK
Q	FEH: 30 years: +0 %: 15 mins: Summer	20.021	20.021	0.021	0.021	26.7	11.450	0.000	0.000	0.2	0.259	79.185	OK
N 1	FEH: 30 years: +0 %: 15 mins: Summer	20.022	20.022	0.022	0.022	15.6	6.689	0.000	0.000	0.2	0.178	78.538	OK
N 2	FEH: 30 years: +0 %: 15 mins: Summer	20.014	20.014	0.014	0.014	3.2	3.537	0.000	0.000	0.1	0.048	85.902	OK
M 2	FEH: 30 years: +0 %: 15 mins: Summer	20.014	20.014	0.014	0.014	3.8	4.161	0.000	0.000	0.1	0.048	85.826	OK
M 1	FEH: 30 years: +0 %: 15 mins: Summer	20.023	20.023	0.023	0.023	20.8	8.888	0.000	0.000	0.3	0.302	77.294	OK
MORRIS ONS PODIUM	FEH: 30 years: +0 %: 15 mins: Summer	10.013	10.013	0.013	0.013	35.9	39.816	0.000	0.000	0.3	0.200	86.601	OK
Bioretenti on	FEH: 30 years: +0 %: 15 mins: Summer	7.748	7.362	0.386	0.000	23.8	11.941	0.000	0.000	0.0	0.000	78.953	OK
Bioretenti on (1)	FEH: 30 years: +0 %: 15 mins: Summer	7.822	7.450	0.371	0.000	28.5	14.512	0.000	0.000	0.0	0.000	90.610	OK
Tank	FEH: 30 years: +0 %: 15 mins: Summer	4.646	4.646	0.143	0.143	153.8	108.97 4	0.000	0.000	0.0	0.054	92.838	OK
Tank (1)	FEH: 30 years: +0 %: 15 mins: Summer	4.906	4.906	0.056	0.056	91.7	40.919	0.000	0.000	19.1	15.344	96.599	OK
Tank (2)	FEH: 30 years: +0 %: 15 mins: Summer	6.346	6.346	0.046	0.046	8.4	0.879	0.000	0.000	7.3	8.203	89.840	OK
Tank (3)	FEH: 30 years: +0 %: 15 mins: Summer	6.662	6.662	0.162	0.162	35.1	9.834	0.000	0.000	6.0	9.847	61.022	OK
Tank (4)	FEH: 30 years: +0 %: 15 mins: Summer	6.680	6.680	0.080	0.080	13.2	3.629	0.000	0.000	5.4	3.050	81.579	OK



Notes

1. ALL DIMENSIONS ARE IN METRES UNLESS NOTED AND LEVELS ARE IN METRES.

2. THIS DRAWING TO BE READ IN CONJUNCTION WITH RELEVANT ARCHITECT'S AND ENGINEER'S DRAWINGS AND SPECIFICATIONS.

3. THIS DRAWING HAS BEEN PRODUCED ELECTRONICALLY AND MAY HAVE BEEN PHOTO REDUCED OR ENLARGED WHEN COPIED. HENCE, DO NOT RELY ON ANY SCALES QUOTED. WORK ONLY TO FIGURED DIMENSIONS (DO NOT SCALE). ALL DIMENSIONS TO BE CHECKED ON SITE. ANY ERRORS OR OMISSIONS TO BE REPORTED TO THE ENGINEER IMMEDIATELY.

C.D.M.
SIGNIFICANT RISKS AND HAZARDS:
KEY DESIGN DECISIONS TO REDUCE OR ELIMINATE HAZARDS:

P1			FIRST ISSUE
Rev.	Date	By	Details Of Revision
Client			
Project			
Title			
INFODRAINAGE PHASE 1 KEY PLAN			
WALSH Structural and Civil Engineers The Clow Building 4 Moque Street London E1 2HQ t: +44(0)20 7599 6800 e: london@walsh.co.uk walsh.co.uk			
Status			
SKETCH			
Drawn	AD Scales		
Date	Eng.	Chk.	App'd.
WA Ref.	Suitability.		
ACTUAL DIMENSION = 8mm			
Drawing No.	Rev.		



Contact

Walsh - Structural, Civil
& Geotechnical Engineers

The Clove Building
4 Maguire Street
London, SE1 2NQ

t. +44 (0)20 7089 6800

e. contact@walsh.co.uk

www.walsh.co.uk



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