Fleet Pond Scope

Hart District Council

September 2021
Draft Scope

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Reference	

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WI 0000 SPECIFICATION

WI 0000.1 CESWI 7

The Specification is the "*Civil Engineering Specification for the Water Industry, 7th Edition"*, published by UK Water Industry Research Ltd in March 2011 (CESWI 7) augmented by supplementary clauses, Sections WI 101 to WI 2015.

WI 0000.2 MCHW

The Manual of Contract Documents for Highways Works (MCHW) is referred to under sections WI 201.5, WI 2002.50, WI 2002.55 and WI 2003.13, 2008.19.

WI 0000.3 Supplementary Sections

Sections WI 101 to WI 1901 augment Section 1 of CESWI 7, sections WI 2002 to WI 2011 augment Sections 2 to 11 of CESWI 7, and Sections WI 2012 onwards add new sections to CESWI 7.

WI 0000.4 Supplementary Sub-Clauses

For Sections WI 101 to WI 1901, sub-clauses .1 to .24 are the sub-clauses in Section 1 of CESWI 7 and sub-clauses .25 and above are in addition to CESWI 7. For Sections WI 2002 to WI 2011 the sub-clauses match and then continue on from CESWI 7. For Sections WI 2012 to WI 2015 the sub-clauses commence at '1.'

WI 0000.5 Supplementary Clauses Prevail

In so far as any supplementary clause conflicts or is inconsistent with CESWI 7 the supplementary clause shall always prevail.

WI 0000.6 Supplementary Clauses Prevail

In so far as any supplementary clause conflicts or is inconsistent with CESWI 7 and or MCHW the supplementary clause shall always prevail.

WI 101 SECTION 1 – DESCRIPTION OF THE *WORKS*

WI 101.25 Description of the *Works*

1. The *works* are to increase accessibility to Fleet Pond from the new Hartland Village development.

2. The *works* consist of footpath and surfacing improvements and generally comprise:

a) General site clearance
b) Improve the Access Road to Fleet Pond Car Park
c) Widening of footpath northern edge of Fleet Pond (SSSI) including installing Sheet piling as the edge restraint
d) New footbridge
e) Creation of a culvert through the existing path and creation of a soft engineered bund
f) Creation of a slipway
g) Redesign and new layout of existing car park including surfacing
h) Improve and surface existing access road.

WI 201 SECTION 1 – GENERAL CONSTRAINTS ON HOW THE *CONTRACTOR* PROVIDES THE *WORKS*

WI 201.1 Definitions

Insert the following sub-clause(s) in **clause 1.1**.

7. “HDC” referred to in the Specification means Hart District Council.

8. “HCC” referred to in the Specification means Hampshire County Council.

WI 201.4 British Standards and Other Documents

No further Scope under this heading.

WI 201.5 Tidiness of Site

Insert the following sub-clause(s) in **clause 1.5**.

1. The *Contractor* shall keep land adjoining the working site clear of spoil, spillages and debris arising from the Site.

2. No rubbish or material may be burned on the Site.

3. All rock / stone / granular material brought to the Site shall be kept free from contact with deleterious matter.

4. Materials shall not be stored beneath the canopy of trees, within any tree protection fencing, or in any location likely to cause damage to trees, including on higher ground where leakage may spill onto root zone.

5. Any wrappings/bandings shall be retained in place during handling. Mechanical handling equipment shall be used wherever possible. Stones which are soiled, chipped, broken or otherwise damaged shall be rejected.

6. Site entrances will be maintained and kept clean and clear

7. Ready mixed lime/sand mixes shall be stored on a clean impermeable base and covered to protect from rain, frost and excessive evaporation.

8. Ready to use mortar shall be stored in containers and covered when not in use. In cold weather containers shall be insulated in a heated environment to ensure that the mortar temperature does not fall below 4°C.

9. The *Contractor* shall supply to the *Project Manager* one copy of the manufacturers’ current instructions and explanatory brochures for all proprietary materials or processes, to be used in the contract, prior to their incorporation in the *works*. This is in addition to the Information required for inclusion in the Health and Safety File.

10. Material stored in storage areas shall be profiled such that it sheds water away from the stockpile and, where applicable, is fully compacted in accordance with Table 6/4 of Specification for Highways Works to prevent water ingress.

WI 201.6 Entry onto the Site

Insert the following sub-clause(s) in **clause 1.6**.

1. The working area is shown on drawing numbers:

- **2019_41_HBC_HDC_TE_0100_001 Location**

The *Contractor* shall confine operations within these limits unless written permission is given by the *Project Manager*.

2. Access to the site for delivery vehicles / site vehicles / plant from the main public highways is via the A3013, over the railway bridge along the access road, through the car park to Boathouse corner (compound location). No other access routes shall be used without prior written permission by the *Project Manager*.

3All materials will be loaded within the site compound/boundary of the working zone to minimise congestion.

4. The *Contractor* shall be responsible for monitoring and repairing any damage to existing roads, accesses, land, property or other works, caused by their operations.

5. The *Contractor* shall form, maintain and subsequently remove any materials, barriers and fencing required for the purpose of accessing the site in a safe manner and is responsible for keeping the access routes safe for other users where permitted/ unavoidable. All such features should be removed on completion of the *works* or as instructed by the *Project Manager*.

6. On completion of the *works*, or as otherwise instructed by the *Project Manager*, the *Contractor* shall return the working areas, accesses, roads and any other affected areas to a condition not inferior to that at the commencement of the *works*.

7. Access routes and site compound areas are shown on the drawings. If the *Contractor* wishes to make use of alternative areas than those proposed, they shall be responsible for informing the Planning Department of Hart District Council and take any action (and pay for any action) that is required.

8. Any damage sustained to vehicles due to poor haulage route conditions shall be reimbursed to the vehicle owner by the *Contractor*.

9. Access from A3013 to the access road / haulage route shall take priority to avoid vehicle stacking on the A3013 road.

10. Haulage Routes

a) The *Contractor* is to construct haulage routes from the compounds to the works.

b) The haulage route(s) entrance shall be appropriately supervised during working hours to suit site traffic demands.

c) The haulage route(s) shall be suitable for road cars. Any defects that prevent safe usage of the haulage road must be corrected immediately.

d) The *Contractor* shall plan their haulage route(s) to minimise impact on existing structures and vegetation, and must be submitted to the *Project Manager* as part of a Method Statement for acceptance prior to works commencing in this area.

e) Haulage routes within the area marked “BANKSMAN CONTROLLED 5MPH ZONE”, vehicles shall be escorted using banksmen both at the front and rear of moving vehicles.

11. No residential caravans for the use of the *Contractor*, his employees or Subcontractors will be allowed on or adjacent to the compounds, sites or any *Client* owned land unless agreed otherwise with the *Project Manager*. The *Client* does not undertake to provide a site for such caravans.

12. The *Contractor* must make provision for and allow the *Client’s* staff, representatives and guests to visit the Site.

13. At any locations where the public are permitted to cross the Site, priority will be given to the public over any site vehicles or delivery vehicles.

WI 201.7 Survey of Highways, Properties and Land

Delete **sub-clause 1** in **clause 1.7** and replace with:

1. Prior to entry to the Site, the *Contractor* shall carry out a survey with the *Supervisor* in attendance which shall include the taking of photographic and video records of the condition of the existing highways, properties and lands including trees, boundaries, and any other features which may be affected by the *works* to determine their existing condition. The results of each survey to be issued to the *Supervisor* and asset owner prior to entry to the Site. This shall include the following:

- Visual external structural Condition Surveys of structures including but not restricted to:
    - Footbridges
    - Apron of culvert structures

- Floating pontoons/fishing platforms
- Stairs up onto Network Rail Land
- Embankment from back of footpath to Network Rail fence

To be carried out by a Chartered Structural Engineer as soon as is reasonably practicable from the contractcommencing.

- External visual condition survey of notice boards adjacent to site compound and car park including existing street furniture.

Insert the following sub-clause(s) in **clause 1.7**.

2. On Completion of the *works* the *Contractor* shall carry out a second survey with the *Supervisor* in attendance which shall include the taking of photographic and video records of the condition of the existing highways, properties and lands to determine their condition and then identify the extent of any damage which may have occurred. They shall then agree whether any recorded damage was caused or not caused as a result of the *Contractor's* operations. Particular attention shall be paid to the access routes to the *Site*. The second survey WI201.7 (5) shall carry out the survey as per WI201.7 (1) and shall include the requirements of the pre-works survey.

WI201.7 (5) to include:

- Photographic and video records
- Visual external structural condition surveys of buildings identified in 201.7(1) by a Chartered Structural Engineer
- Visual condition survey of notice boards adjacent to site compound and car park including existing street furniture

3. Any damage to existing highways, properties and land including trees, boundaries, and any other features caused due to the *works* will be reinstated to at least the condition at the start of the *works*.

WI 201.9 Temporary Fencing and Gates

Insert the following sub-clause(s) in **clause 1.9**.

1. The *Contractor* will provide, fix and maintain 2m high Heras type fencing with fixings at top and bottom of each panel to the perimeter of all boundaries of the site including the compounds. The fencing shall be designed so that it can withstand wind loading. All site fencing shall be regularly inspected and defects made good as soon as is practicable and within 1 day of identification.

2. The *Contractor* is to ensure all fencing is maintained between construction phases during any Christmas and Easter suspension period and will be required to correct any damage within 1 day of identification.

3. The *Contractor* is to ensure the Site is regularly inspected between construction phases during any Christmas and Easter suspension period to ensure that the *Site* is secure throughout the closures.

4. The *Contractor* shall ensure that the security of Fleet Pond Car Park is maintained at all times during the works to at least the present standard of security. This will include the lockable gate across the Fleet Pond Drive and security fencing and/or lockable gate across the existing access road. Any infill sections of fence panels or posts for gates and fencing shall be the responsibility of the *Contractor* to install and maintain as well as remove in due course to facilitate the reinstatement/replacement of existing fencing and gates.

WI 201.10 Interference with Land Interests

Insert the following sub-clause(s) in **clause 1.10**.

1. No person shall reside on the *Site*

WI 201.11 Interference with any Access to Property, Apparatus or Service

Insert the following sub-clause(s) in **clause 1.11**.

1. The Emergency Rendezvous point within the works compound (shown on drawing **2019_41 0900_009 Emergency Access Zone**) shall be kept clear and accessible for emergency services at all times.

WI 201.12 Procedure for Complaints and Claims

No further Scope under this heading.

WI 201.13 Protection against Damage

Insert the following sub-clause(s) in **clause 1.13**.

1. The *Contractor* shall submit to the *Project Manager* full details of all measures he shall be implementing to protect adjacent structures and shall obtain his approval in writing before starting work in these areas.

2. The structures and finished surfaces forming part of the permanent works shall only be used to carry construction traffic when measures approved by the *Project Manager* have been taken to protect them from damage. Notwithstanding this the *Contractor* will be responsible for any damage caused to the permanent works during construction. In particular, care should be taken to protect the new concrete in the condition it is first constructed.

3. Fleet Pond is a Designated Reservoir and Main river which provides flood protection. The *Contractor* shall ensure through management of the *works* that there is not an increased risk of flooding during the *works*.

WI 201.14 Use of Herbicides and Pesticides / Protection of Agricultural Land

Delete **sub-clause 2** in **clause 1.14** and replace with:

2. No Herbicides or Pesticides to be used within the site as located in a SSSI.

WI 201.15 Works Affecting Watercourses

Insert the following sub-clause(s) in **clause 1.15**.

1. The *Contractor* shall comply with the requirements of the EA permit this information will be made available to the Contractor when available. The Contractor should use the Environment Agency website and consider the standard conditions set out as a guide.

WI 201.17 Apparatus of Statutory Undertakers, Highways or Roads Authority and Others

Insert the following text in **sub-clause 3**.

The drawing shall be provided to the *Client* prior to Completion.

Insert the following sub-clause(s) in **clause 1.17**.

1. The *Contractor* shall take all necessary measures to avoid damage to, and further exposure of, the services and associated structures. The contractor will adhere to the conditions set out by Network Rail.

2. The *Project Manager* and the Statutory Undertaker, Highway Authority or owner concerned as appropriate, shall be notified should any leakages or damage to existing services, highways or roads be discovered, and every facility shall be afforded for the repair or replacement of the apparatus affected.

3. If any privately-owned service for water, electricity, drainage etc., passes through the site and is affected by the *works*, the *Contractor* shall locate it and provide an alternative service to the satisfaction of the *Project Manager* before cutting the existing service.

4. Should any unidentified service be found to exist, the *Contractor* shall at once give written notification to the *Project Manager* and shall be responsible for making all arrangements for diversion, support and protection as otherwise required by this clause.

5. The *Contractor* has sole responsibility for identifying services within the site affecting the *works*, or affected by the *works*, and liaising with Utility companies to resolve any conflicts and agree any necessary working methods to provide the *works*.

6. The *Contractor* shall undertake his own services search of the Site and any area affected by the *works* and satisfy himself as to the position and orientation of any services before any works are undertaken.

7. Information from statutory undertakers is provided in the *Site Information*. However, no warranty is given for this information and the *Contractor* is not relieved of any of his obligations under the contract.

8. The *Contractor* shall agree all working methods with the statutory undertakers.

13. The *Contractor* shall contact the relevant statutory undertakers prior to the commencement of the *works* to agree working methods and any supervision required.

WI 201.18 Traffic Requirements

Insert the following sub-clause(s) in **clause 1.18**.

1. All access routes used by the *Contractor* shall be marked with direction signs and route arrows in accordance with any special requirements of the Highway Authority or private owner over whose land the route passes. The *Contractor* shall design, construct and maintain all such requirements. The contractor will provide the *Project Manager* a copy of the signs used and locations in a CAD drawing including size where and how fixed with supporting written approval from the owner of any furniture the signs are fixed to. Route arrows shall be removed at the end of the Contract.

2. Should any deliveries or site activities extend outside of the Site and require the use of the public highway, the *Contractor* shall ensure that the *works* are discussed and agreed with the *Project Manager* and the Highway Authority prior to these works being carried out.

3. The *Contractor* shall be entirely responsible for ensuring that highways are kept clear of mud or other debris either falling from vehicles connected with the works or being spread on the highway as a result of the *works* in any way whatsoever.

