



Template based on NR/L2/OHS/0044/F02

Prepared by:

W Cairns

Date: 26/05/2023

(Print Name)

<Redacted>

(Signature)

Engineer (Central CAM)

(Job Title)

Approved by the Contractor's Engineering Manager (CEM) / Contractor's Responsible Engineer (CRE):

Date: 26/05/2023

Brian Thomson

(Print Name)

(Signature)

(Job Title)

CEM / CRE Discipline (as stated in the CPP)

This Work Package Plan does not require acceptance by Network Rail / Client

OR

Accepted on behalf of Network Rail / Client:

Date.....

(Print Name)

(Signature)

(Job Title)

(See clause 11 of NR/L2/OHS/0044 for the acceptance requirements)

Work Package Plan

MSC6496
Allan Water
Scour Repairs
SCM3
132/015
120m 0528yds
porridge.headers.resemble

Start Date: TBC

Finish Date: TBC

Work Package Plan Number:

Add WPP No: MSC6496

Controlled Copy Number

Add Unique No: 01

Construction [Phase Plan / Reference] Number

Add Unique No:

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B Thomson	CRE Civils – Site Agent	Amco – Giffen	
L McQuade	Document controller	Amco – Giffen	
C Christie	Depot Manager	Amco – Giffen	
	Site supervisor	Amco – Giffen	

VERSION CONTROL

REVISION NUMBER	SUMMARY OF CHANGES
Draft	
01	
02	
03	

SEGREGATION ASSESMENT

Segregated	YES
Responsible Manager	Name: C Christie Signature: <Redacted> Appointed site Controller (If Applicable)
COSS Certified Site Controller	Name: N/A Signature: N/A PTS No: N/A
Segregation	<ul style="list-style-type: none"> Permanent physical Barrier Fixed temporary physical barrier Temporary portable barrier Site Warden
Segregation Comments	Works are off track and the overbridge structure shall be deemed as the Fixed Permanent barrier in accordance with NR/L2/OHS/00130.

Work Package Plan – [SCOAM18 – MSC7928] – Issue#001



1 Introduction

1.1 Brief outline of work methodology

1.1.1 **Work Details / Remit - 22/23 Scour Repairs & Preventative Action - Site visit required at structure to view fresh scour. With recent UWE stating the following location currently effected by scour (but not limited). Below upstream outlet, US return of LM ABT, DS embankment (downstream), US return of gabions, rear of concrete apron. To include repair of missing revetment adjacent to outlet Note: Work item to be raised off the back of the site visit. Opex Policy Target X**

***** Additional text By traillg on 04/07/2022 14:51:53 - 22/23 Scour Repairs & Preventative Action - *UPDATED* Following JSV, tore gabion basket at corner of upstream end to repaired, any loss of gabion stones as a result of tore basket to be refilled. Localised areas of undercutting along gabion baskets in front of LM abutment to be packed with bagworks and secure with pins. Undercutting at rear of concrete apron at upstream and downstream end to be filled with bagworks and backfilled with stones. (Opex Policy Target X)**

TBS001 – Scour Repairs

Site operatives will be signed into the attendance register by the AmcoGiffen supervisor.

Note: AmcoGiffen Supervisor to carry out POWRA prior to works commencement each shift

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*
- *Network Rail Hazzard Map*
- *Known Hazards*
- *Welfare provisions & Locations*
- *Check Competencies*
- *COVID-19 (Latest Guidance)*

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

A trained and competent traffic management operative shall arrive at 2 Cornton Rd, Bridge of Allan, Stirling FK9 4DB and implement a temporary traffic lights system adjacent to Scottish Water building.

The workforce will then arrive and park within the traffic management system.

Note: The workforce is to utilise either beacons or hazard lights when entering the traffic management system to alert other road users.

Once at the worksite, the supervisor will then brief the workforce on the works to be completed and the hazards associated with the site of work as per this work package plan.

Once briefed, the workforce shall then unload all plant and equipment into wheelbarrows for the works.



The workforce shall then travel to works location down public walking route to the LM Abutment and the supervisor shall then demarcate a lay down area adjacent to the works location.

