

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.

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)	7.754
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)	8.954

Depth (m)	Area (m²)	Volume (m³)
0.000	20.787111	24.469
0.400	20.787111	24.469

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)	10.196

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)	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 5.880	Diameter / Length: 1.200	{1} Pipe	Pipe	5.880	Diam/Width:100	Manhole
E:534294.633	1.602		{2} Pipe (1)	Pipe	5.880	Diam/Width:100	
N:176699.853			{3} Pipe (3)	Pipe		Diam/Width:100	
			{4} Pipe (14)	Pipe		Diam/Width:225	
						5.880	
			{a} Pipe (10)	Pipe	5.880	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)	Pipe	5.880	Diam/Width:225	
N:176706.456							
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

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:		



Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
MORRISON	FEH: 100 years: +40 %: 30 mins: Winter	0.34	80.5	142.383
L2	FEH: 100 years: +40 %: 30 mins: Winter	0.04	9.9	17.529
M2	FEH: 100 years: +40 %: 30 mins: Winter	0.04	8.4	14.897
N2	FEH: 100 years: +40 %: 30 mins: Winter	0.03	7.1	12.565
L1	FEH: 100 years: +40 %: 15 mins: Winter	0.06	43.6	20.155
P	FEH: 100 years: +40 %: 15 mins: Winter	0.06	50.3	23.232
Q	FEH: 100 years: +40 %: 15 mins: Winter	0.07	51.8	23.920
N1	FEH: 100 years: +40 %: 15 mins: Winter	0.04	30.0	13.864
M1	FEH: 100 years: +40 %: 15 mins: Winter	0.05	40.1	18.534
Catchment Area (1)	FEH: 100 years: +40 %: 15 mins: Winter	0.01	8.2	3.775
Catchment Area (2)	FEH: 100 years: +40 %: 15 mins: Winter	0.03	20.9	9.643
Catchment Area (3)	FEH: 100 years: +40 %: 15 mins: Winter	0.02	12.6	5.799
Catchment Area (4)	FEH: 100 years: +40 %: 15 mins: Winter	0.01	7.4	3.424
Catchment Area (5)	FEH: 100 years: +40 %: 15 mins: Winter	0.01	4.0	1.832
Catchment Area (6)	FEH: 100 years: +40 %: 15 mins: Winter	0.01	6.4	2.940

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: +40 %: 15 mins: Winter	0.02	17.4	8.031
Catchment Area (8)	FEH: 100 years: +40 %: 15 mins: Winter	0.02	13.7	6.335
Catchment Area (19)	FEH: 100 years: +40 %: 15 mins: Winter	0.01	7.7	3.562
Catchment Area (22)	FEH: 100 years: +40 %: 15 mins: Winter	0.01	10.9	5.012
Catchment Area (25)	FEH: 100 years: +40 %: 15 mins: Winter	0.02	12.3	5.675
Catchment Area (29)	FEH: 100 years: +40 %: 15 mins: Winter	0.02	14.0	6.472

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:		





Critical Storm Per Item: Rank By: Max. Outflow

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: +40 %: 15 mins: Winter	8.997	7.000	7.087	0.087	28.7	0.099	0.000	28.5	13.659	OK
2 (1)	FEH: 100 years: +40 %: 360 mins: Winter	8.381	7.000	7.019	0.019	0.5	0.021	0.000	0.5	15.732	OK
3 (1)	FEH: 100 years: +40 %: 240 mins: Winter	7.800	6.400	6.827	0.427	7.9	0.483	0.000	7.9	163.296	Surcharged
4 (1)	FEH: 100 years: +40 %: 15 mins: Winter	7.800	6.400	7.294	0.894	14.3	1.011	0.000	11.3	7.265	Surcharged
5	FEH: 100 years: +40 %: 15 mins: Winter	7.482	5.880	7.054	1.174	31.7	1.327	0.000	27.3	27.855	Surcharged
6	FEH: 100 years: +40 %: 15 mins: Winter	7.324	5.880	7.010	1.130	38.2	1.278	0.000	30.0	35.398	OK
Manhole	FEH: 100 years: +40 %: 60 mins: Winter	8.412	6.500	6.993	0.493	5.7	0.558	0.000	5.6	24.713	Surcharged

