A9179 – Natural Resources Wales

Chapel Reen

Revision No.		Authors	Date	Comments
1	Document prepared by:	Nathan Walding	15/01/2024	First draft, issued for comment
	Document checked by:	Jack Muldoon	15/01/2024	
	Document approved by:	Steve Richings	15/01/2024	
2	Document prepared by:	Nathan Walding	31/01/2024	Updated to include NRW / Binnies comments and issued to support Marine Licence application.
	Document checked by:	Jack Muldoon	31/01/2024	
	Document approved by:	Steve Richings	31/01/2024	

Job Method Statement

1. Contractor Company:	2. Area where work is to be done:
To be confirmed	Chapel Reen, Goldcliff, Newport

3. Exact location of the Work:	4a. Method statement & Job No.
Chapel Reen, Goldcliff Road, Goldcliff, Newport NP18 2AW Site / works location: • W3W///computer.downhill.wrenching Access via Goldcliff Road. • W3W///perch.newsprint.slides	A9179-RAMS-01
	4b. Order No.
	TBC

5. Job Description:

The project comprises works to replace the existing retaining / training walls on the seaward side of the Chapel Reen (also known as Fishers Gout sea door) tidal waterway structure that serves to protect properties in Goldcliff from flooding. The existing masonry retaining (training walls) have suffered partial collapse and emergency works were carried out in 2021 (as part of other works to the improve the structure) to install trench boxes between the existing training walls to prevent collapse and to temporarily mitigate the risk of blockage and flooding.

The works to be completed under this method statement comprise the following activities:

1. Site establishment (including access via Goldcliff Road, site offices, compound, welfare facilities, security)
2. Construct temporary access routes and lifting pad(s) in accordance with temporary works designs.
3. Install temporary works for water management to include over pumping measures (dependant on sequencing of works), remove existing flap valves from headwall and install temporary pipework to extend the existing culverts through working area, so they remain operational.
4. Install piling mat and undertake piling activities to drive the new sheet pile walls behind the footprint of the existing masonry training walls to achieve specified depths.
5. Install temporary works and framing (in accordance with temporary works design) to permit removal of the piling mat, temporary trench boxes and existing masonry training walls / fill material and expose face of new sheet piles.
6. Install temporary dam and over pumping measures to permit removal of temporary pipework used to extend existing culverts through working area, reinstate existing flap valves to headwall structure.
7. Prepare formation of existing channel bed and cast reinforced concrete slab (which may also to act as low-level strut) between the new sheet piles.
8. Following sufficient curing time allowance to achieve required compressive strength for concrete slab, remove temporary works and framing (5).
9. Cut sheet piles to finished levels and construct reinforced concrete capping beams with installation of permanent high level props.
10. Remove temporary works for water management (if required), temporary dam and pipework. Reinstate existing flap valves to headwall structure.
11. Finishing activities and site demobilisation.

6a. Anticipated Start Date	6b. Anticipated end Date	7. Duration of Work:
2024 (contingent on marine licence)	2024 (contingent on marine licence)	Estimated 12 weeks duration.

8. Number of persons – Varies, comprised from the personnel identified below.	
Contract / Project Manager	Site Manager
Site Supervisor(s)	Skilled Operatives
General Operatives	Slinger Signaller(s)
Piling Subcontractor Personnel	FRC Subcontractor Personnel

9. Contact Telephone Numbers:	
Principal Contractor	
Contract / Project Manager	TBC
Site Manager	TBC
Head Office	TBC
Natural Resources Wales – Client	
Mark Groves (Project Executive)	07827 367 341
David Jenkins (Project Manager)	07815 977515

10. Access & site environment.

The Chapel Reen sea door structure and site falls within:

- the marine environment, referred to a Mean High Water Spring (MHWS) level set at 6.33m above Ordnance Datum.
- Severn Estuary Ramsar, Special Area of Conservation (SAC), Special Protection Area and Site of Special Scientific Interest (SSSI)
- Newport Wetlands National Nature Reserve and Site of Special Scientific Interest (SSSI), Gwent Levels
- The Gwent Levels – Nash and Goldcliff SSSI is located adjacent to north of the site.

The outfall location and proposed site compound is shown in Figure 1 below (note – the compound area shown below is a sketch, please refer to the site plan drawing for more detailed information). The numbers denote other local features and receptors, which will need to be managed during the course of the works.