Once at works location, the Supervisor will then set-up footpath closure at either side of the LM Abutment at up and downstream elevations utilising red and white pedestrian barriers with men at work signs.

Note: The supervisor shall stop works for any member of the public looking to pass through the work site, supervisor shall escort as and when required.

Working Within a Watercourse:

Site Supervisor to issue Permit to Work in Water. Water samples will be measured against a baseline, gathered upstream of the work area. Where samples fail, pollution mitigation measures are to be considered and works stopped until pollution mitigation measure is installed and confirmed is working.

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.

The Dive Supervisor will brief the dive team and complete all the necessary equipment checks prior to works starting.

The Dive Supervisor shall then install a ladder access at the Gabion basket at LM Abutment into the watercourse.

The Dive Team will then be briefed on the rescue procedures for the works prior to entering the watercourse.

The Amco supervisor will then **issue a permit to work in water** and control measures installed as per this work package plan and the subcontractor RAMS.

The dive team shall then enter the water and locate areas where the gabion baskets are defected and showing loss of stone.

The gabion basket shall then be repaired by utilising tensioned wire and infilling the loss sections with gabion stone to build the basket back to its original form.

Undercutting to concrete apron

Where undercutting has been noted at the concrete apron up, downstream and at LM Abutments at LM walkway.



Areas of defective concrete shall then be removed and loaded into rubble sacks to be disposed of.

Scoured sections shall then be infilled with natcem soluform bag work by firstly placing the bags staggering in layers, u-pining them into position to the required height (if required).

The workforce will drive 12mm threaded bar through the bagwork and then shall be fixed with nuts and washers to secure in place.

The threaded bar shall then be cropped down to just above locking nut utilising a 5" grinder.

The area shall then be backfilled with gabion stone to existing ground level of the current walkway.

On completion of the works, all tools and materials shall be removed from the works location and be loaded into the wheelbarrows to travel back to site vehicles.

The workforce shall then load the wheelbarrow and its contents into site vehicles and all bagged waste shall be taken back to depot for disposal.

The workforce will then leave site through the traffic management system.

Note: The workforce is to use either beacons or hazards to alert other road users they are re-joining the main carriageway.

The road traffic management operatives will then remove the traffic management system on Corton Road and leave site.

The Supervisor is to ensure that pictures are taken throughout the duration of the works capturing Before, During and After pictures of the works.

**AmcoGiffen Supervisor will carry out a check of the work site to ensure no materials & equipment has been left at roadside, walkway and surrounding area.
 Working area to be left clean & tidy**

1.1.2 The following tasks support this Work Package Plan:

Reference & Prepared by:	Task Briefing Sheet Title	Activity Start Date
TBS001 – William Cairns	TBS001 – Scour Repairs	TBC

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1.2 AMCO's delivery organisation

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

Amend list as required:

Role	Name	Contact Number
Regional Director	J Double	<Redacted>
Operations Director	A Kane	<Redacted>
Programme Manager	B Thomson	<Redacted>
On Call Manager	TBC	
Site Supervisor	TBC	
ALO Responsible Manager	S Docherty	<Redacted>
ALO Planner	K Docherty	<Redacted>
ALO Coordinator	N/A	N/A
CRT Coordinator	N/A	N/A
Temporary Works Coordinator	K Docherty	<Redacted>
Engineer	W Cairns	<Redacted>
H&S Advisor	A Wilson	<Redacted>
Sustainability & Assurance Advisor	M McDermott	<Redacted>
Procurement	Procurement North	01226 243 413

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
ATMS	Road Traffic Management	D Burden	<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



People

Number of People and their competence associated with this WPP		Task
Competence	No of People	TBS Ref
AMCO Supervisor	01	TBS001
Amco Skilled Op	01	
Amco General Op	01	
Quad Operative	01	
ATMS	01	

Plant, Equipment and Tool

Quantity of Plant, Equipment and Tools associated with this WPP		Task
Plant item	No	TBS Ref
Welfare Van	01	TBS001
Site Vehicle	02	
TE6-A	02	
Ladder	01	
5" Grinder	01	
Wheelbarrows	01	
Wetsuits	04	

