



Our Lifesaving Rules



Network Rail Project No:

AMCO Contract No:

WPP Revision: 0

Revision Date: 6/08/2021

Work Package Plan

**CD 200/912 Langbank
GOU2 117m 1400yds**

WPP003 – Coastal Defence Works

Start Date: 06/05/2024

Finish Date: 13/09/2024

**Work Package Plan
Number:**

WPP003: CD200-908 Langbank

Controlled Copy Number

CD200-908 Langbank

**Construction Phase Plan
Number**

CD200-908 Langbank

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6/08/2021

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12/08/21

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(Print Name)

[Redacted]

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(Signature)

Contracts Manager

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(Job Title)

Civils

.....
(CRE Discipline (as stated in the CPP))

Accepted on behalf of Network Rail / Client:

.....Date
(Print Name)

(Signature)

Project Manager.

(Job Title)



Always be sure the required plans and permits are in place, before you start a job or go on or near the line.

| | | |
|-------------------|--|---------------|
| 1 of 28 | Proforma uncontrolled when printed | RFM-HS-006-04 |
| Parent Procedure: | HS52: Planning and Managing Rail Construction Work | |

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VERSION CONTROL

| REVISION NUMBER | SUMMARY OF CHANGES |
|-----------------|--------------------|
| Draft | |
| 01 | |
| 02 | |

Supporting guidance



L2OHS0044_F02.pdf

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1 Introduction

1.1 Brief outline of work methodology

1.1.1 CD200-908 Langbank - Sea Defence Coastal defence section CD 200/912 is located on the Gourrock line (GOU2) between Langbank (Low Mileage) and Woodhall (High Mileage) stations, near the village of Langbank, Port Glasgow. The remitted section of the structure starts at 117 miles and 1400 yards and extends to 117 miles and 1606 yards. The location of the site is shown in Figure 1.

Works at Langbank Coastal Defence 200-908 will comprise –

- De-vegetation of structure and 5m surrounding envelope, roots to be treated to prevent regrowth, including treatment of any invasive species.
- Voiding Repairs
- Masonry Repairs
- Installation of Weep Holes
- Brick Work Repairs

This work package plan covers all works associated with Coastal Defence Works for Langbank Coastal Defence 200-908

1.1.2 The following tasks support this Work Package Plan:

| Reference & Prepared by: | Task Briefing Sheet Title | Activity Start Date |
|-----------------------------|---------------------------|---------------------|
| WPP002/TBS001 - C Robertson | De-vegetation | 06/05/24 |
| WPP002/TBS002 - C Robertson | Revetment Works | 06/05/24 |

General

- All operatives will receive the site safety induction and sign the site safety induction log
- All personnel on the site will receive a task briefing to cover the methodology and health, safety and environmental risks associated with the activities.
- A daily white board briefing will be carried out each day which all site personnel will attend. Any new hazards will be identified at this point.
- A point of work risk assessment and daily briefing will be carried out each day which all operatives will sign to show they have understood the methodology and hazards. Any new hazards will be identified at this point.
- All suppliers to be notified of Traffic Management plan prior to commencement of works.
- A dilapidation photo survey shall be carried out before any works commence.
- All refuelling shall occur in a dedicated area at least 10m away from the watercourse

- All heavy plant operating in or within 10m of the watercourse will run using hydraulic Bio oil.
- All static plant shall be sat over a drip tray which can contain 110% of the fuel tank capacity. This plant shall be positioned at least 10m away from the water
- All waste shall be managed in accordance with the Site Waste Management Plan.
- Clean, check and dry process to be in place and briefed to all personnel and all plant to be cleaned down before coming to site.
- Nesting bird survey to be carried out prior to works commencing.
- All works shall comply with the requirements of the ecology report, Marine Scotland licence.

IMPORTANT INFORMATION REGARDING TIDAL WORKING

- No lone working is permitted at any time in or around the coastal defence.
- Works are in a tidal area and therefore works will be planned accordingly. Any machine works to be carried out with machine in the coastal footprint are only permitted 3 hours either side of low tide. At all other times, it is expected to be high tide and therefore no machine works are permitted Site supervisors should familiarise themselves with an approved Tide Times information service. These times will dictate working hours and limitations.

TB001 De-vegetation

- As part of the works at Langbank there will be a requirement to remove vegetation to allow access.
- This work will be carried out by certified operatives.
- Where vegetation clearance (during bird nesting season) is required a bird survey will be carried out prior to the removal of trees. This will be carried out by a qualified ecologist.
- A bat specialist has previously checked the trees in this area within the NR boundary for bats/bat roost potential and found none.
- The AMCO supervisor will mark out the extent of the site to be cleared.
- All tree felling work will be carried out by NPTC/Lantra certificated operatives.
- Safety exclusion zones will be set using barrier fencing.
- Full PPE including helmet with visor and ear defenders, boots and gloves to be worn at all times.
- Road traffic management may be utilised where tree removal is required in the vicinity of the public highway.
- Tree removal will commence at a location agreed location with chainsaw certificated operatives who will directionally cut trees to stump level away from themselves using chainsaws within the site boundary.
- If required, all vegetation and small trees will be processed using chippers. The chips will be discharged to an allocated area and levelled.
- The personnel carrying out these duties must be a trained and competent person.

TB002– Revetment Works

- Marine Licence to be issued prior to AMCOGiffen entering the work area.
- Peel Ports works licence to be issued prior to AmcoGiffen entering the work area
- Permit to work near the water to be issued prior to working.
- All permit requirements to be adhered to for duration of the below activity.
- A water monitoring kit shall be obtained from the AMCO Environmental Department and a sample shall be taken and recorded (photographed) by the Site Supervisor.
- Local emergency services, including the coastguard and lifeboat will be advised of the operations.
- All operatives must wear lifejacket and be fully briefed on activities risk and control measures along with the rescue plan.
- Upon completion of the main works, the above methods will be removed in opposite sequence with extra care taken to ensure no sediment is disturbed.
- Visual Inspections will be carried out before, during and after all proposed concrete works including masonry repairs and any issues highlighted to AMCO Site Management and works suspended.