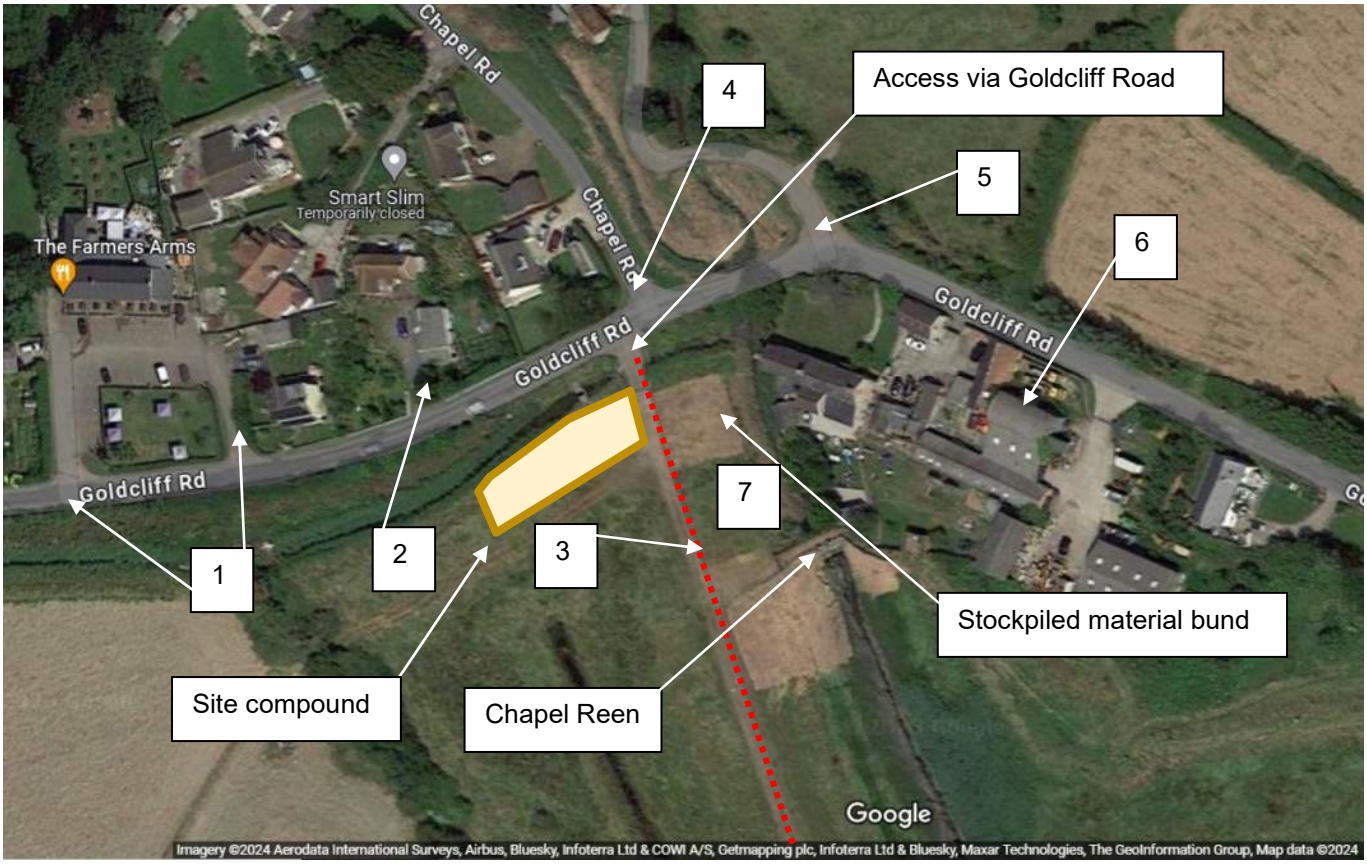


Figure 1 – Chapel Reen outfall location

The outfall can be accessed on foot via a public footpath (Wales Coast Path) which runs parallel to the reen. Vehicular access to the site is restricted by the padlocked gate at the Goldcliff Road entrance to the Wetlands at ST 36664 83062, see Figure 2.

The public footpath runs adjacent to the reen and current access is limited due to the collapsed right bank. There is a gravel track that also runs adjacent to the reen, which will be used for construction access, see Figure 1.

Figure 2 – Access to Chapel Reen via Goldcliff Road and junction with Chapel Road opposite.

A site compound will be established in the field to the north west side of the outfall, opposite the stockpiled material bund (see Figure 1). The existing surfaces within the boundary of the site compound will be protected from damage by overlaying ground protection membrane and matting. The internal site layout will be planned to allow sufficient space for site welfare and offices, Principal Contractor, Subcontractor and visitor vehicle parking, materials laydown and storage and also to allow for construction vehicles to enter the site for loading and unloading when approaching from the west or east along Goldcliff Road.

The temporary access routes and working areas will be segregated from the public through the provision of secure Heras fencing and safety signage. There may be a requirement for short durations during the works for construction plant to cross pedestrian footpaths. All plant movements will be under the control of dedicated banks persons at all times and temporary barriers and signage to segregate, inform and safe guard members of the public from these hazards will be used to further control the risks.

As identified in Figure 1, and in addition to the environmental and ecological designations, the site is situated between several other local features and receptors, as follows.

1. Farmers Arms public house and its junction with Goldcliff Road.
2. Private dwellings to north side of Goldcliff Road including access junction with Goldcliff Road.
3. Public footpath (Wales Coast Path) running parallel to Chapel Reen orientation.
4. Chapel Road junction with Goldcliff Road almost directly opposite the proposed site access location.
5. Additional junction (unnamed road) with Goldcliff Road to the north east of the proposed site access location.
6. Private dwelling and outbuildings directly adjacent to the east of Chapel Reen.
7. High pressure raw water main at unconfirmed alignment but presumed to lie to the north side of the Chapel Reen structure.

The construction works will be planned, managed and carried out to avoid, minimise or mitigate effects on the marine environment, public and surrounding area in accordance with the Construction and Environmental Management Plan (CEMP), which is to be produced and Environmental Action Plan (EAP).

All personnel will be briefed through Toolbox Talks on the importance of protecting environmental and ecological species and managing the works accordingly to avoid impacts under ecological watching briefs, as determined necessary. Site specific environmental controls will be developed with a particular focus on protocols such as managing and dealing with

spills and mitigating and reducing the effects of dust, noise and vibration on the surrounding environment and receptors.

There may be areas of Japanese Knotweed or other invasive species within the working areas. Any invasive species encountered will be classed as a 'controlled waste' and as such must be disposed of safely at a licenced landfill stie according to the Environmental Protection Act (Duty of Care) Regulations 1991.

A traffic management plan will be implemented that will describe the communication plan and measures to manage and minimise the project's interface between public pedestrian movements, site construction vehicle movements and public highway disruption. The plan will detail how these interfaces are to be managed to minimise disruption and maximise safety surrounding the site.

