AMCO·GIFFEN

Our Lifesaving Rules

everyone home safe every day

Scan/Report Close Calls

Network Rail Project No: SCOAM18

AMCO Contract No: Various

WPP Revision: 01

Revision Date: 09/03/23

Site supervisor to undertake a hazard review on site prior to works commencing to ensure that SWP & WPP are reflective of the conditions and hazards on site. This is to include walking route to/from site and conditions at the work area.

Checks are to be formally recorded within POWRA.

Prepared by:

Adam Ovenden ……09/03/23…..Date

……
(Print Name)
<Redacted>

……
(Signature)
Supervisor

……
(Job Title)

Approved by the Contractor's Responsible Engineer (CRE): ……Date

……
(Print Name)

……
(Signature)

……
(Job Title)

……
(CRE Discipline (*as stated in the CPP*)

Work Package Plan

Med Risk

Job No.	**Various**
Location	**Saltcoats Sea Defence**
ELR / Mileage	LGS1/200/433 29M 0060Yds
Grid Reference	**NS2539041217**

Sea Defence Repairs

Start Date: 12/08/23

Finish Date: 08/09/23 (Day shift)

Work Package Plan Number:

WPP No: 200.433.Saltcoats Rev 1

Controlled Copy Number

Unique No: 01

Construction [Phase Plan / Reference] Number

Unique No: SCOAM18

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G. Armstrong	CRE Civils – Site Agent	Amco – Giffen	01
S. Todd	Site Supervisor	Amco – Giffen	01

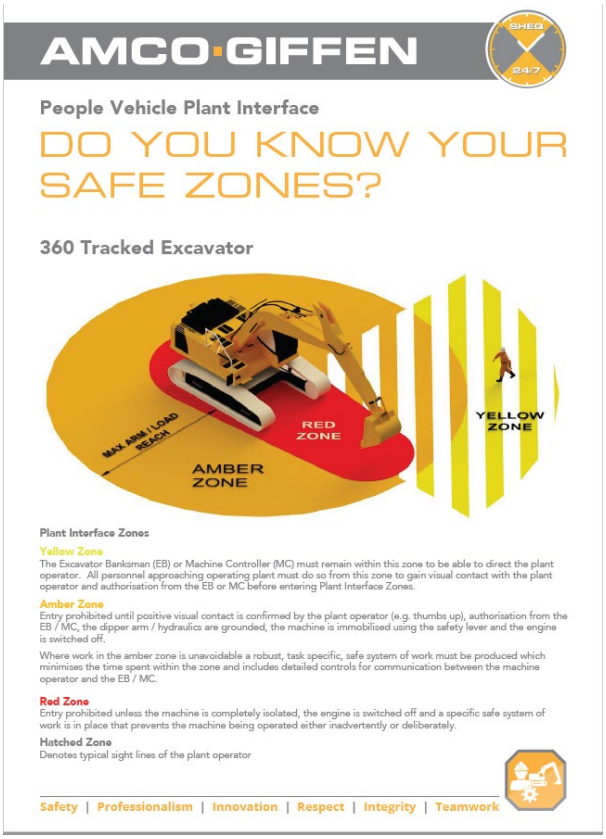
VERSION CONTROL

REVISION NUMBER	SUMMARY OF CHANGES
Draft	
01	
02	

SEGREGATION ASSESMENT

Segregated	Yes / ~~No~~
Responsible Manager	Name: Adam Ovenden Signature: <Redacted>
Appointed Site Controller	Name: N/A
Segregation	Permanent physical Barrier / ~~Fixed temporary physical barrier~~ / ~~Temporary portable barrier~~ / ~~Site Warden~~
Segregation Comments	*The railway boundary fence & walls will act as the permanent physical barrier to the operational railway.*

CONTENTS



AMCO·GIFFEN

People Vehicle Plant Interface

DO YOU KNOW YOUR SAFE ZONES?

360 Tracked Excavator

Plant Interface Zones

Yellow Zone
The Excavator Banksman (EB) or Machine Controller (MC) must remain within this zone to be able to direct the plant operator. All personnel approaching operating plant must do so from this zone to gain visual contact with the plant operator and authorisation from the EB or MC before entering Plant Interface Zones.

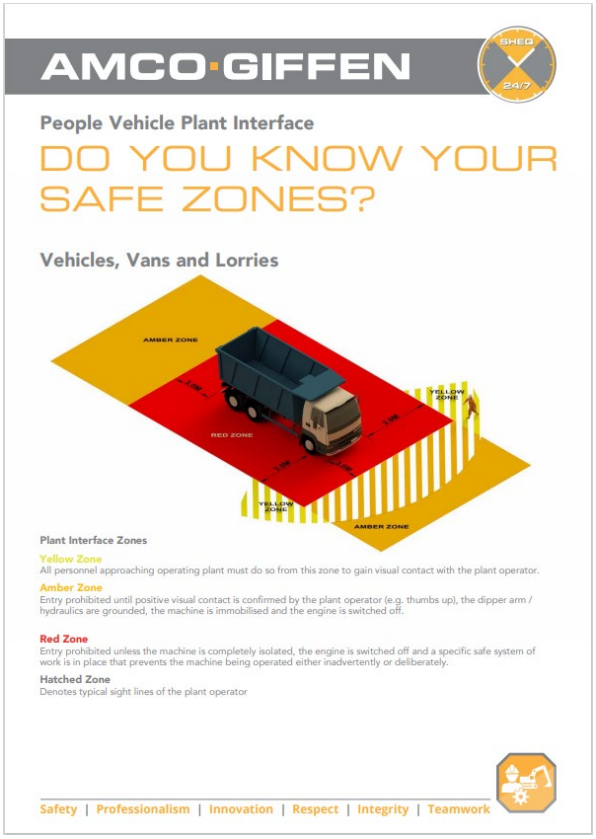
Amber Zone
Entry prohibited until positive visual contact is confirmed by the plant operator (e.g. thumbs up), authorisation from the EB / MC, the dipper arm / hydraulics are grounded, the machine is immobilised using the safety lever and the engine is switched off.

Where work in the amber zone is unavoidable a robust, task specific, safe system of work must be produced which minimises the time spent within the zone and includes detailed controls for communication between the machine operator and the EB / MC.

Red Zone
Entry prohibited unless the machine is completely isolated, the engine is switched off and a specific safe system of work is in place that prevents the machine being operated either inadvertently or deliberately.

Hatched Zone
Denotes typical sight lines of the plant operator

Safety | Professionalism | Innovation | Respect | Integrity | Teamwork



AMCO·GIFFEN

People Vehicle Plant Interface

DO YOU KNOW YOUR SAFE ZONES?

Vehicles, Vans and Lorries

Plant Interface Zones

Yellow Zone
All personnel approaching operating plant must do so from this zone to gain visual contact with the plant operator.

Amber Zone
Entry prohibited until positive visual contact is confirmed by the plant operator (e.g. thumbs up), the dipper arm / hydraulics are grounded, the machine is immobilised and the engine is switched off.

Red Zone
Entry prohibited unless the machine is completely isolated, the engine is switched off and a specific safe system of work is in place that prevents the machine being operated either inadvertently or deliberately.

Hatched Zone
Denotes typical sight lines of the plant operator

Safety | Professionalism | Innovation | Respect | Integrity | Teamwork

1 Introduction

1.1 Brief outline of work methodology

Work Details / Remit –

Remit 1 –

Wave return units across 4 discrete locations have been reported to be displaced (failure mechanism - sliding) along the sea defence. Investigations prev carried out show no grout around the dowels. As built drawings suggest 20mm steel dowels have been used to anchor these units into the top of the defence (800mm down) and grouted in place. Lift, grout re-bed as necessary. Methodology for lift and shift of units to be passed to Works Delivery for review.