Masonry Repairs

- Masonry repairs will be carried out as detailed on the Form00B drawings and repair schedules.
- Access to repairs will be gained from ground level.
- Access at higher level will be accessed from ground level on the shallow incline. Operatives will utilise harnesses fixed to a line lanyard positioned on the slope. This work will be carried out during periods of low tide only.
- Dilapidation Photos must be taken prior to any works commencing.
- The ecology report shall be referred to and nesting bird check undertaken prior to works commencing
- Pointing and filling is to be carried out in accordance with NR/CIV/SD/101.
- Operatives will use hand tools such as rake/hammer/chisel/scutch (and lightweight 110v breakers if required) to remove all loose mortar from the masonry courses to a required depth to provide a key for the new mortar installation. If a depth of 20mm or more mechanical tools to be used.
- Operatives to check to ensure that a depth of at least 25mm has been achieved by the raking of old joints, using a suitably proportioned depth gauge for 25mm
- A lime mortar mix as per the design specification detailed on NR/CIV/SD/101 will then be dry mixed in the main compound before being transported round to the work area.
- A measured amount of water will then be added to the mix in the bucket to form the mortar, which will then be applied to the re-formed mortar beds before being struck flush.
- Utilising hand tools (trowel & pointing key), sweep mortar into the exposed joint area
- After the mortar has hardened (but before it goes off); all joints will be given a brushed finish. The mortar will be brushed with a soft brush to expose the course aggregate.
- Mortar Mix to be M6.



Concrete Repairs

- As above concrete repairs will be carried out as per repair schedules
- This will consist of pointing to rock revetments or reinstating concrete wall sections
- If excavation is required the area will be CAT scanned and a permit to dig issued, before any excavation works commence.
- An excavator working under the supervision of a banksman and within an exclusion zone will excavate to a level set by AMCO's site engineer. Casting all excavated material into a tracked dumper which will be transported to an allocated safe area for later removal from site by an approved waste carrier.
- A min 50mm concrete blinding will be poured to form a clean and level base to set shutters on, and pinned at bottom to stop shutter failure during concrete pour of the invert blinding, the concrete will be brought to site.
- If access is suitable concrete will be placed using the excavator.
- Once blinding has cured shutters will be erected to give minimum 300mm base & 1200mm wall, the shutters will be transported where the joiners will fix and set shutter to correct line and level set by site engineer, shutters will be erected and shored.
- Fast set concrete will be either be brought to site premixed or hand batched from dry mixed 25kg bags
- Concrete will be poured at the start of low tide to allow adequate curing time.
- Once installed all fittings will be tightened up and checked prior to leaving site.
- COSS will sign out and the ES will cancel and remove worksite.
- The site shall be left in a clean, tidy and safe condition at the end of the shift. The fencing supervisor and the AMCO Site Supervisor shall have a final walk round the site, to make sure everything is safe prior to leaving site

TB003 CCTV & Jetting Works

- Noted on repair schedules is a requirement to unblock existing storm drainage pipes which outlet at the costal defence location. This work will be carried out by a rail mounted jetting unit working from the adjacent track. This work will be carried out under possessions accessing at Langbank RRAP GOU2 112m 1341yds (Bishopton Station).
- All personnel attending site will receive site induction, task briefing, whiteboard briefing, POWRA briefing & SWL1 briefing & any relevant permits to work will be issued prior to commencement of works.
- Engineering Supervisor will set up work site.
- COSS will sign in with Engineering Supervisor and give work force a site specific Safe System of Work briefings
- On arrival at the worksite 110v lighting or portable lights are to be erected, this fully illuminating the works area
- Under the supervision of a trained & competent CC the RRV will access at the RRAP on the Down line

- Jet Vac units under the supervisor of the CC will then travel from the RRAP access point on the down line to the work location
- Operatives will lift off existing catch pit covers and clean out the catch pit base
- Jetting operatives will then begin to jet from catch Pit – downstream to the outlet.
- Operatives operating the CCTV unit will then commence carrying out a full CCTV survey to establish the full condition of the existing drainage
- This process will continue until all drainage been jetted & CCTV Survey carried out.
- All plant and excess materials will be removed from line side to safe storage location in site compound
- Form 005 confirming the track is fit for the passage of trains will then be issued by Amco-Giffen nominated person
- Engineering Supervisor along with the COSS will have a visual inspection of worksite and track and confirm the worksite is clear for the passage of trains hand back worksite

1.2 AMCO's delivery organisation

1.2.1 The following individuals from the AMCO's organisation will be involved during this work package:

| Role | Name | Contact Number |
|---|-------------------|----------------|
| Regional Director | Jim Double | [Redacted] |
| Operations Director | Stephen Campbell | |
| Contracts Manager | Phil Tait | |
| Site Agent | Charlie Robertson | |
| General Foreman | John McCormick | |
| Engineer | TBC | |
| Contractors Engineering Manager | Alan Crockett | |
| Contractors Responsible Engineer (Civils) | Phil Tait | |
| ALO Responsible Manager | Phil Tait | |
| ALO Planner / Coordinator | Charlie Robertson | |
| ALO Planner / Coordinator | John McCormick | |
| Temporary Works Co-Ordinator | Phil Tait | |
| Temporary Works Supervisor | John McCormick | |
| H&S Advisor | Thomas McStay | |
| H&S Advisor | Andrew Wilson | |
| Sustainability & Assurance Advisor | Mike McDermott | |
| Material & Plant Procurement | Barnsley | |

1.2.2 The following companies, specialist contractors and/or individuals will be involved during this work package as defined in the CPP:

| Name of company, specialist contractor or individual, etc. | Work activity / Specialism | Point of contact details | |
|--|----------------------------|--------------------------|------------|
| | | Name | Mobile |
| AmcoGiffen | Ecology Survey | Mike McDermott | [Redacted] |

1.3 Resources

1.3.1 The following resources will be used for this work package:

Relevant Design Documents

A copy of any drawings and other design documentation relevant to this task can be found in Appendix 2

| Document Ref | Document Title | Rev |
|------------------|------------------------------|-----|
| 3231-MHB-DRG-010 | Existing General Arrangement | 01 |
| 3231-MHB-DRG-130 | Proposed General Arrangement | 01 |

