

Delivery Methodology:

Contract Number:	-
Site:	Custom House, Gravesend, DA12 2DE
Method Statement No:	-
Task / Activity:	Proposed River Wall Defence

	Prepared by:	Reviewed by: (where applicable)	Approved by: (where applicable)
Name:	Sam Smith	Frank Fealey	
Position:	Graduate Engineer	Head of Pre-Construction and Business Development Manager	
Date:	06/04/2022	12/04/2022	

Records of Amendments to Method Statement.

Issue:	Date:	Details of Amendments:	Amended by:	Comment / response required by (Date)
REV 04	04/11/2024	Minor update conforming to the current design.	Adkins	

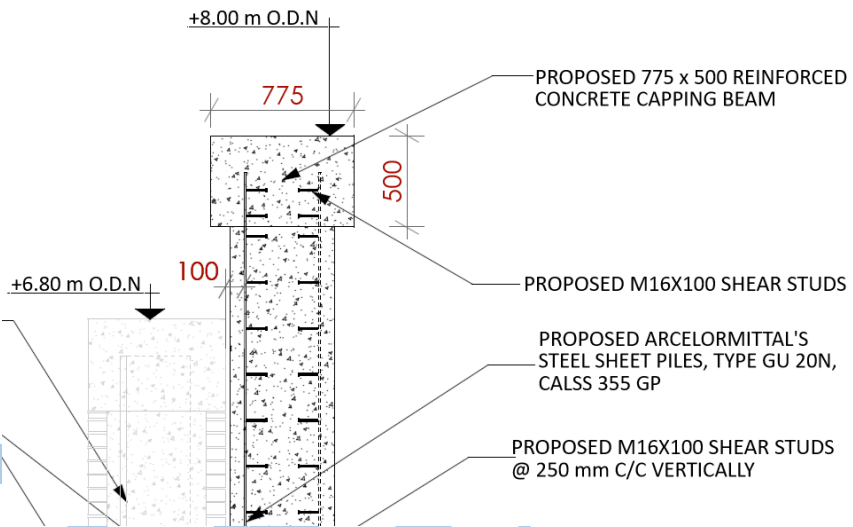
Note: Following amendment the Method Statement shall be re-briefed with a record maintained.

Ref:	Item:	Comments:
1	Describe what the task is and what it is to achieve.	- Installation of a new sheet pile sea wall behind the existing piled sea wall on the entire length within the site boundary to conform to the 2070 requirement of 8.00m AOD. - On completion of the sheet pile installation, return connections to either end will be made achieving a water seal. - Once the seal is achieved the existing sheet pile wall will be removed, and the new wall with the revised protection level of 8.00 AOD will act as the replacement flood wall. The capping beam detail will be added as required, in a later phase following the drawings provided by Adkins Consultants Ltd. - Installation of a new reinforced concrete wall to reflect the existing construction will be installed as a replacement for the existing floodgate which is to be removed in this phase.
2	Program for the work. Timing of the work including date, start and finish times if applicable, and duration.	TBC. Will be driven by receipt of the necessary marine licenses. All items in this report are subject to minor changes depending on contractors preferences and if there are any deviations from what is in the statement. Any deviation must be approved by the LPA.
3	Work area clearly	All works to be carried out within the existing site constraints where the site compound

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	identified with references to drawings, sketches, grids, elevations. Where exactly on site is the task to be undertaken.	will be established, which will be segregated from the public, with the only access route via the main gate. The compound will be utilised for the delivery and safe storage of plant, welfare units, pavement protection and Heras fence panels to produce a safe worksite for operatives, and enable sufficient access for the works, as well as protecting the public. Signage will be used on the main entrance gate, making members of the public aware of the works. 
4	Supervisory and monitoring arrangements. Who will be supervising the task?	All tasks to be supervised by a member of the site team: Project Manager: TBC Site Engineer/Manager: TBC General Foreman: TBC
5	Schedule of plant to be used. List the plant and equipment required to undertake the task.	• Hiab lorry crane (for delivery and collection of welfare units /plant/machinery) • AC 70T Mobile Crane • WP150 U Silent Piler with power pack and water pump • Welding equipment • Small tools. • Concrete Placement Equipment. • Heras/pedestrian fencing All plant and tools will be managed in accordance with PUWER regulations and manufacturers guide notes. Will be inspected weekly and before use.
6	Sequence of task. Describe how the task is to be undertaken, (if applicable break it down into individual steps).	Pre setup: • Site inductions to be completed and full PPE to be issued and worn by all • All necessary permits to be in place • Each morning prior to commencement of works, all operatives will sign on to the daily briefing. This will cover the scope of the tasks at hand, any issues, safety precautions, the weather, and any changes and/or relevant information. • The team will be briefed on the control measures as detailed in the environmental plan which includes the following activities: Refuelling and COSHH storage arrangements, working next to a water course, ground water discharge, dust management, lighting arrangements, emergency spill and incident procedures, vibration management, noise management, and concrete wastewater management. Initial preparation of work site:

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		• Delivery and safe set up of site welfare units (green area in image below) • Erect Heras fencing around works area and relevant signage. • Access and egress for emergency vehicles must be always maintained through main gate • All delivery vehicles are to be directed to required location and if reversing must be directed by a banksman • All Heras fencing will be full height, double clipped, and installed and maintained as per the manufacturer's details. 

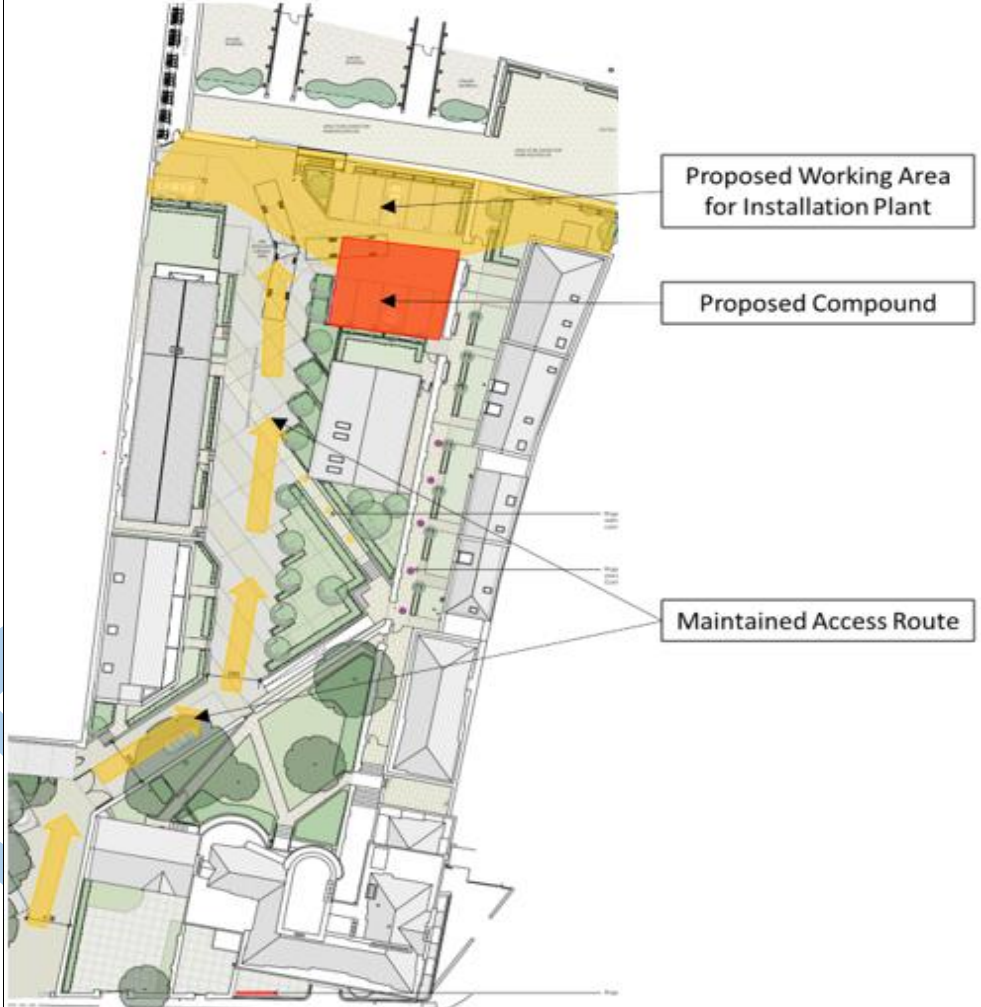
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		<u>Sequence of Works.</u> All permanent works design will be undertaken by the Client engineer. <u>Sheet pile wall (highlighted in blue):</u> - To meet the 2070 requirement (8.00 AOD) a new sheet pile wall is to be installed behind the existing sheet pile wall seen in the sketch. To be between 100 – 200mm behind following the design provided by Adkins Consultants Ltd. - All services will firstly be disconnected and relocated, and the existing generator is to be removed. - A silent piler rig (WP150 U Silent Piler) will be used due to the lack of access, seen in the photograph to the right. - Due to the rig requiring a stable seating/pressing environment to apply sufficient reaction forces, a reaction frame must first be assembled. - A 70t crane will then set up in the courtyard with sufficient outrigger mats, in the purple area highlighted in the sketches. - The crane will be used to lift the piling rig into position and once set up it will then be used to lift the new sheet piles up and over the existing wall to feed the piling rig. - The silent piling rig has the capability to self-move from pile to pile without crane assistance, as the installation procedure advances. - Once all piles have been installed to correct level, the piling rig will be lifted out by the crane and taken away from site. - Closure details will be provided by the permanent works engineer and installed to provide a water seal between the new and remaining walls. - Once this has been installed and approved the existing sheet pile wall will be removed by flame cutting techniques into manageable sizes and removed utilising the site craneage and disposed of via a registered waste site. - The existing steel floodgate, together with its access and operational equipment, is to be removed (seen highlighted in orange). Then replaced with a new steel sheet pile wall which is to be constructed to the same height as the adjoining wall. - Prior to the removal of the existing floodgate, the permanent flood defence barrier will be installed to prevent potential water ingress whilst the existing wall is being removed.  

