

Construction Phase Drainage Maintenance Plan

Project: 126785.658400.

Lidl Supermarket
Briton Ferry Road
Neath

Client: Lidl Great Britain Ltd.

Date Issued: 18th February 2025

Read In conjunction with FRA ref 126785.658400.

Construction Phase Drainage Management & Maintenance Plan

The Maintenance Plan should be stored within the site manager's file.

This plan is for the consideration of storm water flows and volumes during the construction phase only. It does not constitute a CEMP.

This document is for guidance when formulating the appointed Contractor's RAMS and working processes. The items and processes listed are not exhaustive. It is assumed a specialist supplier will be appointed by the Lead Contractor to formulate a final, specific maintenance plan using their own products & methodologies to prevent and mitigate the risks to the wider drainage network.

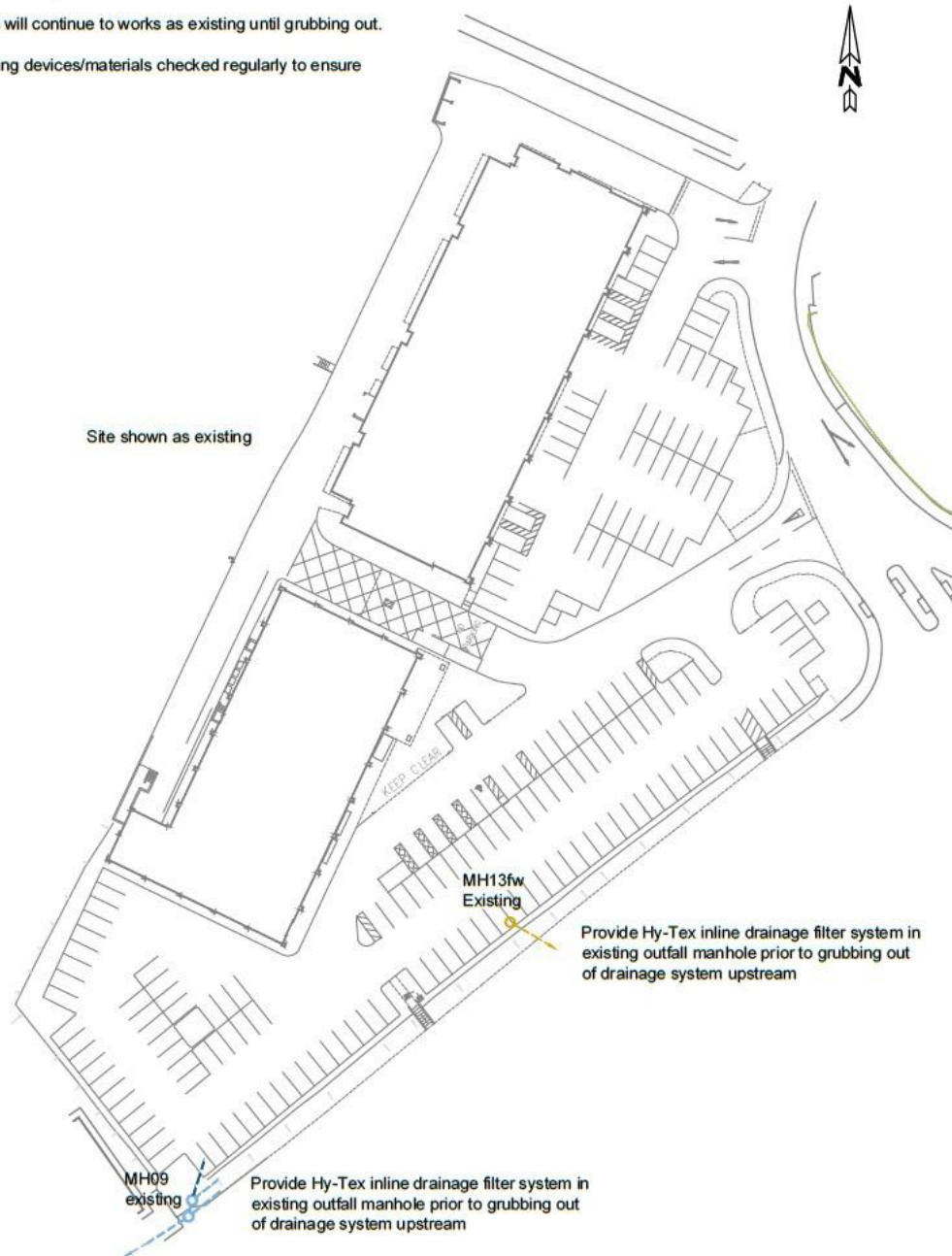
The suggested processes and phasing information are shown in drawings CPMP 01 – 03:

