

METHOD STATEMENT

Project Title: Bursledon Gully Restoration	Type of Work / Operation: Install Flex MSE erosion protection bags, install trash screen
Method Statement Number: 002	Contract Number: TBC
Issue Number: 002	Author: A Barlow

Scope of Works: -

Personnel – All persons employed for this scheme of work are over 18 years of age and will inducted into the sites safe systems of work.

Role	No	Minimum Training Required
Site Supervisor	1	SSSTS, EUSR Water Hygiene Card, CSCS Card, CPCS
Operative	1-3	EUSR Water Hygiene Card, CSCS Card, CPCS
Banksman	1	EUSR Water Hygiene Card, CSCS Card

Personal Protective Equipment (PPE) & Emergency Equipment – To conform to British & European standards COP = Carry On Person

Equipment	Status	Use with following operations	Equipment	Status	Use with following operations
Hard Hat	Mandatory	At all times	Hearing protection	Task Specific	Noise assessment to be carried out
Overalls	Mandatory	At all times	Gloves	Mandatory	At all times
Lace up safety boots	Mandatory	At all times	Safety Glasses	Mandatory	At all times
Hi Vis Jacket / Vest	Mandatory	At all times			

In signing this method statement you as an individual are confirming: - You have read, understood, and will comply by wearing the PPE stated above. All PPE supplied is in good condition and available to use.

Plant & Equipment: - All equipment will be in good condition and inspected in accordance with the Provision and Use of Work Equipment Regulations 1998 (PUWER) & Lifting Operations & Lifting Equipment Regulations 1998 (LOLER) & the manufacturer's instructions, by trained personnel. All equipment will be regularly maintained and test certificates will be available for those items, which, are covered by Statutory Regulations. The Site Supervisor will inspect all plant and equipment upon arrival at site and record findings on ESite. All fuels and lubricants along with some plant will be stored within the team's van for short reactive project or inside a steel container for planned schemes of work. Fuel containers will be of a proprietary type & will be banded within the storage in case of accidental spillage. Store Fuels in Bunds, Empty Rainwater from Drip trays regularly, Take Away Fuel Drips in Waste Oil Container, Place Absorbent mats under fill point when filling.

List of Plant & Equipment:- Welfare unit, 3T excavator, Heras fence panels, 6 yd skip, trash screen and security bar for headwall structures, post and rail fencing, postcrete, pre-filled Flex MSE bags, 200mm rip rap stone,

Plant to be left in secure compound overnight and must be stored in accordance with [Stonbury Theft Reduction Policy](#).

Co-ordination with other Site Operations - Stonbury will ensure that site operatives and visitors are inducted on to the site. During the induction site, specific risks will be communicated to all site operatives and visitors.

Records of inductions, access to Stonbury risk assessment, method statements, CoSHH assessments and Encyclopaedia are controlled using ESite.

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Site working hours are between 07.30-18.00

Construction warning signs are to be placed around the works area, which will be protected by double clipped Heras fencing.

Safe Systems of Work –

Please note; during this scheme we will be using QTIPs to track and monitor the installation.

Tool Box and Safety talks to be carried out on:

- Manual Handling
- Slips/trips/falls
- Excavations – including HSG47
- PPE
- RPE
- Waste Management
- Pollution control
- Fire Prevention and control
- Working in the water environment
- Human factors affecting safety

Mobilisation. Before any works are started

- The site supervisor will refer to the Construction Phase Plan in order to set up the welfare, temporary fencing and signage.
- Apart from the reprofiling of the gully sides, all works to be carried out manually, so the site supervisor will assess the works area to determine risks such as slips, trips & falls. Site Supervisor to ensure all operatives are fit and well and capable of carrying out the tasks associated with manual handling.
- Photos must be taken of all areas prior to works commencing and will be referred to when making good any damage to the area after works have been completed.
- The existing Heras fencing around the headwall and upstream portion of the gully will be retained for safety reasons.
- Due to the public location of the works (adjacent to residential housing, the Tesco car park and the publicly accessible wooded area), noise will be kept to a minimum and works will not commence before 8am. It is not anticipated that noisy activities will take place for any sustained period and will be limited to the installation of the security bar and trash screen at the headwalls.
- The client has agreed that a welfare van can be parked in the space identified in the CPP, or an agreed alternative location. The site supervisor will need to sign in at the customer information desk each day to ensure that the ANPR system does not issue a ticket for over-staying the 3 hour maximum limit. The parking area cannot be fenced off nor can materials be stored there – it is only to be used for the welfare vehicle. The area to be left clean and tidy each day.