Materials

Quantity of Materials		Task
Material	Quantity	TBS Ref
Soluform Bagwork	50	TBS001
Threaded Bar	30	
Drill bit	02	
Locking nuts	30	
Terram	01	
Rubble bags	50	
Red and White Barrier	08	
Gabion Stone	2sqm	



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:
- Covid-19 site operation requirements.
 - 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 Sinclair	NR SPM	<Redacted>	YES
A Davidson	NR PM (West)	<Redacted>	YES
S Boslem	NR PM (East)	<Redacted>	YES



Regulators

Organisation	Contact details	Tick to confirm number works and has been tested
Emergency Services	<i>Emergency – 112 / Non-Emergency 101</i>	✓
British Transport Police	<i>0800 405 040</i>	✓
HSE	<i>Fatalities and Major Injuries - 0845 3009923. Other - http://www.hse.gov.uk/riddor/report.htm</i>	✓
ORR	<i>020 7282 2000</i>	✓
SEPA	<i>0800 807060</i>	✓
Flood line	<i>0345 9881188</i>	✓
Spill clean up	<i>0800 592827</i>	✓

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 not involve any of the particular risk(s), as detailed in Regulation 12 (2), (Schedule 3) of the CDM Regulations 2015 **OR**

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?
Ecology Survey 	Prior to works commencement	N/A	<ul style="list-style-type: none"> Ecologist will carry full survey of the culvert and the surrounding area Ecologist to advise on site team of any protected species and invasive plants/weeds Once ecologist has confirmed that the area is safe to work in, works can now proceed

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
RTM HRA 	At all times when on site	N/A	<ul style="list-style-type: none"> Only trained and competent Traffic management operatives can set up RTM on a public highway All personnel must be equipped with Hivis PPE at all times when working in RTM zones Orange flashing beacons and chapter 8 chevrons should be used for



			<ul style="list-style-type: none"> vehicles working within RTM zones Amco supervisor to inspect road surface prior to removing TM
<p>Working Within a Watercourse</p>	When Working in the watercourse	Permit to work in water	<ul style="list-style-type: none"> A permit to work in water is to be issued prior to works commencing Check, Clean, Dry procedure followed Works undertaken above water level, access outside of watercourse. Weather forecast to be monitored, work undertaken during low water levels, if possible.
<p>Buried services</p> <p>HRA</p>		Permit to Dig	<ul style="list-style-type: none"> Permit to Dig to be issued for all excavation works on site. Trained and competent Buried service survey operatives to carry out a CAT and Genny survey of all areas requiring excavations Where appropriate Service plans will be provided for reference during excavation works NO mechanical excavation within 1200mm of any known service NO Excavation within 1200mm of any known service without prior director approval



			<ul style="list-style-type: none"> Task specific control measures to be in place for each individual excavation
<p>Carrying out devegetation work on site</p>	<p>When using petrol brush cutters hedge trimmers and other devegetation equipment</p>	<p>Deveg checklist</p>	<ul style="list-style-type: none"> Devegetation checklist to be completed prior to works All persons operating devegetation equipment shall be trained and competent in its use Task specific PPE to be worn during devegetation works such as ear defenders, face visors devegetation gloves long sleeve workwear All items of devegetation equipment to be inspected for serviceability prior to use Refuelling of petrol devegetation equipment must take place over a drip tray Where more than one person is operating devegetation equipment personnel shall works towards one another Persons working in the same area shall maintain a 2.0m separation distance to prevent plant interface Amco supervisor shall set up an exclusion zone around