Demolition Phase Drainage Management:

1. Within existing gullies on site and in nearby areas: Provide Hy-Tex Ultra Drain Guard fabric units or loosely slung free flowing geotextile fabric (trapped by lid/cover) to prevent contaminants entering system. These to be checked/cleaned periodically as necessary without debris being washed down system!
2. Within any existing manholes that will remain live during construction phase: Provide Pro-Tex inline drain filter material on outlet or line manhole with free flowing geotextile fabric and fill with straw as filter medium to prevent contaminants entering drainage network. These to be checked/cleaned periodically as necessary.
3. Drainage system will continue to work as existing until grubbing out.
4. Ensure silt catching devices/materials checked regularly to ensure performance.

Assumed Order of Works (Demo):

1. Existing buildings demolished. Steel frame removed. Building products & floor slab crushed/recycled and stored for use.
2. External tarmac zones scalped and any recyclable materials stored/removed.
3. Drainage & foundations grubbed out as necessary to enable beginnings of earthworks and level re-profiling. Move to CPMP 02.



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Project: Lidl Supermarket
Briton Ferry Road, Neath.

Drawing Title: Phase 1 - Demolition Of Existing Buildings

Project Reference: 126785.658400 Drawing Number: CPMP. 01

Earthworks Phase Drainage Management:

1. Within any existing manholes that will remain live during construction phase: Provide Pro-Tex inline drain filter material on outlet or line manhole with free flowing geotextile fabric and fill with straw as filter medium to prevent contaminants entering drainage network. These to be checked/cleaned periodically as necessary.
2. Provide 'Frog' Silt fence or similar where shown. Set 200mm into ground. Posts 1.5m c/c typ. To protect railway zone and highway locally during earthworks phase. No requirement at NE of site as levels fall into site.
3. Within existing gullies at site entrance and in nearby areas: Provide Hy-Tex Ultra Drain Guard fabric units or loosely slung free flowing geotextile fabric (trapped by lid/cover) to prevent contaminants entering system. These to be checked/cleaned periodically as necessary without debris being washed down system!

Construction Phase Runoff Volume Calculation:

In Accordance with CIRIA C532.

Contract phase expected to last approximately 6-8 months.

In this period a 2 year return period storm would be expected with 20mm rainfall.

