

**E.10/10 : DRAIN CLEANING**

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## **1. SCOPE**

This specification covers the work necessary for the cleaning and reshaping of all types of existing formation drains, excluding sub-surface filter drains.

## **2. INTERPRETATIONS**

### **2.1 SUPPORTING SPECIFICATIONS**

2.1.1 Where this specification is required for a project, the following specifications, shall, inter alia, form part of the contract documents:

- a) The E.10 Gen - General.
- b) The E.10/11 - Survey and setting out of track alignment and referencing.

2.1.2 In addition the following specifications, inter alia, may be required:

- a) The E.10/13 - Miscellaneous.

### **2.2 DEFINITIONS**

Void.

## **3. MATERIALS**

Void.

## **4. PLANT**

Void.

## **5. CONSTRUCTION**

### **5.1 GENERAL**

Void.

### **5.2 SAFETY**

Void.

### **5.3 PROGRAMME AND METHOD STATEMENT**

Void.

## **5.4 METHODS AND PROCEDURES**

- 5.4.1 Table drains shall be cleaned and trimmed to the sizes shown in the Project Specification.
- 5.4.2 No weed killer spray shall be used without the Engineer's authority.
- 5.4.3 The cross pipes in the ballast listed in the Project Specification shall be cleaned to allow water to flow freely.
- 5.4.4 The culverts listed in the Project Specification shall be cleaned including the portions between the wing walls and the inlet and outlet levels next to the culvert corrected where necessary to allow water to flow freely.
- 5.4.5 The fouling matter and excavated material shall be disposed of as directed by the Engineer and in the Project Specification.

## **5.5 STANDARDS**

The standards for drain cleaning are as specified in the Project Specification.

## **5.6 COMPLETION**

Void.

## **6. TOLERANCES**

The permissible deviations from the standards specified for drain cleaning are as specified in the Project Specification.

## **7. TESTING**

- 7.1 Testing will take the form of an inspection by the Engineer to ensure all work is done in accordance with the specification.

## **8. MEASUREMENT AND PAYMENT**

### **8.1 SCHEDULED ITEMS**

- 8.1.1 Clean and trim table drains .....Unit: m or km

Cleaning and trimming of table drains will be measured as the length of table drains cleared.

8.1.1.1 Separate items will be scheduled for the following:

- a) Each type of drain.
- b) Each shape and size of drain.
- c) Drains in tunnels and on bridges.

8.1.1.2 The rates tendered shall include for the following:

- a) Removing all vegetation, fouling matter and rubbish.
- b) Trimming earth drains to the sizes specified.

**8.1.2 Clean culverts .....Unit: m**

Cleaning of culverts will be measured as the length of culvert cleaned.

8.1.2.1 Separate items will be scheduled for the following:

- a) Different pipe diameters.
- b) Box/Portal culverts and sizes.

8.1.2.2 The rates tendered shall include for the following:

- a) Cleaning of culverts.
- b) Correcting inlet and outlet levels.

**8.1.3 Disposal of fouling matter and material excavated.....Unit: m<sup>3</sup>**

The volume of fouling matter disposed of an material excavated will be measured as specified in the Project Specification.

8.1.3.1 Separate items will be scheduled for the following:

- a) Removing material with wagons.
- b) Removing material with lorries.

8.1.3.2 The rates tendered shall include for the following:

- a) Loading of the material.
- b) Transporting it over the free haul distance.
- c) Offloading the material at the designated places.