Construction Method Plan

In support of Planning Application

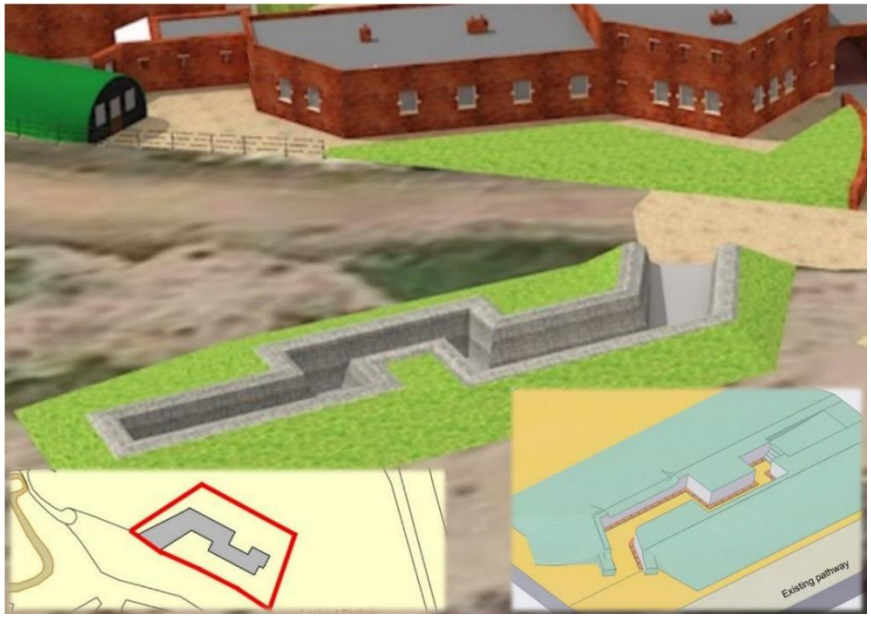
November 2019

For

WWI Memorial Training Trench Project

Friends of Shoreham Fort

TQ233045~TQ233046



Site address: Shoreham Fort, Fort Haven, Shoreham by Sea, West Sussex, BN43 5HY

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1 Introduction

This construction method plan has been prepared in support of the planning application for a WWI Memorial Training Trench Project that is partially funded by Heritage Lottery and Adur District Council.

2 Description and Location

The area in question is located near the entrance to Shoreham Harbour, overlooking the River Adur and is outside the Scheduled Monument and Local Nature Reserve (LNR) boundaries but does lie within a designated Local Wildlife Site (LWS). The area has been greatly disturbed and immensely compacted by recent ground works due to the Environment Agency's Tidal Wall Scheme. Shoreham Fort is owned by Shoreham Port Authority (SPA) and cared for by the charity Friends of Shoreham Fort (FoSF) Regn no 1147869. SPA submitted the planning application on behalf of FoSF, as landowners.



Site location



Trench Location

3 Scope of the Works

The proposed works is to build a raised (box) trench which will not only enhance the education of the site, it will be a lasting memorial to the thousands of men trained in Shoreham and will be accessible by all. The construction of the trench is not one that is dug into the ground but one that is raised to create bunds, similar to those already surrounding the car park at Shoreham Fort. These bunds will not be grass seeded but will be planted with species native to the vegetative shingle habitat, creating ecological net gain to the trench area. Soil will be needed but this will be kept to a minimum and will not be imported topsoil.

Friends of Shoreham Fort will seek advise from the Friends of Shoreham Beach with regards to the sourcing of seeds/transplants, when they have reached the landscaping element of this project.

The construction of this trench will not cause further compaction to the surrounding beach area by use of heavy machinery.

4 General Considerations

4a Site Access & Security

Site access and security will be provided, to ensure that works that are being undertaken are segregated from public access. Designated volunteers will be responsible for providing security and controlling access to the site. Vehicles accessing the site will be marshalled and all drivers will be made aware of the Scheduled Monument and Local Wildlife Site designations of the area. Pedestrian access to the construction area will be restricted during construction. Access gates will be closed and locked when not in use.

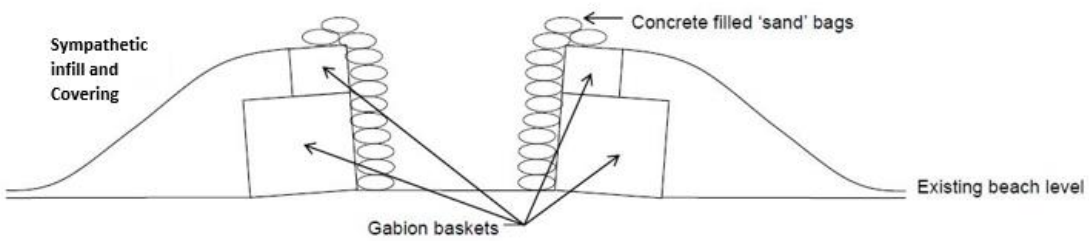
4b Access for Deliveries

The site is off Fort Haven at the end of Shoreham Beach. Pre-booked deliveries will be made when the volunteers are on site to receive them. Access will be via the existing gate to the west of the site or through the new FoSF access via the car park (if completed). There are designated routes to specified delivery points.

4c Welfare

There are council run toilets situated on site. Volunteers will be made aware of water point and refreshment making facilities are available on site.