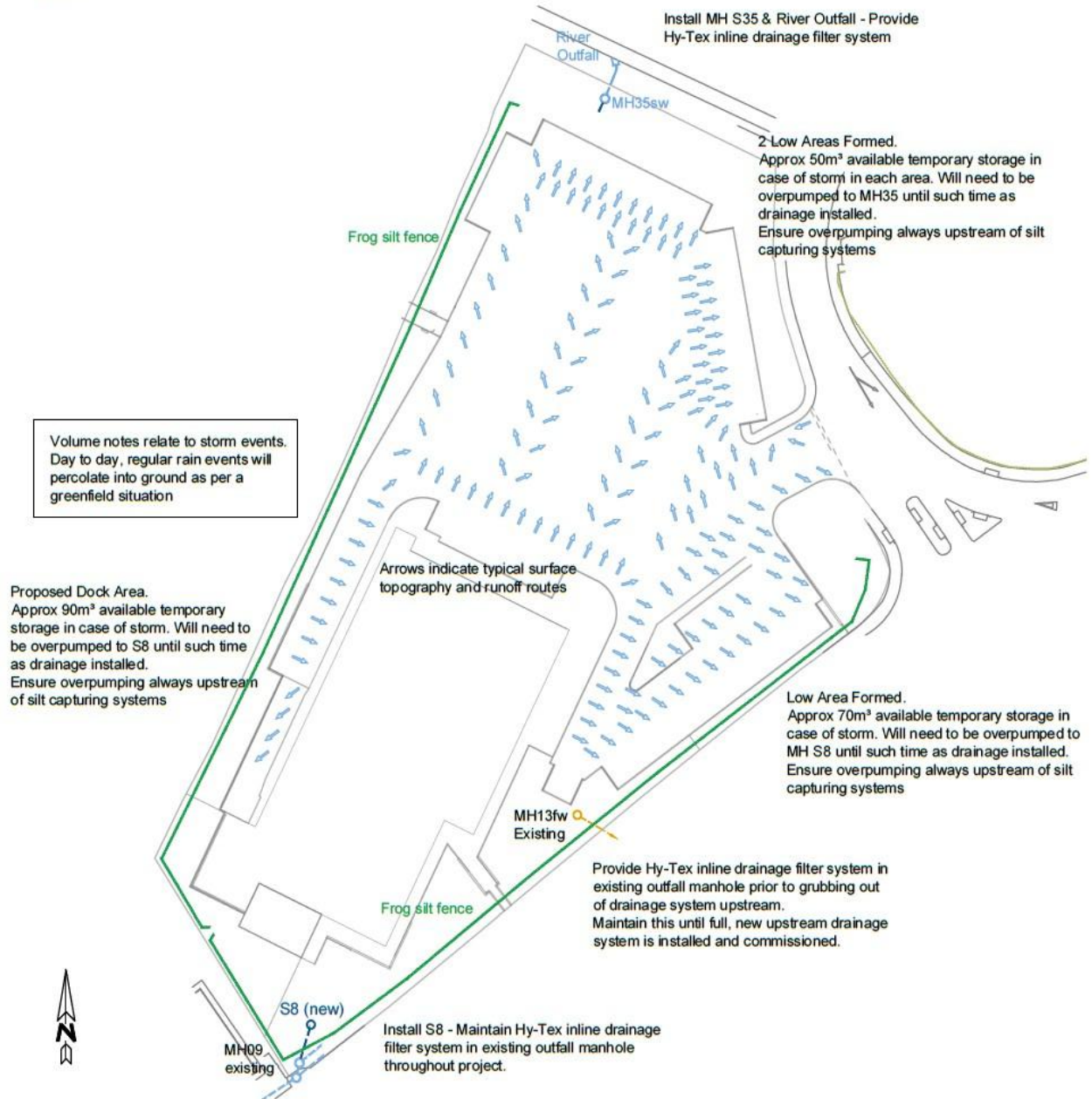
In accordance with CIRIA C648 Chapter 18.3.4:

Runoff Volume = Working Site Area x Runoff Total x Runoff Factor.

Volume = $12000\text{m}^2 \times 20\text{mm} \times 0.4$.

Volume anticipated = 96m^3

Volume within low ponding areas is more than adequate



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Drawing Title: Phase 2 - Earthworks Process