4. The *Supervisor* may, at any time, call on the *Contractor* to clean and wash any such fouled highway and the *Contractor* shall take immediate steps to do so effectively. Should the *Contractor* fail to carry out the removal of mud, dust, debris and / or litter, the *Supervisor* may arrange to carry out the work and charge the cost to the *Contractor*.

5. In any case the *Contractor* shall routinely clean the highway three times a week which must include a Friday afternoon to ensure the highway is clean for the weekend.

6. Mechanical sweepers shall be of approved type which picks up debris into an integral container without creating or spreading dust, mud etc.

7. The *Contractor* shall provide public pedestrian and cycle crossing points along the haulage route at appropriate locations to be agreed with the *Supervisor*. The crossing point(s) shall be appropriately manned during the

working hours to ensure the safety of members of the general public. The crossing points must be suitably constructed to allow them to be opened for free passage during all non-working hours.

8. Public access shall be maintained from Southwood Lane to the Car Park during the footpath works. Any public crossing of site access routes or haulage routes during working hours shall be suitably manned to ensure public safety.

WI 201.19 Emergency Arrangements

Insert the following sub-clause(s) in **clause 1.19**.

1. The *Contractor* shall be responsible for Site security.

2. Trespass and security is a known issue on this site, the *Contractor* is responsible to make adequate security provisions.

3. The *Contractor* shall be responsible for the safe storage and insurance against damage and theft of all materials and equipment.

4. The *Contractor* shall compile and distribute an emergency telephone number contact list. It should include at least 2 numbers at which responsible representatives of the *Contractor* can be contacted at all times outside normal working hours in order to enable emergency action to be implemented in the of trespass, safety issues, storms, high water levels, event of storms, etc.

5. The *Contractor* shall maintain arrangements whereby they can call out within 3 hours People, Equipment and Materials outside normal working hours to carry out any work needed for an emergency associated with the *works*. The *Contractor* shall provide the *Project Manager* at all times with the names and telephone numbers of at least two senior members of the *Contractor*'s site team who are responsible for organising emergency work. Employees shall be made aware of any relevant arrangements, including those of the *Client*, which are in existence for dealing with emergencies.

6. Emergency vehicle access shall be maintained at all times as set out in **2019_41 0900_009 Emergency Access Zone**.

7. The *Contractor* shall provide and give access to members of the emergency services, Environment Agency, Network Rail and the *Client* and their nominated representatives who may inspect the Site.

WI 201.20 Hazardous Substances

No further Scope under this heading.

WI 201.21 Environment and Sustainability

Insert the following sub-clause(s) in **clause 1.21**.

4. The *Contractor* shall comply fully with all requirements contained within this specification.

In addition to this requirement, particular areas for action are:

a) Avoidance of pollution of any waters, (surface or underground).
b) Avoidance of pollution of any land.
c) Avoidance of nuisance of sounds, vibrations and dust.
d) Preservation of flora and fauna.

Construction and Environmental Management Plan [CEMP]

1. The Contractor must comply with all conditions of the planning permissions. Environment Agency Bespoke Permit, Natural England permit and any requirements of Network Rail. The CEMP will be required to discharge planning conditions and shall comply with the requirements of this specification. The CEMP is a live document and will be updated during the *works* as set out in the CEMP. Should the *Contractor* require that the CEMP is updated or amended, he is responsible for preparing an updated CEMP and submitting to the Project Manager and where applicable Natural England, Environment Agency and Network Rail for approval.

2. The *Contractor* must continue to operate in accordance with the latest approved CEMP until any revisions are approved by the *Project Manager* or/and where applicable Natural England, Environment Agency and Network Rail for approval, taking due regard of statutory consultation and decision periods.

Specific requirements to be included in the CEMP:

a) Equipment which leaks any fuel, lubricant or hydraulic fluid shall not be used to complete the *works* and should either be repaired or removed from site within 3hrs of being identified by the *Supervisor* or the *Contractor*.
b) Biodegradable hydraulic fluid shall be used.
c) Equipment shall be maintained to ensure efficiency and to minimise emissions
d) Equipment shall be cleaned before delivery to the site.
e) Fuel and oil storage shall be away from watercourses, fully bunded to 110% of the maximum storage capacity and maintained in a secure and clean manner. Delivery and vent pipes shall terminate within the bund.
f) Refuelling or servicing of equipment shall be carried out in designated locations away from watercourses.
g) Refuelling shall be supervised and shall be carried out by pumping through a trigger type delivery nozzle.
h) A supply of oil absorbent materials shall be readily available on site at all times (e.g., in cab of plant/ equipment).
i) A spill kit (including booms for potential leaks directly into the marine environment) should be kept on Site at all times during operation Any fuel, oil or chemical spill or leakages must be reported to the Environment Agency, the *Supervisor* and the *Project Manager* immediately.
j) Any spillage shall be immediately contained, removed from Site and disposed to a licensed tip, the *Project Manager* being promptly notified.

k) It is recommended that all plant is specified to be fuelled with bio-diesel.
l) Timber used for temporary and permanent works shall be from a temperate, sustainable source.
m) Timber preservative treatment shall be carried out away from watercourses and in a manner to avoid any spillage or loss.
n) The *Contractors* shall provide a supply of water and means of dispensing it, to dampen dust.
o) In the interest of reducing water consumption, the *Contractor* shall quantify all areas of site water consumption:

    i. Consider splitting welfare and "site-based" water consumption.
    i) Record site water consumption on a regular basis for review at project progress meetings
    ii) Regular meter readings should be taken from all meters, submeters and metered standpipes (weekly is recommended)

p) The sweeping of any dust or dusty material should not occur without effectively treating it with water in order to minimise its emission from the site. Wheel washers shall be provided for vehicles entering and exiting site. Silty water from wheel-wash facilities will require appropriate disposal to prevent unacceptable levels of suspended solids entering any nearby surface water bodies. Any disposal of surface water generated on site during construction to controlled waters will require consent from the EA. Wheel wash facilities should not be located too close to surface waters.
q) Access roads in the vicinity of the site shall be kept clear of debris, through the use of a road-sweeper if necessary.
r) All skips used for the storage of waste shall be kept covered so far as is reasonable practicable.
s) Care is to be taken with the handling of excavated arisings so that they are contained and not unnecessarily released into the environment.
t) Vegetation clearance is to be completed outside bird breeding season (which is March to August inclusive each year). Vegetation clearance activities to take place in months September to February. Clearance works between 1st March and 31st August will require a visual inspection by a qualified ornithologist within 48hrs in advance and supervision by a suitably qualified ecologist. If nests are found, the work in that area must stop, with a 5m buffer placed around the nest. Clearance would only be undertaken once the nest becomes unoccupied of its own accord. Any documentation for Assent must be accepted by the *Project Manager* prior to submission to Natural England.
u) The *Contractor* shall ensure no site traffic encroaches onto the Heathland adjacent to the Track between the Car Park and Boathouse Corner identified in DWG 2019_41 0900_003 Banksman Controlled 5mph Zone.
v) All plant is to be equipped with suitable spill kits and operatives trained in use
w) A silt curtain shall be deployed, and operations to be carried out from the land as far as practicable possible.
x) *Works* on the Pond side will be restricted to a 1.5 metre working boundary from existing footpath edge, which will be marked by the silt curtain to limit the extent of disturbance to the pond.

y) Vibro-piling or 'silent' piling should be used for as much of the frontage as possible, with percussive piling used only where other techniques are not possible to reach the required design depth.

z) Soft start procedures during any piling activities shall be employed to ensure incremental increase in pile power over a set period of time until full operational power is achieved. No less than 20 minutes and repeat soft start when the piling has ceased for longer than 10 minutes. All piling activities shall be undertaken outside of the waterbody to prevent direct noise transition into the water body.

aa) Deliveries and on site traffic shall be controlled in accordance with DWG 2019_41 0900_002 & DWG 2019_41 0900_003 the *Contractor* will supply a Traffic Management Plan to be approved by the *Project Manager* (submitted alongside the CEMP)

bb) A 5mph speed limit shall be enforced on site

cc) Exit and entrances shall be signed to warn road users and pedestrians

dd) Footpath closures shall be signed to warn the public of the construction works

ee) The *Contractor* shall submit a Site Waste Management Plan (SWMP) to the *Project Manager* for acceptance prior to works commencing. The *Contractor* shall adhere to the accepted SWMP;

ff) Waste shall be stored in the compounds only in designated areas that are isolated from any surface water drains and open water.

gg) Waste shall be segregated for ease of off-site recycling

hh) All waste transfers accompanied by completed Waste Transfer Notes

i) The use of diesel or petrol powered generators should be avoided where possible, using mains electricity or battery powered equipment where available.

3. All new timber shall be provided from a managed renewable resource and certified as such by an independent inspection agency accredited by the Forest Stewardship Council.

4. In executing the *works* the *Contractor* shall take all necessary precautions to secure the efficient protection of the Pond and all rivers, streams, waterways, drains, and the like against pollution which may be likely to contaminate water supplies or cause injury to fish or plant life and shall comply with the requirements of the Environment Agency. Information is available in the Environment Agency's "Pollution Prevention Guidance" notes.

5. The *Contractor* shall not be permitted to make discharges of any kind into the Pond, watercourses or sewers without the prior written consent of the appropriate authority and shall comply with all their requirements in respect of discharges.

6. The *Contractor* shall employ a dust suppression system where appropriate.

7. Non-road mobile machinery (NRMM) and plant shall be well maintained. If any emissions of dark smoke occur then the relevant machinery should stop immediately and any problem rectified. In addition, the following controls should apply to non-road mobile machinery:

a) all NRMM should use fuel equivalent to ultra-low sulphur diesel (fuel meeting the specification within EN590:2004);
b) all NRMM should comply with either the current or previous EU Directive Staged Emission Standards (97/68/EC, 2002/88/EC, 2004/26/EC). As new emission standards are introduced the acceptable standards should be updated to the previous and most current standard;
c) all NRMM should be fitted with Diesel Particulate Filters (DPF) conforming to defined and demonstrated filtration efficiency (load/duty cycle permitting);
d) the ongoing conformity of plant retrofitted with DPF, to a defined performance standard, should be ensured through a programme of on-site checks; and
e) implementation of energy conservation measures including instructions to throttle down or switch off idle construction equipment; switch off the engines of trucks while they are waiting to access the Site and while they are being loaded or unloaded, ensure equipment is properly maintained to ensure efficient energy consumption.

8. The *Contractor* shall be responsible for producing a construction phase Site Waste Management Plan (SWMP) detailing how all materials generated at the site will be dealt with.

9. The *Contractor* shall adhere to DEFRA guidance (Construction Code of Practice for the Sustainable Use of Soils on Construction Sites) to ensure that damage to soil is minimised.

WI 201.22 Customer Care

No further Scope under this heading.

WI 201.24 Training

No further Scope under this heading.

WI 201.25 Land quality

1. During the *works* it is anticipated that it may be suitable to reuse excavated materials elsewhere within the Site.
2. The *Contractor* shall produce a site plan, showing locations of excavated material, locations of stockpiles and where material have been reused onsite. It will show which areas of topsoil, subsoil and made ground are suitable for reuse; and which areas are considered too contaminated for reuse and are to be disposed off-site.

a) Any arisings to be removed off-site for disposal, will be disposed of in accordance with waste management legislation including the Landfill Regulations 2002 (as amended) and the Hazardous Waste Regulations 2005.

b) During construction works and any demolition, the material will be inspected to ensure that it is suitable and stockpiled appropriately ready for re-use. Any materials that have visual or olfactory evidence of contamination and not considered suitable for re-use should be disposed off-site at suitable licenced facility. Where material is not considered appropriate for re-use, the material will be segregated, stockpiled separately, WAC tested, ready for disposal off site.

c) It is proposed that all Pond arisings will be backfilled over the new structure. As the material is not to be relocated, it is proposed that no testing is undertaken on the Pond material unless visual or olfactory evidence suggests the material may be contaminated.

d) All landward material excavated and set aside for reuse is to be stockpiled and all stockpiles are to be marked on a site plan, recording their location, footprint and height. Stockpiles are to be appropriately covered and maintained throughout the *works* until the material is re-used. Upon reuse, the final destination of all stockpiles is to be noted by the *Contractor* and recorded on a re-use plan which is to be provided to the *Client* upon Completion of the *works*.

5. Reporting

Upon Completion, a report shall be submitted to the *Project Manager* which will include the location, visual assessment, any laboratory test results, and any other relevant data for all samples analyses during construction, both in-situ and on any imported or manufactured soils. The report will also include: photographs of the construction works in progress; and certificates demonstrating imported and/ or material left in site is free of contamination. The report will also contain location data onsite for all batches of imported soil cross referenced to any laboratory results available.

WI 201.26 Licences and Consents

1. The *Client* is responsible for obtaining the following licences / consents:

a) Bespoke Permit from the Environment Agency;
b) Assent from Natural England;
c) Network Rail permissions;
d) Planning Permission from the Local Planning Authority;
e) Discharge of planning conditions from the Local Planning Authority;
f) Permissive Right of Way Closures;
g) Landowner Consent including exemptions from any Byelaws;

Copies of these, will be made available to the *Contractor* once obtained.

2. All other licences, consents and authorisations required to undertake the *works* are the responsibility of the *Contractor* to acquire and pay for. The

Contractor shall comply with any conditions attaching to these additional licences, consents and authorisations.

3. In particular the *Contractor* shall obtain:

a) Environmental Permit for temporary works;
b) Permit to discharge water (if using a cofferdam)

4. Licence Conditions will be made available once obtained the contractor shall adhere to the following;.

a) The *Contractor* must ensure that all wastes are stored in designated hardstanding areas that are isolated from surface water and open water drains.

b) The *Contractor* must notify the Environment Agency of any oil, fuel or chemical spill within the marine environment.

c) The *Contractor* must ensure that any coatings or treatments used during the *works* are suitable for use in the freshwater environment and are used in accordance with best environmental practice.

d) No waste concrete slurry or washout from concrete or cement works is to be discharged into the freshwater environment. Concrete and cement mixing and washing areas should be contained and sited at least 10m from any watercourse or surface water drain.

WI 201.27 Setting-out of the *works*

1. The existing structures vary in both line and level. The new *works* are to be set-out to give an even line and level, as indicated on the drawings, and to ensure that they achieve a good fit with any existing structures.