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:			



Critical Storm Per Item: Rank By: Max. Avg. Depth

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: +40 %: 240 mins: Winter	20.091	20.091	0.091	0.091	8.8	36.150	0.000	0.000	2.1	34.944	8.975	OK
L 2	FEH: 100 years: +40 %: 480 mins: Winter	20.094	20.094	0.094	0.094	3.7	37.669	0.000	0.000	0.4	15.548	6.272	OK
P	FEH: 100 years: +40 %: 360 mins: Winter	20.090	20.090	0.090	0.090	7.5	43.681	0.000	0.000	2.1	47.968	10.204	OK
Q	FEH: 100 years: +40 %: 360 mins: Winter	20.089	20.089	0.089	0.089	7.7	48.966	0.000	0.000	1.6	42.162	10.987	OK
N 1	FEH: 100 years: +40 %: 360 mins: Winter	20.095	20.095	0.095	0.095	4.5	29.639	0.000	0.000	0.7	21.527	4.897	OK
N 2	FEH: 100 years: +40 %: 360 mins: Winter	20.094	20.094	0.094	0.094	3.2	23.429	0.000	0.000	0.5	15.785	6.601	OK
M 2	FEH: 100 years: +40 %: 360 mins: Winter	20.098	20.098	0.098	0.098	3.8	28.726	0.000	0.000	0.5	16.477	2.160	OK
M 1	FEH: 100 years: +40 %: 360 mins: Winter	20.090	20.090	0.090	0.090	6.0	35.152	0.000	0.000	1.6	38.304	10.200	OK
MORRIS ONS PODIUM	FEH: 100 years: +40 %: 360 mins: Winter	10.093	10.093	0.093	0.093	36.5	276.975	0.000	0.000	5.8	153.416	6.794	OK
Tank	FEH: 100 years: +40 %: 240 mins: Winter	6.830	6.830	0.330	0.330	5.0	20.060	0.000	0.000	3.0	58.485	20.489	OK
Tank (1)	FEH: 100 years: +40 %: 15 mins: Winter	7.057	7.057	0.757	0.757	37.1	8.246	0.000	0.000	25.1	15.835	7.900	OK
Tank (2)	FEH: 100 years: +40 %: 120 mins: Winter	7.026	7.026	0.426	0.426	9.8	18.286	0.000	0.000	4.3	28.044	7.110	OK