Project Reference: 126785.658400 Drawing Number: CPMP. 02

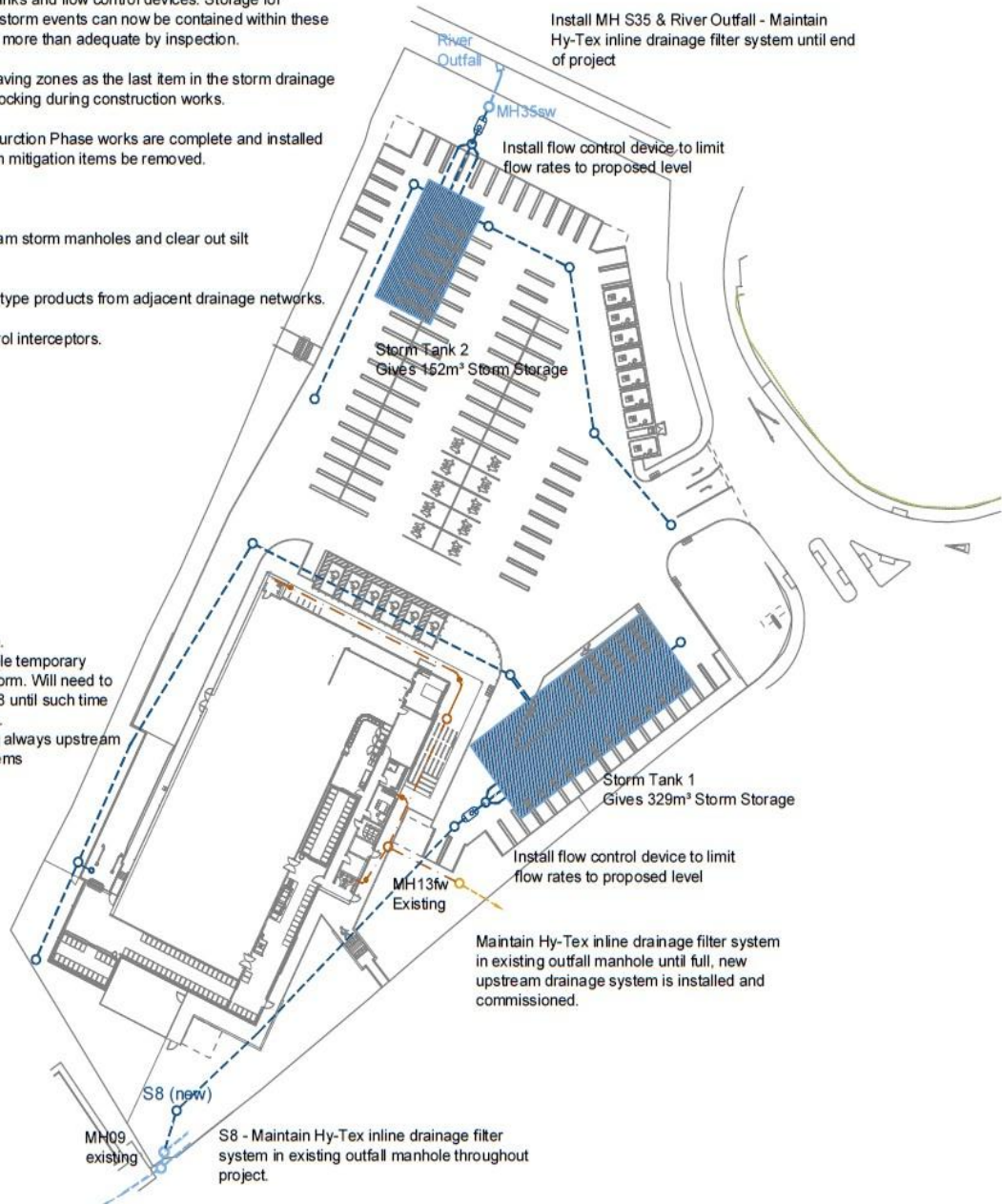
Construction Phase Drainage Management:

1. Within existing gullies on site and in nearby areas: Provide Hy-Tex Ultra Drain Guard fabric units or loosely slung free flowing geotextile fabric (trapped by lid/cover) to prevent contaminants entering system. These to be checked/cleaned periodically as necessary without debris being washed down system!
2. Within any existing manholes that will remain live during construction phase: Provide Pro-Tex inline drain filter material on outlet or line manhole with free flowing geotextile fabric and fill with straw as filter medium to prevent contaminants entering drainage network. These to be checked/cleaned periodically as necessary.
3. The proposed storm manholes all have silt catching capability to assist both the construction phase and permanent situation.
4. Install attenuation tanks and flow control devices. Storage for construction phase storm events can now be contained within these tanks. Volumes are more than adequate by inspection.
5. Install permeable paving zones as the last item in the storm drainage to mitigate silting/blocking during construction works.
6. Only once all Construction Phase works are complete and installed can the downstream mitigation items be removed.

i.e.

- Check all downstream storm manholes and clear out silt sumps/catchpits.
- Remove all Hy-Tex type products from adjacent drainage networks.
- Commission all petrol interceptors.

Proposed Dock Area.
Approx 90m² available temporary storage in case of storm. Will need to be overpumped to S8 until such time as drainage installed.
Ensure overpumping always upstream of silt capturing systems



Construction Phase Runoff Volume Calculation:

In Accordance with CIRIA C532.