People

| Number of People and their competence associated with this WPP | | Task |
|---|--------------|---------|
| Competence | No of People | TBS Ref |
| Agent – SMSTS, First Aid, CSCS | 1 | 1,2, |
| General Foreman – SMSS, First Aid, CSCS | 1 | 1,2, |
| General Operative – CSCS, First Aid, Plant Operators, PASMA, Dumper/Roller, Slinger/Signaller, Banksman | 3 | 1,2 |
| Machine Operator | 2 | 1,2, |
| Delivery Drivers – HIAB*if required | various | 1,2, |
| De-vegetation Team *if required | 2 | 1, |
| Banksman/Vehicle Marshall | 2 | 1 |

Plant, Equipment and Tools

| Quantity of Plant, Equipment and Tools associated with this WPP | | Task |
|---|---------|---------|
| Plant item | No | TBS Ref |
| Hand Tools | Various | 1, 2 |
| Welfare | Various | 1, 2 |
| Power tools | Various | 1, 2 |
| Devegetation equipment | Various | 3 |
| Excavator | 2 | 1 & 2 |
| Dumpers | 2 | 1 & 2 |
| Hiab's | Various | 1, 2 |
| Pickup(s) | 1 | 1, 2 |
| Heras Fencing | Various | 1, 2 |
| Red & White Barriers | various | 1, 2 |
| Spill Kits | Tbc | 1,2 |

Materials

| Quantity of Materials | | Task |
|--------------------------|----------|---------|
| Material | Quantity | TBS Ref |
| Concrete | Various | 2 |
| Stone | Various | 2 |
| Masonry Repair Materials | Various | 2 |

2 Working Together

2.1 At site communication

2.1.1 Communication on site will be via phone and email between all parties involved within the contract. Any accidents or incidents that occur on site should be reported to AMCOGiffen on call manager and then after Network Rail's PM. All relevant details can be found within the CPP and WPP. Calls to emergency services will be made by mobile telephone.

2.2 Contact details

2.2.1 The following are the main contacts for this work package:

NR Project Team

| Name | Role | Contact details | Tick to confirm number works and has been tested |
|------------------|-------------------------|-----------------|--|
| Michael McArthur | NR PM | [Redacted] | ✓ |
| Laura Criag | NR SPM | | ✓ |
| Ian Simms | NR CM | | ✓ |
| Craig Robertson | NR Snr Project Engineer | | |
| Stuart Chalmers | NR Project Engineer | | ✓ |
| James McKay | HSEA Specialist | | ✓ |

Regulators

| Organisation | Contact details | Tick to confirm number works and has been tested |
|--------------------------|---|--|
| Emergency Services | Emergency – 112 / Non Emergency 101 | ✓ |
| British Transport Police | 0800 405040 | ✓ |
| HSE | Fatalities and Major Injuries - 0845 3009923. Other - http://www.hse.gov.uk/riddor/report.htm | ✓ |
| ORR | 020 7282 2000 | ✓ |
| EA/SEPA/NRW | 0800 807060 | ✓ |
| Flood line | 0345 9881188 | ✓ |
| Local Authority | Highland Council - 01349 886 606 | ✓ |
| Spill clean up | 0800 592827 | ✓ |

2.3 Other parties involved with the package of work (interfaces details)

2.3.1 The following working arrangements will apply with all parties / organisations that have been identified with this work package:

| Interfacing Organisation | Interface Point for: | Point of Contact and contact details | Interface arrangements |
|--------------------------|----------------------|---|------------------------|
| Land Owner | Land Access | TBC (correspondence through Network Rail) | tbc |
| Marine Scotland | Marine Licence | Marine Scotland 0300 244 5046 | tbc |
| | | | |

3 Hazard Management

3.1 Work involving particular risks

3.1.1 The work in this package involves the following particular risk(s), as detailed in Regulation 12 (2), (Schedule 3) of the CDM Regulations 2015:

| Risk | When and where will the risk be present? | Permits Required | How will this risk be controlled? |
|---|--|------------------|---|
| Work which puts workers at risk of burial under earthfalls, engulfment in swampland or falling from a height, where the risk is particularly aggravated by the nature of the work or processes used or by the environment at the place of work or site. | Excavation | Permit to Dig | Follow good digging practices and guidance described in the methodology. All excavation sides to be battered back to reduce the risk of collapse. Personnel only to enter excavations if safe to do so and under the guidance of the banksman. Stop blocks, water filled barriers to be used to prevent accidental incursion by plant/personnel onto the track. Regular inspections of excavation carried out by site supervisors. Weather forecasts to be monitored and periods of high tide levels to be identified and works within the dry working area avoided if possible during this time. Ensure rescue equipment and lifesaving PPE is on site and utilised during this time. All works to be carried out with Fall Prevention Equipment in place. No working next to a leading edge unless personnel are wearing a harness with lanyard "clipped on" to a suitable fixed anchor point. Exclusion zone to be set up, signed and maintained below all works at height including deliveries. Banksman to control all plant movements and exclusion zones. Any access to the back of a flatbed van or HGV must only be completed once a safety rail system has been installed. All works at the |