2. The *Contractor* is responsible for all setting-out of the *works*.

3. The *Contractor* shall agree with the *Project Manager* his proposed methodology of setting-out the *works* prior to commencing with the respective *works*.

4. Once the *works* have been set-out on site the *Contractor* shall obtain approval from the *Project Manager* before proceeding with the associated *works*.

5. Where longitudinal and transverse sections are provided, chainages and details are to be taken from the longitudinal and transverse sections, and not scaled from the plans.

6. Once the works have been set-out on site the Contractor shall obtain approval from the *Project Manager* before proceeding with the associated works.

7. The *Contractor* shall update the setting-out information and comply with sub-clause 6. The *Contractor* shall provide updated setting-out information to the *Project Manager* in advance of the *works*. The information shall be presented on a rolling basis.

Slipways

1. The slipways shall be set out to achieve a smooth access alignment from the land to the Pond and vice versa as set out DWG 2019_41 0600_002

WI 201.28 Water Levels

1. The Peak Pond levels are derived from *'Fleet Pond Hydrology and Hydraulic Modelling'* 2018 AECOM report undertaken for Hart District Council .

Fleet Pond		
Return Period	**mAOD**	**Peak inflow m^3/sec**
1 in 2 year	67.90	2.23
1 in 10 year	67.95	3.49
1 in 50 year	68.01	4.83
1 in 100 year	68.01	5.52
1 in 150 year H++*	68.25	10.77
1 in 10000 year	68.82	35.72

*H++ - Climate Change

Table 2 – Peak Pond Levels

Actual pond levels may vary due to meteorological conditions and the effects of wave action must be considered in addition to the above information.

WI 201.29 Liaison with the Public

1. The *Client* will when required attend informal meetings with land owners and other interested parties during the *works*. The *Contractor* shall attend the meetings with the *Client*, *Project Manager* and *Supervisor*, which will generally be held on site or locally.

WI 201.30 Publicity and Release of Information

1. The written permission of the *Project Manager* must be obtained before any information concerning the *works* is published. The *Contractor* shall be

responsible in this matter for the actions of his own employees, sub-*Contractor*s and suppliers.

WI 201.31 Lighting of Fires

1. Fires shall not be lit on the Site for any purpose.

WI 201.32 Noise, dust and vibrations

1. The *Contractor* is reminded of his obligations to conform with statutes etc. relating to noise matters. In this regard he is advised to contact the appropriate authorities to ensure that his proposals for carrying out the *works* are acceptable.

2. The best practical means, as described in Section 72 of the Control of Pollution Act 1974, to reduce noise to a minimum shall be employed by the *Contractor* at all times.

3. The *Contractor* shall at all times have regard to the recommendations given in BS 5228 Noise Control on Construction and Open Sites and shall ensure that these are brought to the attention of sub-*Contractor*s/operatives. In particular the *Contractor* shall comply with the following requirements.

a) All vehicles and mechanical plant / equipment used for the purpose of the *Works* shall be fitted with effective exhaust silencers;
b) All compressors shall be “sound reduced” models fitted with properly lined and sealed acoustic covers which shall be kept closed whenever the machines are in use, and all ancillary pneumatic percussion tools shall be fitted with mufflers or silencers of a type recommended by the manufacturers;
c) Machines in intermittent use shall be shut down in the intervening periods and where this is impractical, shall be throttled to a minimum;
d) All plant / equipment and machinery shall be maintained in good efficient working order;
e) Stationary plant / equipment is to be sited away from any noise-sensitive areas where practicable and any plant/ equipment known to emit noise strongly in one direction shall be orientated so that the noise is directed away from such areas. Where appropriate, stationary equipment should be shielded by noise barriers;
f) No plant / equipment shall be left running outside the normal working hours specified in WI 201.33, without the prior consent of the *Project Manager*.
g) Electric power equipment rather than diesel to be used whenever possible.
h) The *Contractor* shall avoid the use of construction techniques that produce high energy impact noise where practicable.
i) The *Contractor* shall use piling techniques as far as is practicable to avoid acoustic impacts to the water body.

j) The *Contractor* shall use soft start procedures during any piling activities to ensure incremental increase in pile power over a set period of time until full operational power is achieved.

4. The terms and conditions of this guidance shall be without prejudice to any duty imposed on the *Contractor* by law and in particular by the Health and Safety at Work Act.

5. The *Contractor* shall give consideration to the extent of vibration on nearby structures when selecting the type of plant and method of working to be used.

6. The *Contractor* shall maintain the site and haulage route in a safe and acceptable condition at all times and minimise the production of dust by the use of water spraying or other method.

7. The *Contractor* shall employ suitable dust suppression techniques to reduce the amount of dust released through the *works*. The *Contractor* shall have suitable dust suppression equipment available onsite during the *works* to manage dust when necessary. The *Contractor* shall actively manage the dust on site and undertake dust suppression activities when requested by the *Supervisor*.

8. Where any work is to be undertaken outside of the 07:30 – 18:00 working window on agreement with Hart District Council and the *Project Manager*, the *Contractor* shall monitor noise levels during all out of hours works. The *Contractor* shall make noise recording logs available to the *Client* at any time during the *works* at the request of the *Client* and in any event the *Contractor* is to provide the *Client* with a digital copy of all recorded log data from monitoring equipment upon completion of the *works*.

9. All construction sites regardless of impact should ensure best practicable means are employed to reduce noise emissions to a minimum. The *Project Manager* and *Contractor* shall ensure they are familiar with and implement the guidance regarding mitigation measures contained within Sections 4,6,7 and 8 of British Standard BS5228-1 2009 "Code of practice for noise and vibration control on construction and open sites" and “BS 7385-2:1993: Evaluation and measurement for vibration in buildings. Guide to damage levels from groundborne vibration”.

WI 201.33 Working Hours

1. For all Works;

a) Normal working hours are between 07:30hrs and 18:00hrs, Monday to Friday. All works are permitted during normal working hours.
b) During normal working hours, noise levels outside the nearest window of the occupied room closest to the site boundary should not exceed 65dB (LAeq(12hr)).

2. Different activities to those noted above at the times specified will not be permitted except during an emergency or as agreed with the *Project Manager*. Different activities also include pre-work activities where noise or nuisance is created, e.g. starting pumps, operating machinery, reversing vehicles (where fitted with warning siren) etc.

3. No work shall be carried out at the weekends or on any Bank Holiday without prior written consent of the *Project Manager*. Such consent would only be given in exceptional circumstances.

4. The *Contractor* is to notify the *Supervisor* and all residential properties within 200m of the site boundary at least seven days in advance of any proposed weekend working.

WI 201.34 Site Clearance and Protection of Vegetation

1. All areas of the site specified or marked on the Drawings for clearance or from which material is to be excavated or upon which filling is to be deposited shall be cleared to the extent required by the *Project Manager* of all buildings, walls, gates, fences and other structures and obstructions and of all bushes, hedges, trees, stumps, roots and other vegetation except for trees marked for preservation.

2. Materials identified for reuse shall be carefully dismantled and suitably stored by the *Contractor* until they are incorporated into the *works* or removed from the Site by the *Client*.

3. Materials not for re-use shall be disposed of by the *Contractor* off the *Site*.

4. The *Project Manager* may order areas of the top surface, including topsoil if any, to be stripped to specified depths as a separate operation prior to any further excavation which may be required.

5. The Pond within the site boundary shall be cleared of all debris greater than 150mm in size and timber structures (e.g. stakes protruding from the foreshore) on completion of the works.

6. The *Contractor* shall be responsible for all vegetation removal, below 100mm including trees, stumps and any identified invasive species. The *Contractor* shall seek advice from a qualified ecologist to ensure vegetation clearance is undertaken responsibly. Vegetation clearance shall be undertaken between September to February to avoid bird breeding season (1st March to 31st August) season in accordance with Natural England Assent and prior written consent of the *Project Manager.*

7. The following list summarises the site clearance requirements. If the *contractor* is unsure as to what action to take with the items listed or other items identified on site then he shall seek clarification from the *Project Manager*.

Items to be disposed off-site:

- Height Barrier DWG 2019_41 0900_011

8. Unless otherwise indicated on the drawings all trees within the Site are to be retained. The *Contractor* shall make every effort to avoid damage to these trees during the *works* and shall follow all relevant guidance on this matter including BS5837:2012 Trees in Relation to Construction and refer to the *Tree Protection Report* and DWG's 2019_41 0300_001 Sheets 1 of 1, 2 of 3, 3 of 3 Tree Protection Fencing and 2019_41 0900_004 Tree Root Mat Protection Area. If any roots over 25mm diameter are found outside the root protection area a HDC arboriculturist or their nominated representative should be contacted.

9. Fencing must be erected around the circumference of the tree canopy and maintained during the occupation of the site where trees are specifically required to be preserved in accordance with *Tree Protection Report* and DWG's 2019_41 0300_001 Sheets 1 of 1, 2 of 3, 3 of 3 Tree Protection Fencing and 2019_41 0900_004 Tree Root Mat Protection Area.

10. Trees identified for removal shall be uprooted or cut down as near to ground level as possible. All felled timber shall be removed from the Site. All stumps shall be grubbed up or ground out and deposited off the site. Holes left by stumps or roots shall within one week be filled with suitable material.

11. The *Contractor* shall take every precaution to avoid damage to vegetation which is not to be removed.

12. Further removal of vegetation shall only be allowed with the *Project Manager's* permission.

13. Any further works required by the *Contractor*, including pruning and felling (with the exception of barriers and ground protection within the working area), shall be in accordance with BS 3998 'Recommendations for Tree Work 1989'. BS 5837 and National Joint Utilities Group Volume 4. The *Contractor* shall submit details of the extent of pruning needed and to which trees to the *Project Manager* for approval. Any such works are to be minimised as far as is practicable.

14. Haulage Routes have been identified so as to minimise the impact upon or removal of existing trees.

15. Where any haulage route, compound or working area encroaches within 3m of a tree to be retained, the root protection zone (RPA, as defined in BS5837:2010 Trees in relation to Design, Demolition and Construction – Recommendations Section 4, Sect 5 and Table D1.) is to be protected by no dig

paving construction using porous surfacing and sub-base materials retained by cell based systems shall be used for roads and paths. *Contractors* undertaking pre-construction tree works are not to encroach on the RPA of trees to be retained with equipment, plant or materials unless given permission by the *Project Manager*.

16. No compaction of soil within RPA is to take place.

17. No material is to be stored, nor spillage of fluids to occur, within the RPA unless given permission by the *Project Manager*.

18. Any proposed reduction in RPA must be balanced by approved branch thinning and subject to confirmation by the *Supervisor*. Where it is necessary to cut branches from trees which are to be preserved, the guidelines in BS3998:2010 Tree Work recommendations are to be followed.

19. Where the design requires hard surfaces to be constructed within the RPA of any trees a no dig method of construction shall be adopted.

20. If during any earthworks roots from a tree to be retained are encountered they shall be cut with a saw to reduce damage to the tree. Exposed roots shall be covered up within 24 hours of exposure. Where this is not practicable wet hessian may be used as temporary cover.

WI 201.35 Temporary Working and Access Areas Not to be Re-shaped as Part of the *works*

1. The *Contractor* is reminded of his obligations to include for the preparation for, the use of, and the reinstatement and maintenance of all temporary working and access areas to at least their original condition. This shall apply to areas where original ground contours are not to be reshaped as part of the *works*.

2. On commencement of the *works* in any section the *Contractor* shall firstly remove topsoil from such areas that he proposes to use. The topsoil shall be stored and re-used in accordance with the Specification. Reinstatement shall be in accordance with the Specification. The *Contractor* shall also comply with Specification WI 201.25.

3. The *Contractor* shall adhere to DEFRA guidance (Construction Code of Practice for the Sustainable Use of Soils on Construction Sites) to ensure that damage to soil is minimised.

4. Suitable temporary haulage roads shall be constructed or other measures taken as necessary to minimise damaging topsoil structure during occupation.

5. Areas which exist as unpaved land shall be reinstated to at least their original condition.

6. Temporary footpaths are to be 1.5m wide and suitable for pedestrian and disabled access in all weather, with the *Contractor* specifying the material detail. They shall be cleared and repaired as necessary to maintain access at all times.

Areas which exist as footpaths or pathways shall be reinstated to at least their original condition.

WI 201.36 Parking

1. The *Contractor* shall accommodate all site staff parking within the *boundaries of the site* as set out in DWG 2019_41 0900_010 as far as is reasonably practicable.

WI 201.37 Use of Cranes

No further Scope under this heading.

WI 201.38 Use (or non-use) of Explosives

1. The use of explosives is not permitted.

WI 201.39 Restrictions on the use of hazardous materials

Refer to WI 201.20 Hazardous Substances.

WI 201.40 Storage of Fuel and Chemicals

Refer to WI 201.20 Hazardous Substances.

WI 201.41 Pollution, Ecological or Environmental Impacts

Refer to WI 201.21 Environment and Sustainability.

WI 201.42 Archaeological Requirements

No further Scope under this heading

WI 201.43 Interface between the *works* and Existing Things

Refer to WI 201.13 Protection against Damage.

WI 201.44 Occupied Premises and Users

No further Scope under this heading.

WI 201.45 *Client* Specific Policies and Procedures

No further Scope under this heading.

WI 201.46 Constraints Imposed to Meet Requirements of Others

No further Scope under this heading.

WI 201.47 Confidentiality

No further Scope under this heading.

WI 201.48 Security and Protection of the Site

Refer to WI 201.19 Emergency Arrangements and WI 201.9 Temporary Site Fencing and Gates.

WI 201.49 Security and Identification of People

No further Scope under this heading.

WI 201.50 Protection of existing structures and services

Refer to WI 201.13 Protection against Damage.

WI 201.51 Protection of the *works*

Refer to WI 201.13 Protection against Damage.

WI 201.52 Cleanliness of roads

Refer to WI 201.18 Traffic Requirements.

WI 201.53 Traffic management

Refer to WI 201.6 Entry onto the Site and WI 201.18 Traffic Requirements.

WI 201.54 Condition survey

Refer to WI 201.7 Survey of Highways, Properties and Land.

WI 201.55 Consideration of Others

No further Scope under this heading.

WI 201.56 Industrial Relations

No further Scope under this heading.