Contract phase expected to last approximately 6-8 months.

In this period a 2 year return period storm would be expected with 20mm rainfall.

In accordance with CIRIA C648 Chapter 18.3.4:

Runoff Volume = Working Site Area x Runoff Total x Runoff Factor.

Volume = 12000m² x 20mm x 0.4.

Volume anticipated = 96m³

Volume within low ponding area and tanks is more than adequate



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Drawing Title: Phase 3 - Building & Externals Construction

Project Reference: 126785.658400 Drawing Number: CPMP. 03

The Lead Contractor should ensure that all site operations comply with CIRIA C649 & C532.

Contractor to confirm their own environmental policy and work fully in accordance with current guidelines and policies. Site contact (and out of hours) details to be supplied to Planners/Building Inspector as per C532 guidance.

An Environmental Manager (Site manager) will be present on site during construction to supervise the implementation of appropriate environmental safeguards.

Where practicable and temporary construction works will aim to be resistant to flood impacts, in order to prevent movement or damage during potential flooding events.

Best practice measures associated with storage of oil and fuels will be adhered to.

A regular inspection is to be carried out by the Environmental Manager to identify:

- any pollution risks that are unacceptably high
- spillages and leakages
- any suspected incidences of pollution.
- vehicles/machinery are regularly serviced to reduce hydrocarbon risk

The Environmental Manager will recommend appropriate actions where risks are unacceptably high, where spillages and leakages are unacceptable or where there are any suspected pollution incidences. Where necessary, the Pollution Incident Response Procedure is to be implemented.

The Lead Contractor will take reasonable precautions to reduce the risk of pollution to the environment including:

- compliance with PPG14
- compliance with the requirements of the Food and Environmental Protection Act FEPA licence(s)
- A treatment train should be provided to maximise silt/pollutant removal.
- Provision of large spill kit in Environmental Managers vehicle, Site Compound

Important Note: When clearing any silt from the silt retention items, do not simply wash any debris downstream. Dispose of silt in accordance with best site practice

Contact Details

In the event of vandalism or any unlikely chemical/oil spillage; the discovering Tenant or Maintenance Operative should immediately contact the site owner. The contact details must be kept in the file with the **EA Accident/Incident Hotline 0800 80 70 60.**

Maintenance Log Objectives

The objective of the inspection log is to:

1. Confirm that appropriate routine maintenance of the system is being undertaken
2. Confirm that the system is continuing to operate effectively
3. Identify any remedial works required
4. Provide a consistent record of the condition and performance of the system.

Inspections should comply with all relevant Health and Safety legislation (Health and Safety at Work Regulations, 1999) including the development of risk assessments for working close to or in water.

General Inspections of the construction phase pollution mitigation assets should ideally be carried out at no less than 4 weekly intervals, at the same time as other routine maintenance activities.

Inspection Documents

The appointed maintenance operative should attach their own inspection log documents and adapt their procedures in line with the guidance given in this document. If an inspection log is not available, typical regime and inspection logs are attached for use.

Complete relevant items and keep within Maintenance Log, alongside site photographs and record of repair/maintenance works.

Photographic records of the inspections - Should be kept within the maintenance log, alongside the completed inspection forms, to pick up long-term changes that might not be apparent on a single visit, especially where inspections are carried out by different members of staff.

Typical Inspection Regime Log

Item	Inspection Frequency	Action & Frequency	Date & Sign	Comments Or photo reference
Storm System	4 weeks	Clearance & Jetting As necessary		
Foul System	8 weeks	Clearance & Jetting As necessary		
Silt Fences	4 weeks	De-silt & re-set. As necessary		
Flow Control MH	4 weeks	De-silt and clear Vortex unit. As necessary		
Storm Gullies	4 weeks	Clear Hytex & replace. As necessary		
Silt Catching Devices	4 weeks	Clear/replace as per supplier's recommendations		
Storm Tanks	4 weeks	De-silt and clear. As Necessary		

Typical Maintenance Record Log

Date	Operative	Inspection or Works Undertaken