Working hours will be weekdays 08:00 to 17:00 inclusive and no weekend working is currently proposed.

The project will be managed from the Principal Contractor's site office. A site compound will be established and will include for all necessary welfare provision and a site office.

11. Assembly Point

The assembly point will be the site compound as established on site. The muster point will be determined on site and communicated to all personnel during a site induction.

12. Hazardous Substances to be Used:

a. Hazardous Substance:	b. Risk to health?	c. Controls required:
Petrol, diesel	Skin and eye irritation; nausea from fumes. Fire and pollution risk.	Wear gloves when handling. Store in correct, bunded, container, use funnel and spout to pour. Wear protective clothing. Only open container in well ventilated area. Fire extinguisher in the site office and on works vehicles.
Hydraulic oils	Skin and eye irritation; May cause allergic skin reaction.	All hydraulic oil is biodegradable and environmentally friendly. Wear protective clothing, gloves, eye protection when using hydraulic oil. Store in correct container, use funnel and spout to pour.
Concrete / Cement	Skin and eye irritation / damage. May cause allergic skin reaction.	Wear protective long sleeved clothing, chemical resistant gloves (EN374 Nitrile), eye protection when using product. Dust mask to be worn when mixing cement (EN 149).
Natcem35	Skin and eye irritation. May cause allergic skin reaction.	Wear protective long sleeved clothing, chemical resistant gloves (nitrile rubber / latex, Warrior EN388 work gloves), eye protection when using product. Dust mask to be worn when mixing Natcem35 (3M).
Virkon S (Disinfectant)	Serious eye damage; skin irritation; hazardous to aquatic environment	Wear safety eyewear and protective chemical resistant gloves. Wear protective long sleeve clothing. Follow dosage instructions and use in well ventilated areas and at sufficient distance from water bodies.

13. Personal Protective Equipment to be used:

a. Type:	b. Make & Model:	c. To protect against:
For general works		
Safety helmet with chin strap	Uvex	Head injury, falling objects
Safety boots	Warrior with steel mid-soles and toe caps	Falling objects, trips/slips, sharp and heavy objects
Safety gloves	Arco / Warrior (or as specified in Section 12 when using hazardous substances)	Cuts, abrasions, health hazards when using hazardous substances.
High vis vest/jacket/trousers	Arco 9 (BS EN 417 Class 3)	Other site users / vehicles. Traffic movements nearby
Waders / drysuit / wellingtons (as applicable to water levels) with steel mid-soles and toes	Warrior / Northern Diver	Water, hypothermia, sharp objects

13. Personal Protective Equipment to be used:		
a. Type:	**b. Make & Model:**	**c. To protect against:**
For general works		
Life jackets (if not wearing drysuits)	Crewsaver	Drowning
Ballistic googles	Bolle or equal approved.	Prevent eye injury due to flying debris when using cutting equipment, e.g. Stihl saws
Face masks	Drager X-plore 3000 (each person face fit tested for mask), FFP3 or 3M	To be worn when required for using / mixing hazardous substances.
Safety glasses and safety glasses with side shields	Warrior	To be worn when required for using / mixing hazardous substances.
Disposable latex/nitrile gloves	Warrior	As required when using hazardous substances.

14. Equipment:	
a. To be used:	**b. Safety precautions required:**
Barriers, cones, safety signs, safety fencing	Set up on firm ground using feet for stability, do not present trip hazard to public. Qualified operatives (sub-contractor) only to set out and maintain traffic management on Goldcliff Road, if deemed necessary.
Hand tools	Pre-use visual check to be made.
Vegetation clearance tools (hand tools, petrol hedge cutter, chainsaw)	Wear gloves and safety glasses. Ensure stable footing. Proceed with caution. Wear chainsaw trousers when using chainsaw. Refuel in bunded areas away from watercourse.
110v power tools, 110v leads and generator	In good working order. Fit for purpose. Cables and plug socket free from damage. Drill bits fit for purpose. To be PAT tested. Place generator in drip tray. Competent person to operate. Keep electrics away from water.
Battery grinder / power tools	Use correct disc. Wear appropriate PPE (safety glasses, gloves, overalls). Competent person to use.
Stihl saw (petrol)	Use correct disc. Wear appropriate PPE (safety glasses, gloves, overalls). Competent person to use. Hot works permits to be used.
Hydraulic submersible or suction pumps, power packs and hydraulic lines and discharge hoses.	Pre-use visual check to be made. Lift equipment only by the nominated lifting points using the appropriately rated and certified lifting equipment. Ensure assembled correctly, check all fittings before use. Use bio-degradable oil with hydraulic lines. Refuel in bunded areas.
Plant (excavators, forward tipping wheeled or tracked dumpers)	To be fit for purpose, have all the relevant in-date certs. To have Bio oil for use in and adjacent to watercourse. In good condition. Daily checks will be made on all plant before use.
Strops, shackles, lifting equipment (e.g. 4 leg chains)	LOLER tested, pre-use visual check to be made. Ensure securely tied off and working within safe working load limit. Use in accordance with lift plan.
Survey and setting out equipment	Pre-use visual checks to be made. Ensure all survey equipment calibrated and in date.
Bog mats / ground protection mats	For protecting ground or spreading load above known services. Visual checks on condition. Use dedicated lift points when lifting in accordance with lift plan.
'Press in' piling plant e.g. Giken Silent Vibration Free Piling plant and equipment.	To be fit for purpose, have all the relevant in-date certs. To be used by competent and trained personnel.
Vibratory drum roller e.g Bomag 120	To be fit for purpose, have all the relevant in-date certs. To be used by competent and trained personnel.
Vibratory plate compactor e.g. Belle PCX400	To be fit for purpose, have all the relevant in-date certs. To be used by competent and trained personnel.
CCTV security equipment	Pre-use visual checks to be made. Lift equipment only by the nominated lifting points if moving and minimum 2-person lift.