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			devegetation working areas using cones and tape where interface is possible
Possible flying projectiles	When using petrol brush cutters and vegetation clearing equipment	Devegetation checklist	<ul style="list-style-type: none"> Area to be inspected prior to works for possible flying projectiles For devegetation works near areas of possible sharps specialist contractors shall be employed to search the area for sharps Areas of dense vegetation / grass shall be inspected using hand tools prior to clearance works All possible flying projectiles shall be bagged and removed from site
COSHH Substances	When handling hazardous or items detrimental to health or the Environment	N/A	<ul style="list-style-type: none"> COSHH data on site for COSHH items Task Specific PPE worn at all times when handling 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
Slips Trips and falls	At All times on Site	N/A	<ul style="list-style-type: none"> Care to be taken when walking on site. Underfoot conditions to be highlighted on the



			<p>NWR hazard map</p> <ul style="list-style-type: none"> • AmcoGiffen supervisor shall brief the site team on the hazards identified on the hazard maps • Steel toe cap boots must be worn at all times • Clear all waste and debris from site on regular basis • Amco Supervisor to position site lighting prior to works commencement • Site access arrangements to be identified at scoping visit and incorporated into Works methods
Manual Handling	At all times on Site	N/A	<ul style="list-style-type: none"> • Check access route before works commence for uneven ground or obstructions. • Assess the load before lifting. • Seek help for awkward shaped items of for carrying over long distances.
Operating Small Plant and tools	When using small tools	N/A	<ul style="list-style-type: none"> • Operators must be trained and competent in the use of small tools • Impact goggles/Face shield to be worn at all times when operating equipment • Inspect plant and equipment before use. • Report faults to Site supervisor. • Take damaged plant out of use and quarantine • Plant to be



			inspected prior to each use
HAVS EAVS	When using small tools	N/A	<ul style="list-style-type: none"> Keep hands warm when operating grinding equipment/chipping gun Operatives to be briefed on EAV & ELV times limits. Site supervisor to monitor and record trigger time. Rotate workforce to minimise exposure times No works to commence until Amco Supervisor has referred to the Trigger time register and briefed all operatives on the EAVs for the plant on site, this register must be adhered to at all times during the works
Leptospirosis	At all times on site	N/A	<ul style="list-style-type: none"> Wash hands before eating drinking and or smoking. Gloves to be worn at all times.
Sharps / Needles	At all times on site	N/A	<ul style="list-style-type: none"> Contact NR sharps (01904525894) Keep clear until such times as area is cleaned of all sharps/needles
3 rd Parties	At all times on site	N/A	<ul style="list-style-type: none"> Make area safe at breaks and end of shifts Be courteous to members of the public passing the work area Avoid shouting and loud plant where possible All areas classed

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AMCO-GIFFEN

everyone
home safe
every day

Our Lifesaving Rules



Scan/Report Close Calls



NWR Project No: MSC7928

AG Contract No: SCOAM18

Issue: 01

Revision Date: 26/05/2023

			as working locations must be segregated from the general public
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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
	✓		✓
	✓		✓
	✓		✓
	✓		✓
	✓		✓

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

High Risk Activities associated with the works					
✓ or X					
Working at Height		X	Change Management		✓
Breaking Ground		✓	Lifting Activities		✓
Confined spaces		X	People & Plant		✓
Fire and Hot works		✓	Electrical & Stored Energy		X
Work Related Road Risk		✓	Railway Operations		X
Work in, over or near water		✓	Works producing dust, noise & vibration		✓



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 bunded in accordance with the oil storage regulations. Storage facilities shall be positioned at least 10m away from a watercourse Drip trays / plant nappies 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 	
Dust, Noise, Odour	<ul style="list-style-type: none"> Dust from cutting or grinding to be suppressed using water Noise hierarchy to be followed in accordance with BS5228 – Eliminate- Where possible carry out the task Substitute- use silenced tools where appropriate Isolate- complete works where noise is unavoidable together Control – use sound barriers where affective Hybrid or battery operated technology to be utilised where possible Silenced plant to be used where possible Screening to be used where appropriate 	
Flood Risk Management	<ul style="list-style-type: none"> 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 Where possible, materials, plant and other items shall be stored at least 10m from the watercourse edge or, preferably, off the flood plain altogether. 	
Ecology, Protected/Invasive species at Risk	<ul style="list-style-type: none"> Ecologist to carry out full eco survey prior to works commencement All works are to be carried in line with Ecologist recommendations 	
Working in or near a watercourse	<ul style="list-style-type: none"> Works undertaken above water level, access outside of watercourse. Weather forecast to be monitored, work undertaken during low water levels. Dry working area to be put in place prior to any works 	Marine Licence Required for all works