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

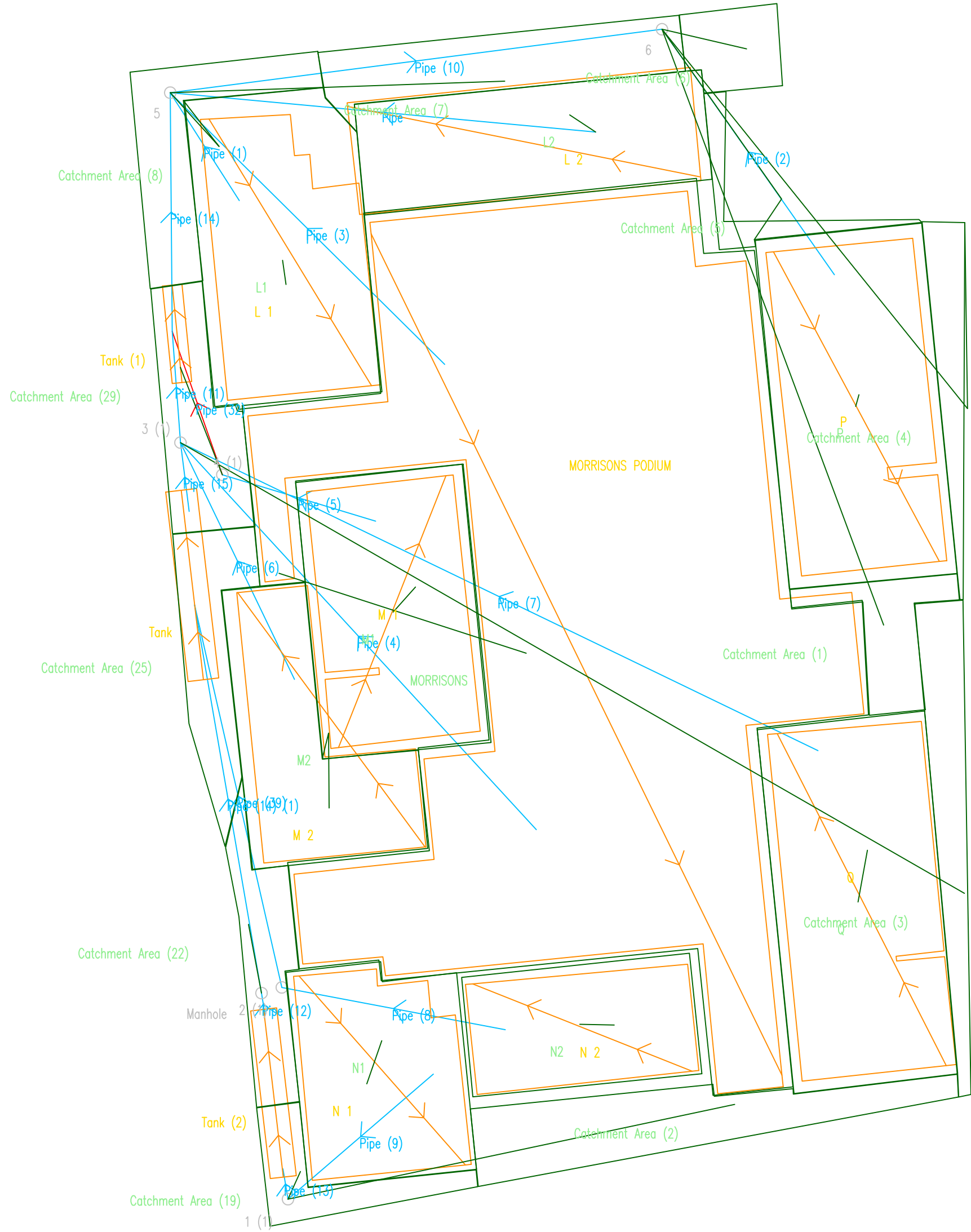


Critical Storm Per Item: Rank By: Max. Flow

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: +40 %: 240 mins: Winter	Pipe	L 1	5	7.538	20.091	0.100	34.931	0.3	0.03	2.1	OK
Pipe (2)	FEH: 100 years: +40 %: 360 mins: Winter	Pipe	P	6	7.202	20.090	0.100	47.952	0.3	0.05	2.1	OK
Pipe (3)	FEH: 100 years: +40 %: 360 mins: Winter	Pipe	MORRISONS PODIUM	5	7.521	10.093	0.100	76.885	0.4	0.15	2.9	OK
Pipe (4)	FEH: 100 years: +40 %: 360 mins: Winter	Pipe	MORRISONS PODIUM	3 (1)	8.299	10.093	0.100	76.408	0.4	0.19	2.9	OK
Pipe (5)	FEH: 100 years: +40 %: 360 mins: Winter	Pipe	M 1	4 (1)	7.756	20.090	0.036	38.294	1.0	0.03	1.6	OK
Pipe (6)	FEH: 100 years: +40 %: 360 mins: Winter	Pipe	M 2	3 (1)	8.088	20.098	0.100	16.468	0.1	0.01	0.5	OK
Pipe (7)	FEH: 100 years: +40 %: 360 mins: Winter	Pipe	Q	3 (1)	7.844	20.089	0.100	42.125	0.2	0.06	1.6	OK
Pipe (8)	FEH: 100 years: +40 %: 360 mins: Winter	Pipe	N 2	2 (1)	8.720	20.094	0.013	15.777	0.9	0.01	0.5	OK
Pipe (9)	FEH: 100 years: +40 %: 360 mins: Winter	Pipe	N 1	1 (1)	8.792	20.095	0.016	21.518	1.9	0.01	0.7	OK
Pipe (10)	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	5	6	7.482	7.054	0.225	23.181	0.7	0.92	27.3	Surcharged
Pipe (15)	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Tank	3 (1)	7.827	6.649	0.150	0.000	0.3	0.22	4.6	OK
Pipe (14) (1)	FEH: 100 years: +40 %: 60 mins: Winter	Pipe	Manhole	Tank	8.412	6.993	0.150	23.687	0.7	0.41	5.5	Surcharged
Pipe (39)	FEH: 100 years: +40 %: 360 mins: Winter	Pipe	2 (1)	Tank	8.381	7.019	0.100	15.732	0.1	0.08	0.5	OK
Pipe (14)	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	Tank (1)	5	7.800	7.057	0.225	9.067	0.6	0.37	25.1	Surcharged