15. Technical Content of the Job:

Pre-condition survey

In advance of any works a pre-condition survey will be completed by the Site Manager and a full set of photographs taken and date stamped to form a pre-condition record. This will also include the access areas (footpaths and embankments), working areas and site compound area. On completion of the works, a photographic record of the construction works will be made and of all areas described above, which will serve to inform any defects that need to be corrected prior to Practical Completion.

1. Site establishment (including access via Goldcliff Road, site office, compound, welfare facilities, security)

Access to the site for vehicles, personnel and construction traffic is via Goldcliff Road as shown in the extract from Google below.

Image showing access to site via Goldcliff Road, noting bridge / culvert crossing and overhead cables.

The existing gate and fencing will be temporarily removed and modified to allow vehicles to enter and exit the site compound safely when approaching from west and east along Goldcliff Road. A temporary gate and temporary 'Heras' fencing will be provided in lieu of existing. There are no known weight restrictions to the bridge culvert that conveys the reen to the south of Goldcliff Road and the overhead cables will be clearly marked with GS6 compliant safety bunting to clearly identify the overhead height restriction to these services. All vehicle movements via Duffryn Road guided by dedicated banks persons / vehicle marshals.

The area designated for the site compound is as shown in the images below. The existing surfaces within the boundary of the site compound will be protected from damage by overlaying ground protection membrane and matting. The internal site layout will be planned to allow sufficient space for site welfare and offices, Principal Contractor , Subcontractor and visitor vehicle parking, materials laydown and storage and also to allow for construction vehicles to enter the site for loading and unloading purposes.

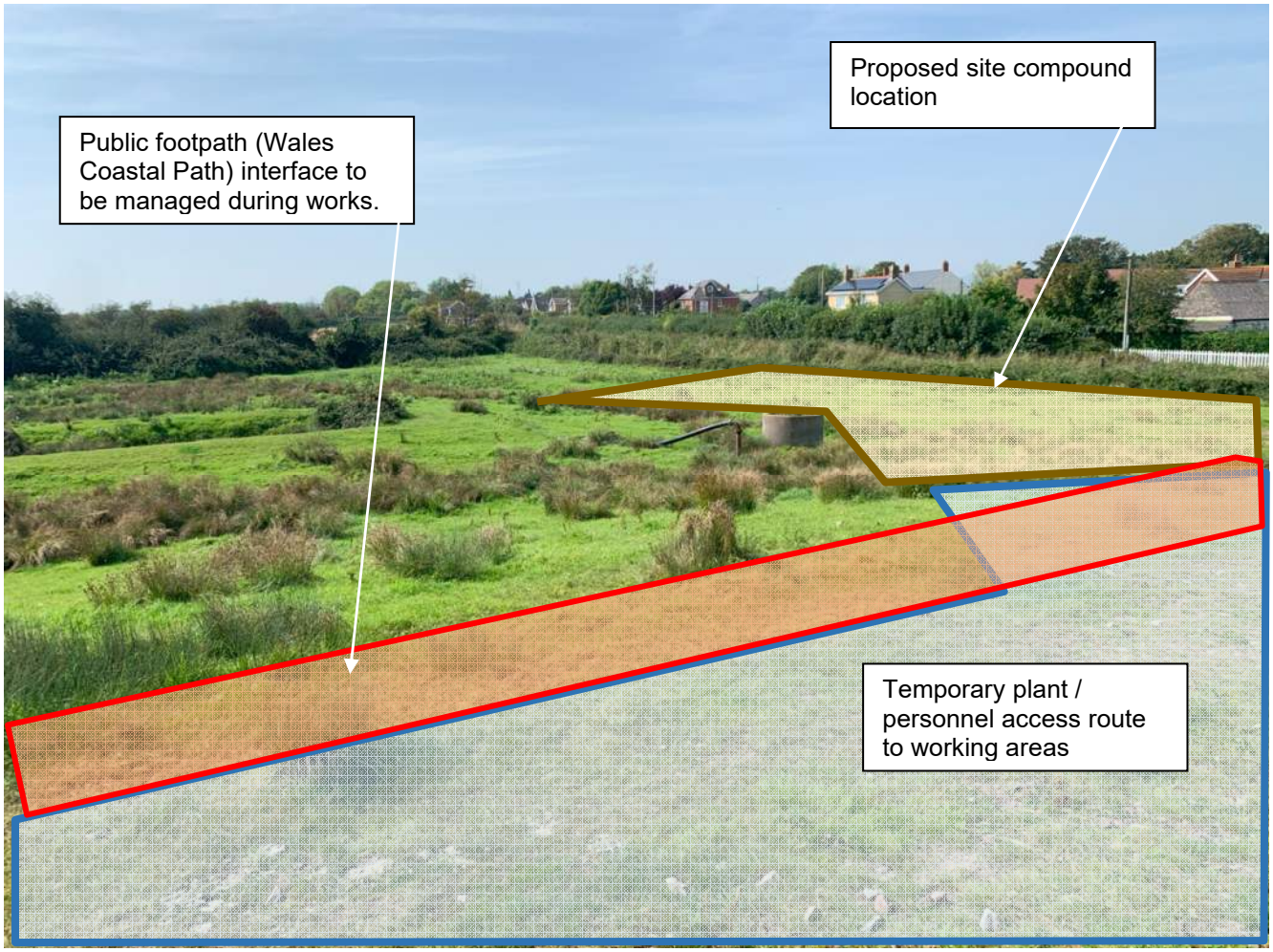


Image showing proposed site compound, access route to working areas and interface with public footpath

Heras fencing and signage will be erected to demarcate the site compound and working areas and to protect / segregate members of the public from the works; the public footpath will be diverted with appropriate measures. A scheme board will be provided to advise the public of the works in addition to other construction safety and footpath diversion signage.