Installation of security bar at upstream headwall

- The upstream headwall has been recently fitted with a flap valve to regulate the water runoff from the Tesco car park. It has been noted that the flap valve is sometimes found fully open, which may be due to trespassers.
- A removable security bar will be fixed across the face of the flap valve to the sides of the headwall at a level which will limit the maximum opening to 90 degrees.
- A client supplied padlock will be installed for removal during maintenance.

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Image 1: Flap Valve fully open



Image 2. Security bar installed here to prevent valve opening more than 90 degrees

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Installation of trash screen over outlet pipe at downstream headwall

- To limit debris being washed into the downstream outlet pipe, a new trash screen will be supplied and installed.
- Existing debris and build up of silt deposits will be removed to create a clean working area.
- Stainless steel fixings will be attached to the headwall using chem fix.



Image 3: downstream gully requiring trash screen

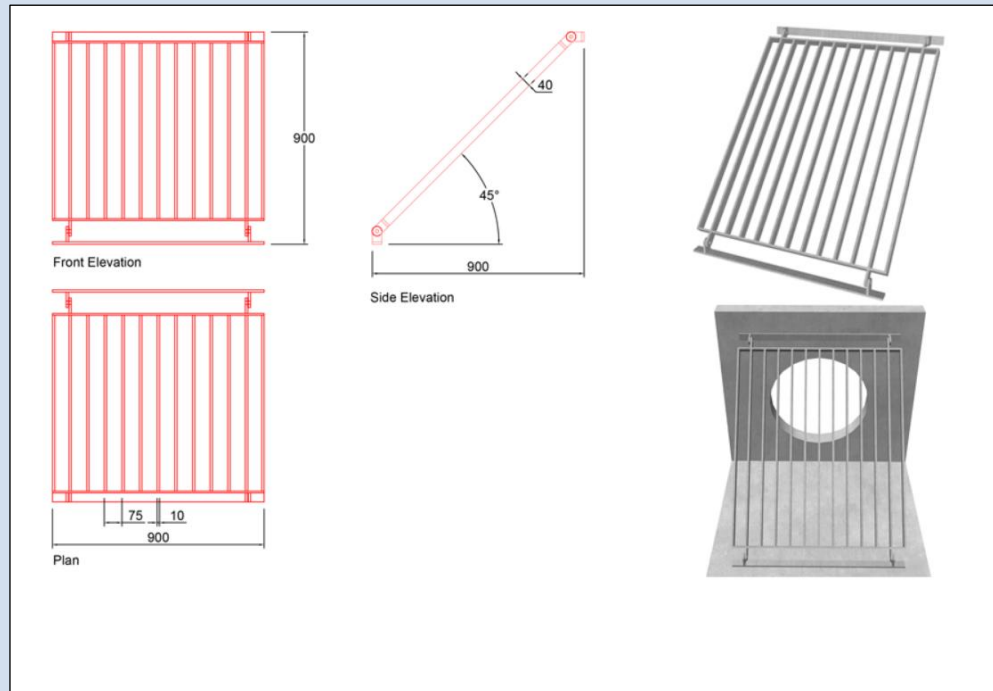


Image 4: Typical Althon trash screen

Removal and replacement of existing post and rail fence.

- The existing post and rail fence surrounding the upstream headwall and gully will be removed at the start of the works to allow access to the working area.
- Following completion of the works, including the installation of the erosion protection measures (Flex MSE bags), approximately 40m of new fence will be reinstated with new 100x100mm posts set in Postcrete with 3 no. 75x50mm rails.