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

Pipe (32)	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	4 (1)	Tank (1)	7.800	7.294	0.100	7.265	1.4	2.37	11.3	Surcharged
Pipe (11)	FEH: 100 years: +40 %: 240 mins: Winter	Pipe	3 (1)	Tank (1)	7.800	6.827	0.066	163.172	1.1	0.48	7.9	Surcharged
Pipe (13)	FEH: 100 years: +40 %: 15 mins: Winter	Pipe	1 (1)	Tank (2)	8.997	7.087	0.150	13.659	3.0	0.45	28.5	OK
Pipe (12)	FEH: 100 years: +40 %: 30 mins: Winter	Pipe	Tank (2)	Manhole	8.470	6.981	0.150	7.215	0.3	0.13	4.9	Surcharged
Pipe	FEH: 100 years: +40 %: 480 mins: Winter	Pipe	L 2	5	7.366	20.094	0.100	15.538	0.1	0.01	0.4	OK



Notes

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

2. THIS DRAWING IS 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			
<div><div>WALSH</div><div><div>Structural and Civil Engineers</div><div>The Clow Building 4 Niagara Street London E1 2HQ t: +44(0)20 7599 4800 e: london@walsh.co.uk walsh.co.uk</div></div></div>			
Status			
SKETCH			
Drawn	AD Scales		
Date	Eng.	Chk.	App'd.
WA Ref.	Suitability:		
ACTUAL DIMENSION = 8mm			
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	
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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

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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)	-6.725
Total Volume (m³)	19.954

Depth (m)	Area (m²)	Volume (m³)
0.000	226.45	71.898
0.100	192.00	18.278

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

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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

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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		
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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		
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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

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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

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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		
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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

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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

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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

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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)	L1
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

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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

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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

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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

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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

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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

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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

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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

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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

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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)	Volume (m³)
0.000	800.00	0.000
2.000	800.00	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

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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 (%)	100
Average Slope (1:X)	-0.002
Total Volume (m³)	1266.550

Depth (m)	Area (m²)	Volume (m³)
0.000	767.30	0.000
1.650	767.00	1265.795

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

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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)	8.950

Depth (m)	Area (m²)	Volume (m³)
0.000	20.78	0.000
0.400	20.78	7.896

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)	32.066

Depth (m)	Area (m²)	Volume (m³)
0.000	81.990293	55.744
0.400	81.990293	55.744

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	3.972						
N:176652.482			{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	4.099						
N:176689.001			{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	4.513		{2} Pipe (11)	Pipe	3.200	Diam/Width:100	
N:176703.162			{3} Pipe (36)	Pipe	3.200	Diam/Width:225	
			{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	4.822						
N:176701.990			{a} 11.003	Pipe	3.050	Diam/Width:225	Not Applicable

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024		 WALSH	
		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						
N:176688.876			{a} 12.002	Pipe	3.990	Diam/Width:225	Not Applicable

