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Specification for the Phase 1. Groundworks Dracaena Avenue Falmouth

Applicant: Falmouth Town Council

Project: Phase 1. Groundworks, in preparation for the skatepark Falmouth

Location: Dracaena Centre, The Playing Field, Dracaena Avenue,
Falmouth, TR11 2ES

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1. Introduction

- I. The project to create a Skatepark and improve the infrastructure will be separated into 3 Phases. Phase 1. Groundworks and drainage, Phase 2. Skatepark, Phase 3. Infrastructure. This specification is for Phase 1 of the work.
- II. The intention is to prepare the area as marked on provided drawings so that the Falmouth skatepark designed by Maverick Industries can be installed.
- III. Please make yourself familiar with the constraints of the site.
- IV. The Site was in the past a site a landfill site with a clay seal. Several investigations have been carried out which make it save to carry out work.
- V. The work received Planning approval under PA21/07661.
- VI. Using the existing ground stored on the site and raise the site for the skatepark will raise the skatepark and services further of the ground. The site itself has been covered with a layer of clay.
- VII. There are services on the site on to be more precise for this work on the perimeter. In order to keep away from the services the area to be prepared should be precisely marked.
- VIII. There is frequent traffic during the day with visitors for the Dracaena Centre and the fields. But also the roads and fields are access from the Dracaena Avenue to the residential areas behind. It is important to make sure that the site is protected and any movements of machinery as well as material on and off site is executed to comply with current CDM regulations.
- IX. There is existing ground stored on site. This ground is 3 different classes of ground. Please see drawings. Only the middle part and largest amount is suitable for being used under the skatepark. Please let us know if there is a concern about the quality of the ground.
- X. Any work is to be carried out to comply with current guiders and regulations to carry out ground work. This includes soil management, stripping and storing of soils and compacting ground and installing membranes.
- XI. Please see all information and if there is any queries please ask Simon Penna from the Falmouth Town Council.

2. Health and Safety and Welfare

- I. Under the Construction Design and Management Regulations 2015(CDM Regs), Falmouth Town Council are the client who will have overall responsibility for H/S for the Phase 1. Groundworks project. Simon Penna as the Responsible Officer will oversee the contractor's operations on behalf of the client. Prior to the contractor commencing work the contractor must demonstrate through certification/experience that all their staff are competent to undertake their appointed tasks. A risk assessment and method statement will be provided in advance to the Responsible Officer for the tasks to be undertaken; COSHH assessments and correct storage will be required for any hazardous substances to be used by the contractor. Site signage informing both the public and operatives of hazards and responsibilities will be erected in locations agreed with the Responsible Officer.
- II. The site is an encapsulated landfill with a clay seal, so a geo technical survey was undertaken which has identified that there is not considered to be a risk to future site end users from any chemical contaminants. However, asbestos containing materials have been identified within the made ground soils which are at a greater depth than the contractor will be stripping topsoil. Constructors working within these soils will likely be at risk from exposure to site soils via dermal contact, inhalation and ingestion. Suitable PPE must be provided to all personnel working within this ground. Construction workers should adhere to good site management, good standards of hygiene and appropriate health & safety on site, with personal protection equipment (PPE) and dust suppression where appropriate. Neighbouring site occupants and passers-by can be protected by site screening and dust suppression measures if deemed necessary. Contractors should provide method statements and risk assessment to deal with this particular risk. If during development works any other unexpected ground conditions or evidence of contamination is found, works should pause and this should be reported without delay to the Responsible Officer.
- III. It is anticipated that the successful contractor will be a sole contractor with no other organisations working within the work site; the contractor will have responsibilities under the H/S at work act 1974 and CDM

Regulations for the duration of the works on site. The contractor will appoint their own representative responsible for H/S who will liaise with the client's responsible Officer. The site will require segregation either through mechanical or supervision or a combination of both of the works area with relevant signage to ensure the public and operatives are protected and informed.

- IV. First the exact location of the area needs to be identified and set out. The reason are existing services and to keep distances to those services.
- V. A health and a safety plan and fencing are required to manage the traffic and keep visitors on and off the site safe. As mentioned above Simon Penna from the Falmouth Town Council will collaborate with you to ensure that this will suit this project and location.
- VI. Part of the area to be prepared for the skatepark is covered by existing ground stored on site. Almost all of this ground is actually spoil and should be moved to another location and not mixed with the other ground on site.
- VII. Welfare facilities for the construction team are in the dracaena centre. As the duration of the works is anticipated to be relatively short term the contractor is permitted to use the welfare facilities of the neighbouring Dracaena Centre.

2. Treatment of the Site

- I. The area which should be prepared for the skatepark has an area of 2340m².
- II. The ground beneath the proposed new and skatepark has been investigated and landfill identified in TT1, starting at a depth of 0.15m. The installation procedure for a geo-textile membrane requires that, before placement:
 - III. "the area should be cleared of any large angular objects, such as stones and tree stumps, while ruts and undulations in excess of 100mm should be levelled...
...other surface vegetation can be left undisturbed to provide additional support, if this is allowable and not detrimental to the structure..." In order to minimise the risks from exposed contaminants, it is recommended the geo textile work area. If this is not practicable, provision must be made to restrict access to the works area until the surface is laid. It is recommended that any 'sharps – 'glass, metal, ceramics - or large pieces of landfill uncovered during levelling be removed and disposed of to a suitably licensed facility using a dedicated container (i.e. skip or similar).
- IV. The existing top soil which is ca 200 is to be removed and relocated. Allow for an additional position of excavating additional 100mm of topsoil. We think that 200mm is the maximum before the clay lid of the landfill starts. This needs to be checked and agreed on site. The area requires to be reasonable level for the next step of installing a geo-textile-membrane
- V. A geo-textile membrane is to be installed. This makes sense to make sure the existing ground and new ground are separated. However we consider a membrane also offering reinforcement such as a Lotrak® 25R might be a better investment and reassurance the skatepark will be free of movements. This membrane must be suitable for the location and the use. We suggest the minimum is a T1000 membrane. This item is to be agreed with the contractor as availability and cost may make the decision. Can any interested contractor give a cost for using a Terram T1000, a Terram T3000 and Lotrak® 25R please.
- VI. 200mm of compacted 803 Type 1 hardcore aggregate is to be installed on top of the membrane. This should ensure the membrane is protected and also the hardcore is an indicator of a change of ground.
- VII. Existing ground from the middle pile should be used and installed in layers of 200mm compacted with a Sheep Foot compactor.
- VIII. The expected hight of the ground is 45.50m OS level. If required a datum level will be set up with in the existing site. Best for this is the existing basketball tarmac area which has not been changed since the last topographic survey.
- IX. If there are any queries please let us know.

9. Summary

- I. Please read the specification together with the drawings.
- II. Some of the information provided are relevant for all work and work which is planned for the future. We understand that including all involved in a project about the outcome of this project which will happen in phases provides better collaboration. We are also open for any suggestions.
- III. If there are any queries please let us know.