Remit 2 –

1. Undertake pointing works using suitable marine grade mortar to access stairs at Section 2 29m 593yds (2022 DE Ph 23) - Approx 5m^2

2. Fill washed out area in section 2 29m 818yds (2022 DE Ph 31) - Allow for 2m^3 (confirm volume on site and discuss with asset about most appropriate repair methodology).

3. Undertake Pointing repairs to Section 2 29m 910yds (2022 DE Ph 32) - Approx 3m^2

Remit 3 –

Replace missing tidal flaps at location throughout the wall face at 165m, 402m, 598m

Authorising works commencement

Site operatives will sign in to attendance register.

The site supervisor will carry out a site specific briefing to the workforce prior commencing works including:

- Work scope
- Whiteboard brief
- Location of emergency equipment
- NWR Site Hazard Map
- Known Hazards
- Welfare provisions & Locations
- **Check Competencies**

Site supervisor will confirm competencies, certification of plant and inspection of tools/plant prior commencement. The AMCO site supervisor must be on site at all times when works are taking place.

The site supervisor is to undertake a hazard review on site prior to works commencing to ensure that the WPP and SWP are reflective of the conditions and hazards at site. This is to include walking routes to/from the site and at place of works. This hazard assessment is to be formally recorded on POWRA. The supervisor will communicate this to you and how any further control measures required will be implemented and maintained and this will be recorded on POWRA.

Access to the worksite will be made at the structure Saltcoats KA21 5JF.

** All works as stated below, will be carried out at Low Tide**

Remit 1 –

Site Set Up –

Segregated Working:

Permanent Physical Barrier will be the form of segregation used for these works.

The boundary Fence/wall & Hand Rails will act as the permanent barrier to the operational railway in this instance.

Supervisor will be brief the limitations of the segregation.

If the segregation cannot be maintained then works will then cease with immediate effect and reported to the office.

ALO Working;

Approved ALO plan to be briefed to the operator before use of the excavator commences.

Site Supervisor to establish the ALO plan, test and confirm fit for use.

If the ALO plan cannot be maintained then works will stop and the ALO will be re-planned by the Responsible Manager.

Use of an Operated Plant (Excavator)

Site Supervisor to check machine and operator certificates and competencies prior to accessing site

Plant operators access permit and plant checklist to be completed on arrival to site.

Exclusion zone to be established around Excavator and maintained while working on site

People, Plant Interface – Amber Zone

Complete segregation of people and plant

People to be restricted to the plant safe zone by visual means or demarcation that denotes the zone

A robust Safe System of Work required

Increased supervision and measures to prevent unauthorised access

Lifting Operations – Moving Materials to Site:

Appointed person to complete/authorise lift plan for lifting operations.

Site Supervisor is to be in possession of Approved lift plan prior to any lifting operations.

Slinger/Signaller to assess condition of Plant and material, determine correct units as detailed within lift plan and confirmed fit for use prior to permitting lifting operations to go ahead.

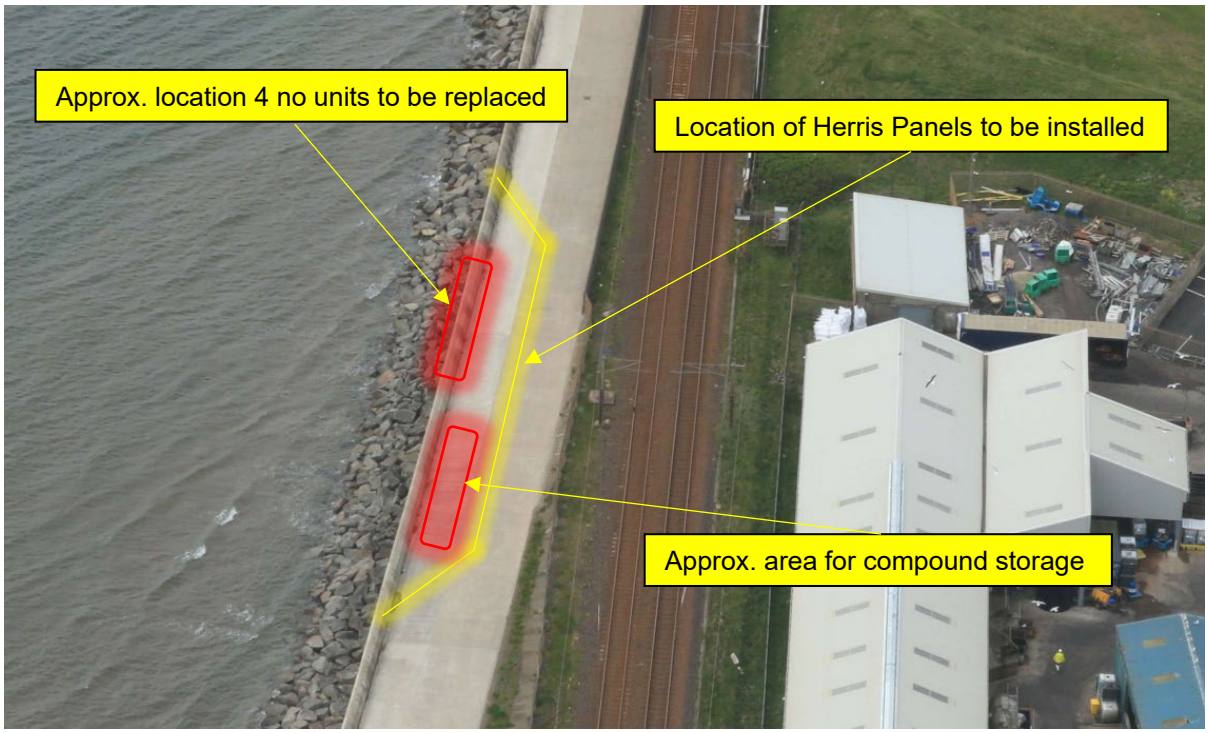
Site Supervisor to establish exclusion zone around lifting operations with banksman in place to control vehicle movements.

All lifting operations to be controlled by slinger/signaller.

On arrival to site, the Site Supervisor will brief the contents of the WPP to the workgroup, this will including access and the segregated areas and how these are defined. The group will then sign to accept.

At the location for the replacement wave returns, the area will have herris panels erected to create a safe working area. Once erected, a form E will be completed and signed by the TWS.

Hold Point – there must be suffice room for the general public to be able to safely pass one the herris panels have been erected.



Within the segregated area, a compound will be set up to store materials and plant as works proceed.

Once the machine has arrived at the access point, the Site Supervisor, Machine Operator and Machine Controller will set up the ALO plan for taking the machine to site. This will be tested.

Once tested and deemed fit for purpose the machine will be tracked to site along the promenade.

Hold Point – The ALO plan must be briefed and then tested prior to any works taking place. Only when the ALO plan is deemed fit for purpose and all mitigations are in place will the works commence. If the ALO plan cannot be safely carried out then works will cease with immediate effect and the ALO plan reviewed and re-planned.

Hold Point – The machine must be under the instruction of a machine at all times when travelling

On arrival of the excavator into the work area, the Site Supervisor and Machine Operator will liaise and create a suitable exclusion zone consisting of cones and barrier tape at each unit. On agreeing the exclusion zone, the remaining work group will be placed into a position of safety away from the machine. Once created this will be tested for suitability. Once tested and deemed fit for purpose, this will then be briefed to the workgroup.