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		<u>Reinforced concrete capping beam:</u> - A new reinforced concrete capping beam is to be constructed along the full length of the new river wall as part of the development, raising the height to the 2040 requirement of 8.0mAOD following the design produced by Adkins Consultants Ltd. - Shutters will be erected to the correct height. - Concrete will be poured into the shutters, forming the new capping beam. - Sufficient time will be allowed for curing before the shutters are struck.  Notes: - The full width of the access road within the courtyard will be always maintained. - Soft landscaping will be completed after the main body of works. Allowing for possible future developments as none of which will present a permanent obstacle. - All services along the river wall to be removed and relocated prior to works Fire Arrangements: - The site fire plan will be produced and displayed on site notice boards and in the office. - Suitable fire extinguishers will be set up in strategic locations within the site compound, high risk material locations and with high-risk site operations. - Fire extinguishers will be suitable for the material at risk and will be checked weekly and serviced if necessary. - The fire alarm will be an air horn and 999 must be called. - The site emergency meeting point will be set up and displayed in the site fire plan and briefed to all operatives in their induction.
7	Reference to occupational health standards: COSHH, manual handling, noise exposure.	- Manual handling will be avoided where possible. - All plant to be regularly inspected to minimise excessive noise. - A silent piler rig will be used, which minimise's noise and vibrations. - Noise and vibrations to be monitored throughout the duration of the project. - All Plant will be managed in accordance with PUWER & LOLER regulation and company procedures.

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	Does the task introduce risks to occupational health, for example; Manual handling (detail on a Manual Handling Risk Assessment). Using substances hazardous to health (if a COSHH Assessment is not available obtain a MSDS and undertake an assessment and record on COSHH Assessment). Noise/vibration (determine or measure levels and undertake Risk Assessment, record on Vibration Register).	• All plant will be maintained and used in accordance with the manufacturer's instructions. • Defective or damaged plant will be removed from service and repaired or replaced. • All plant will have a copy of their declaration of conformity (if less than 12 months old) or certificate of thorough examination • All plant must be refuelled at a designated refuelling point where necessary and will be briefed to plant operators in the site induction. • All items of plant will have drip trays and plant nappies when not in use to prevent oil/fuel spills next to a water course. • Plant and equipment will be inspected daily and maintained in accordance with the manufacturer's guidance. • If a fuel or oil leak is noticed, the item of plant or equipment will be taken out of use and the oil/fuel will be contained. • Activities involving the use of handheld vibrating tools will be risk assessed to see if they can be avoided. • Low vibration tools will be used, and these will be well maintained, and an assessment of exposure will be carried out to ensure that the limit values are not exceeded. Compulsory for all personnel to wear minimum PPE requirements of: • High visibility clothing • Hard hat • Protective footwear • Eye protection • Gloves • (Hearing protection and wet weather gear to be worn when required) • Any delivery drivers exiting their cab must wear full PPE on site. • All COSHH materials will be kept in the stores. • COSHH assessments will be completed for all COSHH materials/substances. All COSHH assessments will be briefed to the operatives along with the relevant RAMS. • All operatives will be briefed on the site spill procedure. • Any small items of plant will be refuelled on a drip tray with absorbent pad. • At the end of use or end of shift all COSHH materials will be return to a COSHH store. • Diesel will be stored in a double bunded bowser, and a designated plant refuelling area will be set up with signs and barriers placed to demarcate its location. • Any COSHH incidents will be reported and dealt with in accordance with company procedure and site requirements In the event of a spill: STOP work immediately and prevent any more material spilling. If the pollutant is flammable eliminate any sources of ignition e.g., switch off plant. If the pollutant is silt, stop the activity which is causing silt generation CONTAIN: the spillage immediately using bunds of earth or sand, drip tray or spill kit contents as appropriate

