

NEC3 engineering and construction contract (ECC) Works Information

Project / Contract information

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| Project Name | Isles of Scilly Dune & Flood Defence Scheme- Porth Hellick |
| Project Reference | Adaptive Scilly |
| Contract Reference | CloS to advise |
| Date | 20 February 2021 |
| Version Number | F1 |
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Revision history

| Revision date | Summary of changes | Version number |
|---------------|--------------------|----------------|
| 09-04-2019 | First Issue | P1 |
| 20-02-2021 | Final Issue | F1 |
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**Cyfoeth
Naturiol
Cymru
Natural
Resources
Wales**

Part 2: Non-returnable Documents

NEC – ECC 3rd Ed.

Works Information

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**APPENDIX A: EMPLOYER'S MINIMUM TECHNICAL REQUIREMENTS:
EA MTR**

APPENDIX B: WORKS SPECIFICATION

Definitions List

| Term | Description |
|--------|---|
| CESWI | Civil Engineering Specification for the Water Industry, 7th Edition |
| EA MTR | Environment Agency Minimum Technical Requirements |
| SHW | Specification for Highway Works |

Preamble

This Works Information describe and specify the *works*. For details of the technical standards and the list of drawings used see **WI 2000**, *Employer's work specification*.

WI 100 Description of the works

WI 101 Project objectives

1. The project objectives are:

To reduce saline intrusion into the Higher Moors Pool, by closing potential flow paths and raising the crest along low sections by recharging the dune and securing it with planted vegetation.

WI 102 Dune Recharge

1. The dune shall be recharged with granite that matches the type and colour found in the Isles of Scilly, namely Cornish Granite. The granite shall be quarried from one of the igneous batholith intrusions found in Cornwall or Devon. Any other sources of granite shall be approved before use by the *Project Manager*.
2. The granite grading shall be 1-5mm.
3. The new dune material shall overlay the existing grassed areas and the Hottentot Fig where indicated on Figure 2 of the MS-CE-0561-P2 document in both yellow and orange outlining. For the avoidance of doubt, this includes underneath the proposed boardwalk at the west of the beach. The existing Hottentot Fig shall be replaced with the over-seeding mix (see 8) where it has been removed.
4. The dune recharge shall have a minimum crest finish level of 5.0m AOD at the coordinates shown on drawing UA008878-ARC-XX-XX-DR-CE-0502-S2-P3 and a volume of about 276 m³. At this location the crest shall be a minimum of 1m wide and the material shall slope from the crest at a gradient of 1 in 6, to match the existing dune profile. In other parts of the dune, the dune recharge shall have a minimum crest finish level consistent with the dune levels surrounding the gaps.
5. The recharged dune shall be overlaid with a biodegrade coir matting – Salix Coconet 800 or similar approved. The matting shall be laid and overlapped using the manufacturer's 'Shoreline Installation' guidance and shall be pinned in position with 500mm length Salix T-

pegs averaging 3 pegs per metre squared. See Works Specification, Appendix B for manufacturer's guidance.

6. The matting shall extend a minimum of 1m from the extent of the newly laid dune material and shall terminate in a trench detail. See drawing UA008878-ARC-XX-XX-DR-CE-0521-S2-P3.
7. The matting shall be overlaid with 50mm of topsoil and seeded with grass seed mixture 4, to clause 2.56, point 1.
8. The matting shall be planted with over-seeding with a bespoke wildflower mix of maritime grassland wildflowers including Thrift (*Armeria maritima*), Sea Plantain (*Plantago maritima*), Lady's Bedstraw (*Galium verum*), Hare's-foot Clover (*Trifolium arvense*), Bird's foot trefoil (*Lotus corniculatus*) and Sea Campion (*Silene uniflora*) in a 4m wide planting strip along the crest of the newly raised dune. The 4m wide strip shall be planted with an approximate coverage of 2m each side of the crest centre line i.e. an equal coverage to front and rear face of the dune. The matting shall be cut in a T-shape to allow the plant roots to be bedding into the dune.