Welfare will be provided suitable for accommodating all Principal Contractor and any Subcontractor personnel, including visitors. The facilities will include for a drying area, lighting, heating and kitchen facilities. A separate, dedicated unit will be provided for the use of the Site Manager and NEC Project Manager and Supervisor, with Wi-Fi provision. Dedicated areas will be established for the storage and handling of COSHH materials. Silt fences will be erected alongside the open watercourses (reens) that runs adjacent to the site compound area to mitigate the risk of pollution arising from surface water run-off.

CCTV will be installed as a security measure to safeguard plant and materials against the risk of theft and damage within the site compound and working areas. CCTV security cameras will be provided during all non-operational periods. Material and plant deliveries will then be taken in accordance with the traffic management and soils management plans.

2. Construct temporary access routes and lifting pad(s) in accordance with temporary works designs

The access route from the site compound to the working areas will be overlain with a geotextile membrane, geogrid (e.g. Tensar SS20 to improve the underlying soil shear strength and stiffness) upon which clean imported stone (or stockpiled material, if suitable) will be placed. This will mitigate any undue damage to the existing surfaces and flood embankment.

The indicative alignment of the temporary access route is as shown in the marked up image below. A lifting and piling pad will be created behind the west side of the trench boxes, which will be used to fill the area between the trench boxes with AquaRockBags or equal approved once the temporary pipework to extend the existing culverts has been installed (see below). The AquaRockBags will then be 'topped off' with additional imported (or stockpiled) material to

provide plant access to the east side of the outfall structure. All works to be in accordance with temporary works design.

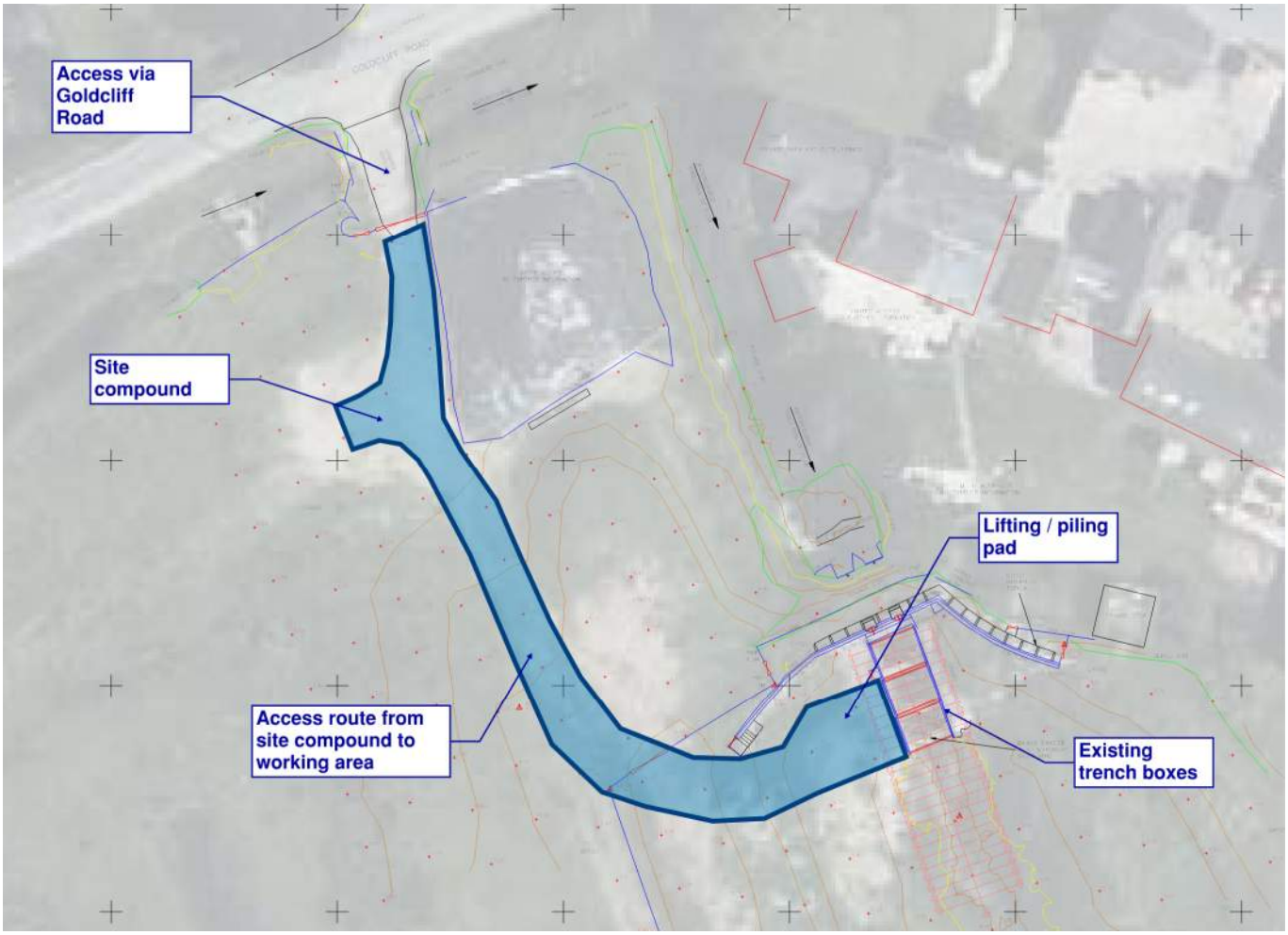


Image showing access route to working areas and lifting / piling pad behind west side of trench boxes.