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	proceeding. <ul style="list-style-type: none"> • Correct PPE to be worn • Check, Clean, Dry procedure followed 	
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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	Bagged	Yes / No	Non Haz / Haz	R / D
Vegetation	Stockpiled	Yes / No	Non Haz / Haz	R / D

5 Emergency Arrangements

5.1 Site emergency arrangements

Site Location: Gateside Road, Gateside, Barrhead, Scotland, G78 1TS - GBK - 8m 0100yds		
Grid Reference: NS 48590 58130		
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	Royal Alexandra Hospital (A&E) Corsebar Drive Paisley PA2 9PN	0141 314 7294
SEPA	Control Centre	0800 807 060 24/7/365
Flood line	National Flooding Helpline	0345 988 1188.
Spill response	Addler & Allan	0800 592 827

Reporting of Accidents, Incidents & Close Calls

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 blogs),
- 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

5.1.1 First aid arrangements

5.1.1.1 The first aid arrangements for this package of work are

First aiders	Name	Qualifications
		First Aid at Work
Likely injuries associated with this work package	Crushed Bones, Open Wounds, Cuts, Scrapes, Bruises	
First aid equipment provision	Equipment	Location
	First Aid Kit	Welfare Van / Onsite

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 horn. They will wait there until further notice.

Muster point shall be appointed and demarcated on site by site supervisor

In the event of a fire, the person who identifies the fire will utilise the air horn 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 horn, they will wait there until further notice.

In the event that an individual is required to be rescued from a situation this will be carried out by a site recovery stretcher board where they will be carried back to above muster point where they will aware emergency services – **2 Cornton Rd, Bridge of Allan, Stirling FK9 4DB – Grid Ref: NS 78958 96456 – W3W:/// porridge.headers.resemble**

5.1.3 Fire safety arrangements

5.1.3.1 Firefighting equipment will be available on site in a safe location with additional fire extinguishers stored in site vehicles, AmcoGiffen personnel should only attempt to extinguish fire where safe to do so, Fire services can be summoned from the supervisors mobile quoting location reference: **2 Cornton Rd, Bridge of Allan, Stirling FK9 4DB – Grid Ref: NS 78958 96456 – W3W:/// porridge.headers.resemble**

5.1.4 Security arrangements

5.1.4.1 Keep site vehicles locked when not attended and remove all plant, tools and materials at end of every shift and during breaks.



5.1.5 Environmental Emergencies

5.1.5.1 Extreme Weather and Flooding: *If water levels rise to a level that the supervisor deems unsafe then works will be postponed until the water level lowers.*

5.1.5.2 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

5.1.5.1 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 – **2 Cornton Rd, Bridge of Allan, Stirling FK9 4DB – Grid Ref: NS 78958 96456 – W3W:/// porridge.headers.resemble**

5.1.7 Railway emergency (trains and electrical)

5.1.6.1

	Contact Details
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

5.1.7.1 N/A

5.1.9 Utilities

5.1.8.1 N/A

Organisation	Contact details
Electricity	105 or 0800 092 9290
Gas	0800 111 999
Telecoms	0800 800 151
Water	0843 557 3120

6 Work Package Arrangements

6.1 Site Layout

6.1.1 Please see attached appendix – Site Layout Plan

6.2 Access and Egress

6.2.1

Vehicle access arrangements	Workforce shall utilise the RTM limits as parking throughout the duration of the works
Parking arrangements	As Above
Access to works for Personnel	Access to the works will be through public walking route down to LM Abutment



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.

Welfare Assessment Matrix

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.

Equipment such as kettles, microwaves etc. are provided, they must be regularly cleaned and/or sanitised and enhanced cleaning measures.