Trench build diagram



5 Delivering the Project and Phasing of the Works

5a Preparation

- The area will be scraped, levelling the beach, to provide a flat base to build the trench upwards.
- Area to be marked out giving clear indication of Gabion Basket positions

5b Construction

- Place 1m x 1m x 1m baskets
  Gabion baskets to be positioned at an outward angle, measuring at regular intervals before being secured together
- In fill baskets in situ
  Baskets to be lined and filled with suitable materials
- Place 50cm x 50cm x 1m baskets
- Gabion baskets to be positioned at an outward angle, measuring at regular intervals before being secured together and secured to lower level basket
- In fill baskets in situ
  Baskets to be lined and filled with suitable materials
- Fill sandbags
  A dry sand/cement mixture will be made. Uniform quantities will used to fill sandbags.
- Place sandbags and reinforcement
  Sandbags will be placed in a stretcher bond format and reinforced at intervals using bespoke Rebar fastenings

- Landscaping
  The external edges of the trench system will be sloped, in a similar style to the existing car park bunds, using materials from around the site that are being excavated during works at Shoreham Fort, in line with Scheduled Monument Consents. Advice will be sought from Dr Jacky Woolcock, Friends of Shoreham Beach, regarding ground cover of sloped areas of the trench

- Slope disabled access
  Once the main structure has been constructed and completed the access area will be made wheelchair accessible

- Duckboards
  As a final element to the trench experience concrete duckboards will be fabricated in situ

5c Clear up

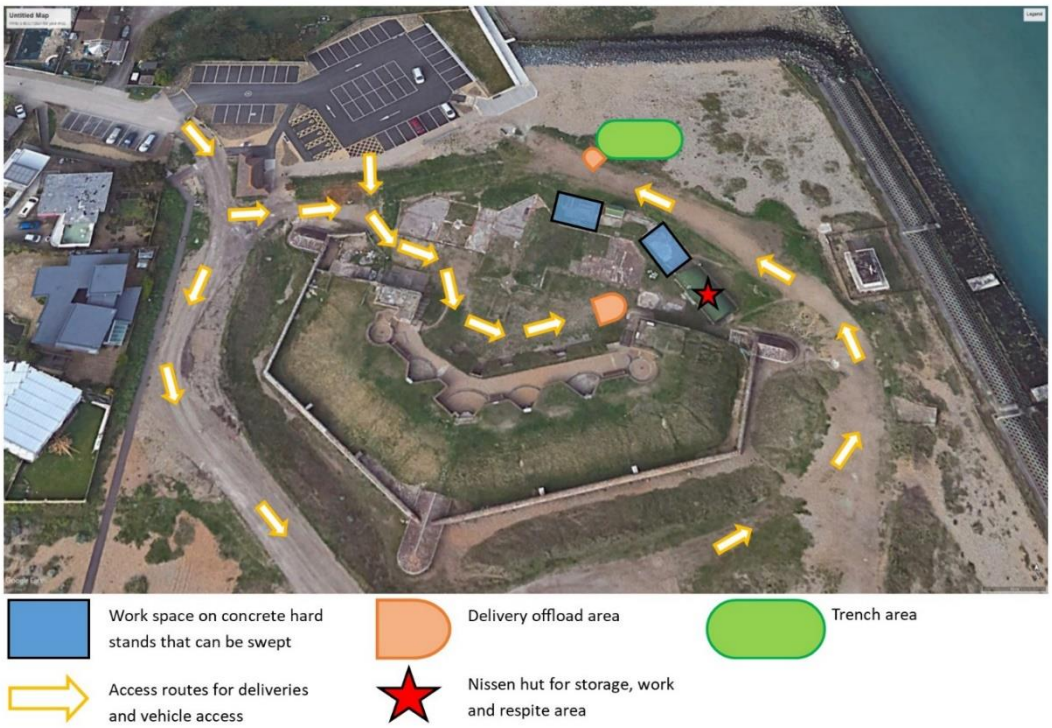
- Area to be left clean and tidy and clear of all waste construction materials

The works on site will be coordinated and sequenced to ensure efficient construction, minimising disruption.

6 Specific Site Safety Arrangements

6a Delivery and distribution of materials

All deliveries will be coordinated by the Friends of Shoreham Fort who will ensure that all drivers are made aware of the Scheduled Monument and Local Wildlife Site designations and the restrictions on site and surrounding area.
Materials will be stored neatly on site in specified areas. Material deliveries will be phased to suit the progress of works on trench.
Materials delivered near trench location will be kept to a minimum.



6b Waste Material

Waste packing materials will be segregated into waste types and disposed of responsibly. Waste packing materials will be recycled where possible.

6c Construction Phase Ecological Considerations

Any displaced spoil from excavations at Shoreham Fort, in line with Scheduled Monument Consents, has/will be saved for use in the infill and landscaping. By making sure that only soil from the fort area is used it safeguards native plants and ensures that non-native/invasive plants are not introduced into the trench area from outside sources. The immediate area of the trench site will have non-native/invasive plants removed during construction and disposed of correctly, after taking advice from Friends of Shoreham Beach. It is hoped that the majority of the construction work will be completed before growing season of the Local Wildlife Site commences therefore ensuring any impact to the ecology of that area is minimised.

6d PPE

Volunteers will be given a Hi-Visibility Vest and gloves and be expected to wear them at all times. Safety goggles and masks will be available, if the task undertaken requires them. Volunteers will be advised to wear suitable footwear.

7 Potential Net Gain

- Enhanced habitat for invertebrates in trench walls
- Enhanced habitat for vegetated shingle species in trench landscaping
- Reduction of non-native/invasive vegetation in trench area
- Shoreham Port Authority will endeavour to manage the LWS to ensure no further compaction of the shingle and that no non-native/invasive plants are introduced

8 Health & Safety principles and objectives for this project

- All volunteers will be made aware of who the first aider is for that day
- Manual Handling advice will be given at the start of the day
- Appropriate signs and suitable temporary perimeter safety fencing will be maintained throughout the project
- The main aim is to ensure that every volunteer goes home safe