WI 201.57 Control of Site Personnel

No further Scope under this heading.

WI 201.58 Site cleanliness

Refer to WI 201.5 Tidiness of Site.

WI 201.59 Waste Materials

No further Scope under this heading.

WI 201.60 Deleterious and hazardous materials

No further Scope under this heading.

WI 201.61 Delivery and collection times

1. Deliveries to the Site, including the collection of plant, equipment and materials from the site are permitted Monday to Friday between 07:30 hours and 18:00 hours. Deliveries should be planned to avoid 'peak public traffic hours' where practicable.

2. The *Contractor* must make adequate provision to prevent site delivery vehicles impacting on the public highway, this should include adequate space within the boundaries of the site to stack waiting vehicles. No traffic in connection with these works will be allowed to wait on the public highway. Vehicles entering the site to have priority over vehicles leaving the site.

WI 201.62 Reuse of Bulk Materials

1. The *Contractor* should aim to reuse any site won materials within the *works* or onsite wherever possible. Any site won materials are to be inspected and tested where necessary to ensure suitability for re-use. Where re-use is not considered appropriate the material will be segregated and disposed off site a suitable licenced facility.

2. Hard structures broken out as part of the *works* are unlikely to suitable for reuse and any concrete, steel, rubble or other materials are to be sorted and segregated and disposed off site to either a suitable licenced waste facility or sold as scrap to a licenced scrap merchant. Any income derived from the sale of scrap material shall be for the benefit of the scheme and any income offset against the price of the *works*.

3. It is anticipated that the following broad categories of material will be excavated within the site:

Material	Usage
Topsoil	Topsoil can be reused within the Site
Subsoil	Subsoil can be reused within the Site
Made ground	Made ground material can be reused within the construction if sample results are within agreed threshold levels and the material complies with the fill material specification.
Existing hard structures	Demolition arisings (not including the topsoil and subsoil as noted above) from the existing structures shall be disposed off site (i.e. crushed concrete, slipway material) to suitable licensed facilities or reused within the Site if the material complies with the fill material specification.

4. If the soil is unsuitable for use on site then:

- The *Project Manager* may amend the drawings / specification to mitigate this, and / or:
- The *Contractor* may have to import / locate suitable material for use as fill to the site, and / or.
- The *Contractor* may have to dispose of material off site.

5. All other materials won from excavations that are not for reuse on site shall be disposed of off-site in accordance with waste management legislation including the Landfill Regulations 2002 (as amended) and the Hazardous Waste Regulations 2005.

WI 201.63 Stability of Existing Walls and Structures

1. The *Contractor* shall not rely on, without checking their capacity and condition, any existing structures as a structural support for any temporary works.

2. The *Contractor* shall be responsible for ensuring the stability of the existing walls and associated structures (i.e. that they do not destabilise further) during the *works*.

3. Further information regarding geometry and construction of existing walls and structures is set out in the Site Information.

4. The length of existing walls that are temporarily exposed and/or made less stable and/or reduced in crest level shall be minimised.

WI 201.64 Temporary foot/cycle path diversion

1. The *Client* will provide and maintain footpath diversion signage.

2.The Contractor will provide 3 ‘FOOTPATH CLOSED’ signs 600mm x 450mm white writing on red background. The signs will be fixed to the site fencing at either end of the site. The signs will be clean and legible for the duration of the works

WI 301 SECTION 1 – *CONTRACTOR*'S DESIGN

WI 301.25 Works to be Designed by *Contractor*

No further Scope under this heading.

WI 301.26 Design Responsibility

No further Scope under this heading.

WI 301.27 Design Submission Procedures

No further Scope under this heading.

WI 301.28 Design Approvals from Others

No further Scope under this heading.

WI 301.29 *Client*'s Requirements

No further Scope under this heading.

WI 301.30 Design Coordination

No further Scope under this heading.

WI 301.31 Requirements of Others

No further Scope under this heading.

WI 301.32 Copyright / Licence

No further Scope under this heading.

WI 301.33 Access to Information Following Completion

No further Scope under this heading.

WI 401 SECTION 1 – COMPLETION

WI 401.25 Sectional Completion Definition

1. Footpath Construction.
Sectional Completion of 'Footpath Construction' will require the following works to be constructed and commissioned:

a) All works relating to footpath construction including sheet piling, timber edging, all layers up to and including the self binding gravel course.
b) Pre-fabricated wooden bridge installed
c) Slipway construction completed.

WI 401.26 Final Clean

No further Scope under this heading.

WI 401.27 Security

No further Scope under this heading.

WI 401.28 Correcting Defects

1. Before Completion the *Contractor* shall discuss their plans for the correction of defects in advance with the *Supervisor*.

2. After Completion the *Contractor* shall discuss and agree their plans for accessing the Site for the correction of defects with the *Project Manager*.

WI 401.29 Pre-Completion Arrangements

1. The *Contractor* shall arrange and undertake a pre-completion joint walkover of the *works* with the *Project Manager* and *Supervisor* to identify any outstanding defects.

WI 401.30 Take Over

No further Scope under this heading.

WI 501 SECTION 1 – PROGRAMME

WI 501.25 Programme Requirements

1. The *Contractor* shall ensure through planning and programming of the *works* that the existing structures that are to remain in place are not damaged or de-stabilised when the new works are constructed.

2. The *Contractor* shall submit in writing to the *Project Manager* every week an outline list of activities showing the activities for a two week rolling period. The list of activities shall be submitted on Friday of the preceding week. Any out of regular hours working must be clearly indicated to allow planning of appropriate attendance by the *Project Manager*.

3. The programme shall use a different coloured font from the rest of the programme for any actions to be undertaken by the *Client, Project Manager, Supervisor* and *Others.* These are to be agreed by the *Project Manager* to ensure consistency.

4. The *Contractor* shall discuss the revised programme with the *Project Manager* and *Supervisor* one week before the due date for submission. Comments and changes can then be made before submission.

5. Revised programmes will include a short narrative on actual progress achieved and percentage of time completed on each task.

WI 501.26 Programme Arrangement

1. The programme shall be submitted in both Microsoft Project and PDF format.

WI 501.27 Method Statement

1. The *Contractor* shall submit on appointment Method Statements and Risk Assessments for each activity on the activity schedule, whether directly controlled or subcontracted, to the *Project Manager* for his information at the same time as the programme submission unless agreed otherwise with the *Project Manager*.

2.The Method Statements and Risk Assessments shall take into account the requirements of the CEMP.

3. The *Contractor* shall submit a Schedule of Method Statements and Risk Assessments with his programme. The schedule shall list each of the Method Statements together with the date of its submission or where applicable the planned submission date.

4. Where the *Project Manager* has agreed that Method Statements and Risk Assessments can be submitted at a later date in the programme the *Contractor* shall submit them to the *Project Manager* at least two weeks before the commencement date of that activity.

5. Method Statements and Risk Assessments shall describe how the *Contractor* plans to undertake the activities including any planned temporary works and shall include a risk assessment of the activities. They shall also include the principal equipment, people, plant and materials that the *Contractor* plans to use.

6. Method Statements and Risk Assessments shall identify hold points and contain:

a) Work instructions;
b) Quality control procedures;
c) Compliance testing/ inspection arrangements;
d) Work acceptance procedures

WI 501.29 Work of the *Client* and Others

1. The *Client* will provide the sheet piles the *contractor* will collect from the storage area at HDC Countryside Services, location to be confirmed.

2. The *Client* will provide the pre-fabricated wooden and steel bridge. The *Contractor* will work with the fabricator to arrange delivery and/or construction by the fabricator. The *Project Manager* will provide the appropriate contact details.

3. The *Client* will provide the steel sheet piles required for the *works.* The *Contractor* will arrange collection

WI 501.30 Revised Programme

1. The *Contractor* shall include a description of changes that have been made to the programme with each submission of a revised programme.

2. Prior to submission of each revised programme, the *Contractor* shall discuss changes to the programme with the *Project Manager.*

WI 601 SECTION 1 – QUALITY MANAGEMENT

WI 601.25 Samples

No further Scope under this heading.

WI 601.26 Quality Plan

1. The *Contractor* is required to produce a Quality Plan prior to the commencement of the *works*.

2.The *Contractor's* Quality Plan shall include:

a) Definition of the product or service to be provided.
b) The organisation of the *Contractor* describing the line of command and stating the name of the *Contractor's* manager responsible for the contracted Work and the name of the *Contractor's* on-site management representative. Contact addresses, telephone numbers etc. shall be provided.
c) Identification of the relevant parts of the *Contractor's* quality system relevant to the product or service being provided (copies to be provided to the *Project Manager* on request).
d) The control of personnel selection (at works and on site), including special requirements for skilled personnel e.g. certification of welders, training of operatives, experience requirements etc.
e) *Contractor's* Construction Quality Control

and specific procedures for the following:

a) *Receipt and examination of certificates of conformity and test results for purchased products.
b) *Product identification and traceability.
c) *Handling, storage, packaging and delivery to Site and storage and handling on Site.
d) Quality records

Items marked *: where available and appropriate, copies of the *Contractor's* quality system/general procedures may be acceptable.

3. The *Contractor's* Quality Management System will make provision for traceability of components, materials and products from source to final installation in the permanent works. For each component, material or product the manufacturer's and/or supplier's cast, batch or other identifying number or reference shall be recorded together with any test certificates or associated documentation and the final location of each component, material or product within the permanent works shall also be recorded.

4. Where work or materials required under the contract are covered by a Quality Assurance Scheme only work or materials provided through such a Scheme shall be used.

5. Any material or article used in compliance with British, European, American or other Internationally recognised Standard for which there is an associated Safety Mark Scheme, or used in compliance with any other requirement of this Specification, (including other Standards), for which there is an Accepted Quality Assurance Scheme, shall bear the Certification Mark of the Scheme.

6. Where the supply of materials or articles that require an Agreement Board Certificate, or type approval, are required or allowed by the contract, only materials or articles so certified, type approved or registered shall be used in the Contract.

7. Nothing in this Clause shall relieve the *Contractor* from his obligations under the contract.

WI 601.27 Quality Management System

1. The *Contractor* shall operate a Quality Management System (QMS) in accordance with requirements of BS EN ISO 9001:2015.

2.The quality policy statement and quality plan shall conform with the requirements of the *Contractor's* QMS.

3.The *Contractor* shall carry out the *works* in accordance with their QMS.

WI 601.30 *Contractor*'s Construction Quality Control

i.The *Contractor's* Construction Quality Control section of the Quality Plan shall include:

a) Statement of the *Contractor's* organisation for quality control.
b) The quality plan shall identify procedures (which may be a part of the *Contractor's* general procedures) that cover the topics listed below. Copies of these procedures shall be made available to the *Project Manager* on request.
c) Arrangements for 'receiving' and 'in-process' testing.
d) Control of test laboratories where applicable.
e) Control of test, measuring and inspection equipment.
f) Document control.
g) Procedures for monitoring and recording the inspection, test and approval status of the constructed/installed work.
h) Procedures for tests and inspections for the purpose of the *Contractor* certifying that prior to covering up, each part of the *works* is complete and conforms to the Contract.
i) Procedure for the review of work submitted for review but not accepted as conforming to the Contract.
j) Procedure for the collation of quality records as identified in BS EN ISO 9002, and provision of copies when requested by the *Project Manager*.

WI 601.31 Building Information Modelling (BIM)

No further Scope under this heading.

WI 701 SECTION 1 – TESTS AND INSPECTIONS

WI 701.25 Tests and Inspections

WI 702 No further Scope under this heading.

WI 702.25 Management of Tests and Inspections

No further Scope under this heading.

WI 702.26 Covering Up Completed Work

1. The *Contractor* shall not permit any works to be covered until they have been inspected by the *Supervisor* and he must give sufficient notice when the work is ready for inspection as to allow the *Supervisor* to make arrangements for inspection. Should the work be covered contrary to this stipulation, the *Contractor* shall uncover the same.

WI 702.27 Supervisor's Procedures for Inspections and Watching Tests

1. The *Contractor* will work with the *Supervisor* to jointly inspect sections of work and identify potential defects early as the work progresses. One of the contractor's engineers shall inspect the works (e.g. pre-pour inspection) and correct any issues prior to requesting the Supervisor to undertake the joint inspection.

WI 702.28 Quality Assurance Checks

1. All *Contractor* survey data is to be backed up to ensure no loss of information occurs.

WI 801 SECTION 1 – MANAGEMENT OF THE WORKS

WI 801.25 Project Team – Others

No further Scope under this heading.

WI 801.26 Communications

1. A communication has effect when it is received through email.

2.A start-up meeting shall be held near to the Site prior to commencement of the *works* at a location chosen by the *Client* and attended by the *Contractor*, *Client*, *Project Manager* and *Supervisor*.

3. Weekly progress meetings shall be held on *Site* and attended by the *Contractor* (and main sub-contractors), *Client*, *Project Manager* and *Supervisor*. The progress meetings shall be chaired by the *Project Manager*.

4. The *Contractor* is to provide monthly progress reports to the *Project Manager* at least 3 days prior to each progress meeting or as otherwise agreed with the *Project Manager*.

5. A weekly full and detailed joint site walkover should be undertaken throughout the duration of the *works* attended by the *Contractor's* site manager and the *Supervisor*, to discuss progress, issues and forward programme.

6. The *Supervisor* should be invited to attend daily briefings from *Contractor*.

WI 801.27 Progress Photographs

1. The *Contractor* shall provide the *Project Manager* with digital progress photographs of the *works,* taken;

a) Within the week prior to the date of starting the *works* on site;
b) At weekly intervals;
c) On completion.

2. The photographs shall be of sufficient quality and the file name shall contain date, subject and location information. All images are to be provided to the *Client* for unrestricted use as they see fit.

WI 901 SECTION 1 – WORKING WITH THE *CLIENT* AND OTHERS

WI 901.25 Sharing the Working Areas

No further Scope under this heading.

WI 901.26 Co-operation

1. Integrated Delivery Team: It is the *Client's* intention to form an Integrated Delivery Team with both parties working collaboratively together to deliver the project through co-ownership of agreed objectives.

2. The *Supervisor* will be present on site to provide technical knowledge and prompt decision making in support of the *Contractor's* team. The *Supervisor* will not be available for all working hours. The *Contractor* shall provide sufficient notice to arrange joint inspections.