| | | | |
|---|---|-----------------------------------|---|
| | | | top of embankments to be carried out with banksman in a position of safety. Only authorised personnel involved in the works to enter the exclusion zone under the control of the banksman. Ensure equipment is certified and checked prior to each and every use. Exclusion zone to be identified, barriers and warning signs to be erected. |
| Work which puts workers at risk from chemical or biological substances constituting a particular danger to the safety or health of workers or involving a legal requirement for health monitoring. | During all refuelling activities. Working with imported aggregates. Working with concrete. | | MSDS and COSHH assessments to be communicated to workforce with all control measures detailed in the assessment adhered to. Suitable PPE / RPE as detailed in the COSHH assessment to be used whilst working with substances hazardous to health. Gloves to be worn should be rubber coated completely as appose to rubber palm coating only. During periods of excessive dry warm weather water suppression will be sprayed over aggregate to prevent dust. Face masks of FFP3 variety should be worn. Face masks to be worn during working with dry dusty material operations. During concrete operations, all personnel should ensure bare skin is covered with an appropriate barrier against concrete splashes. Footwear should prevent ingress of cementitious liquid through to skin. Gloves should be PVC with the ability to block liquids reaching skin. |
| Work which puts workers at risk of falling from a height, where the risk is particularly aggravated by the nature of the work or processes used or by the environment at the place of work or site. | During all deliveries and working next to an edge. Masonry repairs carried out. | Permit to work at height. | All works to be carried out with Fall Prevention Equipment in place. No working next to a leading edge unless personnel are wearing a harness with lanyard "clipped on" to a suitable fixed anchor point. Exclusion zone to be set up, signed and maintained below all works at height including deliveries. Banksman to control all plant movements and exclusion zones. Any access to the back of a flatbed van or HGV must only be completed once a safety rail system has been installed. All works at the top of embankments to be carried out with banksman in a position of safety. Only authorised personnel involved in the works to enter the exclusion zone under the control of the banksman. Ensure equipment is certified and checked prior to each and every use. Exclusion zone to be identified, barriers and warning signs to be erected. PASMA towers only permitted to be constructed, maintained and dismantled by or under the supervision of a trained an competent PASMA trained operative. |
| Work exposing workers to the risk of drowning. | All works within the shoreline. | Permit to work near water. | Weather conditions, Tidal flow to be monitored before commencing works adjacent to or in the water. Life jackets to be worn during periods of increased water levels and rescue buoys and life lines to be positioned on the banks adjacent to the work site. Working area to be established for works within the river. Due to the tidal nature of the works, shift plans to take cognisance of the tidal times and machine works only authorised during periods of low tide or approx. 3hours either side of low tide point.. Rescue boat employed if assessed as required. Wear approved PPE. Whistle to be worn to raise alarm incase of emergency. No lone working in or around water. |
| Work involving the assembly or dismantling of heavy prefabricated components. | During all deliveries and collections | Permit to Lift. | All lifting operations to be planned and assessed and lift plan produced. All lifting equipment to be checked and records kept on site. All lifting to be controlled by banksman/signaller. Banksman/slinger to control all plant movements if installed using kill switch. All lifting |



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| | | | to take place from a failsafe position. Exclusion zones to be established and maintained around all lifting operations. These are to be fenced off using heras type fencing. Fall/edge protection must be in place for any personnel having to access either the back of an HGV or pick up. |
|--|--|--|---|

3.2 Significant railway and construction risks

3.2.1 The following are the significant railway and construction safety and health risks that apply during this work package. A copy of the risk assessments associated with this WPP can be found in **Appendix 1**

| What are the main risks (including health) during this Work Package? | When and where will the risk be present? | Permits Required | How will the risk be controlled |
|--|--|----------------------------------|--|
| Change Management | Throughout the lifetime of this package of works. | | Adhere to the following: If you haven't been briefed on a certain task, don't do it. If the work activity differs from what you have been briefed on, stop. If you become unsure how to progress your works, stop. If in doubt, speak to your line manager or supervisor. Undertake a POWRA detailing the change control measures, consult with the supervisor and proceed if safe to do so. Do not restart works until you have been re-briefed on the task. At all times, CHANGE = STOP |
| Working in/adjacent to watercourse | Masonry Repairs and Rock Armour Installation. | Permit to Work Near Water | Static plant to be sited minimum 10m from water with suitable plant nappy to prevent oil/diesel spillage. Awareness of hazardous flora and fauna. Correct PPE. Adherence to Weill's Disease procedures. Prevent contact with water. Rescue point to be set up at prior to the works commencing and to contain as a minimum. Life Ring and Life Line. Operatives to be conversant with the Rescue Procedure and a "Dummy" rescue carried out. Marine Licence to be in place and conditions adhered to. Tidal times to be monitored at regular intervals and shift plans adjusted to suit working only around low tide until dive working area is in place. Ensure that all non-essential plant, unsecured equipment and unsecured materials are removed from the worksite prior to high tide. All personnel involved in the works to be competent. Suitable PPE to be provided for operatives including good quality Waterproof jacket and trousers. Waterproof welly boots to be used for when working within the low tide working area as a minimum. No lone working at any time within the Working Area. Silt levels to be monitored up and down stream of the works, before during and after the works are complete to identify the potential for any issues and allow for mitigation measures to be implemented. All |



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| | | | plant working to be fitted with Bio Oil. All operatives working in and around to wear life jackets. |
| Excavations and breaking ground | All excavation works. | Permit to break ground | Ensure excavations are carried out using a permit to dig. All areas for excavation to be CAT scanned and service drawings checked before work commences. All services to be marked on the ground, Positions of disconnections to be marked up. Check exactions at the beginning and end of each shift and record on appropriate Phoenix form. Backfill excavations as soon as possible. Fence off excavation if they have to be left unattended. Do not leave excavations within the watercourse open overnight. Operatives excavating within the area of a known live service must wear flame retardant overalls, gauntlets and hard hat with visor. Installation of sheet piling will take place around tides. Ensure initial inspection of previously installed piles is carried out each shift start. |
| Stability of Excavations | During all excavation and fill works. | Permit to excavate. F91 excavation register. | Site supervisor to carryout daily inspections of all excavations prior to shift start and throughout the shift. These are to be recorded in a site excavations inspection file and held on site. Exclusion zone managed by banksman to prevent unauthorised personnel from entering excavation. Banksman to maintain a safe position at all times during the works. Excavations at tie ins to be excavated to a maximum gradient of 1:2 to a maximum depth of 1800mm. Centre sections excavated to 800mm square to the abutments. Upon completion of the excavation, Permit to Proceed to be completed by the TWS prior to commence filling operation. Excavation to be monitored during the filling operation as above with permit to proceed completed upon completion of the filling operation. |
| Buried Services | All Excavation & Fill Operations. | Permit to Break Ground. | All areas of disturbed ground to be scanned with CAT and Genny, this to include areas for roadway and compound installation. Services drawings checked prior to excavation. Hand dig to locate services. Permit to dig to be in place and briefed to all personnel. No mechanical excavation within 1.2m of known buried service without director's approval. Operatives excavating within the area of a known live service must wear flame retardant overalls, gauntlets and hard hat with visor. Follow the guidance of AMCO procedure HS33. Temporary works and setting up of delivery HIAB jacks to take cognisance of underground services. |
| ALO | Excavation and fill works. | ALO Plan and Daily Checklist | ALO plan must be produced, approved and briefed to all operatives involved in the works. Works will be below the level of the track however the excavator will be working in a position where it will be feasible to breach the ALO. In addition to the above all excavators are to be fitted with Kill Switch preventing excavator leaving predefined exclusion zone. Banksman to receive briefing on Kill Switch working. Prior to any excavator movements, Kill Switch to be checked each shift using mock test to ensure fit for purpose. This will involve turning on excavator and hitting the kill switch to ensure it is fully functional. Banksman and operator to maintain communications utilising Dect Comms at all times. Banksman and |