WI 103 Dune Vehicle Ramp

1. A beach access ramp shall be created through the newly raised dune. The ramp extents are shown by the coordinates on drawing UA008878-ARC-XX-XX-DR-CE-0502-S2-P3. The ramp design is shown in drawing UA008878-ARC-XX-XX-DR-CE-0520-S2-P3.
2. Geosynthetics Ekotek 10 geotextile or similar approved shall be laid to provide a formation layer to the ramp core.
3. The ramp core shall be formed from Strata Web 200 infilled with the dune recharge material: 1-5mm Cornish Granite. Note, the volume of dune recharge material required for the ramp core has not been included in the volume noted in WI102 (4) above. The width of the core shall be 10 Strata web cells wide. This requires two standard 8 cell wide mats to be cut down to make the required width. The Strata web shall be opened and J-pinned in position as per the manufacturer's recommendations. See Works Specification for details.
4. Under the ramp crest, the Strata Web shall be laid in three layers. Under the ramp slopes, it shall be laid in two layers. The Ekotex 10 shall encase the sides of Strata Web cells and be tucked under Dycel blocks by 600mm
5. The formation layer to the ramp surface shall be Geosynthetics Ekotex 30. It shall over lay the full width of the ramp and tuck under the edge beams.
6. The ramp surface shall be formed from hand laid Dycel 150 blocks and shall form a 2.92m wide surface i.e. 6 full blocks assuming an 8mm gap between the internal blocks.
7. The blocks shall be threaded together on site with 8mm stainless steel wire rope to grade 316L. The cable ends shall be looped and swaged with copper ferrules. The loops lengths to suit position of the termination bar
8. A 500mm x 500mm anchor block shall be formed at each end of the ramp. It shall be formed of RC20/25 mass concrete. The anchor block shall have a 20mm diameter stainless steel bar (grade 316L) at its centre to terminate the mattress loops around.
9. The ramp shall have edge beams cast along the full length of the ramp in RC 20 concrete. The top level of the beams shall match the ramp surface so that the depth of the ramp is

approximately 750mm at its centre where there are 3 layers of Strata Web and will reduce to approximately 550mm where two layers of Strata Web are used.

WI 104 Approach track to dune vehicle ramp

1. The approach track shall be 3m wide and set-out to the coordinates shown on the drawings. The track shall over lay the dune ramp and terminate as close as is practicable.
2. The track shall be formed from a compacted 300mm layer of Type 1 (Clause 803, SHW), underlain with a Terram 1000 geotextile or similar approved.
3. The track edge shall be finished with 25x300mm tannalised timber boards.

WI 105 Elevated boardwalk

1. The elevated boardwalk will be elevated about 100 mm above the existing beach surface. The approach track shall be 3m wide and set-out to the plan shown on the drawing DR-CE-0501-S2-P2 in the position at the western end of the dune renourishment between set-out points 8 and 9 in drawing UA008878-ARC-XX-XX-DR-CE-0500-S2-P3.
2. Although the design drawing DR-CE-0501-S2-P2 states the boardwalk shall be constructed of "FCS certified structural grade green oak", the material that may be used could be plastic boardwalk as currently used by the Isles of Scilly Wildlife Trust (<https://www.ios-wildlifetrust.org.uk/recycled-plastic-boardwalk>) and manufactured by Filcris (www.filcris.co.uk). This will be confirmed by the *Employer* prior to construction.
3. The design drawing of the boardwalk is amended by making the width of the boardwalk 2.5 m.
4. The boardwalk design is also amended by making the materials suitable for bearing the weight of a horse at walking pace. See the guide on 'Surfaces' at [Free Leaflets | British Horse Society \(bhs.org.uk\)](http://Free Leaflets | British Horse Society (bhs.org.uk)) for details on design standards.