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024		 WALSH	
		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		 WALSH	
		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	4.000		{2} Pipe (20)	Pipe	4.000	Diam/Width:100	
N:176629.848			{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	3.770		{2} Pipe (34)	Pipe	4.230	Diam/Width:225	
N:176637.851							
6 (1)	8.627 7.400	Diameter / Length: 1.200					Manhole
E:534230.048	1.227						
N:176570.100			{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		 WALSH	
		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	2.390		{2} 13.000	Pipe	5.270	Diam/Width:150	
N:176666.276			{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	4.937		{2} Pipe (42)	Pipe	2.390	Diam/Width:100 Diam/Width:450	
N:176682.512			{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	3.200		{2} Pipe (33)	Pipe	4.800		
N:176632.815			{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	1.997						
N:176584.610			{a} Pipe (40)	Pipe	7.000	Diam/Width:150	Not Applicable

The Aylesham Centre, Peckham: Sitewide Drainage		Date: 13/06/2024		 WALSH	
		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		 WALSH	
		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	5.800	Diam/Width:100	
			{4} Pipe	Pipe	5.800	Diam/Width:225	
			{5} Pipe (30)	Pipe	5.800	Diam/Width:225	
			{6} Pipe (15)	Pipe	5.800		
					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		 WALSH	
		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)	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 (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	
			{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:	
Report Details: Type: Outfall Details Storm Phase: Phase	Walsh Associates:			

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:		



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	7.073	3.173	23.3	3.588	0.000	11.9	10.301	Surcharged
2 (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.599	3.500	6.963	3.463	45.6	3.916	0.000	27.5	23.616	Surcharged
3 (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.713	3.200	6.921	3.721	74.2	4.208	0.000	66.0	68.375	Surcharged
4 (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.872	3.050	6.676	3.626	70.7	4.101	0.000	76.2	65.772	Surcharged
9 (1)	FEH: 100 years: +40 %: 15 mins: Summer	6.984	2.390	6.272	3.882	40.6	4.391	0.000	3.1	16.222	OK
5 (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.547	2.650	6.438	3.788	82.5	4.284	0.000	83.5	75.767	Surcharged
6 (2)	FEH: 100 years: +40 %: 15 mins: Summer	8.000	3.250	6.053	2.803	54.4	3.170	0.000	0.0	38.742	Surcharged
7 (1)	FEH: 100 years: +40 %: 15 mins: Summer	7.775	3.000	6.408	3.408	45.7	3.855	0.000	0.0	28.782	Surcharged
8 (1)	FEH: 100 years: +40 %: 15 mins: Summer	7.723	3.990	6.422	2.432	25.0	2.750	0.000	1.3	18.327	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	65.2	33.916	OK
3	FEH: 100 years: +40 %: 15 mins: Summer	8.031	5.877	6.974	1.097	142.6	1.241	0.000	137.1	89.292	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	109.735	Surcharged
8	FEH: 100 years: +40 %: 15 mins: Summer	8.008	4.420	4.923	0.503	76.4	0.568	0.000	5.2	78.361	Surcharged
9	FEH: 100 years: +40 %: 15 mins: Summer	8.000	4.000	4.971	0.971	65.7	1.099	0.000	15.2	74.953	Surcharged
13	FEH: 100 years: +40 %: 15 mins: Summer	8.000	4.230	4.968	0.738	50.1	0.834	0.000	1.8	48.763	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	10.261	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	5.533	0.933	15.6	1.055	0.000	10.7	6.744	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	5.466	4.416	31.4	4.995	0.000	27.1	13.555	Surcharged
Manhole (21)	FEH: 100 years: +40 %: 15 mins: Summer	7.660	5.270	6.657	1.387	45.7	1.569	0.000	45.6	28.393	Surcharged
Manhole (22)	FEH: 100 years: +40 %: 15 mins: Summer	7.327	2.390	6.211	3.821	155.5	4.322	0.000	7.6	112.402	Surcharged
4	FEH: 100 years: +40 %: 15 mins: Summer	8.000	4.800	7.221	2.421	62.9	2.739	0.000	53.8	46.274	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	7.139	0.139	20.5	0.158	0.000	18.7	8.791	OK
3 (1)	FEH: 100 years: +40 %: 15 mins: Summer	7.968	5.500	7.768	2.268	71.5	2.565	0.000	36.3	43.942	Flood Risk
4 (1)	FEH: 100 years: +40 %: 15 mins: Summer	7.800	6.400	7.074	0.674	0.7	0.762	0.000	3.8	1.694	Surcharged
5	FEH: 100 years: +40 %: 15 mins: Summer	7.482	5.800	6.988	1.188	48.7	1.343	0.000	51.6	38.071	Surcharged
6	FEH: 100 years: +40 %: 15 mins: Winter	7.229	6.400	7.232	0.832	22.4	3.674	2.737	15.8	5.920	Flood
Manhole (30)	FEH: 100 years: +40 %: 15 mins: Summer	7.775	3.000	6.683	3.683	21.1	4.166	0.000	14.3	7.435	Surcharged
Manhole (31)	FEH: 100 years: +40 %: 15 mins: Summer	7.846	3.000	6.715	3.715	23.7	4.202	0.000	15.6	7.912	Surcharged
Manhole	FEH: 100 years: +40 %: 15 mins: Summer	7.045	2.460	6.291	3.831	83.5	4.332	0.000	86.9	58.197	Surcharged
Manhole (1)	FEH: 100 years: +40 %: 15 mins: Summer	7.083	2.390	6.252	3.862	95.9	4.368	0.000	2.5	70.811	Surcharged
Manhole (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.870	4.260	6.328	2.068	34.3	2.339	0.000	0.0	27.626	Surcharged
Manhole (3)	FEH: 100 years: +40 %: 15 mins: Summer	8.006	4.450	5.402	0.952	44.3	1.077	0.000	0.0	36.979	Surcharged
Manhole (4)	FEH: 100 years: +40 %: 15 mins: Summer	7.800	5.500	7.145	1.645	54.8	1.860	0.000	11.3	27.616	Surcharged
Manhole (5)	FEH: 100 years: +40 %: 15 mins: Summer	8.431	6.580	7.239	0.659	24.8	0.745	0.000	10.1	15.220	Surcharged