6.4 Rail Traffic Management

6.4.1 N/A

6.5 Road Traffic Management

6.5.1 Temporary Traffic Lights on Cornton Road, Stirling.

7 Hand Over and Hand Back Arrangements

7.1 Hand over and hand back arrangements

7.1.1 AmcoGiffen Supervisor will carry out a check of the work site to ensure no materials & equipment has been left within the watercourse, field and surrounding area. Working area to be left clean & tidy.




Appendix 1 – Risk Assessment

Control of activity risks



The table identifies particular hazards and risks that may be present during the works. Toolbox talks will be given where on these risks are deemed necessary but at a rate of not less than one per week. Weekly site audits will be undertaken by the Site Supervisor / Site Manager.

PREPARED BY:	W. Cairns	DATE PREPARED:	17/05/2023	OVERALL RISK	
SEVERITY		PROBABILITY		RISK	
LOW	1	1	NOT LIKELY	LOW	1 TO 6
SLIGHT - FIRST AID TREATMENT	2	2	POSSIBLE - OTHER FACTORS NEEDED BUT NOT LIKELY	MEDIUM	7 TO 15
MODERATE - OVER 3 DAYS INJURY	3	3	QUITE POSSIBLE - OTHER FACTORS NEEDED - LIKELY	HIGH	16 TO 25
HIGH - MAJOR INJURY / DEATH	4	4	LIKELY - OTHER FACTORS THEN WILL HAPPEN		
VERY HIGH - MULTIPLE DEATH	5	5	VERY LIKELY - WAITING TO HAPPEN		

Applicable Tasks
1. TBS001
2.
3.
4.

Hazard	Hazard outcome	S	P	Initial risk	Risk control measures	AMC O Ref	Residual risk	Applicable Tasks			
								1	2	3	4
RTM Operations HRA 	Minor / Reportable injury	3	2	6	<ul style="list-style-type: none"> Only trained and competent Traffic management operatives can set up RTM on a public highway All personnel must be equipped with Hivis PPE at all times when working in RTM zones Orange flashing beacons and chapter 8 chevrons should be used for vehicles working within RTM zones Amco supervisor to inspect road surface prior to removing TM 		3	X			





Hazard	Hazard outcome	S	P	Initial risk	Risk control measures	AMCO Ref	Residual risk	Applicable Tasks			
								1	2	3	4
					use before works commence <ul style="list-style-type: none"> Machine certification is to be available on site prior to works commencing Operators manual to be available on site prior to use of the machine Machine to be delivered as per Pre discussions with supplier Exclusion zones to be set up around all machine works on site, local landmarks are to be utilised to demarcate exclusion zones and implemented by the AmcoGiffen supervisor (No physical barriers will be implemented) Max speed when on site is 5mph 						
Devegetation works 	Minor / reportable injury	3	3	9	<ul style="list-style-type: none"> Devegetation checklist to be completed prior to works All persons operating devegetation equipment shall be trained and competent in its use Task specific PPE to be worn during devegetation works such as ear defenders, face visors, devegetation gloves, long sleeve workwear All items of devegetation equipment to be inspected for serviceability prior to use Refuelling of petrol devegetation equipment must take place over a drip tray 		3	X			







Hazard	Hazard outcome	S	P	Initial risk	Risk control measures	AMCO Ref	Residual risk	Applicable Tasks			
								1	2	3	4
					<ul style="list-style-type: none"> Where more than one person is operating devegetation equipment personnel shall work towards one another Persons working in the same area shall maintain a 2.0m separation distance to prevent plant interface Amco supervisor shall set up an exclusion zone around devegetation working areas using cones and tape where interface is possible 						
Possible flying projectiles 	Minor / reportable injury	3	3	9	<ul style="list-style-type: none"> Area to be inspected prior to works for possible flying projectiles For devegetation works near areas of possible sharps specialist contractors shall be employed to search the area for sharps Areas of dense vegetation / grass shall be inspected using hand tools prior to clearance works All possible flying projectiles shall be bagged and removed from site 		3	X			
COSHH Substances 	Minor / long-term injury	2	2	4	<ul style="list-style-type: none"> COSHH data on site for COSHH items Task Specific PPE worn at all times when handling COSHH Items Harmful substances to be used as per Manufacturers recommendations COSHH items stored off site when not in use 		2	X			