WI 107 Concrete

1. See BS 8500-1: 2015+A1:2016 designated concrete mix details. A summary of the details is as follows:

Table A.15 Summary of requirements for designated concretes^{A)}

| Concrete designation | Min. strength class | De-fault slump class | Max. w/c ratio | Min. cement or combination content (kg/m ³) for 20 mm max. aggregate size | Cement and combination types |
|----------------------|---------------------|----------------------|----------------|---|---|
| GEN0 | C6/8 | S3 | — | 120 | CEM I, IIA, IIB-S, IIB-V, IIIA, IVB-V |
| GEN1 | C8/10 | S3 | — | 180 | CEM I, IIA, IIB-S, IIB-V, IIIA, IVB-V |
| GEN2 | C12/15 | S3 | — | 200 | CEM I, IIA, IIB-S, IIB-V, IIIA, IVB-V |
| GEN3 | C16/20 | S3 | — | 220 | CEM I, IIA, IIB-S, IIB-V, IIIA, IVB-V |
| RC20/25 | C20/25 | S3 | 0.70 | 240 | CEM I, IIA, IIB-S, IIB-V, IIIA, IVB-V |
| RC25/30 | C25/30 | S3 | 0.65 | 260 | CEM I, IIA, IIB-S, IIB-V, IIIA, IVB-V ^{B)} |
| RC28/35 | C28/35 | S3 | 0.60 | 280 | CEM I, IIA, IIB-S, IIB-V, IIIA, IVB-V ^{B)} |
| RC30/37 | C30/37 | S3 | 0.55 | 300 | CEM I, IIA, IIB-S, IIB-V, IIIA, IVB-V ^{B)} |

WI 200 General constraints on how the *Contractor* provides the works

WI 201 General constraints

1. The *Contractor* shall comply with the following constraints in addition to those identified in the CESWI & EA Minimum Technical Requirements.
2. The *Contractor* shall comply with the constraints and measures identified in the Construction Environment Management Plan (CEMP)
3. The *Contractor* is required to undertake a pre & post level survey of the proposed dune recharge area. See 1.8, EA MTR, point 3 & Works Specification, point 4 for details.

WI 202 Site Access

1. A nesting bird check must be carried out by the *Contractor* prior to works commencing
2. Access to site by vehicle is via an unsurfaced track from Carn Friars Lane. Pedestrian access is also available through Higher Moors SSSI. See Site Information for further details: UA008878-ARC-XX-XX-SP-CE-0803
3. Access must be by unvegetated tracks wherever possible

WI 203 Working Area

1. The *Contractor's* working area and compound is indicated on drawing UA008878-ARC-XX-XX-DR-CE-0500.
2. If the *Contractor* wishes to modify these areas, he shall obtain written permission from the *Project Manager*.
3. The working area must be clearly demarcated

WI 204 Parking

1. The *Contractor* shall provide adequate parking for site-based personnel and visitors within the compound area. No parking is allowed outside of this area, unless permission is obtained from the *Project Manager*.

WI 205 Working Hours

1. No additional constraints to 1.27 EA MTR in terms of local limits on working hours.

WI 206 Operational constraints

1. The working area boundary is shown above the Mean High-Water Spring (MHWS) level. The Contractor should note that this is a still water level and the working area will be subject to wave action during unsettled periods. The contractor is required to plan works around tide times and to monitor weather forecasts/conditions to make sure that the risk to staff and machinery is kept to a minimum and managed in accordance with the latest H&S legislation.

WI 208 Existing services

1. All known services information is included within the Site Information. Prior to carrying out the works the *Contractor* is to independently verify the location of all known services, and actively search for any previously unidentified services prior to carrying out any intrusive ground works.
2. The *Contractor* shall undertake all discussions with Utility Companies to gain the required permissions for the works on or around services.

WI 209 Ground conditions

1. No specific ground investigation has been undertaken. The beach material is described in the Site Information.

WI 210 Permanent Access

1. Porth Hellick beach shall remain open to public via the footpath shown at the western end of the beach. See drawing UA008878-ARC-XX-XX-DR-CE-0500.
2. The owner of an existing boat shed adjacent to the proposed dune recharge may require access to it during the course of the works. The Contractor should facilitate convenient and safe access to it when it is practicable to do so.