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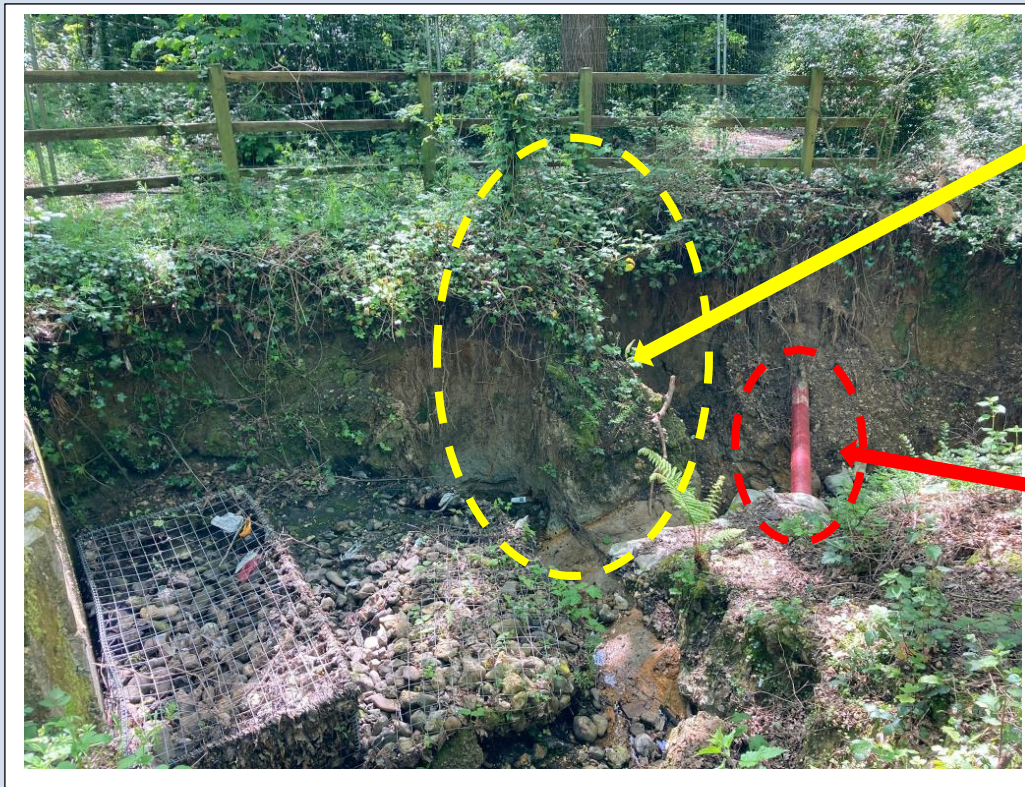
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Reprofile banks of gully and installation of Flex MSE bags to provide future erosion protection.

- The site supervisor will take delivery of the 3T excavator, which will be driven to the upstream section of the gully via the access off Woolwich Close to the west of the works area.
- Limitations with access around the headwall structure means that it is not possible to use a larger machine, so any re-profiling of the banks will be limited to the reach and capabilities of this machine. Excavated material will be retained on site and used as backfill behind the Flex MSE wall. The profile of the wall will be amended to suit the profile that the excavator has been able to create.



Reprofiling using the 3T excavator will remove this area of earth to create a more uniform bank over which the Flex MSE sandbag wall will be constructed.

Existing red sewer to be incorporated into the Flex MSE wall to limit future erosion of the pipe support.

Image 5: Upstream section of gully for reprofiling and installation of Flex MSE wall

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- Pre-filled Flex MSE bags will be delivered to site and transported to the works area using wheelbarrows.
- A level base will be established using hand tools and a layer of gravel filled bags will create a level working base. Flex MSE bags will be installed by hand as soldier courses with Flex MSE fixing plates placed on top of each completed course to tie the courses together as they are built up. Site won material will be used to back fill the space between the wall and the gully side and compacted by hand as the wall is constructed. This gap will be kept to a minimum to limit the volume of backfill material. Geogrid will be incorporated into the backfill every 3rd course to provide additional stability to the structure.
- The Flex MSE wall will be constructed around the existing red sewer pipe to provide erosion protection.
- Flex MSE bags will be introduced behind the gabion basket and along the floor of the gully adjacent to the constructed walls to provide additional scour protection.
- Once the wall has been constructed, the face will be hydroseeded which will subsequently create a vegetated wall. Natural self-seeding will add to this over time.



Examples of Flex MSE installations showing installed bags, followed by hydroseeding and subsequent greening of the wall

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DETAIL SHOWS EXAMPLES OF THE MINIMUM AND MAXIMUM WALL BATTER.
FACE ANGLE CAN BE VARIED SUBJECT TO DESIGN REQUIREMENTS.