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:			



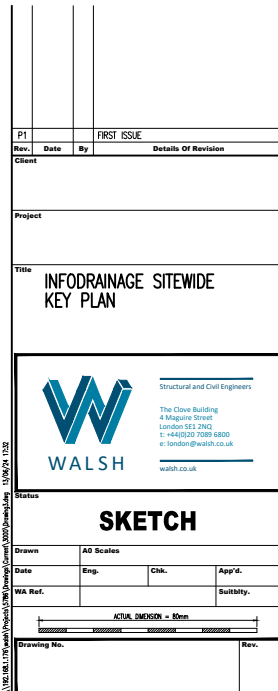
Critical Storm Per Item: Rank By: Max. Outflow

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 %: 240 mins: Winter	20.097	20.097	0.097	0.097	2.5	10.401	0.000	0.000	0.5	10.343	4.009	OK
B 1	FEH: 100 years: +40 %: 360 mins: Winter	20.095	20.095	0.095	0.095	4.1	26.497	0.000	0.000	0.7	21.277	4.854	OK
B 2	FEH: 100 years: +40 %: 480 mins: Winter	20.092	20.092	0.092	0.092	1.4	14.916	0.000	0.000	0.1	3.910	8.211	OK
C 1	FEH: 100 years: +40 %: 360 mins: Winter	20.100	20.100	0.100	0.100	4.8	33.612	0.000	0.000	0.6	19.215	0.630	OK
D 1	FEH: 100 years: +40 %: 360 mins: Winter	20.096	20.096	0.096	0.096	2.5	19.040	0.000	0.000	0.4	11.364	4.580	OK
E	FEH: 100 years: +40 %: 360 mins: Winter	20.096	20.096	0.096	0.096	4.9	28.889	0.000	0.000	1.2	31.975	4.088	OK
F	FEH: 100 years: +40 %: 360 mins: Winter	20.092	20.092	0.092	0.092	5.6	35.892	0.000	0.000	1.1	30.610	8.310	OK
H	FEH: 100 years: +40 %: 360 mins: Winter	20.089	20.089	0.089	0.089	7.9	48.106	0.000	0.000	1.8	48.419	11.014	OK
J2	FEH: 100 years: +40 %: 240 mins: Winter	20.145	20.145	0.145	0.145	5.4	24.258	0.000	0.000	1.8	25.549	-0.115	OK
J 1	FEH: 100 years: +40 %: 360 mins: Winter	20.172	20.172	0.172	0.172	6.7	48.019	0.000	0.000	1.1	24.498	-0.281	OK
G	FEH: 100 years: +40 %: 360 mins: Winter	20.093	20.093	0.093	0.093	6.5	40.768	0.000	0.000	1.4	37.362	6.923	OK
G/K PODIUM	FEH: 100 years: +40 %: 360 mins: Winter	10.099	10.099	0.099	0.099	9.8	71.511	0.000	0.000	1.7	48.225	1.091	OK
K 1	FEH: 100 years: +40 %: 360 mins: Winter	20.093	20.093	0.093	0.093	1.7	11.076	0.000	0.000	0.3	8.850	8.235	OK
K 2	FEH: 100 years: +40 %: 240 mins: Winter	20.092	20.092	0.092	0.092	11.3	44.898	0.000	0.000	3.3	46.936	8.418	OK