Hold Point – If the exclusion cannot be maintained, then works will cease with immediate effect and the exclusion zone re-assessed. Only when the exclusion has been re-assessed as is deemed fit for purpose, works can re-commence.

Once the delivery vehicle has arrived on site it will be marshalled to the works area.

Prior to unloading, the machine controller will check the lift plan and ensure that the plan matches the materials to be lifted. Once this has been confirmed and a permit to lift has been completed by the Site Supervisor, the unloading of the materials shall commence.

The materials will be unloaded and stored within the allocated storage area, ensuring the materials are not stored safely. The delivery vehicle will then exit the site.

Site Supervisor is to ensure the site is secure prior to leaving site.

Main Works –

Segregated Working:

Permanent Physical Barrier will be the form of segregation used for these works.

The boundary Fence/wall & Hand Rails will act as the permanent barrier to the operational railway in this instance.

Supervisor will be brief the limitations of the segregation.

If the segregation cannot be maintained then works will then cease with immediate effect and reported to the office.

Working In a Watercourse:

Site Supervisor to issue Permit to Work in Water. When there is a requirement to enter the water course then the following will apply,

Water samples will be measured against a baseline during the works, gathered upstream of the work area. Where samples fail, pollution mitigation measures are to be reassessed and works stopped until suitable pollution mitigation measure can be installed and confirmed that they are working effectively'.

The Site Supervisor will monitor the water levels throughout the works. If the water levels rise significantly the works will be stopped and the water level allowed to recede, before re-entering the watercourse.

All persons working within the water course will wear wellingtons or chest waders as is appropriate. The wellingtons/chest waders will be cleaned before entry to prevent contamination before works commence. **NOTE: Follow Check, Clean, Dry procedure on access/egress to the watercourse.**

ALO Working;

Approved ALO plan to be briefed to the operator before use of the excavator commences.

Site Supervisor to establish the ALO plan, test and confirm fit for use.

If the ALO plan cannot be maintained then works will stop and the ALO will be re-planned by the Responsible Manager.

Use of an Operated Plant (Excavator)

Site Supervisor to check machine and operator certificates and competencies prior to accessing site

Plant operators access permit and plant checklist to be completed on arrival to site.

Exclusion zone to be established around Excavator and maintained while working on site

People, Plant Interface – Amber Zone

Complete segregation of people and plant

People to be restricted to the plant safe zone by visual means or demarcation that denotes the zone

A robust Safe System of Work required

Increased supervision and measures to prevent unauthorised access

Lifting Operations – Placing Units:

Appointed person to complete/authorise lift plan for lifting operations.

Site Supervisor is to be in possession of Approved lift plan prior to any lifting operations.

Slinger/Signaller to assess condition of Plant and material, determine correct units as detailed within lift plan and confirmed fit for use prior to permitting lifting operations to go ahead.

Site Supervisor to establish exclusion zone around lifting operations with banksman in place to control vehicle movements.

All lifting operations to be controlled by slinger/signaller.

Working at Height – Rope Restraint:

IRATA Level 3 trained operative to establish secure point to undertake works at height using rope access system.

Operatives to don harnesses and relevant work at height safety equipment.

Equipment certification to be checked and condition of equipment prior to use.

Site Supervisor is to issue Permit to Work at Height for rope access works.

Site Supervisor to establish exclusion zone around work area to prevent operatives being struck by falling debris.

Visqueen sheet to be laid below work area to collect any fallen debris.

Prior to the removal of the units, access will be made to the section on the shore and mitigation placed in front the section of the failed units. This will consist of a silt boom or similar and this will be to catch any falling debris as works proceed. Once this has been completed, the Site Supervisor will complete the permit to work in water.

Hold Point – This will need to be removed at every high tide. This will be placed below the work area again once the tide is receding.

Once the above has been actioned works will commence. The four displaced units will be loosened using the machine on site. This will be carried out in a rocking motion to break the unit from the bars they were originally inserted on. The units are loose, they will be dragged away from the edge of the area.

The above will be repeated until all four units have been removed from the works area.

An IRATA level 3 will utilise the site vehicle as an anchor point and set up a rope restraint system. Once this has been completed and deemed for purpose, the Site Supervisor will complete the permit to work at height.

Utilising the rope restraint system, operatives will then remove all remains of grout from the edge. The remaining anchors will be cut and removed.

A core rig will then be set up over the existing anchor points. The anchors will then be cored and the anchors removed. Once removed the holes will be cleared of all debris.

New anchors will then be inserted and resin inserted to fix into place, ensuring the anchors are correctly spaced and are level.

Once the anchors have set, the machine controller will check the lift plan and ensure that the plan matches the materials to be lifted. Once this has been confirmed and a permit to lift has been completed by the Site Supervisor, installation of the new units will commence.

Using the lifting points on the new units, the new wave return units will then be lifted into place over the anchors. As required, packers will be used to level the units. This process will be repeated until all units are in place.

Once the above has been completed, resin will then be inserted into the pre-cast holes (2 no per unit) to secure the unit to the anchors.

On completion, the lifting will be cut and removed from the units. The anchor holes and lifting points will then be grouted up and flush finished with the surrounding concrete.

A collection vehicle will then be brought to site in the same fashion as stated within the site set up section. Once the collection vehicle is on site an exclusion zone will be set up. The lift plan will then be checked. Once all of the above has been actioned the old units will then be lifted and removed from site.

Once this has been completed, the site will be cleared and moved to the next works location.

Remit 2 -

Segregated Working:

Permanent Physical Barrier will be the form of segregation used for these works.

The boundary Fence/wall & Hand Rails will act as the permanent barrier to the operational railway in this instance.

Supervisor will be brief the limitations of the segregation.

If the segregation cannot be maintained then works will then cease with immediate effect and reported to the office.

Working In a Watercourse:

Site Supervisor to issue Permit to Work in Water. When there is a requirement to enter the water course then the following will apply,

Water samples will be measured against a baseline during the works, gathered upstream of the work area. Where samples fail, pollution mitigation measures are to be reassessed and works stopped until suitable pollution mitigation measure can be installed and confirmed that they are working effectively'.

The Site Supervisor will monitor the water levels throughout the works. If the water levels rise significantly the works will be stopped and the water level allowed to recede, before re-entering the watercourse.

All persons working within the water course will wear wellingtons or chest waders as is appropriate. The wellingtons/chest waders will be cleaned before entry to prevent contamination before works commence. **NOTE: Follow Check, Clean, Dry procedure on access/egress to the watercourse.**

Working at Height – Rope Access:

IRATA Level 3 trained operative to establish secure point to undertake works at height using rope access system.

Operatives to don harnesses and relevant work at height safety equipment.

Equipment certification to be checked and condition of equipment prior to use.

Site Supervisor is to issue Permit to Work at Height for rope access works.

Site Supervisor to establish exclusion zone around work area to prevent operatives being struck by falling debris.

Visqueen sheet to be laid below work area to collect any fallen debris.

All herris panels from the previous site will be moved and re-erected at the 29m 818yds where the concrete repair is situated.

Once the compound area has been set up, the area will then have all the relevant materials stored within.

Access will be made to the repair area via the access stairs at the HM end of the structure. Once at the works area, mitigations will be laid to catch any arising's from the works. Once this has been completed, the Site Supervisor will complete the permit to work in water.