3. The *Contractor's* site manager is expected to work closely and collaboratively with the Supervisor on a day to day basis to ensure efficient and quality delivery of the *works*. The *Contractor* is required to liaise with the *Supervisor* to give appropriate notice to ensure the *Supervisor* is onsite for tests and inspections. The *Contractor* is required to contribute to the resolution of issues and actively work with the *Project Manager* and *Supervisor* to propose solutions and respond promptly.

4. The *Contractor* shall ensure that consideration is given to the requirement of an Integrated Delivery Team approach when selecting their project staff and shall actively seek to maximise the benefit that can be gained from this delivery model.

WI 901.27 Co-ordination

No further Scope under this heading.

WI 901.28 Authorities and Utilities Providers

No further Scope under this heading.

WI 1001 SECTION 1 – SERVICES AND OTHER THINGS TO BE PROVIDED BY THE *CONTRACTOR*

WI 1001.2 Accommodation for the Contract

Insert the following sub-clause(s) in **clause 1.2**.

1. The location for the site compound is shown on the contract drawings. All site accommodation, services, conveniences, and material storage etc. shall be located within the site compound shown on DWG 2019_41 0900_005. Parking is shown on DWG 2019_41 0900_010.

2. The *Contractor* may propose alternative arrangements for the site compound and storage areas. However, these shall be submitted to the *Project Manager* for approval. For alternative arrangements, it shall be the responsibility of the *Contractor* to negotiate, arrange, pay for and reinstate the areas.

83 The *Contractor* shall provide the following shared facilities for use by both the *Client* and the *Contractor*:

a) Toilet and wash facilities. Separate key accessed toilet for female use only. Access to the female toilet facilities must not be through the male toilets.
b) Drying room

WI 1001.3 Billposting and Advertising

1. Billposting or advertising of any kind shall not be undertaken.

2. The *Contractor* may place company branding on the site but only with the prior written permission of the *Supervisor* for each individual item of branding.

WI 1001.8 Levels and Reference Points

Insert the following sub-clause(s) in **clause 1.8**.

2. The *works* datum level shall be Ordnance Survey Datum Newlyn.

3. A temporary benchmark(s) shall be established on site by the *Contractor* for checking by the *Supervisor* prior to setting out the *works* and the level maintained throughout the *works*. All benchmarks should be periodically checked and verified, segregated from site traffic and of suitable “robustness” to last the Works.

4. The topographic survey of the site is included within the *Site Information*.

5. The *Contractor* shall satisfy himself that the existing ground levels and levels and locations of structures, where they are relevant to the *works* as indicated in the Contract, are correct.

6. If the *Contractor* considers that there is an inconsistency with the information given he shall refer it to the *Project Manager* for resolution before work commences.

WI 1001.23 Asset Records

Insert the following sub-clause(s) in **clause 1.23**.

2. Prior to Completion of the *works* the *Contractor* shall prepare As-Built Documents including drawings, survey drawings and any other relevant drawings and documents incorporating all changes made during the performance of the Contract so that they form a true and accurate record of what has actually been supplied or provided. All drawings shall be in Autocad 2019 format.

3. To accompany the As-Built Documents the *Contractor* shall provide a Schedule of As-Built Documents. This Schedule shall list all drawings and documents produced on the *Project*, recorded in project drawing number sequence and shall state the latest revision number and, where applicable, shall indicate that each drawing has been certified “As-Built”. Where a drawing is not submitted as a record drawing the reason (e.g.: deleted, superseded, etc.) must be stated. The Schedule shall be submitted to the *Project Manager* for review and comment prior to submission of the As-Built Documents.

4. The approved Schedule and approved As-Built Documents shall be completed and provided to the *Project Manager* prior to the issue of the Completion Certificate. The *Contractor* shall submit draft As-Built Documents to the *Project Manager* for his review 4 weeks prior to the date of planned Completion shown on the latest accepted programme, following which the *Project Manager* will give his comments, if any, to the *Contractor*. The *Contractor* shall modify the As-Built Documents in the light of the *Project Manager’s* comments and shall re-submit to the *Project Manager* who shall respond within two weeks.

5. When the *Project Manager* has reviewed the submissions and re-submissions and has no further comments, the *Contractor* shall provide two paper copies and 3 copies in electronic format, on portable data storage device (e.g. USB) as agreed with the *Project Manager*, of all As-Built Documents.

WI 1001.25 Temporary Utilities

1. The *Contractor* shall obtain all necessary approvals, comply with the relevant utility authority’s requirement and provide and pay for all temporary services he may require, or the *Project Manager* and *Supervisor* may require within the Site, including collection of waste.

2. Upon completion of the *works* the *Contractor* shall remove all temporary services and reinstate the area to its original condition.

WI 1001.26 Services Provided by the *Client*

No further Scope under this heading.

WI 1001.27 PPE Provision

1. The *Contractor* is to ensure all site staff working on the site for greater than five working days are provided with the *Contractor's* company or project branded PPE at all times. PPE with third party branding shall not be permitted.

2. All PPE is to be in good condition and free from rips, tears, holes, and excessive discolouration or staining.

WI 1001.28 Site Inductions

1. The *Contractor* shall undertake all site inductions at all times and at short notice. This includes all *Client* staff and visitors. The *Client* will not undertake any site inductions on behalf of the *Contractor* at any time.

WI 1001.29 Respectable Staff

1. Good public and stakeholder communication, and a focus on limiting disruption to local residents and businesses must remain a key ethos throughout delivery of the project to which all parties must demonstrate a commitment.

2. All *Contractor* staff on site must be respectful and polite to members of the public at all times. Any queries or complaints must be recorded and reported to the *Supervisor*.

3. All *Contractor* staff must behave responsibly and with consideration for others at all times on site.

4. All *Contractor* staff must be respectful to the *Client* and visitors at all times.

WI 1001.30 Vehicles

1. All project vehicles, including off-road vehicles, will hold current MOT certificates, where applicable and where required due to the age of the vehicle and that they will comply with exhaust emission regulations for their class. Ensure all vehicles switch off engines when stationary - no idling vehicles.

2. Plant will be well maintained, with routine servicing of plant and vehicles to be completed in accordance with the manufacturer's recommendations and records maintained for the work undertaken.

WI 1001.31 Traffic marshalling at sensitive areas

1. The *Contractor* shall provide traffic marshals as set out in DWG 2019_41 0900_003. wherever the haulage road, crossing points and site activities interface with the public highway and footpaths.

WI 1001.32 Silt Curtain

1. In order to prevent suspended sediments entering the wider Pond, the *Contractor* shall deploy and maintain a silt curtain at all times in areas where excavation and machine access is being carried out below the water level, or where there is a risk of sediments from other works on site entering the water or being deposited on the foreshore. This requirement is to apply for the full extent of the Site. The Silt curtain shall tie into the existing main culvert in such a way that silt released into the pond is minimised.

2. The silt curtain shall be designed and manufactured by a competent company and shall have sufficient buoyancy in its head rope for the wave climate. The foot chain shall also be heavy enough to ensure that the foot stays on the floor of the pond. The depth of the curtain shall be sufficient to reach from highest flood event to normal level. It should be suitably anchored to the shore at each end and at suitable intervals to prevent it drifting out of position.

3. A silt curtain is required along the whole frontage and must be retained on location for at least one month following competition of the footpath and slipway works.

WI 1101 SECTION 1 – HEALTH AND SAFETY

WI 1101.25 Health and Safety Requirements

1. The *Project Manager* and *Supervisor* shall be entitled to inspect all registers, reports and certificates which the *Contractor* is required by Law to keep and issue in respect of Safety matters and accidents.

2. The *Contractor* shall inform the *Project Manager* and *Supervisor* of any accidents, injury or incident at the earliest opportunity. This is to include “near misses”.

3. The *Contractor* shall invite the *Client*, *Project Manager and Supervisor* to any ‘ToolBox’ talks undertaken. The *Contractor* will provide to the *Supervisor* a record summary of the ‘ToolBox’ talk including date, time and length, subject area discussed and who attended.

WI 1101.26 Method Statements

Refer to Clause WI 501.27.

WI 1101.27 Legal Requirements

No further Scope under this heading.

WI 1101.28 Inspections

No further Scope under this heading.

WI 1101.29 Construction (Design and Management) Regulations (CDM)

1. The *Contractor* shall prepare the Construction Phase Plan in accordance with the requirements set out in the Regulation 12 of CDM 2015 and L153 ‘Managing Health and Safety in Construction Guidance on Regulations’, which shall be submitted to the Principal Designer as early as possible but no later than 2 weeks prior to the planned start of the construction phase / mobilisation to site, for review by the Principal Designer to advise the *Client* of its compliance with Regulation 12. Submission shall ensure that it encompasses all relevant sections required by L153 Appendix 3.

No works shall commence until the Construction Phase Plan is deemed compliant by the Principal Designer on behalf of the *Client* and an instruction is given by the *Project Manager* for commencement.

The *Contractor* must plan, manage and coordinate work during the construction phase taking account of the information contained in the Pre Construction Information (PCI) provided by the Principal Designer on behalf of the *Client*, and any other information provided by *Contractor*s and designers.

2. Information required for the Health and Safety File shall conform to the following.

The Principal Designer will identify the information to be supplied by the Principal *Contractor* for the Health and Safety File and it is anticipated that the following information will be required:

a) a brief description of the work carried out;
b) any hazards that have not been eliminated through the design and construction processes, and how they have been addressed (eg surveys or other information concerning asbestos or contaminated land);
c) key structural principles (e.g. bracing, sources of substantial stored energy – including pre- or post-tensioned members) and safe working loads for floors and roofs;
d) hazardous materials used (e.g. lead paints and special coatings);
e) information regarding the removal or dismantling of installed plant and equipment (e.g. any special arrangements for lifting such equipment);
f) health and safety information about equipment provided for cleaning or maintaining the structure;
g) the nature, location and markings of significant services, including underground cables; gas supply equipment; fire-fighting services etc;
h) information and as-built drawings of the building/structure, its plant and equipment (eg the means of safe access to and from service chambers and any flap valves).

3. The *Contractor* shall provide the Principal Designer with three copies of all information which is required to be placed on the Health and Safety File. (One copy will be passed to the *Project Manager*). The information will be provided as set out in WI 1001.23(5).

WI 1201 SECTION 1 – SUBCONTRACTING

WI 1201.25 Restrictions / Requirements for Subcontractors

No further Scope under this heading.

WI 1201.26 Acceptance Procedures

No further Scope under this heading.

WI 1301 SECTION 1 – TITLE

WI 1301.25 Marking

1. Payment will not be made for Equipment, Plant and Materials which are outside of the Site.

WI 1301.26 Materials from Excavation and Demolition

Refer to clause WI 201.59.

WI 1401 SECTION 1 – ACCEPTANCE OR PROCUREMENT PROCEDURE

WI 1401.25 Acceptance or Procurement Procedure

No further Scope under this heading.

WI 1501 SECTION 1 – ACCOUNTS AND RECORDS

WI 1501.25 Additional Records

1. The *Contractor* shall submit electronically to the *Project Manager* weekly, a detailed statement of all daily plant/ equipment and personnel employed on the *works*, together with details of breakdowns and periods of stoppages.

WI 1601 SECTION 1 – PARENT COMPANY GUARANTEE

WI 1601.25 Form of Parent Company Guarantee

No further Scope under this heading.

WI 1701 SECTION 1 – PERFORMANCE BOND

WI 1701.25 Form of Performance Bond

No further Scope under this heading.

WI 1801 SECTION 1 – ADVANCED PAYMENT BOND

WI 1801.25 Form of Advanced Payment Bond

No further Scope under this heading.

WI 1901 SECTION 1 – LOW PERFORMANCE DAMAGES

WI 1901.25 Low Performance Damages

No further Scope under this heading.

WI 2002 SECTION 2 – MATERIALS

WI 2002.20 Concrete – General

Insert the following sub-clause(s) in **clause 2.20**.

6. Concrete for kerb haunching and draw pit surrounds shall be Standardized Prescribed Concrete ST1.

WI 2002.21 Concrete – Ready-mixed

Delete **sub-clause 3** and replace with:

3. The delivery ticket required for each load of ready-mixed concrete shall, in addition to the information prescribed under BS EN 206-1 Clause 7.3, detail:

a) the type of aggregate;
b) the actual cementitious content and the percentage of any PFA or GGBS included;
c) the position of the concrete in the *works*. (details to be inserted at the point of discharge);
d) the proportion of any admixture; and
e) the time of arrival on Site.

WI 2002.50 General Filling Materials

Insert the following sub-clause(s) in **clause 2.50**.

1. Bramshill 20mm single size gravel shall be compacted in 100mm layers with 6 passes

2. The *Contractor* shall provide a full set of test results demonstrating that the proposed imported materials comply with the specification before transportation to site. A full set of test results shall be provided for each source of proposed material to demonstrate compliance with the specification.

Insert the following sub-clause(s) in **clause 2.50**.

3. General Granular Fill shall be either:

a) Class 6N of Table 6/1 of Volume 1 of the Specification for Highway Works.
b) Site won Selected Fill in accordance with Sub-clause 2.

WI 2002.55 Granular Sub-Base Material

Replace the first sentence in **clause 2.55 sub-clause 1** with:

1. Granular sub-base material shall be Type 1 in accordance with Specification for Highway Works, clause 803 (SHW 803).

WI 2002.74 Manhole Covers and Frames

Insert the following sub-clause(s) in **clause 2.74**.

1. Existing manhole covers and frames shall be raised or lowered where necessary to new ground levels as shown on the drawings.

2. Replacement manhole covers and frames shall be recessed covers and be infilled to match surrounding surfacing.

3. Replacement manhole covers and frames for British Telecom services shall be in accordance with the Openreach Technical Specification LN320.

4. The Contractor shall undertake raising of manhole covers and frames in accordance with the details in the Scope. If the details are not included in the Scope then the Contractor shall agree the detail of the raising with the respective asset owner or standard SHW HCD (F Series).

5. Manhole covers supplied shall be in accordance with DWG 2019_41 0600_001

WI 2002.82 Mortar

Insert the following sub-clause(s) in **clause 2.82**.

5. Unless otherwise stated, mortar shall conform to BS 7533:4 2006, including the recommended properties in Table 3 for Laying Course.

