Headwall Installation Methodology

Project Name: Point of Entries - Larne

1. INTRODUCTION

The following has been prepared to give a methodology for the installation of the headwall at Larne Point of Entries.

2. DESCRIPTION OF THE CONSTRUCTION WORKS

2.1. Normal Working Hours

Normal site working hours shall be between 07.00 to 18.00 Monday to Friday. Whilst these are the standard site hours, it is possible weekend working may be required at varying times throughout the activities. Works may be carried out around low tide windows.

2.2. Normal Working Hours

Works are to be completed within a two-week period.

2.3. Predecessor Works

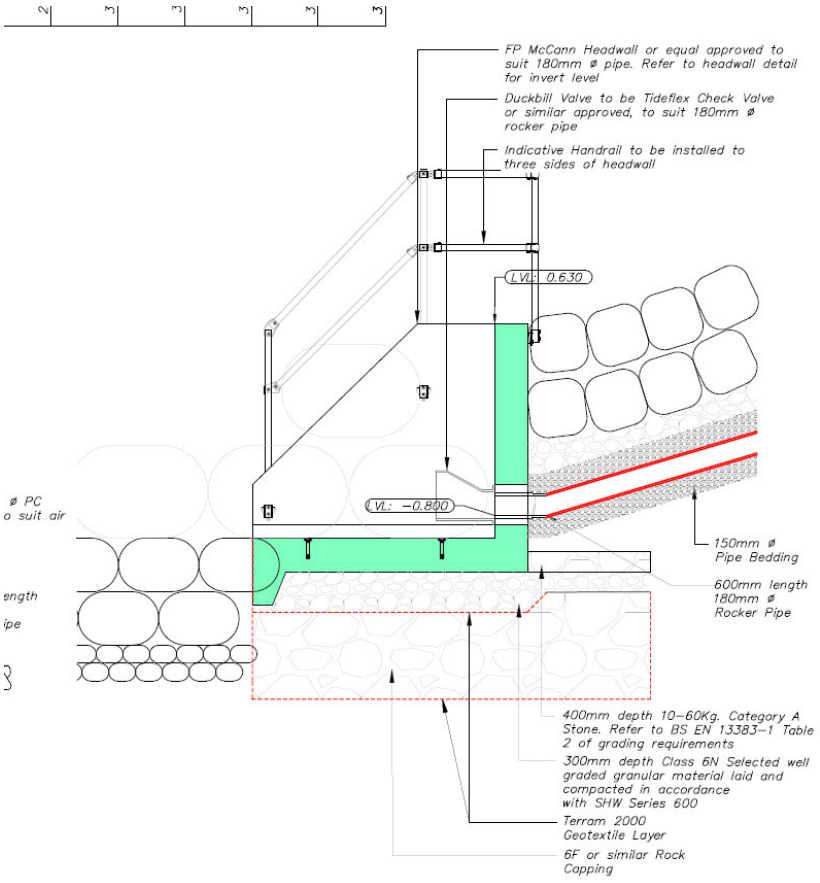
Prior to carrying out any of the works for the headwall, the pumping main from Larne PoE site and connecting manholes will be installed up to the last manhole located in the hard shoulder adjacent the headwall. This will allow the final connection and marine works to be carried out under one TM setup.

2.3. Site Clearance and CDM Area Set Up

Due to the proximity to the hard shoulder a lane closure will be required to be approved. A traffic management plan will be submitted and approved. The CDM Area will be set up in accordance with the traffic management plan. The existing rock armour will be removed using an excavator with a grab attachment. The rock armour will be stored in the CDM Area.

2.5. Installation of Headwall

The position of the headwall will be marked out and then the area will be excavated to formation level as per the construction drawings. The excavated material will be taken directly off site in lorries. The geotextile will be laid and the 6F capping will be placed and compacted in layers. The geotextile will then be wrapped up the outside of the capping. The 6N Material will be laid and compacted in layers. Due to the weight of the precast concrete headwall, it will be lifted into position using a crane. The crane will be set up on the hard shoulder and lift the headwall into position. Once the headwall is in position the levels will be checked and then the existing rock armour will be placed back into position using the excavator with the grab attachment. The duckbill check valve will be lifted into position using an excavator and installed. The drainage connected to the outlet of the headwall will not be in operation.


FP McCann Headwall or equal approved to suit 180mm ø pipe. Refer to headwall detail for invert level
Duckbill Valve to be Tideflex Check Valve or similar approved, to suit 180mm ø rocker pipe
Indicative Handrail to be installed to three sides of headwall
LVL: 0.630
LVL: -0.800
ø PC
o suit air
ength
ipe
150mm ø Pipe Bedding
600mm length 180mm ø Rocker Pipe
400mm depth 10-60Kg. Category A Stone. Refer to BS EN 13383-1 Table 2 of grading requirements
300mm depth Class 6N Selected well graded granular material laid and compacted in accordance with SHW Series 600
Terram 2000 Geotextile Layer
6F or similar Rock Capping