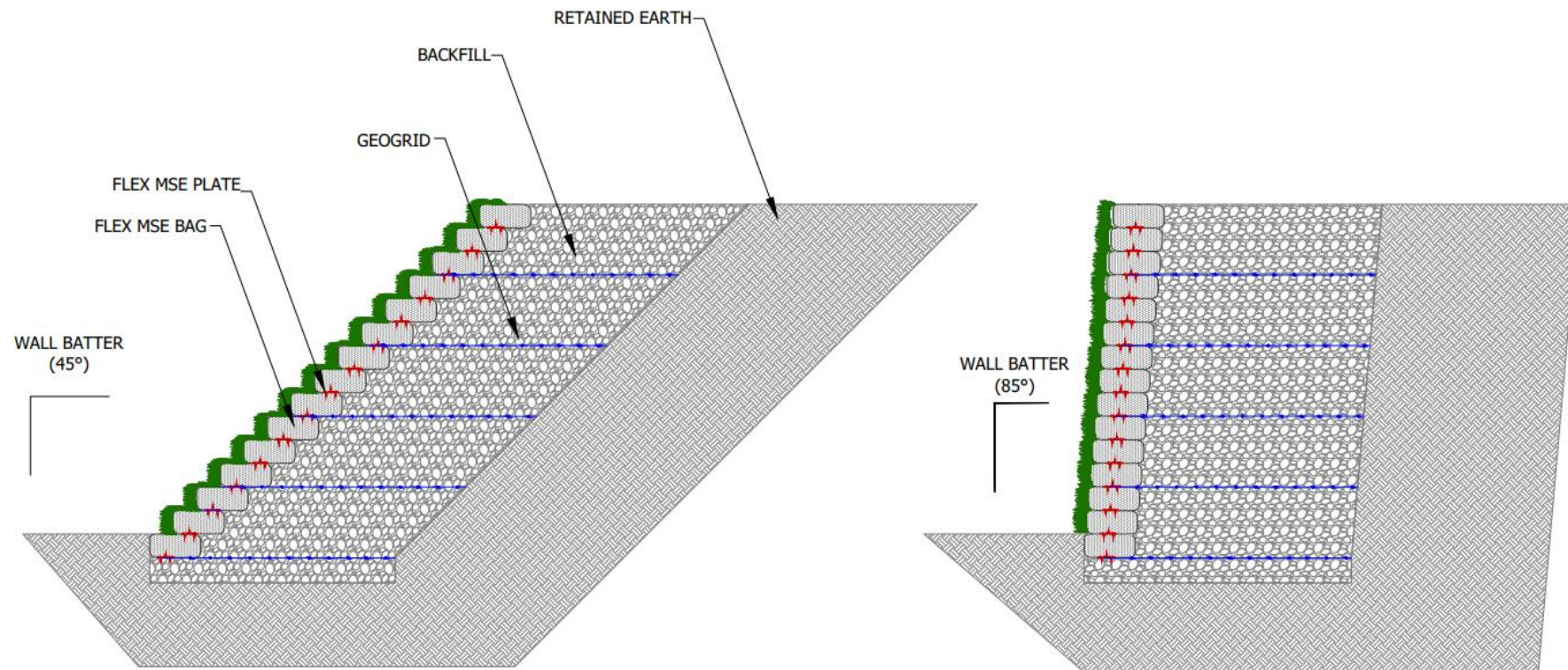


Image 6: typical cross-section of Flex MSE construction

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Remediation along the Gully channel

- In various locations along the length of the gully, Flex MSE bags will be placed to limit further erosion.
- In some areas, the flows along the gully have created scour holes. These will be filled with 200mm rip-rap stone which will be delivered to site in bulk bags and transported to location by hand using wheelbarrows. The stone will be placed in the scour holes by hand and tamped into place to create a uniform gully base. Any areas of undermining will be carefully filled to reduce future scouring.
- There are a small number of plastic sheet piles on the outside bend of the right hand bank downstream of the Flex MSE wall construction. These are to be removed and replaced with Flex MSE bags to prevent further erosion.
- There are 3 mature trees at the downstream end of the gully, close to the outlet headwall. These will need to be removed prior to any works being carried out in this area as they are severely undermined and could pose a risk in the future. Once the trees are removed, the scour holes will be filled with rip-rap stone creating a more uniform gully profile and to reduce future undermining in this area.

Demobilisation

- The client will be invited to inspect the works prior to demobilisation
- All temporary fencing, etc and welfare facilities will be removed from site.
- The works area will be litter picked and left tidy.

20 Second Rule – Before starting a task look around your place of work and consider any potential risks. If any identified take immediate corrective action. Don't take chances with the Health and Safety of you or others – Stick to the Method Statement.