WI 2002.86 Nuts, Screws, Washers and Bolts

Insert the following sub-clause(s) in **clause 2.86**.

1. Black bolts shall be grade 4.6; nuts shall be grade 4.

2. All black bolts and associated nuts and washers shall be galvanised, where specified, to BS EN ISO 1460.

3. Stainless steel nuts, screws, washers, bolts and coach bolts shall be manufactured from stainless steel class A4-80 to BS EN ISO 3506-1.

WI 2002.90 Pipe Surround Materials

1. Processed granular and as-dug bedding, sidefill and surround materials for buried pipelines shall comply with WIS 4-08-02.

2. Recycled materials shall comply with BS 8500-2.

WI 2002.91 Pipes for Ducts

1. Pipes for ducts shall comply with DWG 2019_41 0600_001

WI 2002.92 Pipes for Land Drainage and Temporary Drains

Delete sub-clause 1 and replace with:

1. Pipes are to be plastic field drains to BS 4962.

WI 2002.99 Precast Concrete Flags and Paving Blocks

1. Precast concrete blocks used for the construction of the Slipway shall be in accordance with DWG 2019_41 0600_002.

WI 2002.100 Precast Concrete Kerbs, Channels, Edgings and Quadrants

1. Precast concrete kerbs, channels and edgings shall be hydraulically pressed, all kerb works shall be in accordance with DWG 2019_41 1100_005

WI 2002.101 Precast Concrete Manholes and Soakaways

1. Precast concrete manhole and soakaway units shall be in accordance with DWG 2019_41 0600_001.

WI 2002.102 Precast Concrete Box Culverts

1. Precast concrete box culverts shall comply with BS EN 14844. All culvert works shall be in accordance with DWG 2019_41 1100_006.

WI 2002.120 Steel Sheet Piles

Delete sub-clause 3 in **clause 2.121** and replace with the following.

1. The steel sheet piles shall be grade S275GP to BS EN 10248 Part 1.

2. At corners, steel sheet piles shall be connected using a Delta 13 pile connection.

3. Piles shall not be painted.

4. Piles exposed to the water will be clad and faced in either Larch or Oak.

5. The sheet piles will be L8 Galvanised sheet piles 1500mm these will be made available to the Contractor for collection from a HDC depot. Location and contact details will be provided at the inception meeting.

WI 2002.123 Structural Steel

No further Scope under this heading.

WI 2002.126 Timber and Preservation of Timber

Insert the following sub-clause(s) in **clause 2.126**.

4. Timber for fences shall have a natural durability or be treated to achieve a desired service life of 30 years for Use Class 3 Service Factor C to BS 8417:2011+A1:2014.

WI 2002.134 Water

Insert the following sub-clause(s) in **clause 2.134**.

1. The requirements of **sub-clause 1** also apply to water for all concreting or concrete related operations.

WI 2002.143 Ducting

1. Ducting shall be in accordance with DWG 2019_41 0600_001.

WI 2002.144 Self Binding Gravel

1. Self Binding Gravel Surface Course for use on footpaths shall be 75mm thick after compaction Harmer Warren Self Binding Gravel or equivalent approved by the *Project Manager*.

WI 2002.145 Planting Specification

No further scope under this heading

WI 2002.153 Landscaping works

No further Scope under this heading

WI 2002.154 Timber Cladding

1. Timber for cladding shall have a natural durability or be treated to achieve a desired service life of 30 years for Use Class 3 Service Factor C to BS 8417:2011+A1:2014.

2. Timber cladding shall be finished level to the top of the sheet piling(existing or new).

3. The fixing between the timber cladding and the timber parts shall be No.10 stainless steel screws 65mm long. A min distance of 25mm shall be provided between the screw fixing and the edge of the timber cladding.

4. The timber parts shall be fixed to the Steel Sheet Piles with HUS3-HF 10X110 (110mm long M10 ultimate-performance screw anchor with hex head, corrosion resistant. A min 50mm distance shall be provided from the centre of the screw to the edge of the timber part.

WI 2003 SECTION 3 – EXCAVATION, BACKFILLING AND RESTORATION

WI 2003.1 Excavation

Insert the following sub-clause(s) in **clause 3.1**.

1. All excavation shall be in accordance with DWG's 2019_41 0200_001 and 2019_41 0200_002

2. Care should be taken when creating spoil heaps to avoid damage to adjacent slopes. Surcharge loading of raised ground must be considered along with any potential restriction the placement would place on the *works*. Care should also be taken whilst clearing spoil heaps to avoid damage to the surrounding area.

3. The side slopes in open excavation shall be sufficiently shallow to prevent the material of which they are composed from sliding or falling into the excavation.

4. Wherever possible material excavated shall be re-used on site.

5. Topsoil shall be excavated prior to the fill placement and suitably stored for placing on the finished ground. Excavation for new structures/filling for raised ground shall be carried out, in limited sections, and using temporary support if required. Excavation shall avoid disturbance of the surrounding ground.

6. When excavating to the formation level of any structure, the *Contractor* shall not undertake the excavation of the final 300mm of material until immediately before commencing the construction work.

7. Work should be suspended during periods of heavy rainfall (i.e. >10 mm in 24 hours) based on the nearest agreed weather station. If the material forming the bottom of an excavation becomes unsuitable due to exposure to weather conditions, flooding, groundwater, and construction traffic or for any other reason, then the *Contractor* shall excavate such unsuitable material back to a sound surface and fill back to the specified level or surface with suitable material as directed by the *Project Manager*.

WI 2003.3 Topsoil for Reuse

Insert the following sub-clause(s) in **clause 3.3**.

1Topsoil shall only be stripped and handled when soil moisture conditions are sufficiently close to natural levels that damage to the soil structure will not be caused.

2All topsoil shall be rotovated with agricultural rotovator.

3Unless noted otherwise soil down to the formation level, which in the opinion of the *Supervisor* is capable of supporting healthy vegetation, shall be regarded as topsoil. Where a formation level or depth of topsoil is not indicated for the permanent *works* and for any temporary works, the depth shall be 200mm unless agreed otherwise with the *Supervisor*.

4Material encountered within the topsoil zone which is contaminated or incapable of supporting the vegetation desired in the scheme design shall be separated from the topsoil. The agreement of the *Supervisor* shall be obtained as to how this material shall be classified with reference to Specification for Highways Works clause 601 and dealt with.

5. Before stripping, any grass growth longer than 150mm shall be cut, to a length of approximately 50mm, and removed no more than one week before stripping, to reduce the risk of anaerobic zones developing in the topsoil heaps.

6. No section of turf greater than 100mm x 100mm is to be left in the top soil once it has been excavated and stored. Turf is to be mixed into the stored topsoil.

7. The requirements of Specification for Highways Works Clause 618.3 shall be complied with.

8. No machines shall traffic over the stockpiled topsoil.

9. Topsoil shall be stockpiled separately from other stockpiled fills and kept free from weeds.

10. Movement of equipment on Site must be controlled to prevent compaction of the topsoil. Under no circumstance shall scraper blades be used to level topsoil. Compaction equipment shall not be used on topsoil. Tracked equipment shall not be used on the top layer of topsoil.

11. Surplus topsoil shall preferably be disposed of by locally increasing topsoil reinstatement depths. The location and extent of increased topsoil depths shall be agreed with the *Supervisor*.

12. Topsoil shall only be re-used if it complies with the specification for re-use of soils.

WI 2003.4 Dealing with Water

Insert the following sub-clause(s) in **clause 3.4**.

5. Water described in this clause shall include water from any source.

6. The *Contractor* shall consider the following in the development of the working method (including temporary works):

a) Keep the *works* clear of water during construction work (also considering high flow events);
b) The removal of water entering earthworks;

c) Lowering the water level in excavations, and maintaining it at a sufficiently low level to enable construction of the *works* to proceed.
d) Form and maintain all earthworks with appropriate drainage falls.
e) Provide and maintain any necessary temporary watercourses.
f) Provide and maintain means of trapping silts and of preventing its discharge into the drainage system or other watercourse

7. Earthworks operations shall be carried out in a manner which will not block or impede the natural flow of water in streams or through existing drains, pipes and culverts. No material shall be stockpiled or existing ground disturbed, such that it may slide or fall into a watercourse or in front of a drain, pipe or culvert inlet.

8. The *Contractor* shall take account of existing groundwater levels on the Site when undertaking earthworks operations.

9. Any temporary diversions of watercourses shall be agreed with the *Project Manager* in advance of work commencing.

10. The *Contractor* shall plan his works to minimise the risk of erosion to temporary excavated work faces caused by water flows in high tide periods.

WI 2003.5 Temporary Drains

Insert the following sub-clause(s) in **clause 3.5**.

4. Temporary drains which the *Contractor* may wish to install below the final surface of any excavation may be incorporated only with the prior acceptance of the *Supervisor*.

WI 2003.6 Backfilling

Insert the following sub-clause(s) in **clause 3.6** and in sub-clause 3 change the reference from Clause 2.49 to Clause 2.50.

1. The *Project Manager* accompanied by the *Contractor*'s representative shall be given the opportunity to visit proposed sources of fill material in advance of any materials being delivered to site, in order to comment on the likely suitability of the material.

2. Fill shall be compacted in layers not exceeding 100mm with 6 passes to 95% of the maximum dry density at optimum moisture content.

3. Backfilling of natural bank material shall be to the profile and layers of the original bank as set out in Figures SK-001 to SK-003 in Appendix A of the CEMP , unless otherwise shown on the drawings. The *Contractor* shall allow for settlement in this backfill as it fills voids when setting this profile.

WI 2003.9 Reinstatement of Unpaved Land

Insert the following sub-clause(s) in **clause 3.9**.

1. All site compounds, working areas and temporary access routes are to be restored by the *Contractor* to at least the standard of the conditions which exist before working commences.

2. Subsoil contaminated with fuel or other materials shall be dug out and disposed of offsite to a licensed tip.

3. The levels of the ground to be seeded shall be such as to tie in with adjacent 'soft' areas after settlement.

4. The *Contractor* shall ensure that the reinstated areas are watered frequently during dry spells and that full healthy growth has been achieved by the defects date.

5. All planting and seeding shall take place in the first available planting season.

6. The *Contractor* shall notify the *Project Manager* of any suspicious objects, old foundations, slabs and the like; obtain approval and break out where and to the extent stated whilst preparing the Site.

7. The *Contractor* shall ensure that soil should be left in a moist, friable state for planting & seeding. Soil shall not be waterlogged. Leave soil surface regular and even.

WI 2003.13 Filling Above Ground

1The general requirements for embankment fill is as follows:

i. Fill shall be placed and compacted in accordance with the Specification for Highway Works (Table 6/1 and Table 6/4) plus the requirements of this specification. If the Contractor proposes a different method it must be submitted to the Project Manager, who will assess the method and may give approval for its use. However, no material shall be placed until a method statement is approved.

ii. Each layer of fill shall be constructed as set out in the agreed technical submission (refer to clause WI 2003.17), continuously and approximately horizontal over its length, with a suitable fall across the width of the layer, in order to facilitate drainage during construction. Prior to commencing a subsequent layer at least 250 linear metres of the previous layer shall be completed.

iii. In order to minimise the risk of high permeability zones of fill being formed, no transverse 'bonding surfaces' will be allowed in any layer. Any 'steps' and/or joints in close proximity to each other (i.e. within 10m) shall not exceed two layer thicknesses.

iv. The Contractor shall take necessary steps to prevent construction traffic from damaging any of the permanent Works. The Contractor shall provide adequate supervision to ensure that traffic is prevented from following in the tracks of other vehicles on the surface of the fill materials

in such a manner as to cause undue rutting or deterioration of the surface.

v. The construction of the Works shall be controlled in such a manner that any compaction of the fill material resulting from the passage of construction plant or haulage vehicles is uniform.

2.The compaction requirement for fill is as follows:

i. The compaction requirements for Type A and Type B fill are specified in Table 6/1 of the Specification for Highway Works.

ii. The compacted layer thickness shall not exceed 100mm.

iii. Undrained shear strength greater than 50kN/m^2 and less than 75kN/m^2.

iv. Prior to construction, compaction trials with the proposed equipment and method shall be carried out to confirm that the required end product can be achieved. Fills compacted as part of the trial may be incorporated into the permanent construction if shown to meet the end product requirements. Equipment and/or method shall be chosen such that rutting of each compacted layer does not occur.

v. The Contractor may revise the method of placement and compaction on completion of the trials and prior to the commencement of the work and resubmit for approval by the Project Manager.

Insert the following sub-clause(s) in **clause 3.13**.

3 The general requirements for fill is as follows:

a) Fill shall be placed and compacted in accordance with the Specification for Highway Works (Table 6/1 and Table 6/4) plus the requirements of this specification. If the *Contractor* proposes a different method it must be submitted to the *Project Manager*, who will assess the method and may give approval for its use. However, no material shall be placed until a method statement is approved.

b) Each layer of fill shall be constructed as set out in the agreed technical submission (refer to clause WI 2003.17), continuously and approximately horizontal over its length, with a suitable fall across the width of the layer, in order to facilitate drainage during construction, if required. Prior to commencing a subsequent layer at least 250 linear metres of the previous layer, or the full length of the previous layer if the overall earthworks are shorter, shall be completed.

c) If cohesive material is to be used, in order to minimise the risk of high permeability zones of fill being formed through the raised ground (i.e. from the seaward to the landward face), no transverse ‘bonding surfaces’ (i.e. perpendicular to the centre line of the) will be allowed in any layer. Any ’steps’ and/or joints in close proximity to each other (i.e. within 10m) shall not exceed two layer thicknesses.

d) The *Contractor* shall take necessary steps to prevent construction traffic from damaging any of the permanent works. The *Contractor* shall provide adequate supervision to ensure that traffic is prevented from following in the tracks of other vehicles on the surface of the fill materials in such a manner as to cause undue rutting or deterioration of the surface.

e) The construction of the *works* shall be controlled in such a manner that any compaction of the fill material resulting from the passage of construction plant or haulage vehicles is uniform.

4. The compaction requirement for fill is as follows:

a) The compaction requirements for fill are specified in Table 6/1 of the Specification for Highway Works.

b) The compacted layer thickness shall not exceed 100mm.

c) For cohesive material, undrained shear strength greater than 50kN/m^2 and less than 100kN/m^2.