Hold Point – The protection will be required to be lifted and re-laid as and when the tide comes in. The protection cannot be left in place when the tide is in.

An IRATA level 3 will utilise the site vehicle as an anchor point and set up a rope access system. Once this has been completed and deemed for purpose, the Site Supervisor will complete the permit to work at height.

All materials will be lowered down to site using the rope access equipment.

The deep scoured area, a marine ply shutter will be constructed and fixed to the sea defence wall. Once this has been carried out and all joints and butted areas are fully sealed, concrete works will then commence.

Hold Point – A breather pipe and room for pokers must be left prior to starting the concreting works.

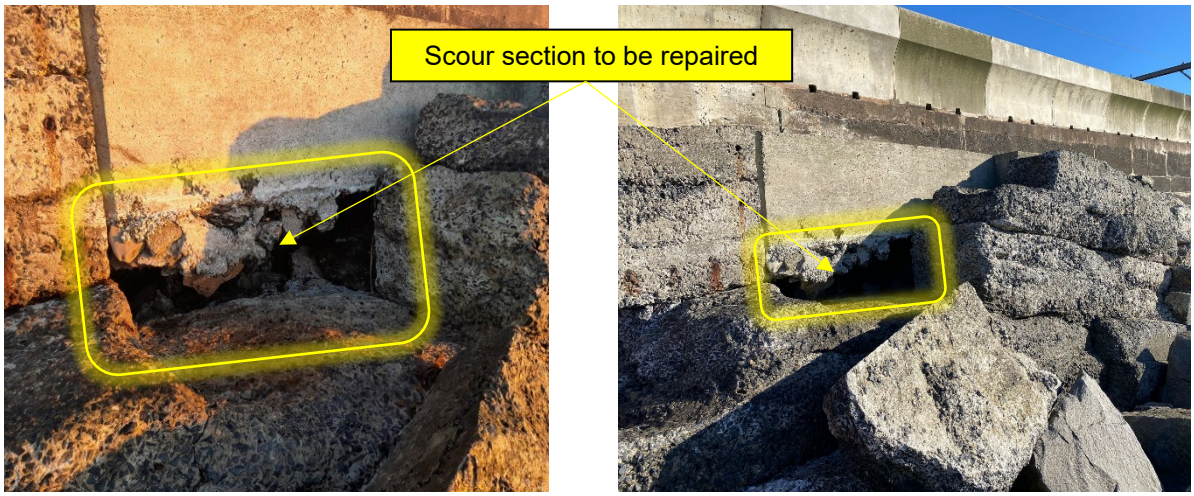
Additional protection will be laid in front works. Bagging will then be set up from the shutter to the promenade which will be connected to the concrete jaeger. Once the system has been set up, concrete will then be poured into the scoured area.

Hold Point – The concrete poor will be monitored at all times, any movement or leaks from the shutter and the works will cease with immediate effect.

While the concrete works are commencing, pokers will be inserted. The will remain in place until the pour has been completed.

Once the concrete pour has been completed the entire area will be cleared of materials and protection. The concrete will be checked at regular intervals and deemed that the concrete has cured enough, the shutter will be struck and removed from site.

As required, the concrete will have any imperfections or holes filled and floated.



All excess materials and plant will then be cleared from the works area.

The protection will then be removed and any arising's from the works cleared from the site.

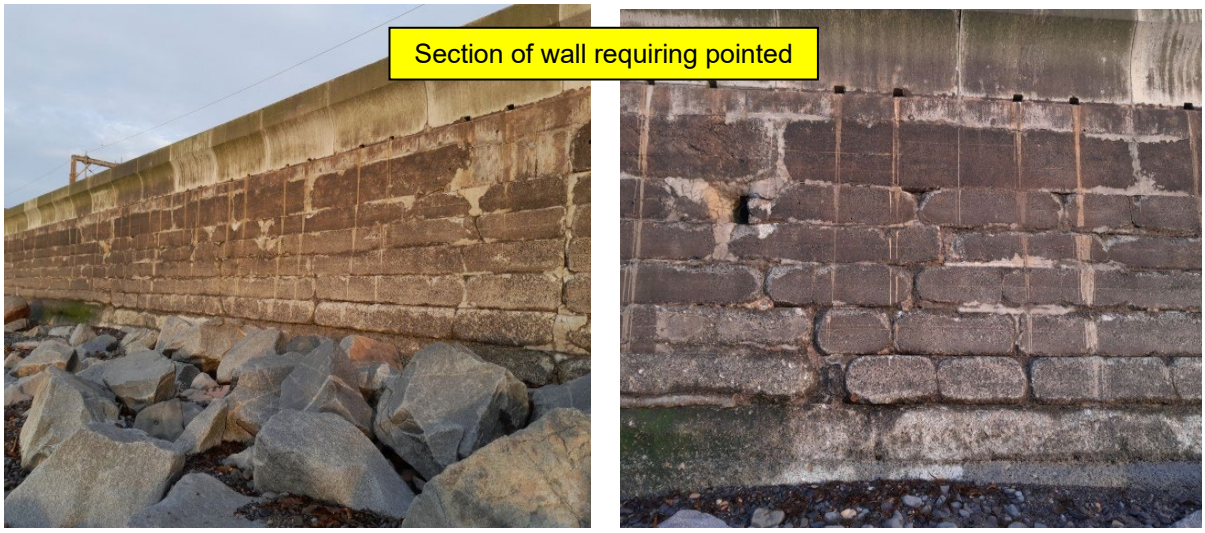
The work group will then move to the second area of works just north of the site at the 29m 910yds and re-establish the compound.

An IRATA level 3 will utilise the site vehicle as an anchor point and set up a rope access system. Once this has been completed and deemed for purpose, the Site Supervisor will complete the permit to work at height.

Site Supervisor to allocate a batching area and lay down teram to collect arising's.

Protection will then be laid in front of the areas which require pointing.

Utilising rope access equipment, sections of the wall displaying open joints will then be pointed. The wall will be pointed with a marine grade mortar. This will be flush pointed and brush finished.



On completion of the pointing, all protection will be lifted from the works area.

The rope access equipment will then be dismantled and moved to the last repair location.

The site will then move to the stair section at 29m 593yds and re-establish the site compound.

An IRATA level 3 will utilise the site vehicle as an anchor point and set up a rope access system. Once this has been completed and deemed for purpose, the Site Supervisor will complete the permit to work at height.

The site supervisor will then allocate a batching area and lay down teram to collect arising's.

Protection will be laid at the work locations prior to work commencing.

As required on the stair access section, the deep open joints will then pointed using a marine grade mortar. This will be flush pointed with the surrounding masonry and then brush finished.

Utilising rope access equipment, sections of the wall displaying open joints will then be pointed. The wall will be pointed with a marine grade mortar. This will be flush pointed and brush finished.

On completion of the pointing, all protection will be lifted from the works area.

The compound will then have all the plant and materials removed. This will then be dismantled and moved to start the 3rd phase of works.

Remit 3 -

Segregated Working:

Permanent Physical Barrier will be the form of segregation used for these works.

The boundary Fence/wall & Hand Rails will act as the permanent barrier to the operational railway in this instance.

Supervisor will be brief the limitations of the segregation.

If the segregation cannot be maintained then works will then cease with immediate effect and reported to the office.

Working In a Watercourse:

Site Supervisor to issue Permit to Work in Water. When there is a requirement to enter the water course then the following will apply,

Water samples will be measured against a baseline during the works, gathered upstream of the work area. Where samples fail, pollution mitigation measures are to be reassessed and works stopped until suitable pollution mitigation measure can be installed and confirmed that they are working effectively'.