WI 211 Storage of fuel and chemicals

1. No additional constraints to those identified in the MTR

WI 212 Pollution, ecological and environmental impacts

1. Debris burning shall not be permitted under any circumstances.
2. Works shall follow best practice guidance for pollution control. All materials, including machinery, shall be securely stored in the site compound when not in use. Staff shall be appropriately trained on how to use spill kits correctly. Small plant (including generators) shall be placed within drip-trays or over plant nappies.
3. Detailed construction method statements will be prepared following Institute of Air Quality Management (IAQM) guidelines on dust management for medium risk-sites.
4. Out of hours works will be avoided wherever reasonably practicable.
5. Noise impacts will be minimised by adherence to measures described in BS 5228, to reduce noise impacts from construction by 5dB to 15dB.
6. Detailed construction method statements will be prepared following Institute of Lighting Practitioners (ILP) guidance. Note, it is required that that no light is projected onto Porth Hellick Pool and that light placement and lux levels follow the Bat Conservation Trust and ILP Guidance Note 08/18 on Bats and Artificial Lighting.
7. All construction work on the dunes must be completed before the end of the first week of April, before the ringed plover (*Charadrius hiaticula*) breeding season commences in mid-April each year.
8. No vehicle traversing across the dune grassland at the rear of the beach should cause damage to the existing grassland. Enviro-mats must be laid and used by vehicles in this area.
9. Waste that is recyclable will be sorted within the construction compound, placed into the relevant storage disposal container, and then removed from site for disposal at an appropriate recycling facility.
10. All potentially contaminated material will be subject to Waste Acceptance Criteria testing.
11. Any excavated clay that cannot be reused would be bulked on site and disposed of at an appropriately licenced waste management facility.
12. All residual waste material will be removed from site and disposed of at an appropriately licenced waste management facility.
13. Detailed construction method statements will be prepared following CIRIA guidance to include:

- a. Site storage of fuel and any chemicals on site will be above Mean High Water Spring and away from high-risk locations.
- b. All chemicals of a hazardous nature will be stored in bunded, locked containers in surfaced areas (bund to contain 110% of the capacity of the liquid stored).
- c. Plant, equipment and vehicle refuelling will only be permitted at designated refuelling areas.
- d. Refuelling and bulk deliveries will be supervised.
- e. Emergency spill kits will be available at all times and operatives should be trained in their use. Any spillages would be contained and reported.
- f. Drip trays will be used to prevent oil leaking from machinery when parked or stored and during refuelling.

WI 213 Archaeological requirements

- 1. The grave marker of Sir Cloudesley Shovell is located within the working area. The existing location and orientation of the grave marker shall be noted using GPS and the grave marker then carefully removed prior to works commencing. The CloS Project Director will arrange for a photographic record and field survey to be completed prior to it being moved. The grave marker shall not be moved until the record and survey are completed.
- 2. An archaeological Watching Brief will be implemented during the temporary removal of this asset to further examine and record the asset and its footprint.
- 3. The grave marker shall be stored within the site compound and marked off to avoid damage from construction activities
- 4. The grave marker shall be replaced as close as possible to its original location and orientation following completion of construction works
- 5. A photographic condition survey of Carn Friars Scheduled Monument (Ref: 1011950) will be undertaken by CloS before, during and after construction to identify any impact on the fabric of the site. The *Contractor* will ensure this survey is facilitated.
- 6. All *Contractor* delivery vehicles passing through the Scheduled Monument will access the construction compound via the existing farm track; no deviation from this track will be permitted.

WI 214 Confidentiality

- 1. The *Contractor* shall not disclose information regarding the works to third parties without the acceptance of the *Project Manager*.
- 2. All contact from third parties will be forwarded to the *Project Manager*.
- 3. The *Contractor* may publicise the services only with the *Employer's* written permission.

WI 215 Security and protection on the site

- 1. The *Contractor* is responsible for the security of the site and for vehicles and pedestrians entering and leaving the site.
- 2. Security measures shall include ensuring that the *Contractor's* personnel are easily identifiable.

WI 216 Protection of existing structures and services

- 1. An existing outfall for controlling the level of Higher Moors Pool is shown on the contract drawings. This is outside the working area and should not interface with the proposed works.

WI 217 Protection of the works

1. The *Contractor* should state in the Method Statement any measures they will employ to protect the works in the temporary state during periods of unsettled sea states.

WI 218 Cleanliness of the roads

1. No additional constraints to those identified in the MTR.

WI 219 Traffic Management

1. The *Contractor* is responsible for traffic safety and management including obtaining all approvals, e.g. road closures and openings. Before any work in, or affecting the use of, any highway or road is commenced, the *Contractor's* proposed method of working, including any special traffic requirements, is agreed with and confirmed in writing to, the *Project Manager*, and all relevant authorities.
2. The *Contractor* shall produce a Traffic Management Plan to be submitted to the *Project Manager* at least two weeks prior to construction of the works.
3. The Traffic Management Plan is to include, but is not limited to, the following:
 - Access routes to be taken by heavy vehicles, noting any height or weight restrictions
 - Details for keeping roads clear of dust and mud
 - Timings for heavy load movements
 - Vehicular routing
 - Parking restrictions for construction vehicles on the public highway surrounding the site
 - Pedestrian walkways around the site
 - Storage areas
 - Timetable for removal of site compound equipment
4. The *Contractor* shall co-operate with the relevant authorities concerning works in, or access to, the highway. The *Contractor* informs the *Project Manager* of any requirements or arrangements made with the relevant authorities.
5. The *Contractor* shall be responsible for liaising with the public regarding road closures and regular movements on the highway.

