| **WORK AREA:**  **Gillingham Road** | **CONTRACT NAME:**  **N23041 Gillingham Road Bridge Replacement** | **DESCRIPTION OF ACTIVITY:**  **Construction of MSE Wall and Retaining Wall** | **Rev** | **Originator** | **Date** | **Approved** | **Date** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **0** | **Akash Nada** | **08/04/2025** | **GvdLinde** |  |
| **ITP No: 007** | **1** |  |  |  |  |
|  |  |  |  |  |

| **Item No.** | **Item** | **Activity TASK** | **Acceptance Criteria** | **FREQUENCY** | **CERTIFYING DOCUMENTATION, RECORD OR CHECKSHEET** | **VERIFICATION SIGN OFFS** | |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **INTERNAL VERIFICATION AUTHORITY OR RESPONSIBILITY** | **CRITICAL HOLD POINT**  **AUTHORITY** |
| **1.** | **Site Preparation** | Site Clearance | Site clear of debris and vegetation | Once | Visual Inspection | R | W |
| **2.** | **Material** | Class C Geotextile | As approved by the Engineer | Prior to placing order | Suppliers Documentation | R | R |
|  |  | Miragrid GX130 Geogrid | Free from damages | Upon delivery on site | Suppliers Documentation | R | R |
|  |  | Green Terramesh or similar approved | As approved by the Engineer | Prior to placing order | Suppliers Documentation | R | R |
|  |  | Keystone Units | As approved by the Engineer | Prior to placing order | Suppliers Documentation | R | R |
|  |  | Granular Fill | As per WSP technical specification section 5.3.2 Pg 11 | Prior to placing order | Suppliers Documentation | R | R |
| **3.** | **Initial set out** | Survey | As per drawings and provided design model | Prior to subgrade preparation | Visual inspection | H | H |
| **4.** | **MSE Wall** | Subgrade Prep | Excavate to suit grade and slopes as per drawing and provided design model | Prior to placing Geotextile | Survey – As-built surface | H | R |
|  |  | Place Class C Geotextile | As per drawings and site specification. | Prior to placing drainage aggregate | Visual Inspection  Photos | R | R |
|  |  | 150mm thick 20/7 drainage metal or approved metal | As per drawings and site specification | Prior to placing Geogrid | Visual Inspection  Photos | H | R |
|  |  | Install subsoil drain | As per drawings and site specification | Prior to placing Subsequent lift works | Visual Inspection  Photos | H | W |
|  |  | Miragrid GX130 Geogrid | Placed in continuous strips, tensioned and anchored in place on level compacted fill as per IFC drawings | Prior to placing ea. Subsequent lift works | Visual Inspection  Photos | H | W |
|  |  | Green Terramesh Wall | As per IFC Drawings, site specification and manufacturers specification.  Void in face to be filled with Granular fill | Prior to placing ea. Subsequent lift works | Visual Inspection  Photos | H | W |
|  |  | Ea. 500mm GAP65 fill lift | Placed and compacted in layer – not exceeding 300mm layers | Prior to placing ea. Subsequent lift works | Test record sheet – as per requirement given below  Visual Inspection  As-built surface top of each finished lift | H | H |
|  | **Compaction Test** | NDM compaction test | MDD ≥ 95%  Minimum of 5 NDM tests to be carried out at ½ height and again at the top of the granular backfill.  As per WSP technical specification section 5.2.1 pg 11 | As directed by the Engineer | NDM test records | H | H |
| **5.** | **Retaining Wall** | Foundation works | Thoroughly Compacted granular fill foundation as per IFC drawings and site specification. | Prior to starting Subsequent works | Visual Inspections  Test as directed by the Engineer | H | W |
|  |  | Install keystone units | As per IFC drawing, site specification and manufacturers specification | During and Upon installation | Visual Inspection.  Suppliers’ documentation | H | W |
|  |  | Install 110mm subsoil drain | As per IFC drawings and specification | Prior to backfill drainage metal | Survey as built | H | R |
|  |  | 300mm wide approved free draining granular metal | Backfilled back of the retaining to the bottom of finished surface | Prior to prep for the concrete footpath | Visual Inspection | R | R |
| **7.** | **As-Built Plans** | Survey | As accepted by the Engineer | Upon completion of the works | As-built plans | H | R |

# INSPECTION & TEST PLAN (ITP)

The ITP defines the required inspections during various stages of fabrication, construction and installation work. It is also a method of communicating these requirements to those doing the work and a verifying record that they have been carried out.

The ITP defines 2 different levels of inspection according to the following criteria:

* **Internal Verification:** This inspection or verification activity is required internally by United Civil. A Designated Internal Authority- Project Manager, Supervisor, Foreman or other authorised person is determined for the given inspection point or verification activity. Where a signature required verification is notified by signing the designated check sheet.
* **Critical Hold Points:** These are ONLY inspections required by the contract. It requires the Foreman/ Supervisor or Subcontractors Representative to notify the United Civil Project Manager that the hold point stage of inspection has been reached. Fabrication shall not proceed past this point unless the inspection has been carried out or approval to proceed is given in writing & signed by the Engineer’s Representative.

The Engineer’s Representative shall sign the Check sheet.

A Contract Hold Point is a contractual requirement. Where the Engineer’s Rep has not signed or for whatever reason cannot sign the Hold Point off the Project Manager must signify verification by the Engineer by other means such email sign off or other formal correspondence and note as such on the ITP.