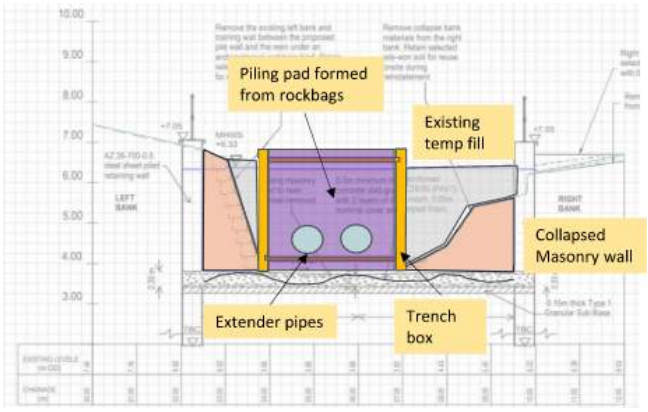
3. **Install temporary works for water management to include over pumping measures (dependant on sequencing of works), remove existing flap valves from headwall and install temporary pipework to extend the existing culverts through working area, so they remain operational.**

An assessment will be made on the requirement for over pumping measures at this stage to complete works to remove the existing flap valves and install temporary pipework to extend the existing culverts beyond the end of the trench boxes (through the working area).

If sequenced correctly and flows can be managed by diverting through the adjacent culvert not being worked upon, then over pumping may not be necessary. However, this will depend on weather conditions, suitable tide windows and flow rates.

The sequence of works is as follows and will proceed working on each culvert one at a time:

- Install temporary dam upstream of structure (fluvial side) to divert all reen flows through adjacent culvert, which will remain live.
- The existing flap valve will then be removed. The fixings will be removed (stored for reinstatement purposes) and flap valve lifted out by an excavator stationed on the lifting pad, see image above.
- A prefabricated coupler assembly will be inserted into the downstream end of the existing culvert and sealed
- Pre-assembled temporary twin wall pipework pre-fitted with a Tideflex non return valve or equal approved will then be lifted into place and secured to the fitted coupler assembly.
- Flows will then be diverted through the extended pipework to allow the steps above to be repeated to the adjacent culvert.
- Fill area between the trench boxes and above with AquaRockBags lifted into place with an excavator stationed on the lifting pad. Note. All lifting operations to be in accordance with the project lift plan.



Images showing likely sequence of works under (3), noting temporary dam, not necessary if piles can be driven to specified depths without requirement for struts

4. Install piling mat and undertake piling activities to drive the new sheet pile walls behind the footprint of the existing masonry training walls to achieve specified depths.

Install geotextile membrane and piling mat (using imported clean stone or stockpiled material, if suitable) above level of AquaRockBags to permit access for piling plant across trench boxes to the east side.

Pre-piling works to install vibration monitors on structure to monitor Peak Particle Velocity (PPV) vibration levels during piling operations so that industry accepted (British Standard) limits. Proceed with driving sheet piles, using the specified method.

5. Install temporary works and framing (in accordance with temporary works design) to permit removal of the piling mat, temporary trench boxes and existing masonry training walls / fill material and expose face of new sheet piles.

A temporary works design will be prepared in advance of this activity to provide lateral support to the newly installed sheet piles. This will generally be in the form of waling beams and cross props that will be installed to span between the sheet piles above the level at which they are to be cut down for the construction of the reinforced concrete capping beams. The works will be installed and checked by the temporary works co-ordinator (TWC) to ensure that they are implemented on site in accordance with temporary works design and specification. The temporary works are likely to take the form, as shown in the image below.

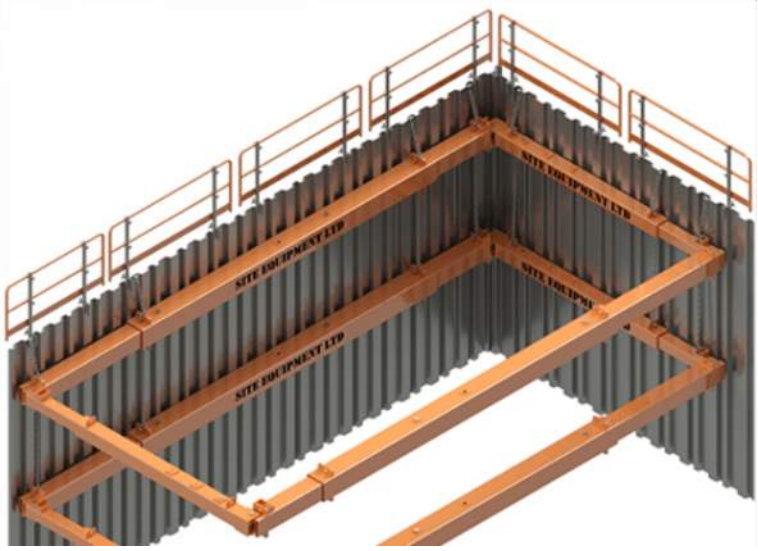


Image showing likely form of temporary works and framing.

Once temporary works installed and checked, use long reach excavator to remove piling mat from east side, transporting material to temporary storage area within compound for disposal from site. Excavate remaining piling mat from within trench boxes and commence removal of AquaRockBags with excavator stationed on lifting platform behind

west side of newly installed sheet pile walls / capping beam.