WI 220 Condition survey

1. At least two weeks prior to taking possession of the Site, the *Contractor* shall undertake condition surveys in accordance with the *Employer's* Minimal Technical Requirements (1.35).
2. The *Contractor* shall make a note of any existing damage and bring this to the attention of the *Project Manager*.
3. The *Contractor* shall repeat the condition survey on completion of the works in accordance with the *Employers* Minimum Technical Requirements (MTR) and provide a copy to the *Project Manager*.
4. Photographs, surveys and inventories must be date stamped, NRG referenced, and copies held by the *Contractor*. The *Contractor* shall provide these to the *Project Manager* and the *Supervisor*.

5. The *Contractor* shall undertake condition surveys with the *Supervisor*, and any others invited by the *Contractor*, *Project Manager* or *Supervisor*. The *Contractor*, *Project Manager* and *Supervisor* shall notify each other in advance if any others are invited.
6. The *Contractor* is to give at least one weeks' notice to the *Project Manager* and *Supervisor* prior to undertaking any condition survey.
7. All record photographs and videos shall comply with the requirements of the MTR.

WI 221 Consideration of Others

1. No additional constraints to those identified in the MTR.

WI 222 Control of site personnel

1. The *Contractor* shall ensure that all persons working on or visiting the Site hold a valid and current Construction Skills Certification Scheme (CSCS) card. A member of the site team shall escort persons without this card at all times.
2. The *Contractor* will maintain a visitors' book recording the date, the time in, the time out, evidence of a specific Health and Safety induction, CSCS number, and the name and company of the person visiting.

WI 223 Site cleanliness

1. No additional constraints to those identified in the MTR.

WI 224 Waste materials

1. Any construction related materials shall be disposed of away from site without any contamination of the waterways or surrounding land. Disposal must be in accordance with the Site Waste Management Plan (SWMP) and by a licensed waste disposal *contractor* with an audit trail. Refer to 1.14 EA MTR.
2. The *Contractor* determines volumes of waste to be disposed of offsite and applies for the appropriate licences.
3. The SWMP shall be submitted to the Project Manager for acceptance before prior to works on site commencing.

WI 225 Deleterious and hazardous materials

1. No additional constraints to those identified in the MTR.

WI 226 Consents & Licencing

1. Work shall not commence until Planning Permission, Maritime Management Organisation and Site of Special Scientific Interest licences are obtained
2. A Marine Management Organisation (MMO) Licence is not required for the proposed works as long as the working area is maintained above the MHWS mark.
3. Planning and any other statutory body consent will be obtained by the *Employer*.

WI 227 Excavating Material

1. Excavated material is to be placed in an area to be agreed with the *Project Manager* prior to any excavation taking place.
2. The *Contractor* is responsible for removing any excavated material from the site which cannot be redistributed within the working area.

3. The *Contractor* is responsible for all, permits, permissions and costs associated with removal and disposal of surplus material.

WI 228 Reinstatement

1. The works area, in particular the grassed compounded areas, and the unpaved access track to site shall be reinstated in their preconstruction condition.

WI 300 Contractor's design

WI 301 Design responsibility

1. The Contractor is not required to design any elements of the scheme.

WI 400 Completion

WI 401 Completion definition

1. The following are absolute requirements for Completion to be certified, without these items, the *Employer* is unable to use the works:
 - The whole of the *works* has been completed in accordance with the Works Information.
 - There are no Defects that prevent safe access and operation by the *Employer*.
 - There are no Defects that present a health and safety hazard to the public or landowners.
 - 1No. paper copy and 1No. electronic copy of the final Health and Safety File.
 - 1No. hard copy and 1No. electronic version of the As Built drawings.

WI 402 Access to information following Completion

1. The *Contractor* shall provide all information relevant to the works to the *Project Manager* following completion. The *Contractor* shall retain copies of all information for inspection by the *Project Manager* for the duration of the contract liability period.
2. The *Contractor* shall retain a copy of all design records, software code, supplier's details and other relevant information for a period of at least 12 years following Completion and shall make these available to the *Employer* on request.

