Plot 1 Building G - Construction Phase Drainage Strategy

(Scale @ 1:200)

Construction Sequence

Task 1: Establish Site Cabins and Wheel-wash

Task 2: Demolish existing building; remove floor slab and external yard slab, and foundations. Existing Gullies and Drainage shall be removed / demolished

Task 3 - Construct building. Storm drainage to be installed prior to roof cladding to receive runoff.

Task 4 - Connect foul drainage to Plot 1 drainage, construct yard incl permeable paving

Existing drain place, discharging to Eagle Business Park 1

Site cabin location

Temporary storage yard (Gravel surface, circa 10m x 20m) drained via perforated land drain as shown

Site welfare block (Foul to be connected to Plot 1 foul drainage

Wheel wash area - drained to temporary lagoon via Silt Trap

Temporary Silt Trap

Temporary Lagoon (Volume = 8m³)
GL: 16.30m AOD
TWL: 16.07m AOD (1 in 100-yr Storm)
IL: 14.78m AOD

Temporary discharge to Plot 1 drainage from lagoon controlled by Orifice Plate inserted in manhole
Drained area = 320m²
Discharge Rate = 1-l/s

ONE WAY

GRAVEL STRIP

Kerb Drain

Building G

CONSTRUCTION DESIGN AND MANAGEMENT REGULATIONS 2015

THE CONTRACTORS ATTENTION IS DRAWN TO THE ABNORMAL RISKS IDENTIFIED BELOW, ANNOTATED ON THE DRAWING AND EXPLAINED IN THE ASSOCIATED DESIGN RISK REGISTERS

LEGEND

- YOU MUST NOT DO
- HAZARD OR DANGER
- YOU MUST DO
- CAUTION

ABNORMAL RISKS IDENTIFIED:

Construction Phase Management and Maintenance

The maintenance activities listed below are considered to be the basic tasks necessary to keep the site drainage systems working at optimum efficiency, which is necessary to ensure that they have capacity to deal with extreme/ unusual events. Other activities, such as litter removal/ repairs etc. will be required.

Area	Maintenance Activity	Frequency	Responsibility
'On Plot'Hard-Surfacing & Drainage	Spillages - Provision of Spill Kits to contain contaminants	As required	Site supervisor
Development Site Access Road	Periodic sweeping to remove debris, leaves,etc	Every 2-4 weeks during autumn	Site supervisor
Flood routes –	Make visual inspection. Check route is not blocked by new fences, walls, soil or other rubbish. Remove as necessary-	Monthly	Site supervisor
Overflows –	If overflow is not clear then dismantle the structure and reassemble to design detail	As required	Site Supervisor
Filter Drains	Clear perforated pipework of blockages	As required	Site Supervisor
	Inspect filter drain surface, inlet/outlet pipework and control systems for blockages, clogging, standing water and structural damage	Monthly	Site Supervisor
Temporary Lagoon	Remove debris from the catchment surface (where it may cause risks to performance)	Monthly	Site Supervisor
	Repair/rehabilitate inlets, outlet,	As Required	Site Supervisor
Silt Traps	De-silt and remove litter and debris.	Every 2-4 Weeks in Autumn, and monthly throughout rest of year.	Site Supervisor

Incident Action Plan

In the event an incident/spillage occurs, overflow from settlement lagoon to be covered and lagoon drained via tankering to necessary site.

Hazard Chemicals should be stored in a lockable container. In the event a spillage occurs, spill kits will be provided on-site and all incidents should be cleaned/fixed, before construction resumes. Broken Chemical containers should be removed from site by an approved company once the incident has been cleaned. If further hazardous material is found, staff should inform their supervisors immediately and the above procedure should be followed.

Spill Kit Usage:

1. Put on PPE.
2. Access the Spill Kit.
3. Lay Down a Safety Barrier
4. Lay Down a Safety Barrier.
5. Stop the Leak.
6. Absorb the Spillage.
7. Clean- up the spill site.
8. Dispose of contaminated Chemical Waste.
9. Report the Incident.

	Land Use	Non-residential Car Park	Commercial/Industrial Roofs
Pollution Hazard Level		Medium	Low
Total Suspended Solids (TSS)		0.7	0.3
Metals		0.6	0.2
Hydro-Carbons		0.7	0.05
Mitigation Indices	Type of SuDS Component	Bioretention System	Silt Trap
	TSS	0.8	0.3
	Metals	0.8	0.3
	Hydro-Carbons	0.8	0.2
Residual Indices	TSS	0	0
	Metals	0	0
	Hydro-Carbons	0	0

Key

- HB-HALF BATTERED KERB
- BN-BULLNOSE KERB
- TN-TRANSITION KERB
- EF-EDGING OF FOOTPATH
- Permeable Paving
- Proposed Access Road Construction
- Proposed Footpath
- Proposed Concrete Yard Construction
- Proposed Levels
- 1:36 Arrow Gradient
- Existing Levels
- Surface Water Polypropylene Inspection Chamber
- Private Surface Water Manhole
- Surface Water Pipeline
- Surface Water Perforated Pipeline
- Rodding Eye
- Rain Water Pipe discharges to driveway
- Drainage Channel
- Existing Surface Water Manhole
- Existing Surface Water Pipeline
- Foul Water Polypropylene Inspection Chamber
- Foul Water Pipeline
- Existing Surface Water Manhole to be demolished
- Existing Surface Water Pipeline to be demolished
- Existing Gully to be demolished

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Client: Barnack Estates UK Ltd

Project: Broadway, Yaxley

Title: Plot 1 - Building G Construction Phase Drainage Strategy

Job No: 20023

Drawing No: 20023-350

Status: For Planning

Rev: P1

Scale: As Stated

Date: 17-06-2025

Project Engineer: TBP

Drawn By: TBP

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