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

L 1	FEH: 100 years: +40 %: 240 mins: Winter	20.090	20.090	0.090	0.090	8.7	35.656	0.000	0.000	2.1	34.413	10.221	OK
L 2	FEH: 100 years: +40 %: 480 mins: Winter	20.094	20.094	0.094	0.094	3.7	37.518	0.000	0.000	0.4	15.508	6.649	OK
P	FEH: 100 years: +40 %: 360 mins: Winter	20.090	20.090	0.090	0.090	7.4	43.708	0.000	0.000	2.1	47.676	10.149	OK
Q	FEH: 100 years: +40 %: 360 mins: Winter	20.089	20.089	0.089	0.089	7.6	48.813	0.000	0.000	1.6	42.027	11.265	OK
N 1	FEH: 100 years: +40 %: 360 mins: Winter	20.096	20.096	0.096	0.096	4.5	29.845	0.000	0.000	0.7	21.634	4.237	OK
N 2	FEH: 100 years: +40 %: 360 mins: Winter	20.095	20.095	0.095	0.095	3.3	23.782	0.000	0.000	0.5	15.948	5.194	OK
M 2	FEH: 100 years: +40 %: 360 mins: Winter	20.099	20.099	0.099	0.099	3.8	28.874	0.000	0.000	0.5	16.528	1.655	OK
M 1	FEH: 100 years: +40 %: 360 mins: Winter	20.090	20.090	0.090	0.090	6.0	35.285	0.000	0.000	1.6	38.449	9.862	OK
MORRIS ONS PODIUM	FEH: 100 years: +40 %: 360 mins: Winter	10.093	10.093	0.093	0.093	36.5	276.91 7	0.000	0.000	5.8	153.359	6.814	OK
Bioretenti on	FEH: 100 years: +40 %: 480 mins: Winter	7.971	7.971	0.609	0.609	5.4	52.878	0.000	0.000	1.9	12.297	6.797	OK
Bioretenti on (1)	FEH: 100 years: +40 %: 15 mins: Summer	7.838	7.451	0.388	0.000	52.5	24.881	0.000	0.000	0.0	0.000	83.900	OK
Tank	FEH: 100 years: +40 %: 960 mins: Winter	6.026	6.026	1.523	1.523	43.7	1157.6 39	0.000	0.000	2.4	90.946	23.915	OK
Tank (1)	FEH: 100 years: +40 %: 15 mins: Summer	4.968	4.968	0.118	0.118	171.0	90.630	0.000	0.000	39.8	46.497	92.844	OK
Tank (2)	FEH: 100 years: +40 %: 15 mins: Summer	7.000	7.000	0.700	0.700	40.8	8.189	0.000	0.000	46.3	18.821	8.506	OK
Tank (3)	FEH: 100 years: +40 %: 15 mins: Winter	6.905	6.905	0.405	0.405	75.0	31.189	0.000	0.000	7.4	10.547	2.736	OK
Tank (4)	FEH: 100 years: +40 %: 15 mins: Winter	6.927	6.927	0.327	0.327	37.1	14.892	0.000	0.000	11.8	8.234	24.411	OK

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





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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