



CONSULTING CIVIL & STRUCTURAL ENGINEERS

DESIGN INFORMATION SHEET

Project:
BONNINGSTEDT WALL
SEAFORD

Project.
No.
18339

General Description	SEA DEFENCE WALL
Client	SEAFORD TOWN COUNCIL
Architect	CHALLWORTH HALL
Quantity Surveyor	
Services Consultant	
Checking Authority	
Relevant Building Regulations	
Fire resistance Requirements	
General Loading Conditions (Superimposed)	PUBLIC
Wind Loading Conditions	
Special Conditions	
Relevant Design Codes	STEEL BS449
Type of Superstructure	
Material Stresses	
Sub-soil Conditions + Report by	
Type of Foundations	
Computer Programs	

CONSTRUCTION PROPOSALS AND HEALTH & SAFETY STATEMENT

JOB REF: 18339

PROJECT: BONNWGSTEDT WALL

DATE: JUNE 2019

PROPOSALS: SEA DEFENCE WALL

HEALTH & SAFETY STATEMENT

The nature and duration of the proposed works at the site listed above are such that the Construction (Design and Management) Regulations 2015 may be applicable. If so the Client is obliged to appoint a suitably experienced and qualified Principal Designer plus a suitably experienced Principal Contractor, and shall endeavour to have a Health and Safety Plan in place and implemented prior to work commencing on site. If applicable the HSE should be notified by the Client, Principal Designer or Principal Contractor before works commence.

The implementation of the works outlined above and detailed in the design calculations, drawings and sketches involve activities which are likely to present hazards. During the design stage a number of these hazards have been noted and examples of control considerations have been developed. These are demonstrated on the attached Risk Analysis forms.

It is the responsibility of the Contractor to familiarise himself with these hazards and while preparing a tender give consideration to all the hazards that may be encountered during the course of the works.

Prior to commencement of work the Principal Contractor will be required to provide the Client and/or HTP and/or the Principal Designer with a Method Statement outlining the safe methods of work that will be undertaken to mitigate these hazards, or minimise so far as is practicable the risk of their occurrence.

The Client is obliged to notify all Consultants and Contractors of all known hazards on site and any other information which could affect or disrupt the building work.

Notwithstanding any information given in this Health and Safety Statement, all work on site must be carried out strictly in accordance with good/safe building practice and all relevant statutory requirements.

It is the main or Principal Contractor's responsibility to ensure that all site personnel and all sub-contractors are fully aware of the Health and Safety Statement and the contents of the Risk Analysis.

RISK ANALYSIS SHEET (HEALTH AND SAFETY PLAN)

JOB REF: 18339

SHEET NO: 1

PROJECT: BONNINGSTEAD WALL

CLIENT: SEAFORD TOWN COUNCIL

PRINCIPAL DESIGNER: (if known)

PRINCIPAL CONTRACTOR: (if known)

DATE: JUNE 2019

HAZARD IDENTITY AND CONTROL CONSIDERATIONS

Excavation

Particular risks include falls and collapse

Provide and maintain all necessary barriers and notices before, during and after excavation. Exclude personnel from excavations unless adequate shoring and safety precautions have been carried out.

Provide Method Statement to Principal Designer and HTP for any proposed work by personnel in excavations deeper than 1.5m.

Sides of excavation to be battered to a safe angle where fill material is unstable or allow for full height trench sheeting. Beware of buried obstructions.

Ensure all statutory authorities are contacted to obtain record drawings of existing services.

Check with local residents/employees for knowledge of known services.

Hand dig carefully where services are known to exist, in case record drawings are inaccurate.

Allow for de-watering from sumps as necessary if high ground water levels are encountered.

Consider possible effects of carbon dioxide poisoning if excavating into chalk.

Exposure to Substances Hazardous to Health

Particular risks include concrete, asbestos, lead, lead paint, bird guano, mortar, plaster, rubbish removal etc.

Appropriate personnel protective equipment to be used for all operations involving hazardous substances.

Provide Method Statement to Principal Designer and HTP for removal and/or protection where hazardous materials are known to exist or are discovered during the contracts. Notify the Principal Designer immediately if any hazardous materials are discovered during the work.

Ensure adequate ventilation and appropriate masks are available to be used at all times. Consider extraction if necessary to deal with dust in confined spaces.

Consider possible contamination of ground/ground water.

Injury to Public

Suitable safety fence to be constructed around the perimeter of the work area.

Contractor to provide and maintain appropriate signage at the site perimeter alerting the public to the risks involved in construction.

Appropriate steps must be taken to prevent public access to the site area.

Ensure all vehicle movements on and around the site are adequately supervised.

Injury to Site Personnel

Particular risks include manual lifting, operation of plant and machinery etc.

All site operatives should be made aware of daily operations and of particular risks.

Hard hats and high visibility clothing and protective footwear must be worn at all times.

Comply with regulations regarding manual lifting of large, heavy or awkward objects with particular regard to steelwork, trusses, lintels, blockwork etc.

Be instructed in the correct procedures/use of equipment.

All other suitable protective equipment, i.e. eye protection, gloves etc., should be worn (in accordance with current legislation) during all work.

Temporary Works

Contractor to provide Method Statement to Principal Designer and HTP for proposed temporary works where support is required to any part of the existing or new structure.

Fire

All procedures involving heat must be accompanied with appropriate fire fighting methods.

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STEELWORK (To BS 449)

- A. All steelwork shall be Grade 43 unless noted otherwise on the drawings or calculations.
- B. All connections shall be bolted together using Grade 43 strength Grade 8.8 bolts unless otherwise noted on the drawings or calculations.
- C. The steelwork shall be thoroughly cleaned either by shot blasting or mechanical wire brushing until all loose rust and scale has been removed. 1 No. coat of approved high build primer shall be applied prior to leaving the works and all paintwork shall be applied in accordance with the paint supplier's specification. On completion of erection all damaged areas shall be cleaned and re-painted. All bolted areas shall be painted on completion of tightening.
- D. Finishing coats of paint, if required, shall be compatible with the primer and applied in accordance with the paint supplier's specification.
- E. Steelwork, which is to be encased in concrete, (50mm cover), shall be left unpainted. Prior to casing, steelwork shall be wire brushed to remove loose rust.
- F. During re-construction work, where existing steelwork is exposed and found to be corroded, all loose rust shall be chipped off and the exposed surfaces painted with a lead based paint. High build primers do not readily adhere to rusted surfaces and must not be used.
- G. Any existing steelwork exposed that is severely corroded, shall be reported to the consultant immediately.
- H. All welding shall be carried out in accordance with up to date relevant Codes. The Engineer may require the welder to produce evidence of having satisfactorily completed appropriate tests as described in chap. 6 of BS 449 or equivalent approved test certificate.
- I. All welds carried out on site shall be checked by an approved test method.