The Site Supervisor will monitor the water levels throughout the works. If the water levels rise significantly the works will be stopped and the water level allowed to recede, before re-entering the watercourse.

All persons working within the water course will wear wellingtons or chest waders as is appropriate. The wellingtons/chest waders will be cleaned before entry to prevent contamination before works commence. **NOTE: Follow Check, Clean, Dry procedure on access/egress to the watercourse.**

Working at Height – Rope Access:

IRATA Level 3 trained operative to establish secure point to undertake works at height using rope access system.

Operatives to don harnesses and relevant work at height safety equipment.

Equipment certification to be checked and condition of equipment prior to use.

Site Supervisor is to issue Permit to Work at Height for rope access works.

Site Supervisor to establish exclusion zone around work area to prevent operatives being struck by falling debris.

Visqueen sheet to be laid below work area to collect any fallen debris.

At 2 of the locations which require new tidal flaps installed will be carried out in the following methodology;-

A site compound will be establish at the works area. One establish materials and site vehicles will be moved into place.

An IRATA level 3 will utilise the site vehicle as an anchor point and set up a rope access system. Once this has been completed and deemed for purpose, the Site Supervisor will complete the permit to work at height.

As required, protection will be laid to catch any arising's as works proceed. Once this has been completed, the Site Supervisor will complete the permit to work in water.

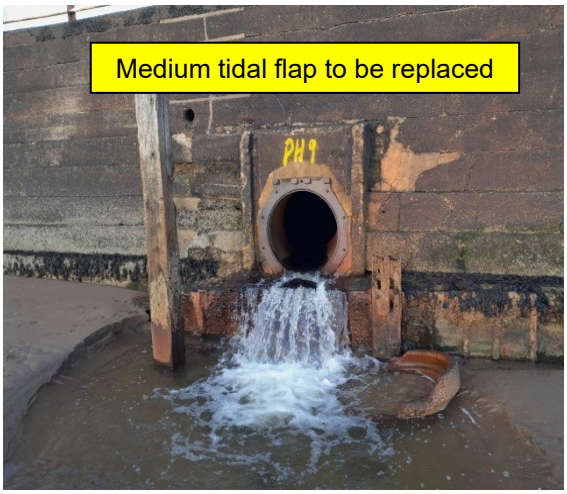
Operatives will remove the existing tidal flap frame from the wall. Once this has been completed any protruding fixings will be removed.

A template of the bolt pattern for the tidal flap will then be offered up to the structure. Once in the correct place all the fixing points will be marked.

These will then be drilled in preparation for the installation of the new tidal flap.

The tidal flap will then be lowered down to the position in an open formation, this will be placed up to the drilled holes. Once lined up, fixings will then be inserted and tightened to secure.

The flap will then be closed and the area cleared of the protection and any excess materials.

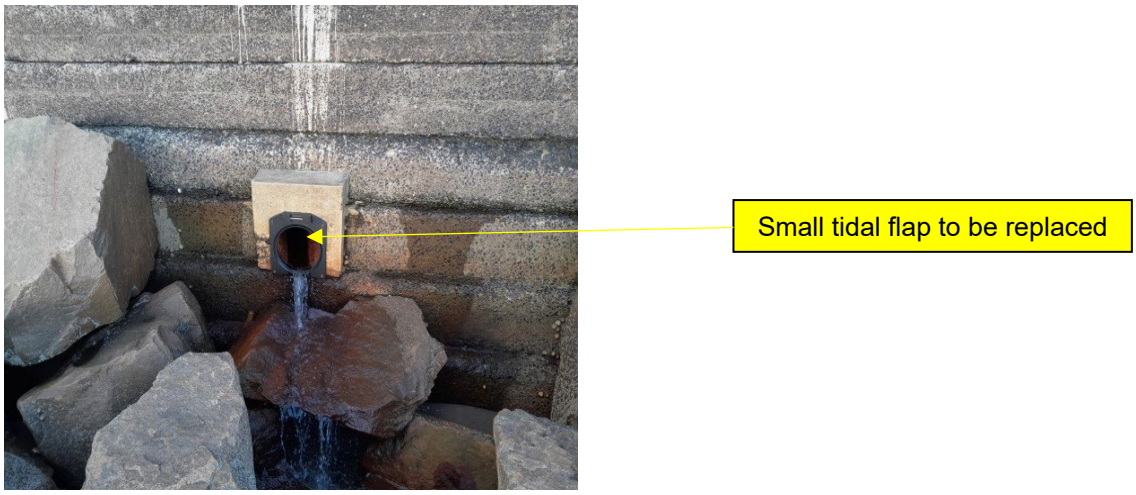


For the 3rd smaller flap, entrance will be made to flap via the access stairs.

Protection will be laid to catch any arising's as works proceed.

As required, the existing frame will be removed. Once removed, any protruding fixings will be removed. The tidal flap will then be lined up against the pipe and the fixing points marked and drilled.

The new tidal flap will then be placed into position and fixings inserted and then tightened.



On completion, the area will be cleared of all materials, plant. The protection will then be lifted and removed form site.

Hold Point – All works must be carried out in line with the Ecologist recommendations.

Hold Point – Monitoring for silt and pH is required before and at all times works are taking place.

Hold Point – Sediment and pH monitoring will be carried out before and during the works with a stop work policy in place should there be any change until suitable mitigation has been applied and is effective where possible.

Site Supervisor to record extent of works undertaken and take pictures throughout works.

Site Supervisor to ensure the site is clear on completion of each shift. PIC/COSS to ensure the track is clear and for traffic prior to handing back the C-Form and worksite.

1.1.2 The following tasks support this Work Package Plan:

Reference & Prepared by:	Task Briefing Sheet Title	Activity Start Date
TBS1 200.433. Saltcoats Rev 1 A. Ovenden	**Sea Defence Repairs**	12/08/23

1.2 AMCO's delivery organisation

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

Role	Name	Contact Number
Regional Director	J. Double	<Redacted>
Operations Director	A. Kane	<Redacted>
Contract Engineering Manager	D. McGahon	<Redacted>
Project Manager (CRE)	G. Armstrong	<Redacted>
On Call Manager wk20	T. Kennedy	<Redacted>

On Call Manager wk21	K. Docherty Jnr	<Redacted>
Site Supervisor	S. Todd	<Redacted>
H&S Advisor	T. McStay	<Redacted>
Sustainability & Assurance Advisor	M. McDermott	<Redacted>
Procurement	*	<Redacted>

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***
KLR	IRATA Level 3	TBC	TBC
ADT	Hi Ab	TBC	TBC

1.3 Resources

Relevant Design Documents

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

Document Ref	Document Title	Rev
	N/A	

People

Number of People and their competence associated with this WPP		Task
Competence	**No of People**	**TBS Ref**
AMCO Supervisor	1	TBS1
IRATA Operatives	3	TBS1
General Operatives	3	TBS1
Bricklayer	1	TBS1
Machine Operator	1	TBS1
Machine Controller	1	TBS1

Plant, Equipment and Tools

Quantity of Plant, Equipment and Tools associated with this WPP		Task
Plant item	**No**	**TBS Ref**
Welfare Van	1	TBS1
Site vehicles	1	TBS1
Task Lighting	4	TBS1
Herris Panels	20	TBS1
Rope Access Equipment	Various	TBS1
Hi Ab	1	TBS1
Generators	2	TBS1
Cordless Drills	2	TBS1
Hilti Hit Gun	1	TBS1
Paddle Mixer	1	TBS1
Concrete Jaeger	1	TBS1