| | | | |
|--------------------------------|--|--|---|
| | | | machine op to ensure that banksman is in a position of safety outwith the slew/reach of the machine. If the banksman requires to enter the dig, the machine operator should idle the machine and ensure the machine is unable to be moved until the banksman regains a position of safety. |
| Plant Movements | During the lifetime of the site activities. | | Only Trained and authorised personnel to use plant. Plant not to be overloaded and load not to restrict drivers view. Reversing horns to be working on mobile plant at all times whilst reversing. Banksman with machine at all times whilst working or travelling. Exclusion zones to be established around working / manoeuvring plant. Site records to document adherence to this. Use of VCAS system on dumpers. Exclusion zones around all operating plant. All Excavators to be fitted with Kill Switches. Banksman to assist with these movements where possible. No parking off site due to the narrow of road. Ensure entry gate is set back to allow for the safe locking and unlocking of the gate. |
| Lifting operations | Deliveries | | All lifting to be planned and assessed with a lift plan. All members of the lifting team to sign the lift plan. All lifting equipment to be checked & records kept. All lifting to be controlled by a banksman/signaller. All lifting from a failsafe position. Exclusion zones to be established around all lifting operations. |
| Environmental interface | Throughout Entirety of Project | | Consult with Authorities. Ecology survey has been carried out. 24hr spill response team on standby. Trained and competent staff and personnel. Well informed personnel. Fuelling over plant nappies and static plant to be set on nappies. Chemical and fuel spill kits to be positioned adjacent to the point of potential spill i.e. next to fuel bowser and flamebank. All static plant to have plant nappies underneath. All spills reported and dealt with accordingly. No refuelling or storing of COSHH materials within 10m of the river. No fuelling operations or fuel storage within 10m of water. Do not create soil bunds adjacent to the watercourse where run off could enter the watercourse. Use of bio oil in machinery working in or adjacent to watercourse. embankment and not directly into the river. Oil booms and spill kits to be available adjacent to the worksite. Marine Licence to be in place and conditions adhered to. Site will maintain communications with fisheries during the lifetime of the project. Also all work to be carried out at low tide. |
| Hazardous substances | During the lifetime of all site activities. | | COSHH Assessments. Methodology defined in WPP. Correct PPE and RPE. FFP3 masks to be worn when spreading stone during dry dusty conditions if required, additional water suppression is to be put in place. Suitable welfare facilities. Full rubber gloves to be worn when working with liquid materials to protect back of hands. Cover skin when mixing or working with grout or concrete. Ensure additional breaks and water is available if working in warm weather. Ensure hazardous materials are stored more than 10m away from the shore |
| Manual Handling | During the lifetime of all | | All personnel to have received Manual Handling Training. Restriction of weight. Restriction of distance carried. Eliminate twisting when loading. Use of |



| | | | |
|--|---|--|---|
| | site activities. | | additional personnel. Use mechanical means where possible. |
| Use of small tools/hand tools/power tools | During the lifetime of all site activities. | | Use of battery powered tools. Low voltage equipment (110v). Regular circuit test/PAT. HAVS assessments to be undertaken and briefed. Noise assessments to be undertaken. Ensure you complete the HAVS register at the end of each shift. |
| Noise | During the lifetime of all site activities. | | Noise levels to be monitored and hearing protection worn if required. When noise levels reach 85db hearing protection shall be mandatory. When using any hand held power tools or near or with machinery hearing protection shall be mandatory. Letter Drop local residents before works begin. |
| Dust | During all drilling, cutting and working with dusty materials. | | Use water suppression methods at all times if dry conditions are causing dusty atmosphere. Wear FFP3 dust masks at all times during filling operations on dry dusty days. Carry out occupational health assessments. FFP3 masks to be used when cutting pipes or stone work. Ensure water bottles available with cut off saws. Monitor condition of Unamed Road and organise road sweeper if required to reduce mud/dust on surrounding roads. Haul Road to be kept clean and washed as required to reduce slips, trips and falls. |
| HAVS | Throughout the lifetime of all works. | | Use low vibration tools. Where appropriate use anti vibration handles. HAVS monitoring to be completed daily. Ensure ELV's are not breached and actions are taken when EAV are reached. Rotate personnel Be aware of your permitted trigger times prior to starting work. Do not exceed trigger times. Note trigger times may differ to operation times. Trigger times for tools in use for these operations are whacker plate (greater than 24hrs to EAV), cut off saw (789mins to EAV), cordless drill (245mins to EAV), TE30ATC (99mins to EAV), TE40ATC (105mins to EAV). Trigger times noted within the HAVS file. Ensure you are familiar with times prior to starting an operation. If the tool to be used isn't listed stop and speak to a supervisor to acquire the required data. |
| Weil's Disease | Throughout Entirety of Project. | | Identify locations and eliminate where possible. Carry Information card. Be aware of symptoms. Protect cuts and damaged skin. Wear appropriate PPE. Do not ingest. Personal hygiene. Inform GP if reporting 'flu symptoms |
| Vehicle Movements | Throughout the lifetime of this package of works. | | Vehicle marshals to be used at all times on site to monitor and control plant/vehicle movements. Segregated walking routes to be formed within the compound. Gates at the compound and the main site to be closed and locked at all times. Do not leave gates open at any time. Warning notification signage to be erected on approach roads advising members of the public of the presence of Construction traffic and the site entrance. All suppliers to be notified of the Traffic Management Plan for the site including the requirement to notify/book in deliveries to allow for AMCO attendance at the gate and remove the requirement for Signage to be erected advising contact numbers for access for any suppliers who fail to notify of a delivery time. Site traffic to be advised site speed limit of 5mph. Vehicles exiting the site to give priority |