WI 403 Final Clean

1. The *Contractor* shall leave the site in a clean, tidy condition and having removed all Equipment, Plant and Materials.

WI 404 Security

1. All existing landowner security arrangements shall be reinstated upon completion unless agreed otherwise. The *Contractor* shall ensure that landowner security is maintained at a similar level to that which currently exists on the site during the implementation of the works.

WI 405 Pre-Completion arrangements

1. Prior to any works being offered for takeover or Completion the *Contractor* shall arrange a joint inspection with the *Supervisor*, *Project Manager* and the *Employer*.
2. The initial inspection shall take place a minimum of three weeks in advance of the planned Completion.

WI 500 Programme

WI 501 Programme Requirements

1. The *Contractor* shall programme the dune recharge and ramp construction works to make best use of tidal working periods so as to minimise the exposure of underlayers to unfavourable sea conditions.

WI 502 Revised Programmes

1. Submission of revised programmes shall be accompanied with a written explanation of the changes.

WI 600 Quality Assurance**WI 601 Samples**

1. Concrete cube samples shall be required to verify the strength of the concrete. The procedure shall be in line with the MTR (4.9).

WI 602 Quality Statement

1. The *Contractor* shall submit his quality statement for the works to the *Project Manager* within 4 weeks of the starting date.

WI 603 Quality management system

1. The *Contractor's* quality management system shall comply with the requirements of ISO 9001 and ISO 14001.

WI 700 Tests and inspections

1. The Contractor shall keep daily photographic records of all works carried out. All structures, pipework, formation levels, construction materials etc. to be buried shall be photographed prior to and during burying operations.

WI 800 Management of the works**WI 801 Project team - Others**

1. Refer to Contract Data for details.

WI 802 Communications

1. No additional requirements to those stated in the MTR

WI 900 Working with the *Employer* and Others**WI 901 Sharing the Working Areas with the *Employer* and Others**

1. The *Contractor* is required to co-operate with Others in sharing the working areas they need in connection with the works.
2. Statutory bodies (the local planning authority, Natural England etc.) may arrive at site unannounced to assess whether the *works* are being implemented within the conditions of the granted consent. The *Contractor* shall co-operate with any reasonable requests and share the working area.

WI 1000 Services and other things to be provided

WI 1001 Services and other things for the use of the *Employer, Project Manager or Others*

1. The details of services and other things for the use of the *Employer, Project Manager or Others* to be provided by the *Contractor* are listed in the Environment Agency Minimum Technical Requirements (1.2)
2. The *Contractor* is responsible for obtaining all temporary service connections required for the duration of the works, including power, water, gas and telecommunications. Where no fixed connection is to be used, or is unavailable, the *Contractor* is responsible for making alternative arrangements. In the case of sewerage for instance, the *Contractor* is responsible for safely disposing of any waste generated if no connection to a public sewer is available.

WI 1002 Services and other things to be provided by the *Employer*

1. The *Employer* is responsible for the following: -
 - Obtaining permission from the landowner to use the site for the purposes of the *works*. The *Contractor* should not approach any landowner directly unless authorised to do so by the *Employer*.
 - Giving the *Contractor* access to the site. The *Contractor* must give 5 working days' notice to the *Employer* to gain access to the site during the defects correction period.

WI 1100 Health and safety**WI 1101 Health and safety requirements**

1. The *Contractor* shall comply with all applicable legislation for the health, safety and welfare of his people or any other person in or near the Site of the *works*.
2. The *Contractor* copies the *Project Manager* into all correspondence with the *Principal Designer*.
3. The *Contractor* shall fulfil the role of *Principal Contractor* under the Construction Design and Management Regulations 2015 for the duration of the works.

Toolbox talks

1. The *Contractor* shall provide regular toolbox talks to site personnel to ensure that health and safety issues, the requirements of the contract and the design and the contents of method statements are communicated throughout the site team.

Incident reporting

1. The *Contractor* shall provide a written report within 21 days of the incident, unless otherwise agreed with the *Project Manager*.

First Aid

1. The *Contractor* shall provide first aid facilities; Materials and personnel trained in first aid, for the benefit of his own people, those of his Sub-contractors and the site staff of the Project Manager, Supervisor and Employer.