Materials

Quantity of Materials		Task
Material	**Quantity**	**TBS Ref**
Fibre reinforced concrete	3m³	TBS1
Marine Ply (sheets)	2	TBS1
4 x 2 (4.8m Lengths)	6	TBS1
Shutter Fixings 90mm Screws	1kg	TBS1
Shutter Fixings 65mm Screws	1kg	TBS1
1500mm Tidal Flap	1	TBS1

1200mm Tidal Flap	1	TBS1
900mm Tidal Flap	1	TBS1
Shutter Fixings (Stainless Steel)	60	TBS1
Aquatic Mortar (25kg Bags)	10	TBS1
Wave Return	4	TBS1
Anchor Dowels (Stainless Steel) 1.8m each	8	TBS1
Resin		TBS1

2 Working Together

2.1 At site communication

2.1.1 The Site Supervisor will brief the contents of the WPP and relevant permits before works commence along with the NWR Hazard Map.
Other information to be discussed are as follows:

- Daily Whiteboard
- Any Site specific requirements/details.
- Access/Egress arrangements to the works location.
- POWRA to be carried out before each task.

The Use of mobile phones must only be from a position of safety.
Any Minor Changes to the WPP must be agreed with the On Call Manager using the POWRA booklet refer to 1.2.1 in the WPP above for contact details.
Any significant changes will require an amendment to the WPP and signed off by the CRE/CEM refer to 1.2.1 in the WPP above for contact details.
Out of Hours any incidents or issues must be discussed with the On Call Manager refer to 1.2.1 in the WPP above for contact details.

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
A Davidson	NR WDM West	<Redacted>	✓

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 300 9923. Other - http://www.hse.gov.uk/riddor/report.htm	✓
ORR	020 7282 2000	✓
SEPA	0800 807060	✓
Flood line	0345 9881188	✓
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

3 Hazard Management

3.1 Work involving particular risks

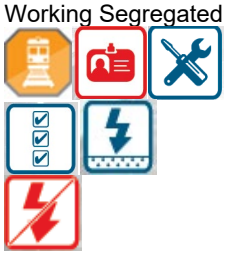
3.1.1 The work in this package **does involve** any of the particular risk(s), as detailed in Regulation 12 (2), (Schedule 3) of the CDM Regulations 2015.

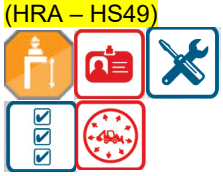
Risk	When and where will the risk be present?	Permits Required	How will this risk be controlled?
Work near high voltage power lines 	When working near the rail infrastructure	N/A	• OHLE will be live at all times unless a C- Form is in place • All works to be carried ONLY when C-Form is in place • Brief will be given to highlight the isolation limits and any adjacent live sections
Work which puts workers at risk of burial under earthfalls, or falling from a height. **HRA** 	Concrete works, pointing, wave return installation & tidal flap installation – Rope Access	Permit to Works at Height	• Permit to work at height to be issued. • Competent IRATA Contractor to provide Specific RAMS prior to works commencement • Anchor type and location to be identified as part of site briefings from level 3 operative • All works are to be conducted under the IRATA ICOPs and HASAWA working at height regulations • All Rope access equipment to arrive on site in good order inspected to LOLER regulations • Entire system to be inspected and signed off by a competent IRATA L3 tech before use • All works from ropes are to be carried out under the direct supervision of a trained and competent IRATA L3 Tech • Wind readings are to be taken before and during the works from ropes and postponed when directed by the L3 tech • Rope access system and RAMS to be applicable to the task and location of works • Prior to use of the Rope access system all personnel will be briefed on the most

			appropriate rescue for the type of work and type of system being used

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**

Risk	When and where will the risk be present?	Permits Required	How will this risk be controlled?
OHLE (live) 	Works in close proximity to Infrastructure		• OHLE to be assumed live at all times. • All plant and equipment to be kept 2.75m or 9Ft from the OHLE at all times. • Care to be taken on access to works and when working around OHLE infrastructure.
Working Segregated 	At all times	N/A	• Permanent Physical Barrier will be the form of segregation used for these works. • The boundary Fence & Hand Rails will act as the permanent barrier to the operational railway in this instance. • All staff must be briefed on the segregation being used • If the segregation cannot be maintained, then works will cease with immediate effect.
Operated Plant 	Use of Excavator	Plant operators access permit. Plant checklist. Training Competency	• Site Supervisor to confirm plant operator's competency. • Plant operators access permit and plant checklist to be completed prior to undertaking works. • Exclusion zone to be established around all plant operations. • All machine operations/movements will be carried out using dett comms.
People, Plant Interface (HRA – HS50/58) 	Working with Excavtor		• Orange Zone hierarchy will be use for the works • Site Supervisor will introduce a safe working area by means of a visual demarcation • This safe system will be briefed to the group • The safe working area is to be adhered to at all times • If any personnel move into the safe working then works will cease immediately and the plan reviewed

			• Traffic Cones and barrier will be used to demarcate the exclusion
ALO Plan 	Operating Plant near operational railway	Approved ALO Plan	• Approved ALO plan to be briefed to the operator and banksman before works commence. • PIC/COSS to confirm ALO plan is suitable to maintain safe working distance from running line. • ALO plan to be followed for all operated Plant, out with Possession and full Isolation being granted. • ALO plan to ensure plant maintains safe working distances from nearest running line and OHLE at all times throughout works. • The ALO plan must be briefed and practiced with all mitigations in place prior to any work taking place
Lifting Operations 	Lifting Pipes	Approved Lift plan Training Competency	• Appointed person to complete/authorise lift plan. • Approved lift plan to be in place for all lifting operations. • Site Supervisor to ensure plant, materials and equipment within lift plan match equipment on site. • Plant, material and equipment to be checked prior to use. • Exclusion zone to be established around lifting operations. • All plant movements to be controlled by banksman and undertaken within established exclusion zone.
Working at Height (Rope Access) (HRA – HS49) 	At all times when working at height	Permit to work at height Training competencies	• The Site Supervisor will produce a Permit to Work at Height. • Work at height permit to be granted before any works at height commence. • IRATA Level 3 trained operative to establish secure point to undertake works at height. A site vehicle will be utilised for these tasks. • All works at height to be undertaken by IRATA trained rope access operatives. • Equipment certification to be with equipment and checked prior to use. • All plant is to be tethered to rope access personnel • Condition of equipment to be assessed prior to use.