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		NOTIFY: Immediately report incident to the site manager/foreman, who will then report to the environmental representative (or project manager in their absence). Emergency procedures will be included on the site poster boards.
8	PERMITS TO WORK REQUIRED Does the task require additional controls using a Permit to Work? Permit to Dig Hot Work Permit Confined Space Entry Permit	A permit to lift will be required for all lifting operations in accordance with the company procedure, site lifting plan and LOLER Regulations. Any works that present a fire risk such as welding, cutting lances or disc cutting of metals requires a hot works permit. Any breaking of ground will require a permit to dig which will be issued in accordance with breaking ground method statement and company procedures. If using a ladder for access, a ladder permit is required.
9	QUALITY CONTROLS While undertaking the task detail any Quality Controls required i.e.: Records of Concrete Cube tests.	Engineering equipment will be checked, recorded weekly and certification of calibration will be kept in the site engineering file.
10	ENVIRONMENTAL CONTROLS Environmental controls that need to be put in place to safeguard the Environment: Ground Contamination Water Pollution-Protection of Species/Habitat Statutory Nuisances-noise/dust Waste Materials- Site Waste Management plan etc.	Waste should only be removed to an authorised facility under waste transfer note/consignment note and following receipt and check of waste carrier license and disposal/exemption permits. It is the intention to limit the production of non-recyclables wastes and their consequent removal from site as far as is reasonably practicable. Construction materials and wastes will be safely stored so that items do not blow across site and potentially into the river. • Spill kits will be located on site, in plant and by refueling points. These will be replenished as necessary. • Due to the proximity to a water course, extra care must be taken when refueling and using plant/machinery. • In the presence of marine wildlife, works will be temporarily paused and the relevant environmental agency and wildlife personnel will be contacted.
11	First Aid and Emergency Arrangements. In addition to the general site first aid and emergency arrangements are any additional first aid or emergency requirements required for the task.	First Aider to be always on site. - First Aiders: TBC First aid kit & eye wash kit will be available in site welfare. Local A&E Department: Darent Valley Hospital, Emergency Department, Darenth Wood Rd, Dartford, DA2 8DA

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		Hospital route will be displayed on site notice board.
12	Control for the safety of third parties While undertaking the task detail any controls that are to be put in place to safeguard others affected by the work.	The site compound itself is not accessible by the public and supervision will ensure no members of the public enter the works areas via the main gate. Sign posting will be erected where necessary, to ensure the local public are made aware of the works within the site.
13	Are any lifting operations to be undertaken?	• Permits to lift required. • Lift to be supervised by KB staff to reduce risk of operatives and any members of the public from being injured. • Plant and equipment used for lifting must be maintained and managed in accordance with PUWER regulations.
14	Arrangements for dealing with waste.	Any waste material to be recorded in accordance with the waste management strategy and disposed of accordingly.
15	Attachments.	
16	Additional Information	The site will be left secure, and all plant and tools safely locked away at the end of each shift, a review will be carried out weekly to assess the security on site. All deliveries will be recorded. The project manager/site manager and the site engineer are to monitor the day to day works and ensure that the works are being carried out in accordance with the method statement. The site engineer or other suitable person is to provide a weekly tour of the works for the visiting client project manager or his representative In addition to this, the programme will be monitored on site to ensure the works stay on programme and release the site to follow on trades as quickly as possible. Works will be inspected in accordance with the approved ITP

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		Find attached below a plan indicating the expected work areas for a return visit after the development is complete to extend the walls to meet the 2070 requirement. <u>Future Works Access Plan</u> 

The signatories confirm that this Method Statement and attached Risk Assessments / COSHH Assessments have been briefed to understood and the task shall be undertaken as described.

Method Statement Number: -

[illegible]

Position: