

## Drainage Method Statement

**Client: Scouts**

**Contract: Storage Facility**

**Site Address: 75 Marlborough Road, BN15 8UG**

### Method Statement Installation of drainage, chambers and attenuation

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## 1.0 Overview

This document details the working process and any safety arrangements specific to this Operation. All general site safety procedures are applicable for this Operation unless more detailed procedures are covered in this Safe System of Work.

Ahead of the works commencing, an independent drainage surveyor will be employed. At each stage of the install the drainage will be checked by the surveyor, notes compiled and record drawings created. The surveyor will inspect all aspects of surface water drainage and ensure that they are fully compliant with the approved details. If at any stage a deviation is noted, remedial action will be taken in line with the approved details and will be re-surveyed once corrected.

Ahead of project completion a fully drafted survey and report will be submitted to the Local Authority for their interest, confirming that the scheme meets all relevant criteria and ensures that the flood risk for the area has been adequately addressed, has not increased and that the development will remain safe for its lifetime.

|                           |                |
|---------------------------|----------------|
| Commencement of the Works | TBC            |
| Duration of the Works     | TBC            |
| Location of the Works     | Site wide      |
| Reference Drawings        | 5---ALT-SA-P01 |

## 2.0 Plant and Equipment

1. The Plant to be used in this Operation will be: ☒ *check box as appropriate*

☒ 360° Excavator      ☒ Dumper      ☒ Pipe laser      ☒ Disc Cutter

All test certificates to be provided to Client Site Manager before any work starts.

2. Approved excavator lift plan and permit to lift must be in place before work any lifting commences.

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### 3.0 Materials Required

- Pipes
- Shingle
- Concrete
- Pipe Lubricant

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## 4.0 Engineering Control

- Pipe Laser
- Profile Boards

## 5.0 Fall Protection Measures and Access

1. Crowd barriers will be placed two metres back from the leading edge of any excavations
2. Combi safe stairs to be used for access

## 6.0 Risk Assessments related to this Operation

- RA HL 01 General site activities
- RA HL 02 Excavators
- RA HL 03 Dumpers
- RA HL 06 Installation of drainage and chambers

## 7.0 COSHH Assessments related to this Operation

- Concrete
- Diesel
- Hydraulic oils
- Grease
- Engine oils
- Petrol
- Adblue
- Pipe lubricant
- Dust

## 8.0 General Sequence of Operations

1. All operatives to read and adhere to relevant Risk Assessments and Method Statements (RAMS) for the task. RAMS to be signed by all the operatives involved in the task.
2. Site working hours are assumed to be 0730 to 1700. No plant to be operated outside these hours
3. A trained and competent Operative who has been on an approved Underground Services Avoidance course will scan the existing ground for live electric cables using a Cable Detector and Genny if necessary and spray positions on the ground of any cables located - dig by hand within 1000mm of the service
4. If locations are not as service drawings or un-located advise the Site Manager immediately and await further instructions prior to commencing works.
5. If the work requires a Permit, a checklist will be gone through to make sure the task is carried out safely. A Point of Work Risk Assessment (POWRA- is to be carried out to identify and reduce any residual or additional risks involved in the task in all cases).
6. Secure and/or fence the working area as required.

## 9.0 Proposed works to be carried out

- Works will be planned and discussed in daily/weekly Logistic Site Meeting.
- Establish reduce level excavation depth and set up Laser Level to site datum.
- Set up Excavator on existing reduce level excavation and excavate trench for drain pipe to invert level of fill below pipe. Batter sides of excavation to 45°, where depth exceeds 1.2m below reduce level or install earthwork support depending on ground conditions found. **[see separate RAMS if required]**

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- Lay drainage pipes on granular fill to correct falls using pipe laser.
- **Hold point engineer to take photos, check inverts and sign off air test before backfill can take place.**
- Backfill to sides and top of pipes with granular fill to specification.
- Carry out testing of pipes, ready for inspection by Local Authority Building Control and ensure this is recorded with the Main Contractor.
- **Hold point LA inspector to sign off each pipe run and witness air test. Engineer to fill out QA sheets.**
- Backfill trench with excavated spoil or imported fill to specification and compact with 10mm shingle and then trench backfilled with suitable excavated material and lightly compacted.

## Manholes

- Excavate pit to size stated on the manhole schedule in relation to the ring size using the 360° Excavator and Dumper, cart away excavated spoil to temporary spoil heap on site. Batter sides of excavation as necessary to prevent sides of excavation falling in. Dependent on depth and ground conditions it may be necessary to install earthwork support.
- Compact bottom of excavation to receive concrete.
- Depending on the level of the existing water table on site in relation to the manhole depth, there may be a need to pump water from the excavation whilst the concrete base is setting. This will be carried out by excavating a sump pit adjacent to the base and installing a suitable pump unit to remove the water, if necessary through a system of silt traps.
- Place concrete bed to correct level using concrete loaded into pit with machine bucket.
- Install rocker pipes and channel section including all branch connections and install concrete base including initial benching.
- Lower sections onto concrete base using 360 excavator with lifting chains and shackle, up to underside of cover slab. Bed sections on an approved jointing medium. Ensure step irons align.
- Make good to lifting holes in pre-cast sections with mortar.
- Complete sand/cement benching to base of manhole.
- Fix shutters around pre-cast concrete sections and fill with concrete to specification.
- Strike shutters and backfill working space with specified material to cover slab level.
- Lift precast concrete cover slab into position using 360° Excavator, bedded on mortar and align access hole with step irons.
- Build two to four courses of engineering brickwork on top of cover slab.
- Bed manhole cover and frame to correct finish level.
- Backfill between cover slab and manhole cover level with material as per specification.

## Attenuation

- Excavation of the area will commence once the area has been secured and isolated from other site users
- Trained and competent operators will carry out this task
- The area will be scanned and checked for the presence of any known or unknown services that may be present
- Once the excavation is complete, suitable bedding material will be used to line the bottom of the excavation

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- Safe means of access will be provided for access and egress into the excavation and shoring will be present to the sides as required
- Lining materials will be laid
- Crate system will be laid ensuring each layer is checked for connection and cleanliness as it progresses
- A hold point will be required for inspection of the crate system ahead of its sealing
- Final checks of inlet and outfall pipes to the crate system will be undertaken
- Once the above are complete and confirmed as satisfactory, the system will be wrapped in the specified material
- Suitable backfill material will then be used to cover the system and installed in layers
- Build up of material will continue to formation level

## 10.0 Signing sheet

### Safe Systems of Work

**Client: Scouts**

**Contract: Storage Facility**

**Site Address: 75 Marlborough Road, BN15 8UG**

### Method Statement Installation of drainage, chambers and attenuation

I declare that the detail described in this document identifies appropriate risks, related control measures for any equipment used, is relevant to site operations and conforms to current legislation.

Completed By: Tony Harding

Position: Contracts Manager

Signed: *T. Harding*

Date: 15/1/26

I confirm that I have received a site induction by the Main Contractor, have read the above Method Statement, fully understand Safe Methods of Work and agree to carry out the work in accordance with the procedure stated. I am also aware the Company has a Work Safe Policy.

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| Name | Signed | Company | Date |
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