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Leysdown Replacement Land Works

Neats Court Phase 1

Leysdown
Sheerness
Kent
U.K.

Report No: 1000/020/D02

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1. Introduction

This document provides an Outline Construction Specification for the Physical Works that form the Neats Court Phase 1 Replacement Land Environmental Works. It should be read in conjunction with Drawing No. 1000-020/C/600, 1000-020/C/601.

2. Parties and Roles

The scheme promoter is The South East England Development Agency (**SEEDA**), GCpartnership Ltd (**GCP**) is the Civil Engineering Consultant and Campbell Reith Hill LLP (**CRH**) is the Environmental Consultant. The **Contractor** is the term used to describe the works' constructor.

3. Overview and Scope of Works

The works comprise the following construction works:

- Ditch excavation to various profiles
- Excavation of rills (shallow ditches)
- Construction of vehicle crossing points
- Erection of fencing
- Erection of gates / stiles
- Construction of access trackways for maintenance and farm vehicles
- Construction of control structures / weirs (stop log weirs)
- Small scale earthworks

4. Drawings

Drawings 1000-020/C/600 show the overall nature of the works as described in point 3 above and the fields are referenced with a specific number. All proposed crossing points are referenced on the drawings as well as the ditches.

5. Ditch Excavation

New ditches are to be constructed up to a depth of 2.0m or as agreed with GCP, SEEDA's representative. The ditches vary in cross-sectional profile and invert level. Their shapes are shown on Drawing 1000-020/C/600. Some ditches are uniformly trapezoidal as shown on section 1-1 and others have an asymmetric profile as shown in section 2-2. The side slopes of the ditches vary from 1 horizontal step and 1 vertical step (1 in 1 = 45° to horizontal) to 3 horizontal steps and 1 vertical step (1 in 3 = 18.4° to horizontal).

Excavated sub soil, where appropriate to be used to raise the base of the new trackways Excavated topsoil or subsoil to be used to form the bank adjacent to the grip in section 2.2 (Drawing 000-020/C/600), or to be deposited on the reptiles area or as agreed with GCP, SEEDA's representative.

6. Excavation of Rills

Approximately 750m of shallow sinuous (curving) rills (or shallow ditches are required to be constructed in the locations shown on Drawing 100-020/C/600. The exact location and shape may be subject to variation during the excavation process. The Contractor is required to construct rills in the presence of Seeda's Representative.

The excavated material will be broken up and spread on the surface

7. Excavation of Grip

A shallow grip will be required parallel to, and east of, the ditch between fields 5541 and 8443. The excavated material will be used to form a low bank between the grip and the ditch.

8. RE reprofiling of ditches

Invasive plant species (including the water fern *Azolla filiculoides* and the Australian Swamp Stonecrop *Crassula helmsii*) shall be destroyed.

9. Construction of Vehicle crossing points

In various locations, vehicle crossing points are required to be provided across existing or proposed ditches. The construction comprises a suitably sized pipe (culvert) laid along the ditch with a concrete surround and the ditch filled-in along the width of the ditch with granular material. The trafficked section comprises high quality Type 1 granular stone. Both the ditch in-fill (Class 6F1) and the Type 1 stone are to be placed and compacted in the following manner:

- 8 passes over 110mm thick layer using a smooth wheeled roller > 5400kg

Or

- 16 passes over 110mm thick layer using a smooth wheeled roller 2700kg – 5400kg

Concrete designation GEN3 or a standardised prescribed concrete ST4 is to be used for the culvert.

10. Erection of fencing

The types of fencing required to be constructed is shown on Drawing 1000-020/C/600. Timber post and rail or timber post and barbed wire types are required as shown Drawing 1000-020/C/6001 detail 4. The foundation details for the posts is shown on detail 5 on Drawing 1000-020/C/601.

11. Erection of fencing

The types of gate required to be constructed is shown on Drawing 1000-020/C/600. Timber five bar gates or similar are required with pedestrian kissing are required. The foundation details for the posts is shown on details 6 and 7 on Drawing 1000-020/C/601

12. Construction of access trackways

New access tracks are to be constructed from the subsoil excavated from the new ditch in compliance with detail 3 on Drawing 1000-020/C/601. 400mm of granular 6F1 material is required to be placed and compacted in either an excavation or placed upon the existing ground should conditions dictate. Alternately a base of crushed concrete covered by type 1 or tarmac chippings may be used. The exact circumstances are to be discussed with SEEDA's Representative GCP.

13. Construction of water control structures (Stop log weirs)

Stop log weirs are to be constructed at locations shown on drawing 1000-020/C/600 to the the desing shon in detail 1 of Drawing1000-020/C/601. The weirs comprise a concrete base and surround with steel channels set and fixed into the vertical walls. The weirs vary in size.

The typical constructed shape is shown on plan and elevation on Drawing1000-020/C/601 High grade timber members (of marine grade Douglas Fire-Larch C24 tantalised timber) form the weir boards and are to be slotted into the channels as shown on detail 1 of Drawing1000-020/C/601.

14. Small scale earthworks

Excess earth following ditch excavations and regrading of the existing earth mounds is to be placed in locations as shown on drawing 1000-020/C/600. These arrears are to be approximately 2.0 m tall and graded into the existing landscape, as appropriate.

15. Informatives

- a. Revegetation of the land including the ditches ands rills will be undertaken by the new landowners management organisation
- b. The drawings and specification are subject to the formal approval and requirements by the Lower Medway Internal Drainage Board, which is currently being sought.
- c. The connection of the drainage, at the location of stop log weirs numbered 7 and 8, with that of the landowner National Nature Reserve is the subject of further discussions to be held with Natural England and their management organisation.
- d. Locations and measurements to be confirmed on site in agreement with GCP SEEDA's representative