| | | | |
|---|---|--|---|
| | | | to vehicles entering the site to prevent a coming together. Banksman to assist with these movements where possible. Ensure site gate is set back from the main carriageway to allow for the safe locking and unlocking of the gate. Banksman and machine operators to ensure the use of Dect Comms during all plant movements. |
| Sharps | Throughout the lifetime of this package of works. | | Identify possible locations. If discovered, fence off and advise site management who in turn will inform NR control. Do not touch or remove the sharp. Instruction on procedure in event of cutting / puncture. Encourage the wound to bleed, prevent further contamination. Report to hospital, taking offending sharp with patient. Inform NR control on 0141 335 2020. Due to remote location, no expectation to find needles on this site however vigilance is key. |
| Theft or vandalism | Throughout the lifetime of this package of works. | | All sites are adequately signed and demarcated with suitable and sufficient barriers. Areas to be secured at all times outside normal working hours. Remove all valuables and potential hazards when out of use. No dangerous plant or materials to be left accessible when unattended. Remote CCTV guarding on site from Black Diamond during all periods when AMCO has no attendance on site. During busy shifts with multiple persons/contractors, store man to be used to monitor comings and goings from stores. |
| Fire | Welding operations, refuelling operations and cutting of anchors. | | Avoidance of accumulation of combustible material. Correct storage of gasses and highly flammable liquids. Control of sources of ignition. Firefighting equipment to be readily available, serviced and maintained. No smoking to be permitted on site. Electrical appliances and small tools to be inspected. Hot works permit. Ensure welding operations carried out by a trained and competent welder. Exclusion zone around welding operations to be set up and maintained. Fire point to be set up, one at the compound and one at the bridge. Both to contain a first aid kit, fire extinguisher set and signage advising types of fire for each extinguisher. |
| Public Interface (Local residents) | Throughout the lifetime of this package of works. | | Ensure that good communication and correspondence is kept between AMCO, Network Rail and the local Council. Always ensure the area is clean and tidy. Always give public right of way and be polite and courteous at all times. Site manager to ensure no vehicles park on the unnamed road at any times without TM in place. Letter drop to be completed prior to works commencing to residents within a 200m boundary of the worksite, road closure and compound. Ensure walking route is kept clear, tidy and away from overhead services where possible. Site hazard warning signage to be erected throughout the works site. Assist vehicles entering/exiting the site onto local roads to minimise nuisance to local residents. |
| Eye Injuries | Throughout the lifetime of this package of works. | | Standard safety glasses to be worn for general site work and impact resistant goggles for powered tools. Impact resistant visors and goggles to be to EN1661B standard. High Impact goggles to be worn during all cutting/drilling tasks. If wearing the Bolle |



| | | | |
|--|--|--|--|
| | | | tracker type glasses for high impact work, the head band must be worn to achieve high impact status. |
| Environmental Spillages (Site activities) | Throughout the lifetime of the project. | | Use drip trays and nappies with static plant. A&A Environmental to be on 24hr call out. Spillage granules and spill kits are to be available on site. Ensure refuelling point and storage is set up 10m (minimum) away from a known gully or watercourse. Ensure oil booms are positioned alongside the silt curtain to prevent any risk of oil from the machine entering the water course. |
| Fuel spillage from compound generator | Throughout the lifetime of the project. | | Secure-set generator to be used (containerised, with built in fuel tank and bund to 110% capacity). Nappies to be used during refuelling. Spill kits and granules to be available on site. A&A Environmental to be on 24hr call out. |
| Working in inclement weather | Throughout the lifetime of this package of works. | | Adequate Safety Footwear to be worn at all times. Lace up boots at all times unless wet weather working or carrying out a task with water. Remove trip obstructions. Remove signs from temporary fencing during forecast periods of high winds. Water suppression in periods of excessive heat/dry weather. Regular breaks when working in and around water. Site team to monitor the longer range forecasts daily and identify periods of concern. Where possible works to take into consideration periods of severe weather. Site to monitor water levels at periods going into and during high tide. If any concern, clear the dry working area or personnel/equipment and stop works until safe to do so. At start of the works, monitor high tide levels over a few days to identify the average height of water. During wet weather ensure drying facilities are operational and wet weather clothing is available to all. Weather station to be set up to monitor for high winds etc. Monitor long and short range weather/tide forecasts for periods of concern. |
| Working in a remote location. | Throughout the lifetime of this package of works. | | Works are in a remote location. Signal has been checked at compound and is sufficient for raising emergency help and also making contact with head office/management. In the event of failure of phone signal, local residences to be asked for assistance. Radios to be used if required for communications between the work parties. |

3.3 Lifesaving rules and High Risk Areas

3.3.1 The following table highlights those Life Saving Rules applicable to this WPP

| | | | |
|---------------|-----------|--------------|-----------|
| Always | | Never | |
| | ✓ or X | | ✓ or X |



| | | | |
|--|---|--|---|
| | ✓ | | ✓ |
| | ✓ | | ✓ |
| | X | | ✓ |
| | ✓ | | ✓ |
| | ✓ | | ✓ |

3.3.2 The following table highlights those HRA's applicable to this WPP

| | | | | |
|--------------------|-------------------|--------------------|----------------------------|------------------------|
| | | | | |
| Breaking Ground | Change Management | Confined Spaces | Electrical & Stored Energy | Fire & Hot Work |
| Yes | Yes | No | No | Yes |
| | | | | |
| Lifting Activities | People & Plant | Railway Operations | Working at Height | Work Related Road Risk |
| Yes | Yes | Yes | Yes | Yes |