Progress works to remove AquaRock Bags, upper section of trench boxes and struts and excavate remains of failed masonry training walls and fill material to expose face of new sheet piles. Continue work to remove remaining low level AquaRock Bags, lower section of trench boxes and remaining masonry / fill.

6. Install temporary dam and over pumping measures to permit removal of temporary pipework used to extend existing culverts through working area, reinstate existing flap valves to headwall structure.

Owing to the requirement to construct a new reinforced concrete slab at the level of the existing masonry channel bed, the temporary pipework to extend the existing culverts through the working area will need to be removed and modified; a section of each pipe pre-fitted with a Tideflex non return valve will remain insitu downstream of the newly installed sheet piles and a temporary dam constructed around them within the existing channel. The temporary dam is likely to take the form a frame dam (see image below), as it can be erected insitu without the requirement for plant tracking into the channel. The temporary dam will provide a tidal lock to the MWHS level and enable the area between the existing headwall and dam to be dewatered by installing temporary over pumping and other water management and pollution control measures.

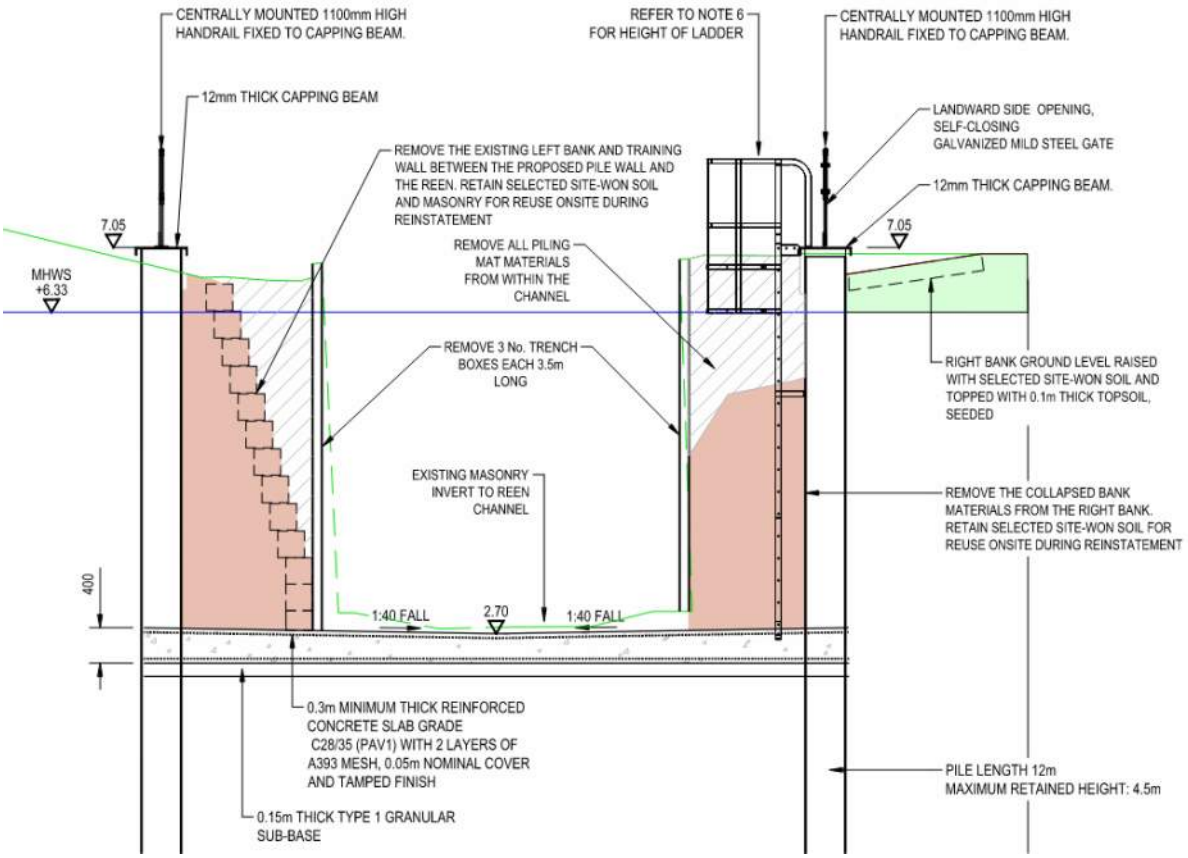
Image of frame dam with flume pipe

7. Prepare formation of existing channel bed and cast reinforced concrete slab

With the over pumping measures in place and area between the existing headwall and temporary dam dewatered, works will progress to complete the construction of the reinforced concrete slab between the sheet piles.

The works will then progress as follows:

- Excavation to formation level
- Import and compact Type 1 stone or appropriate fill material.
- Blinding concrete works, facilitated with concrete boom pump.
- Reinforcement works to specified cover and design (2 layers of A393 mesh reinforcement).
- Pre-pour checks on reinforcement tolerances / spec requirements.
- Main concrete pour works to cast new slab to specified levels and grade. Take cube samples in accordance with requirements of ITP.



Images showing intended reinforced concrete slab.

8. Following sufficient curing time allowance to achieve required compressive strength for concrete slab remove temporary works and framing (5).

Temporary works (waling beams and cross props) will be removed in a reverse sequence to installation. Temporary access platforms may be required for this activity.

9. Cut sheet piles to finished levels and construct reinforced concrete capping beams with permanent high level props.

Following installation of temporary access provision, continue with works to cut sheet piles to required level by oxy acetylene cutting. All works to be carried out under specific method statement and hot works permit system for this specialist activity.