Provision of Life Saving Equipment

1. The majority of the works will be undertaken immediately adjacent to water. Lifesaving equipment will be provided to the satisfaction of the *Project Manager*.

WI 1102 Method statements

1. The *Contractor* shall prepare a list of all Method Statements he intends to issue, and submit such Method Statements to the *Project Manager* at least two weeks in advance of carrying out the items of work.
2. The Contractor shall not commence any permanent works until the *Project Manager* has approved in writing the *Contractor's* working methods for forming the works.
3. The *Contractor* provides the works in accordance with the accepted method statement.

WI 1103 Legal requirements

1. The Principal Contractor duties under the CDM Regulations 2015 shall be undertaken by the *Contractor*.
2. The Principal Designer duties under the CDM Regulations 2015 shall be undertaken by the *Employer's* consultant
3. The Client duties under the CDM Regulations 2015 shall be undertaken by the *Employer*.

WI 1104 Inspections

1. The *Contractor* shall provide a competent health and safety officer whilst *works* are being carried out on the Site.
2. The *Contractor's* health and safety officer carries out weekly audits of the Site and submits copies of audit reports and proposed remedial actions to the *Supervisor* prior to the end of the following week.
3. The *Employer* may carry out site audits. The *Contractor* shall assist with these audits and comply with any recommendations made during such audits.

WI 1200 Subcontracting

1. The *Contractor* is responsible for all the work.

WI 1300 Title

1. Not required.

WI 1400 Acceptance or procurement produce (Option C, D, E and F)

1. Not required.

WI 1500 Accounts and records (Options C, D, E & F)

1. Not required.

WI 1600 Parent company guarantee (Option X4)

1. Not required.

WI 1700 Performance Bond (Option X13)

1. Not required.

WI 1800 Advance payment bond (Option X14)

1. Not required.

WI 1900 Low Performance damages (Option X17)

1. Not required.

WI 2000 *Employer's work specifications and drawings.*

WI 2100 *Employer's work specification*

1. The *Employer's* minimum technical requirements are the Civil Engineering Specification for the Water Industry (CESWI), 7th Edition, supplemented by the Environment Agency's Minimum Technical Requirements (EA MTR). See Appendix A.
2. The Specification for Highway Works (SHW) standards are applicable where it is referenced in the Works Information.
3. The Works Information is appended by a Works Specification (Appendix B). This document amends existing or includes additional clauses to those stated in CEWSI & the EA MTR.
4. In so far as any information contained within the Works Information (including the Works Specification) may conflict or be inconsistent with any provision of CESWI 7 and/or the EA MTR then the particular information contained within the Works Information shall always take precedence.
5. CEWSI & EA MTR clauses should be read as those clauses which are applicable to works apply and those that are not relevant should be ignored. E.g. Clause **2.102: Precast Concrete Box Culverts** is not applicable as it is not shown on the drawings and not mentioned in the Works Information. Therefore, text relating to those clauses in CEWSI & EA MTR should be ignored. However, if the design is modified during construction to include works for such an item, then the clause should be adhered to.
6. The following reports and specifications form a part of the Works Information:
 - Appendix A - Employer's Minimum Technical Requirements- (EA MTR)
 - Appendix B - Works Specification

N.B. It is assumed the *Contractor* will have access to CESWI 7 and other industry standard references made within the Works Information and hence will not be distributed as part of the Contract Documents.

WI 2200 *Drawings*

1. The following drawings form a part of the Works Information:
 - UA008878-ARC-XX-XX-DR-CE-0500-Porth Hellick Site Plan
 - UA009765-ARC-XX-XX-DR-CE-0502-Porth Hellick Plan of Raised Dune
 - UA009765-ARC-XX-XX-DR-CE-0520-Porth Hellick Sections C & F
 - UA009765-ARC-XX-XX-DR-CE-0521-Porth Mellon Sections D
 - UA009765-ARC-XX-XX-DR-CE-0523-Porth Mellon Sections E & G
 - UA009765-ARC-XX-XX-DR-CE-0524-Porth Mellon Sections H & J
 - DR-CE-0501-S2-P2-Porth Hellick Timber Boardwalk Plan
 - UA008878-ARC-XX-XX-DR-CE-0522-S2-P1- Boardwalk Sections

APPENDIX A

EMPLOYER'S MINIMUM TECHNICAL REQUIREMENTS- EA MTR

APPENDIX B

WORKS SPECIFICATION