4 Environmental and Waste Management Arrangements

4.1 Environmental management arrangements

4.1.1 The following environmental issues are applicable to this WPP



| Environmental Issues | Project Control Measures | Environmental Consents and Permits |
|----------------------------------|---|--|
| Management of oils and chemicals | <ul style="list-style-type: none"> All tanks shall be banded in accordance with the oil storage regulations. Storage facilities shall be positioned at least 10m away from a watercourse Drip trays shall be used whilst refuelling. Containers shall be fit for purpose, labelled and have proper fitting lids. Containers and tanks shall be made secure against vandalism or theft Refuelling and concrete washout shall take place in a dedicated area at least 10m away from a watercourse Spill kits shall be kept on site in high risk areas and shall be appropriate to the risk and amount of oils and chemicals present | |
| Management of silt | <ul style="list-style-type: none"> Consideration shall be given to the silt hierarchy where potential for silt/soil pollution on site, this will be controlled by creation of a dry working area and overpump assisted by the below: Sediment Filtration Bags | Marine Licence and Permit to Work near Water |
| Dust, Noise, Odour | <ul style="list-style-type: none"> Dust from cutting or grinding to be suppressed using water Stockpiles of soil to be battered back Noise hierarchy to be followed in accordance with BS5228 – Eliminate, Substitute, Isolate, Control Hybrid or battery operated technology to be utilised Silenced plant to be used Screening to be used . | • |
| Works affecting flora or fauna | <ul style="list-style-type: none"> Ecology survey to be undertaken and recommendations complied with Work to stop if protected species or nesting birds found and advice sought. | • |
| Flood Risk Management | <ul style="list-style-type: none"> Monitoring of compliance with any permit / licence / consent affecting watercourses and flood risk Daily completion of the Permit to Work Within, Over, and Adjacent to a Watercourse (HS131) Review and communication of weather forecast, flood information and tide times. Use of national flood warning services: https://flood-warning-information.service.gov.uk/warnings Checking of any temporary works to ensure that they suitable and sufficient to cope with seasonal weather / river flows Measures to be established to prevent debris entering the watercourse which may pose a flood risk. Where possible, materials, plant and other items shall be stored at least 10m from the watercourse edge or, preferably, off the flood plain altogether. | • |
| Nesting birds | <ul style="list-style-type: none"> Nesting bird survey to be carried out prior to works commencing | |
| Potential for otters | <ul style="list-style-type: none"> Carry out works during daytime hours to prevent disturbance to foraging/commuting otters. If habitat is discovered then stop works and consult specialist ecologist. | |

| | | |
|--|--|--|
| | <ul style="list-style-type: none"> Install pipe through dry working area to allow for passage of otters and other wildlife/aquatic life | |
|--|--|--|

4.2 Waste management arrangements

4.2.1 The following waste management arrangements are applicable to this WPP. All waste shall be reused or recycled in accordance with the Site Waste management Plan.

| Waste type | How will it be stored? | Testing required prior to disposal | Waste classification | Reuse (R) onsite / Disposal off site (D) |
|--------------------|------------------------|------------------------------------|----------------------|--|
| Mixed Waste | Skip | No | Non-Haz | D |
| Excavated material | Loose | Yes | Non-Haz | D |

5 Emergency Arrangements

5.1 Site emergency arrangements

5.1.1 First aid arrangements

5.1.1.1 *The first aid arrangements for this package of work are*

| first aiders | Name | Qualifications |
|--|--|---|
| | Charlie Robertson | British Red Cross Trained |
| | John McCormick | St Andrews Ambulance Trained |
| Likely injuries associated with this work package | Minor Injuries, Falls From Height, knocked down, drowning. | |
| First aid equipment provision | Equipment | Location |
| | First Aid Boxes, rescue equipment, accident book. Life ring and safety line set up downstream and upstream of the works. Operatives entering the watercourse or working within close proximity to the water course to have life jackets issued along with waders. Only enter water course during low tide times. | Supervisor's vehicle + Site vehicles + site offices + First Aid Points + life ring point. |

A first Aid risk

assessment can be found in Appendix 5 of the CPP.

5.1.2 Evacuation arrangements

5.1.2.1 Evacuation arrangements can be found in Appendix 6 of the CPP

5.1.3 Fire safety arrangements

5.1.3.1 A Fire Risk assessment can be found in Appendix 6 of the CPP.

5.1.4 Security arrangements

5.1.4.1 No plant or materials will be left unsecured on site at any time – only remaining items that will be left on site are site fencing and locked/secured plant. CCTV active out with working times. Return all plant and materials to the compound for storing overnight. All loose plant & materials to be removed from dry working area outwith operational hours.

5.1.5 Environmental Emergencies

5.1.5.1 Oil Spill: Adopt the following procedure where safe to do so: STOP the source of the spill. CONTAIN the spill using available spill equipment. NOTIFY your Site Manager. CLEAN UP the spill and dispose of waste materials as a hazardous waste. If the spill is beyond your control, contact the 24hr emergency response contractor on 0800 592827.

5.1.5.3 Silt Incident: Adopt the following procedure where safe to do so: STOP the source of the silt disturbance where possible. CONTAIN the silt using resources on site (e.g., straw bales, sedimats, and creation of diversion drains). NOTIFY your Site Manager. CLEAN UP any silty water held and remove used silt mitigation measures once water quality has returned to normal.

5.1.6 Summoning emergency services

This will be via mobile phone. The compound will be given as the site location and this can be found within the WPP. On arrival the emergency services will be met by the nominated person (Site Supervisor)

5.1.7 Railway emergency (trains and electrical)

5.1.6.1

| | Contact Details |
|-------------------------------|-----------------|
| ECO | N/A |
| Signal box | TBC |
| Protection Signals Ref | See SSOW Pack |

In the event of an emergency affecting the safety of the railway the following actions will be undertaken.