WI 2003.14 Blasting

Delete **sub-clauses 1-4** and replace with:

1. Blasting is not allowed.

WI 2003.16 Demolition

Delete **sub-clause 1** and replace with:

1. Demolition shall be carried out in accordance with BS 6187 and BS 8004. Materials to be demolished shall be dismantled or broken down and disposed of as indicated elsewhere in the Contract Documents or as instructed by the *Project Manager*.

2. All metalwork, gates, fence panels etc. from property boundary demolition remain the assets of the property owner and should be set aside for reuse, if they so wish, or disposed of by the *Contractor* if unwanted by the property owner.

WI 2003.17 General Earthwork Requirements

1. Technical Submission

The *Contractor* shall provide a technical submission indicating how the earthworks will be managed, controlled and conducted to provide the specified fill types.

The technical submission shall be submitted to the *Project Manager* for approval at least 14 days before placing and compaction operations commence.

The technical submission shall include:

a) Details of proposed construction plant and haulage vehicles;
b) Methods of excavation, storage, deposition and compaction;
c) Examples of testing schedules and report certificates;
d) Arrangement for selection, sorting, processing and stockpiling materials;
e) Arrangements for disposal of any unsuitable materials;
f) Temporary works;
g) Methods of controlling surface water and groundwater and protecting earthworks and earthworks materials from damage from water and weather conditions;
h) Methods of monitoring ground movements and settlement;

The technical submission shall be based upon the information given in Clause WI 2003.13 with special reference to items a) and b) above.

2. The design of temporary works associated with earthworks, including temporary slopes, stockpiles and drainage, shall be such that the risk of failure is not more than that which would be adopted if the temporary works were to be permanent. Allowance shall be made for the risk to persons and property and the surface water and groundwater conditions which are likely to occur during construction. Also allowance may be made in the design of the temporary works for the shorter design life.

3. Earthworks material shall not be handled or stored in a manner which will result in segregation, deterioration, erosion or instability of the material. Specific areas for stockpiling shall be agreed in advance with the *Project Manager* and shall avoid sensitive areas.

4. Different types of earthworks material shall be kept separate from each other. Earthworks material, which is suitable for use as fill material, shall be maintained in a suitable condition and shall not be contaminated. Stockpiles shall be placed on well-drained, prepared areas to ensure no degradation of the fill.

5. Earthworks Final Surfaces shall be completed to a stable condition as soon as practicable after excavation or after the deposition and compaction of fill material has been completed. Subsequent work or surface protection shall be carried out as soon as practicable after the surface has been completed.

6. Final Surfaces and Filled Surfaces shall be completed to smooth levels and alignments without abrupt irregularities unless otherwise stated in the Contract.

7. Earthworks Final Surfaces and Formations shall not be damaged by the *Contractor* providing the *works*.

WI 2003.18 Separation of Materials

1. Where excavation reveals a combination of acceptable and unacceptable materials in discrete volumes, the *Contractor* shall alert the *Supervisor* to the circumstances. Pending the *Supervisor*'s instructions, the *Contractor* shall carry out the excavation in such a manner that the acceptable material is excavated

separately for use in the *works*, and is not contaminated by the unacceptable material.

2. The *Contractor* may employ mechanical beneficiation equipment (e.g. vibratory screens) to remove deleterious components from the site-won materials in order to increase the volumes of available acceptable fills. However, no such equipment may be mobilised to or offsite without the approval of the *Project Manager*.

WI 2003.19 Reinstatement of Boundaries

1. Where indicated on the Drawings, fences, banks or walls affected by the *works* shall be reconstructed using similar materials to the original.

2. Where practicable, the original materials shall be carefully dismantled and set aside for re-use in the reinstatement.

WI 2003.20 Reinstatement of Paved Areas, Tracks and Grassroads

1. On completion of work in paved areas, tracks and grass roads the *Contractor* shall restore the land to a condition at least equal to the original condition.

WI 2003.21 Stockpiles

1. Where stockpiles are formed they shall be so managed as to minimise damage to or deterioration of the stored material and the adjacent areas of the Site, and shall comply with the following sub-clauses.

2. Stockpiles will not be permitted within 10m of any watercourse or structure, including permanent roads, bridges or buildings and shall not be positioned as to affect the root zone of any trees.

3. Topsoil shall be stripped from stockpile areas before the placing of any material and shall be stockpiled elsewhere for subsequent reinstatement.

4. Topsoil stockpiles shall be located on an area of the Site that has been stripped of all vegetation and is not prone to water-logging. Topsoil shall be deposited in long thin, loose tip bunds not exceeding 2m in height and 5m in width at the base.

5. Topsoil shall not be tracked over during stockpiling in order to guard against compaction-related deterioration and topsoil stockpiles shall be cordoned off following completion to prevent subsequent accidental tracking by Equipment.

6. Stockpiled topsoil shall not be worked in wet weather or soon after wet weather or when soil moisture levels may result in damage to the soil structure.

7. If topsoil is to be stored the outer face and top of the stockpile shall be smoothed using a flat edged bucket of a hydraulic excavator or other suitable Equipment and the top surfaced angled so as to encourage efficient rainwater shedding.

8. Topsoil stockpiles shall not be contaminated by contact with cement, lime, fuel, stone, hardcore, rubbish, and material from demolition work of any other material harmful to plant growth. Topsoil shall not be buried by subsequent operations or compacted in any way, as this would irreversibly damage its structure. Stockpiles of different grades of topsoil should be kept separate.

9. Compaction of stockpiled materials, other than topsoil, shall be spread and compacted in layers of not greater than 250mm compacted thickness by construction traffic. Compaction shall be by a single pass of tracked excavator.

10. Measures shall be taken to avoid contamination of one stockpiled material with another or with extraneous materials, and any material contaminated by the *Contractor*'s operations shall be disposed of off-site. Where diesel, petrol, oil or any other hazardous or unacceptable materials have contaminated material, this material shall be disposed of off-site.

11. Provision shall be made to ensure the local surface water drainage is not impeded.

12. Weed growth occurring on stockpiles shall be eliminated by the use of a herbicide accepted by the *Project Manager* at suitable intervals.

13. All materials will be separated into exclusive bays, sheeting and matting will be laid down within the storage and will be stored to ensure as a minimum there is a clearance zone of 1.5x the height of the stored material. Upstands will be provided to ensure no material 'seeps' on or into the pond.

WI 2003.22 Disposal of Surplus Materials

1. No excavated material shall be removed from the Site except with the consent of or on the direction of the *Project Manager*.

2. Surplus excavated materials shall be tested and categorised before they are disposed of off-site. The material shall then be disposed of off-site to a suitably licensed disposal site (and full records provided for materials containing asbestos). The *Project Manager*'s approval shall be required before any material is disposed of and such approval will only be given on receipt of suitable testing and reporting.

3. Prior to disposal, material shall be stored in appropriate bunded areas such that separate categories of material are stored separately.

WI 2003.23 Disposal of Contaminated Ground

1. Also refer to Specification Clause WI 201.25.

2. Disposal contaminated material from the excavations shall be to a site authorised in writing by the approved Waste Disposal Licensing Authority / Local Authority that holds a valid environmental permit (or suitable registered exemption) issued by the Environment Agency.

3. Hazardous waste is defined under the 2005 Hazardous Waste Regulations (as amended).

4. If hazardous waste material is encountered on Site the *Contractor* must immediately notify the *Project Manager* and a hazardous waste consignment note must be prepared for each load before any material is removed. The *Contractor* shall comply with the 2005 Hazardous Waste Regulations at all stages.

5. Controlled waste is defined in the Environmental Protection Act 1990, Section 75, as being any kind of household, commercial or industrial waste. It includes any waste from a house, shop, office, factory or any other trade or business premises. It includes unwanted surplus substances, building or demolition waste and anything which is disposed of as broken, worn out, contaminated or spoiled in some other way.' The interpretation of terms "household, commercial or industrial waste" used in this definition is provided in The Controlled Waste (England and Wales) Regulations 2012

6. All waste and surplus materials regarded as controlled waste collected during the course of the *works* shall be disposed of off-site in accordance with the requirements of the relevant legislation, including the waste hierarchy. The *Contractor* shall be responsible for making his own arrangements as to the tipping sites to be used, any charges to be paid and for ensuring that each site has the necessary permits or permissions that may be required for the purpose by a Statutory Body in accordance with the waste duty of care. Where required by the *Project Manager*, the *Contractor* shall provide all information to show that all such waste materials are being disposed of in accordance with the Contract.

7. The *Contractor* shall ensure that any person that removes waste during the *works*, including the *Contractor* or any sub-*Contractor* employed by them, if they remove waste; or any waste management *Contractor* that removes waste is registered in accordance with the requirements of The Waste (England and Wales) Regulations 2011 as a carrier of waste with the Environment Agency and that the registration is valid for the entirety of the period that waste is being removed from the *works*.

WI 2003.24 Unacceptable Material

1. Material which is unacceptable only by virtue of being frozen, may, subject to the *Project Manager*'s agreement, remain on the Site for subsequent re-use as acceptable material.

2. Fill material which has been used, or is required for use, in the permanent works and which has deteriorated such that the material no longer complies with the Specification, shall be processed or replaced by the *Contractor* as agreed with the *Project Manager*.

3. If the material becomes unsuitable due to exposure to weather conditions such as excessive drying, flooding, groundwater, construction traffic or any other reason, then the *Contractor* shall treat the material, excavate such unsuitable material back to a sound surface and fill back to the specified level or surface with suitable material as directed by the *Project Manager*.

WI 2003.25 Additional Landscaping

No further Scope under this heading

WI 2003.26 Earthworks Construction Tolerances

1. Construction tolerances shall be as follows, unless otherwise stated in the specification.

2. The tolerance for levels of filling to the final surface, measured at Completion, shall be the levels shown on the Drawings –10mm to +15mm. Longitudinal tolerances shall be minimised and the finished level shall have no abrupt irregularities which are, to an extent, observable by eye.

3. For other surfaces and any interface between fill zones, measured perpendicular to the specified surface, levels shall be within ±25mm of the specified surface.

4. Where there is a specified layer equal to or less than 500mm thick notwithstanding the above, the layer thickness indicated on the drawings shall be achieved within -0mm to +50mm.

5. Tolerances for access tracks are covered in clause WI 2008.14.

WI 2003.27 Formation Proof Rolling

1. The formation shall be inspected by the *Contractor* to identify the subsoils present and if any part of the formation is unsuitable. The *Contractor* shall inform the *Supervisor* if unsuitable subsoils are present and the *Supervisor* may then direct the *Contractor* to excavate and remove such unsuitable material. Any such further excavation shall be filled to the required level with suitable material, as directed by the *Supervisor*. It is anticipated there will be areas of formation which may 'normally' be classified as unsuitable but which will not be removed for technical reasons.

2. Prior to proof rolling the *Supervisor* will inspect the formation to ensure, where present, sufficient organic material and root matter has been removed. Instruction may be given to make good any defects such as soft spots, issues, voids or fissuring and the like which may have a detrimental effect on the performance of the *works*.

3. The formation shall be prepared and treated in accordance with Specification for Highways Works Clause 616 with a provision for an estimated 20% of double rolling for areas where the *Supervisor* does not wish to have further unsuitable material removed for technical reasons.

4. A record of the remedial works undertaken and the subsequent proof rolling will be provided to the *Supervisor* prior to commencement of filling. These records will form part of the as built records.

5. Formations which will not be immediately covered by the permanent Works shall be protected by methods agreed by the *Supervisor*.

6. The *Contractor* shall carry out a minimum of one in-situ density tests and hand shear vane tests for every area of formation being prepared at 50m intervals.

WI 2003.28 Benching of Fills

1. Where fills are to be placed and compacted against existing slopes or faces, then the slope is to be benched into 'steps'. Benching shall be at level intervals no higher than two layer thicknesses of the relevant fill and overall no steeper than original slope. Prior to any benching topsoil shall be removed and stored ready for reuse at the end of the placing works.

WI 2003.29 Settlement

1. The levels shown on the drawings are the required finished levels at Completion.

2. The *Contractor* shall make due allowance for any settlement that may occur during construction, and shall adjust the construction profile and levels accordingly to ensure that the finished levels and profiles are achieved.

3. The *Contractor* shall include full details of his technical submission in respect of construction stage settlement together with his earthworks technical submission (refer to clause WI 2003.17).

WI 2003.33 Invasive Species

1. Skunk cabbage Lysichiton americanus and New Zealand pygmyweed Crassula helmsii invasive species have been identified as set out in the S 5.7 of the CEMP. The Contractor will follow the requirements set out in S5.7 of the CEMP.

WI 2004 SECTION 4 – CONCRETING

WI 2004.1 Supply of Information

Insert the following sub-clause(s) in **clause 4.1**.

1. At least seven days before commencement of concreting operations the *Contractor* shall submit to the *Project Manager* for acceptance a Method Statement covering all aspects of concrete work including:

a) Sources of supply of Materials
b) Details of concrete mixes
c) Batching, delivery and placing arrangements
~~d~~
e) Quality control, frequency of sampling and testing details
f) Supervision and labour

2. The proposals contained in the Method Statement must cover concreting during the whole of the construction period and have regard to the prevailing weather conditions at the time of casting.

WI 2004.5 Transporting, Placing and Compacting

No further Scope under this heading.

WI 2004.7 Concrete Temperature

No further Scope under this heading

WI 2004.8 Curing

Insert the following sub-clause(s) in **clause 4.8**.

1. The method of curing must minimise the effects of drying, shrinkage and thermal movements due to rapid temperature change in the concrete until it has achieved sufficient strength to be able to resist such effects.

2. The *Contractor* shall prevent the formation of excessive temperature gradients through the mass of the concrete, which could in turn lead to early thermal cracking

3. The *Contractor* shall submit his detailed proposals for concrete curing for approval. The proposal must include details of concreting in tidal conditions and cold weather and must comply with the good working practice in the advice given in Concrete on Site No. 11 - Winter Working published by the British Cement Association. The proposals must permit work to continue through all but exceptionally cold spells of weather (concrete shall only be poured if the

temperature on site is 2deg C and rising. Newly laid concrete must be protected from frosts until a strength of 5MPa has been achieved).

4. Suitable arrangements for working in hot weather must also be submitted for approval.

5. Concrete shall be protected from the effects of rain and aggressive agents from the time of placing until the end of the curing period.