			• A rope restraint system will also be utilised for the works as an restraint system. This must be set up by the level 3.
Working in a watercourse 	At all times when working in a watercourse	Permit to work within a watercourse	• Permit to work in watercourse to be issued before works commence. • This will be for works carried out in the water course which will have a dry working area in place. • All persons working within the water course will wear wellingtons or chest waders as is appropriate. The wellingtons will be cleaned before entry to prevent contamination before works commence. • All generators and pumps will be set up 10m clear of watercourse. • Refuelling operations to be carried out more than 10m from the watercourse. • The work areas will be have debris catchers below the work areas prior to works starting to catch any falling debris as works proceed • The water quality will be monitored at regular intervals during the works and checked against the base line.
Water Levels/Pollution 	Access through the watercourse as required		• Check, Clean, Dry procedure to be followed when access through watercourse. • Entry and re-entry through the watercourse to be kept to a minimum. • Site supervisor to check water levels prior to permitting access. Where levels are too high alternative access route to be considered under POWRA. • Silt levels to be monitored throughout works, if silt levels rise, works will cease until levels drop and silt mitigation is put in place.
Night working - Slips Trips and falls	At All times on Site	N/A	• Prior to works commencing, Site Supervisor will carry out a trip hazard review of the worksite including access and walking routes and brief to the workforce. • Care to be taken when walking on site. • Safe walking routes to be used at all times

			• Walking routes to be clearly lit. • Cap lamps to be used at all times when walking to and from the worksite. • Steel toe cap boots must be worn at all times. • Clear all waste and debris from site on regular basis. • Establish safe means of access prior to undertaking works.
COSHH Substances (HRA – HS39) 	When Re-fuelling	Sypol Material MSDS	• COSHH data on site for COSHH items • Task Specific PPE worn at all times when handing COSHH Items • Harmful substances to be used as per Manufacturers recommendations • COSHH items stored off site when not in use • Operatives to be equipped with task specific PPE at all times whilst using COSHH items
Operating Small Plant and tools 	When using small tools	N/A	• Operators must be trained and competent. • Impact goggles/face shield to be worn at all times. • Inspect plant and equipment before use and take damaged sections out of use and seek replacements. • Take damaged plant out of use • Ensure guards remain in place. • Plant & equipment to be sited on plant nappies • Use HAVS register to record time on equipment. Wearing of gloves and correct PPE for the task. Maintenance of tools. Sharp points. Rotation of workforce to reduce exposure times.

3.3 Lifesaving rules

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

Always		Never	
	✓ or X		✓ or X
	✓		✓
	✓		✓
	✓		✓

	✓		✓
	✓		X

3.4 High Risk Activities

3.4.1 The following table highlights the High Risk Activities applicable to this WPP

 Breaking Ground	 Change Management	 Confined Spaces	 Electrical & Stored Energy	 Fire & Hot Work
No	**Yes**	**No**	**Yes**	**No**
 Lifting Activities	 People & Plant	 Railway Operations	 Working at Height	 Work Related Road Risk
Yes	**Yes**	**No**	**Yes**	**No**
 Works In, Over or Near Water	 Works producing dust, noise & vibration	 Activities with Potential to Cause Pollution	 Works Affecting Protected or Invasive Species	
Yes	**Yes**	**Yes**	**No**	

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	• All tanks shall be bunded in accordance with the oil storage regulations. • 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	

	• 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	
Dust, Noise, Odour	• All Personnel to be equipped with Ear defenders when noisy machinery is being used • All Plant stood down when not in use • Use silenced plant where possible • Dust masks to be used where applicable	
Working in or near a watercourse	• Works undertaken above water level, access outside of watercourse. • Weather forecast to be monitored, work undertaken during low water levels at all times. • Dry working area to be put in place prior to any works proceeding • Correct PPE to be worn • Check, Clean, Dry procedure followed	Works will be require a Marine Licence

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)
General site waste	Depot skip	~~Yes~~ / No	Non Haz	D

5 Emergency Arrangements

5.1 Site emergency arrangements

Site Location: Saltcoats – LGS1 – KA21 5JF **Grid Reference: NS2539041217**		
Contact	**Name or Location**	**Tel. Number**
Ambulance, Fire	Various	999 (112 from Mobile)
BT Police	Control Centre	0800 405 040
Incident Controller	NWR	0141 335 2020
Gas	Nation Grid	0800 111 999
NR Sharps	NR	01904 525 894
Scottish water	Emergency	0845 600 8855
Nearest A & E Hospital	**Crosshouse**	**01563 521 133**
SEPA	Control Centre	0800 807 060 24/7/365
Flood line	National Flooding Helpline	0345 988 1188.

All H&S Accidents, Major Environmental Incidents, Damage to Client or Utility Infrastructure and Rail Possession Irregularities are to be verbally reported as soon as practicable, to line management.
Any Incident/Accident must be reported through the AMCO on-call as soon as site is safe and in a position to do so and or request your assistance to update NWR Control.

Person reporting to the AmcoGiffen 'On-Call Manger' to Check and Confirm the following:

•Who you are (Joe bloggs),
•Your location (Example East Junction or near to SH20 (sierra, hotel, two, zero) signal
•Identify what has happened i.e. the accident/incident/significant close call
•What action needs to be taken i.e. Emergency Assistance, Emergency Line Block etc.
•Confirm whether this has been reported to NWR Control (Decide who will report this)
Reporting to NWR must be within 2 hours of the event happening.
•Photographs to be taken of location

Rope Access Equipment Rescue Plan

All rope access activities will be carried out by KLR. The supervisor is to refer to the KLR risk assessment and method statement for all methods of rescue and all rope work that will be carried out on site.

KA24 5JF – LGS1 – Saltcoats – Grid Ref, NS2480941334

5.1.1 First aid arrangements

5.1.1.1 The first aid arrangements for this package of work are

First aiders	**Name**	**Qualifications**
	G. Armstrong	First Aid at Work
Likely injuries associated with this work package	Manual Handling Working on or near the line OHLE Works at height	
First aid equipment provision	**Equipment**	**Location**
	First Aid Kit	Welfare Van & On-Site

First Aid Kit to be checked prior to starting work

5.1.2 Evacuation arrangements

5.1.2.1 All site personnel will evacuate using the designated emergency exit route and make their way to the fire assembly point / muster point immediately after hearing the emergency alert. They will wait there until further notice.

Muster point will be at Saltcoats Station, Saltcoats KA21 5JU

In the event of a fire, the person who identifies the fire will alert the workforce and all site personnel will evacuate using the designated emergency exit route and make their way to the fire assembly point / muster point immediately after hearing the emergency alert, they will wait there until further notice.

5.1.3 Fire safety arrangements

5.1.3.1 Fire extinguishers to be stationed by Petrol/diesel plant. Powder will be on site.

5.1.4 Security arrangements

5.1.4.1 Ensure access gates are secured on access/egress.

5.1.5 Environmental Emergencies

5.1.5.1 **N/A**

5.1.6 Summoning emergency services

5.1.6.1 Emergency Services can be summoned by using the COSS/Site supervisors Mobile (Location to be agreed within Pre start Briefings on site) in the case of this work package plan the workforce will inform the emergency services of the following information relating to the location.

KA24 5JU – LGS1 29m 1595yds – Saltcoats – Grid Ref, NS2539041217

5.1.7 Railway emergency (trains and electrical)

5.1.7.1

	Site Supervisor to enter details prior to briefing	Tick on completion
ECO	0141 335 4087	✓
Signal box	**N/A**	
Protection Signals Ref.	**N/A**	

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.

5.1.8 Asbestos
5.1.8.1 N/A

5.1.9 Utilities
5.1.9.1 N/A

6 Work Package Arrangements

6.1 Site Layout
6.1.1 *Site Vehicles to be stored at the structure Saltcoats KA21 5JF.*

6.2 Access and Egress
6.2.1 *Access/Egress will be made at the structure Saltcoats KA21 5JF.*

Parking *– Site vehicles will be situated within the compound area created for each of the sections of work. Underfoot conditions are good and are made up of concrete.*

Access to Structure *– Access to the wall will be via the stair access and via rope access over the wave returns.*

Works Location *– The worksite consists of a sea defence wall and the base has large rock amour in place. Caution will be required when moving around this area. All hazards are to be highlighted prior to works starting.*

6.3 Welfare

6.3.1 Welfare facilities to be provided in the form of a Welfare Van. 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.