1. Do not place yourself or the safety of others in danger
2. The lead communicator on site will be one of the following people and in this order – PICOP > Route Setting Agent > Protection Controller > COSS or SWL or IWA.
3. In an emergency a train can be stopped by raising both arms in the air or at night by waving a light vigorously
4. In an emergency the signaller / ECO shall be contacted immediately via mobile phone or using the nearest signal post telephone.
The lead communicator shall state (*using the phonetic alphabet to communicate any difficult words*) :
 - ‘This is an emergency call’
 - Confirm who you are speaking to the right person *ie usually the signaller or Electrical Control Operator (ECO)*
 - Tell them
 - who you are (*Joe bloggs*),
 - what you do (*ie COSS*); and
 - your location (for example *Shapton East Junction or near to SH20 (sierra, hotel, two, zero) signal*)
 - Describe the problem and what part of the railway is affected *ie Down Main xx or Level crossing at yy*
 - Tell them what action needs to be taken *ie any emergency service required*
 - Ask the person to ‘repeat back’ the information
 - The Signaller or ECO shall end the conversation.

Access to the track shall be via the following rail access point - tbc

5.1.8 Asbestos

5.1.7.1 N/A

5.1.9 Utilities

5.1.8.1 Buried service pack will be obtained by AMCOGiffen for the works and this will be available on site during construction works

| Organisation | Contact details |
|--------------|-----------------|
| Electricity | 0800 300 999 |
| Gas | 0800 111 999 |
| Telecoms | 0800 800 154 |
| Water | 0800 778 778 |

6 Work Package Arrangements

6.1 Site Layout

6.1.1 A site layout plan can be found in Appendix 3.

6.2 Access and Egress

6.2.1 Access to the compound will be signed from AMCO site compound, Bishopton train station RAPP, PA7 5AB and/or adjacent Parklea Community Sports Facility, Parklea Rd, Port Glasgow PA14 6TR. The site route will be via the foot and road ways within the car park.

6.3 Welfare

6.3.1 AMCO shall comply with the requirements of the Network Rail Welfare Standard NR/L3/INI/CP0036 Appendices A & B. Details on site welfare provision can be found in Appendix 3 of the CPP.

6.4 Rail Traffic Management

6.4.1 All works requiring to access from track will be carried out during a Line Blockage. Any persons accessing the line must be in possession of a PTS card or TVP. ES to set up worksite. COSS with competencies to complete briefing of SSOW pack info. All personnel to ensure they have Network Rail approved PPE and cap lamps for night working. All OTP will access on the down line from Bishopton station RRAP access controlled by CC.

6.5 Road Traffic Management

6.5.1 The works will not require traffic management.

7 Hand Over and Hand Back Arrangements

7.1 Hand over and hand back arrangements

7.1.1 Certificate of Completion will be sought from Network Rail on completion of the works. Handback file will be produced by AMCOGiffen and submitted to Network Rail.

APPENDICES – Supporting information

Appendix 1 – Site Specific Risk Assessment



Appendix 2 – Site Layout Plan

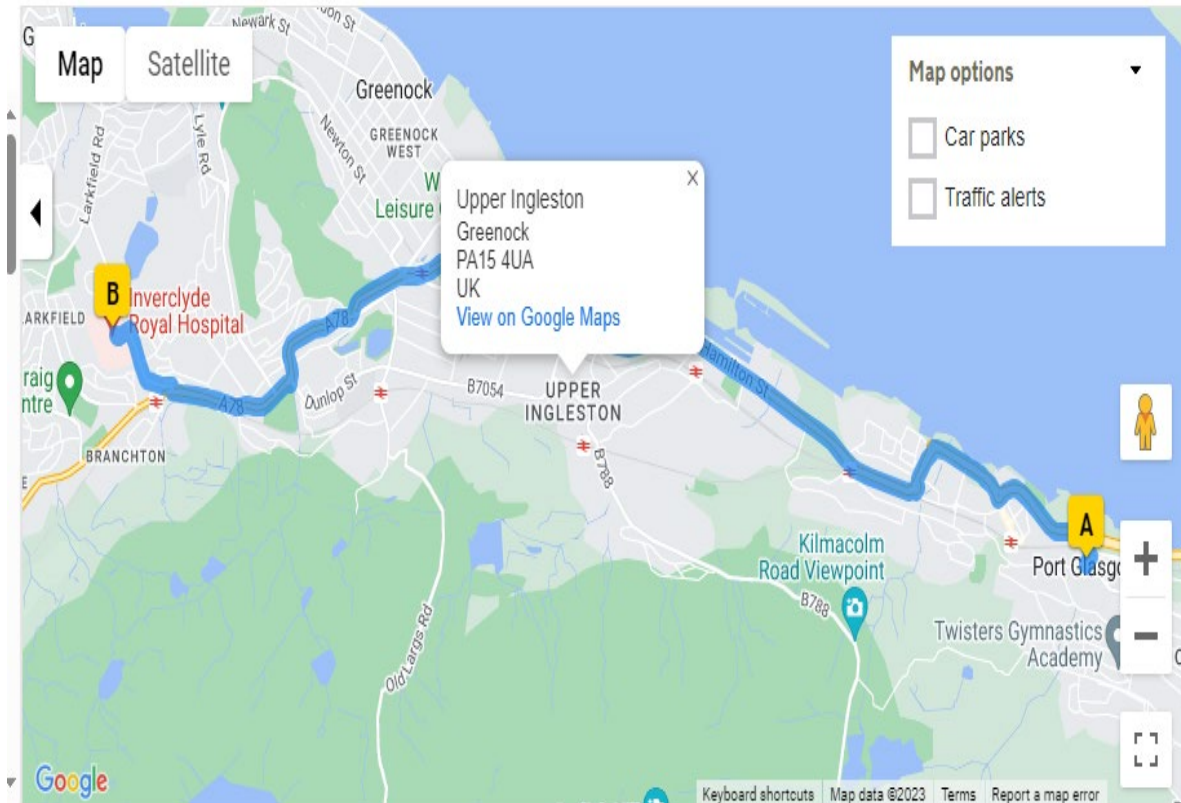
CD200/912 Langbank





Appendix 3 – Route to Hospital

Inverclyde Hospital
Larkfield Road
Greenock
PA16 0XN
01475 504 361



Appendix 4 – Spare