WI 2004.9 Records of Concreting

No further Scope under this heading.

WI 2004.29 Setting Concrete

1. The *Supervisor* may order any works to be stopped that cause vibrations to be transmitted to any setting concrete.

WI 2005 SECTION 5 – CONSTRUCTION OF PIPELINES AND ANCILLARY WORKS

No further Scope under this heading.

WI 2006 SECTION 6 – BUILDING WORKS

No further Scope under this heading.

WI 2007 SECTION 7 – TESTING AND DISINFECTION

No further Scope under this heading.

WI 2008 SECTION 8 – ROADWORKS

WI 2008.14 Tolerances for finished carriageway surfaces

Insert the following sub-clause(s) in **clause 8.14**.

4. The Self Binding Gravel Surface Course shall comply with the wearing surface and reverse tolerances in sub-clauses 1 to 3 inclusive.

WI 2008.18 Self Binding Gravel Surface Course

1. Self Binding Gravel Surface Course shall be installed in accordance with the manufacturer's recommendations.

WI 2008.19 Asphalt Concrete Surfacing

1. Surfacing shall be placed and compacted in accordance with BS594987 and SHW Series 900. The *Contractor* shall provide certificates from their supplier for the properties for the asphalt set out in DWG 2019_41 0700_003.

2 Dense ASPHALT CONCRETE Binder Course as a Surface Course

903.27 Delete sub clause (ii) and add: -

(ii) Where approved by the Overseeing Organisation AC 20 dense bin material may be used as a temporary (less than 3 weeks) surface on low speed lightly trafficked 'C' or Unclassified roads if the aggregate is crushed rock (other than limestone) with a PSV of not less than 55.

903.29

(i) At the end of the carpet and across side roads, transverse joints shall be made by letting into the surface. The change in gradient in the finished transition length shall not exceed 1 in 50 unless by so doing a smoother transition can be achieved.

(ii) The *Contractor* shall make provision for making safe in suitable material, the run-on and run-off and any raised longitudinal joint or projecting ironwork at the end of each day's work and shall remove such material prior to continuing the surface operations unless otherwise agreed by the Overseeing Organisation. Signing shall be in accordance with the requirements of Appendix 1/17.

921.2 Insert after 'otherwise specified in Appendix 7/1' the following: -

"a surface having a value greater than 2.0 mm will not be accepted in the *works.*"

4. Bond coats in accordance with BS EN 13808 shall be applied to all areas of proposed or reconstructed carriageway construction as detailed on DWG 2019_41 0700_001, 2019_41 0700_003.

5. The existing surface and the surface of any new layer shall receive a bond coat prior to the proposed overlay material or next layer as is laid.

6. Before application, the surface shall be prepared in accordance with BS 594987, or for certified products, in accordance with the BBA/HAPAS Certificate or equivalent product acceptance scheme certification relating to the particular product, to be free of all loose material and standing water.

7. Street Furniture, iron work and drop kerbs shall be masked using self-adhesive masking materials before application starts and removed prior to the completion date.

8. Clause 903.4 requires a bond coat to be applied, and left to break, prior to placing bituminous material on any bound substrate. It shall be applied at a uniform rate in accordance with Clause 920 and at a rate of 0.2kg/m^2 residual bitumen when laid on to new binder course or existing asphalt and 0.35 kg/m^2 of residual binder for planed surfaces, or as required for any proprietary systems in accordance with Clause 942. There shall be no bare areas or areas of ponding.

9. In the case of thin overlays being applied, where a thickness of bituminous material of less than 40mm is to be applied, a proprietary polymer modified bond coat, with a minimum peak vialit cohesion value of 1.0 J/cm^2 shall be used. If the bituminous material is a proprietary product, e.g. a Clause 942 Thin Surface Course System, then the manufacturer's recommendations shall be followed.

10. Unbroken bond coats shall not be temporarily trafficked.

11. Tack coat shall not be used, unless it is required as a curing membrane for HBM used on footways to prevent the tracking that may occur from the use of a bond coat.

12. Bond Coat The *Contractor* shall provide the following information with their tender, or prior to the commencement of the work:

1. The product or products they propose to use together with their data sheets, product identification data, cohesivity data as specified. *[920.2, 920.3, 920.4, 920.5]*

2. For each product, a copy of the BS EN ISO 9001 certificate showing the name of the manufacturer, the name of the certification body and the reference number and date of the certificate.

3. The spraying equipment proposed, and a test certificate. *[920.7, 920.9]*

4. The source or sources of blinding material proposed. *[920.12]*

5. Contingency plans in the event of any breakdown.

6. The results of any other tests or other data the *Contractor* considers would assist the Overseeing Organisation in assessing the technical merit of the treatment such as: -

   i Tackiness test and/or trafficability time and methods of test.

   ii Breaking time test results for different weather conditions and substrates.

Test results for bond to newly laid concrete [e.g. from a BBA/HAPAS or equivalent product acceptance scheme certification if available]. The data supplied should not be more than 6 months old.

WI 2009 SECTION 9 – SEWER RENOVATION

No further Scope under this heading.

WI 2010 SECTION 10 – WATER MAINS RENOVATION

No further Scope under this heading.

WI 2011 SECTION 11 – TUNNELLING AND SHAFT SINKING WORKS

No further Scope under this heading.

WI 2012 SECTION 12 – TIMBER WORKS

No further Scope under this heading.

WI 2013 SECTION 13 – STEELWORKS

No further Scope under this heading.

WI 2014 SECTION 14 – ARMOURSTONE STRUCTURES

No further Scope under this heading.

WI 2015 SECTION 15 – GEOTEXTILE WORKS

WI 2015.1 Placing of Geotextiles

1. For the purposes of this and associated specification clauses all of the following geotextiles, geosynthetics (inc. non-woven fabrics e.g. needle punched, thermally or mechanically bonded fabrics) will be referred to as geotextile, geotextile fabrics or fabrics hereafter.

2. Geotextile shall be laid in such a way that the finished laps run up / down the slope, perpendicular to the line of the structure. Laps shall not be less than 750mm wide when placed and covered in the dry, and not less than 1500mm when placed underwater. In order to achieve this finished lap width the *Contractor* shall make due allowance for any movement of the geotextile layer during construction. 3. The layer of material on which the geotextile fabric is to be placed shall not have protrusions or sharp projections that are likely to damage the geotextile during installation or service.

4. All methods used for placing geotextile fabric and subsequent covering with fill material shall be subject to the prior approval of the *Project Manager*.

5. The *Contractor* shall ensure that the fabric remains in its correct position when material is placed over or against it and that the minimum laps are maintained. Particular attention shall be paid to the placing of such fabrics underwater and in confined locations so as to ensure full continuity of the fabric.

WI 2015.2 Damage to Geotextile

1. Repairs to any geotextile which has been torn or damaged during installation shall be carried out using a patch of the same material, held securely in position, extending at least 300 mm beyond the edge of the damaged area or larger area if recommended by the manufacturer. Repairs shall not be permitted on any geotextile which has been damaged during storage or before installation.

WI 2015.3 Protection of Geotextile

1. Constructional Plant and other vehicles shall not operate on installed geotextiles unless in the opinion of the *Project Manager*, it is adequately protected by a cover of fill material or by other means agreed by with the *Project Manager*.

WI 2016 SECTION 16 – LANDSCAPING WORKS

WI 2016.1 Implementation and maintenance of landscaping works

No further Scope under this heading

WI 2016.2 Soil Grading, Cultivation, Amelioration & Weed Removal

1.Ensure soil surface for whole site is graded to proposed levels for planting and seeding. Break up any compaction to a depth of 500mm minimum for whole site prior to planting. Remove visible roots and large stones with a diameter over 30mm.

2. Soil should be left in a moist, friable state for planting & seeding. Soil should not be waterlogged. Leave soil surface regular and even.

WI 2016.3 Footpaths

1. Footpath widths as shown in DWG's 2019_41 1100_001 Sheet 1 of 3, 2 of 3 and 3 of 3. The *Contractor* shall ensure a smooth, even finish surface that meets flush the adjacent top of soil surface, with gentle camber or minimum crossfall of 1:40 toward Fleet Pond from the back of path for drainage. To use existing back of path for edge restraint on the landward side steel sheet piling edging along the pond edging.

2. A trial strip 5m x 3m shall be constructed and inspected by the *Supervisor* prior to further footpath works being constructed on site.

3. The surface will be Harmer Warren Self Binding Gravel supplied by CEMEX. The contractor will lay the footpath in accordance with the supplier's specification.

WI 2016.4 Site Furniture - General

1. Supply and install timber corrals and interpretation boards in concrete foundations as recommended by suppliers, in locations indicated on DWG 2019_41 0400_001 and to be agreed on site with *Project Manager* prior to installation. Ensure furniture items are upright, plumb, level and secure as appropriate, with no sharp edges or splinters.

WI 2016.5 Litter Bins

No further Scope under this heading

WI 2016.6 Fencing, Barriers and Gates

1. The details of the Corrals proposed to be used by the *Contractor* shall be sent to the *Project Manager* for acceptance prior to fabrication and installation.

WI 2016.7 Timber Bollards

1. Dragons teeth will be as DWG 2019_41 0400_002 and HCC/11/C/135

2. Timber corrals will be as DWG 2019_41 0400_001

WI 2016.8 Height Restrictors / Vehicle Gates

1. Provide and install a 2m double leaf Height restriction barrier and all associated fittings and stop posts to secure open leaf's to be approved by Project manager and Client as shown in DWG 2019_41 0900_011 Height Barrier removal and installation

2. The client will instruct the contractor at the inception meeting what colour and finish the double leaf height restriction barrier will be.

3. The client will provide the contractor with the padlocks which are to be used for the double leaf barrier.

Any new Vehicle Gates / Height Restrictors shall be in line with the below requirements:

- Accessories/ Special requirements: N/A
- Method of fixing: as per manufacturer's recommendations. Concrete base to Engineers specification

WI 2100 DRAWINGS

WI 2100.1 Preamble

1. The Drawings are to be read in conjunction with the Conditions of Contract, Scope and matters referred to, shown, or described in one are not necessarily repeated in the others.

2. Drawings and separate views within a drawing are to be read in conjunction with each other. Descriptions, details, dimensions etc. given in one place are not necessarily repeated in others. All HCC drawings specified are available from Hampshire County Council Highway Construction Standard Details web page https://www.hants.gov.uk/transport/developers/standard-details?filter=

3. References should be made to the Specification, British Standards etc. for the tolerances, which apply to the dimensions given on the drawings. Where no specific tolerance is given then that generally accepted, as good working practice shall apply. Where a dimension is described as "nominal", the *Contractor*'s attention is particularly drawn to the likelihood of the dimension varying (within reasonable limits) from that stated.

4. Where written dimensions differ from scaled dimensions the written dimensions shall be taken as correct.

5. In all references to drawings, it shall be taken that the latest revision applies.

6. The expressions "confirmed on site", "agreed on site", "directed on site", etc. mean as confirmed, agreed, directed, etc. by the *Project Manager* during the course of the contract on site unless otherwise stated.

7. The Drawings are as follows.

Type of DWG/Item Number		Drawing Number	Title
Planning Permission			
1		2019_41 0001	Location Plan
2		2019_41 0002	Location Plan (Fleet Pond SSSI Boundary)
3		2019_41 0005	Planning Area Boundary
4		2019_41 0006	Widened Footpath Extents
5		2019_41 0007	Works Area Extent
6		2019_41 0008	The Flash Bund & Culvert
7		2019_41 0010	Raised Footpath & New Bridge
8		2019_41 0011	Location of Dwell Points and Staggered Timber Gateways
9		2019_41 0012	Footpath Construction Option A & B
Tender Drawings	Series		
1	0001	2019_41 0001_001	General Arrangement
2	0100	2019_41 0100_001	Location
3	0200	2019_41 0200_001	Sheet 1 of 3 Footpath Site Clearance

4		2019_41 0200_001	Sheet 2 of 3 Footpath Site Clearance
5		2019_41 0200_001	Sheet 3 of 3 Footpath Site Clearance
6		2019_41 0200_002	Fleet Pond Drive and Car Park Earthworks
7		2019_41 0200_003	Car Park Dragons Teeth Clearance
8		2019_41 0200_004	Hemalite Bay Clearance
9	0300	2019_41 0300_001	Sheet 1 of 3 Tree Protection Fencing
10		2019_41 0300_001	Sheet 2 of 3 Tree Protection Fencing
11		2019_41 0300_001	Sheet 3 of 3 Tree Protection Fencing
12	0400	2019_41 0400_001	Timber Corral Arrangement Details
13		2019_41 0400_002	Dragons Teeth replacement
14	0600	2019_41 0600_001	4 Way Ducting and Draw Pits Fleet Pond Drive and Car park
15		2019_41 0600_002	Slipway Location and Standard Details
16	0700	2019_41 0700_001	Fleet Pond Drive and Car Park Surfacing Works
17		2019_41 0700_002	Speed Cushion Locations Fleet Pond Drive and Car park
18		2019_41 0700_003	Fleet Pond Drive and Car Park Surfacing Detail
19		2019_41 0700_004	Fleet Pond Drive and Car Park Surfacing Levels
20	0900	2019_41 0900_002	5mph Zone
21		2019_41 0900_003	Banksman Controlled 5mph Zone
22		2019_41 0900_004	Tree Root Mat Protection Area
23		2019_41 0900_005	Site Compound Area
24		2019_41 0900_009	Emergency Access Zone
25		2019_41 0900_010	Contractor Parking Area
26		2019_41 0900_011	Remove and Install 2m Double Leaf Height Barrier
27		2019_41 0900_012	NR Exclusion Zone
28	1100	2019_41 1100_001	Sheet 1 of 3 Footpath Layout
29		2019_41 1100_001	Sheet 2 of 3 Footpath Layout
30		2019_41 1100_001	Sheet 3 of 3 Footpath Layout
31		2019_41 1100_004	Footpath typical X-Section
32		2019_41 1100_005	Fleet Pond Drive Kerb Line and Standard Detail
33		2019_41 1100_006	The Flash Footpath Culvert detail and Levels
34	1200	2019_41 1200_001	Car Park Disabled Bay Lining
35	3000	2019_41 3000_001	The Flash Bund Location and Standard Details