Once sheet piles are cut to required level proceed with formwork, reinforcement and concreting works to construction sheet pile capping beams. The general sequence of works for this activity is as follows:

- Carry out additional localised excavation to formation level for sheet pile capping beams outside internal footprint.
- Install steel reinforcement and proprietary formwork system in accordance with temporary works design. Note additional mag drill operations may be required to secure 'Sheet Pile Capping Beam' system to sheet pile pans.
- Pre-pour checks on reinforcement tolerances / spec requirements.
- Pour concrete capping beams using concrete boom pump. Take cube samples in accordance with requirements of ITP.
- Following sufficient curing time allowance, strike 'Sheet Pile Capping Beam' system and remove formwork.
- Installation of permanent high level props between sheet pile capping beams.
- Complete any headwall modifications.

10. Remove temporary works for water management (if required), temporary dam and pipework. Reinstate existing flap valves to headwall structure

Complete the following activities:

- Remove prefabricated couple assembly and re-fit existing flap to concrete headwall, securing with existing or replacement fixings. Flap valve to be lifted into position with an excavator stationed on the lifting pad.
- Clear and remove any residual material in base of channel, clean surfaces of sheet piles by jet washing.
- Remove temporary dam and remaining sections of twin wall pipework with pre-fitted with Tideflex valves and temporary water management measures (over pumping).
- Flows will then be diverted through the reinstated culvert / flaps valve.

11. Finishing activities and site demobilisation

Upon completion of the main contracted work elements, a site walkover and meeting will be held with the NEC Project Manager and Supervisor to agree and define a 'snagging' or completion list prior to issuance of Practical Completion. Works will be carried out to rectify these issues and then the site will be cleared and demobilised. All excess waste materials will be transported by a registered waste carrier and disposed of, according to classification, at a suitable licenced waste disposal facility.

Any temporary works, ground protection mats and access route materials will be removed. The site welfare facilities, plant and equipment and site security measures will be off-hired and removed. The final works will be to reinstate the access gate and fencing via the Goldcliff Road access point its pre-existing condition.

A photographic and video record of the completed works and site areas will be made and provided to the NEC Project Manager and Supervisor and all relevant construction information and residual risks provided to the Principal Designer for compilation of the project Health and Safety File.

16. Environmental Risk Assessment of the work to be done. What are the:

a. Hazards	b. Risk to the Environment	c. Controls to be used?
Fuel for plant and equipment	Contamination of water	Re-fuel only in bunded areas away from water and keep fuel bowser as far away from water as possible. Spill kit to be on site. COSHH safety data sheet made available. Ensure equipment is well maintained/serviced with no obvious leaks.
Oil spill	Contamination of water	Spill kit to be on site. Ensure equipment is well maintained/serviced with no obvious leaks. COSHH safety data sheet made available.
Concrete / cementitious products	Contamination of water	Formwork and pollution control measures used to control the placement of concrete, washout in dedicated wash-out skips.

17. Safety Content of the Job:

General

All site personnel are experienced in this field of work and are aware of the hazards that lay before them and have suitable recent practical experience in undertaking this type of work by similar methods.

Suitable means of access will be created for plant and operators to safely access the working areas.

A briefing by the Site Manager / Supervisor to all affected parties will take place before work commences outlining the safety and rescue protocols and methods of construction. This will include a briefing at the Principal Contractor's head office prior to mobilising to site and a briefing on site to reaffirm the stated roles and procedures.

The Principal Contractor will have welfare facilities on-site to provide all statutory welfare provision. A first aid kit and fire extinguisher (foam) will be carried on the works vehicles on site / welfare units. A minimum of two personnel will be first aid trained.

Water levels in Chapel Reen will be watched constantly and weather forecast monitored to ensure that conditions are safe for works to continue. Additionally tides will be checked to ensure that they do not interfere with the sequencing of the works. If this cannot be achieved, works will be suspended until weather conditions improve, watercourse flows subside or tide heights reduced so that works can be executed safely. The requirements will be detailed in the Construction Phase Plan will be followed and implemented as required.

Prior to any excavation works being carried out the locations of any underground services shall be identified. The statutory returns from the service undertakers or asset owners shall be checked and the locations traced through CAT scanning. The locations of any services shall then be clearly marked out on site. Excavation works shall not proceed in any areas where services are known to be present or identified.

Operatives will ensure that materials and equipment are kept tidy and clear of footpaths so as not to cause any interference with pedestrians outside of designated working areas. Materials and equipment are to be kept within the site compound or working area which will be securely fenced off. Vehicles will be parked within the designated site areas ONLY.

The requirements of the Traffic Management Plan will be briefed to all personnel and delivery drivers and followed at all times. All plant and vehicle movements will be under the control of a banks person.

All lifting operations to be carried out in accordance with the lift plan under the control of slinger / signaller.

All personnel will be briefed to be courteous and respectful for passing members of the public, footpath closures and diversion routes will be put in place. The site working hours will be adhered to and noise will be kept to a minimum at all times.

For emergency dial 999

Arrangements for fire and emergency procedures are detailed in the project Construction Phase Plan.

However, for non-emergency situations, where medical assistance is required, dial 111.

The nearest A&E facility:

The Grange University Hospital
Llanfrechfa Grange
Caerleon Road
Cwmbran
NP44 8YN
Tel: 01633 493 100

18. Declarations			
I authorise commencement of the works, in accordance with this plan and any associated permits.			
a. Print name:	**b. Sign**	**c. Designation**	**d. Date**
		Site Manager	
I have read and understand the contents of the Risk Assessment and Method Statement and will implement its contents.			
e. Print name	**f. Sign**		**g. Date**