No. of Persons	No. of work periods (consecutive shifts, days or nights)								
	1	2	3	4	5	6	1 Week	2 Weeks	>2 Weeks
1	A	A	B	B	B	B	B	B	B
2	A	A	B	B	B	B	B	C	C
3	A	A	B	B	B	B	C	C	C
4	A	B	B	C	C	C	C	C	C
5	A	B	B	C	C	C	C	C	C
6	A	B	B	C	C	C	C	C	C
7	A	B	C	C	C	C	C	C	C
8	A	B	C	C	C	C	C	C	C

9	B	B	C	C	C	C	C	C	C
10	B	C	C	C	C	C	C	C	C
11+	C	C	C	C	C	C	C	C	C

KEY

Category A: Transient site. Arrange for sufficient and suitable local facilities to be used. These may be public or private facilities, e.g. NR stations/depots/buildings/signal boxes, garages and shops.

Category B: Transient site. Arrange for suitable and sufficient temporary welfare facilities, e.g. welfare vehicles.

Category C: Non-Transient site. Establish a site cabin with fixed welfare facilities, car parking, traffic management, site access control, etc.

Note 1 The overall travel time to any toilet provision shall be not more than 20 min from the point of work, but ideally within 10 min

Note 2 In certain circumstances local facilities, if suitable, permanently available and by agreement, may be preferable to temporary site welfare facilities.

Note 3 Due to COVID 19 the cleanliness of a Non–Transient site cannot be maintained, the workforce will have staggered breaks, with the welfare van being cleaned between each use. There is also a welfare pod located 5 minutes from site that is to be used as a last resort for welfare arrangements.

Welfare Provision Form

NOTE to be completed in accordance with NR/L3/INI/CP0036, Appendix A, Welfare assessment requirements. If compliance is not achievable, please state what will be provided with suitable justification

Contract:	SCOAM18		Contract Ref:	Various	
Location:	Saltcoats		Date:	09/03/2022	
Activity:	Sea Defence Repairs				
Duration:	14 Day Shift	Approx. Max No. of Personnel:	8		
Welfare Assessment Matrix: *(Please indicate what category applies to the worksite)*			A	B	C
				✓	

Transient or Non – Transient site: *(Please state)*	Transient
Local Facilities, Category A: *(Please state what will be used, including any restrictions)* N/A	
Welfare Vehicles, Category B: *(Please state what will be provided within the vehicles)* Place to eat (Microwaves for heating food), Hand wash facilities, Toilet, Hand Sanitiser,	

Non-Transient Work site Facilities, Category C**:**	
Facilities Details of Provision *(Please state what will be provided)*	**Facilities Details of Provision** *(Please state what will be provided)*
General Services	
Lighting	**N/A**
Heating	**N/A**
Water	**N/A**
Other:	**N/A**
Toilet Facilities	
No. of Male Toilets Required	**N/A**
No. of Urinals Required	**N/A**
No. of Female Toilets	**N/A**
Required	**N/A**
Other:	**N/A**
Washing Facilities	
No. of Sinks Required	**N/A**
Method of Drying Hands	**N/A**
Other:	**N/A**
Storage & Drying of Work Wear	
Clothes Storage	**N/A**
Drying Facilities	**N/A**
Other:	**N/A**
Rest Facilities	
Tables/Chairs	**N/A**

Heating Food	**N/A**
Heating Water	**N/A**
Drinking Water	**N/A**
Other:	**N/A**
Maintenance & Cleaning	
Effluent and Waste Disposal	**N/A**
Cleaning Details / Frequency	**N/A**
Other:	**N/A**
External Facilities	
External Lighting	**N/A**
Protected Accesses	**N/A**
Car Parking Arrangements	**N/A**
Other:	**N/A**

General comments on site welfare *(Include size, type, number of units, justification for any non-compliance)*

N/A

Are specialist contractors required? *(e.g. Asbestos, contaminated ground, lead)*	Yes	No
Will the specialist contractors provide their own welfare Yes No	Yes	No
		✓
Please state what specialist welfare facilities will be provided:		

Name:	Adam Ovenden	Position:	Supervisor	Date:	09/03/23

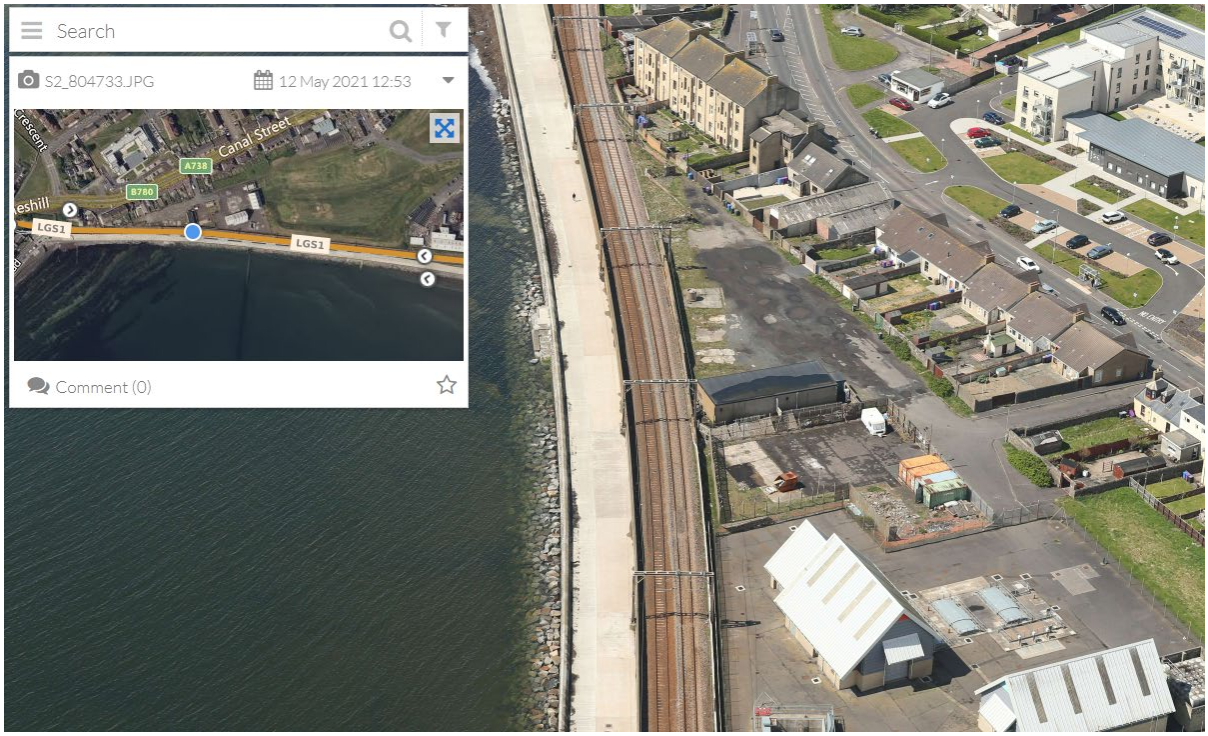
6.4 Rail Traffic Management

6.4.1 N/A, work will be carried out segregated

6.5 Road Traffic Management

6.5.1 N/A

Appendix 1 – Site Layout



Appendix 2 – Risk Assessment

See attached RA 200.433.Saltcoats Rev 1

Appendix 3 – Subcontractors RAMS

Please see attached KLR RAMS.