Hazard	Hazard outcome	S	P	Initial risk	Risk control measures	AMCO Ref	Residual risk	Applicable Tasks			
								1	2	3	4
					<ul style="list-style-type: none"> Operatives to be equipped with task specific PPE at all times whilst using COSHH items 						
Slips trips and falls 	Minor or reportable injury	3	3	9	<ul style="list-style-type: none"> Care to be taken when walking on site. Steel toe cap boots must be worn at all times Clear all waste and debris from site on regular basis If works at any time reach low light levels of working AmcoGiffen supervisor to position site lighting prior to works commencement Define walkways and surface with Type 1 where possible. Store materials tidily in lay-down/batching area and keep tools in a vehicles when not in use. Site is to be tidied regularly throughout the works. 		3	X			
Manual handling 	Minor or reportable injury	3	4	12	<ul style="list-style-type: none"> Check access route before works commence for uneven ground or obstructions. Assess the load before lifting. Seek help for awkward shaped items of for carrying over long distances. 		3	X			
Operating small plant and tools	Minor or reportable injury	3	4	12	<ul style="list-style-type: none"> Operators must be trained and competent. Impact goggles/Face shield to be worn at all times. 		3	X			



Hazard	Hazard outcome	S	P	Initial risk	Risk control measures	AMC O Ref	Residual risk	Applicable Tasks			
								1	2	3	4
					<ul style="list-style-type: none"> Inspect plant and equipment before use. Report faults to Site supervisor. Take damaged plant out of use Supervisor is to record HAVS Tasks are to be split between the team to reduce exposure time 						
Leptospirosis 	Minor or reportable injury	3	4	12	<ul style="list-style-type: none"> Wash hands before eating drinking and or smoking. Gloves to be worn at all times. 		3	X			
Needles/sharps 	Major injury	4	4	16	<ul style="list-style-type: none"> Contact NR sharps (01904525894) Keep clear until such times as area is cleaned of all sharps/needles Possibility of Needles should be identified in first survey visits to site 		4	X			
3rd Parties 	Minor or reportable injury	3	2	6	<ul style="list-style-type: none"> Make area safe at breaks and end of shifts Work area sufficiently signed and fenced All tools should be stored in a safe area out of reach of third parties during breaks Pre site visits to determine the risk due to third parties 		3	X			
Welfare	Minor	2	1	2	<ul style="list-style-type: none"> Facilities for washing, drinking water, hot water, first aid and heating food shall be provided (Welfare Van). 		2	X			



Hazard	Hazard outcome	S	P	Initial risk	Risk control measures	AMC O Ref	Residual risk	Applicable Tasks			
								1	2	3	4
					<ul style="list-style-type: none"> Keep Welfare Van clean and supplies stocked. 						
HAVS  	Minor / Long-term	3	3	9	<ul style="list-style-type: none"> Site Supervisor to record trigger times for tools. Take regular breaks. Do not exceed the tool limits. Rotate the task. Inspect plant and equipment before use. Report faults to Site supervisor. Take damaged plant out of use. 		3	X			
Plant	Use	Exposure Action Value (min/hr)		Exposure Limit Value (min)		Applicable to Task					
TE-30	Hammer Drilling in Concrete	35		145							
TE-500 AVR	Chiselling into Wall	25		115							
TE-6A	Rotary Hammer	35		145							
Cut Off Saw	Saw into Concrete	195		780							
9" Grinder	Surface prep/cutting	159		757							
5" Grinder	Surface prep/cutting	83		633							
Small Chipping gun	Preparation of steel	47		368							
TE706	Breaking	71		524							
Rivet Buster	Rivet removal	15		59							

Scan/Report Close Calls



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Hazard	Hazard outcome	S	P	Initial risk	Risk control measures	AMC O Ref	Residual risk	Applicable Tasks					
								1	2	3	4		
(Pneumatic)													



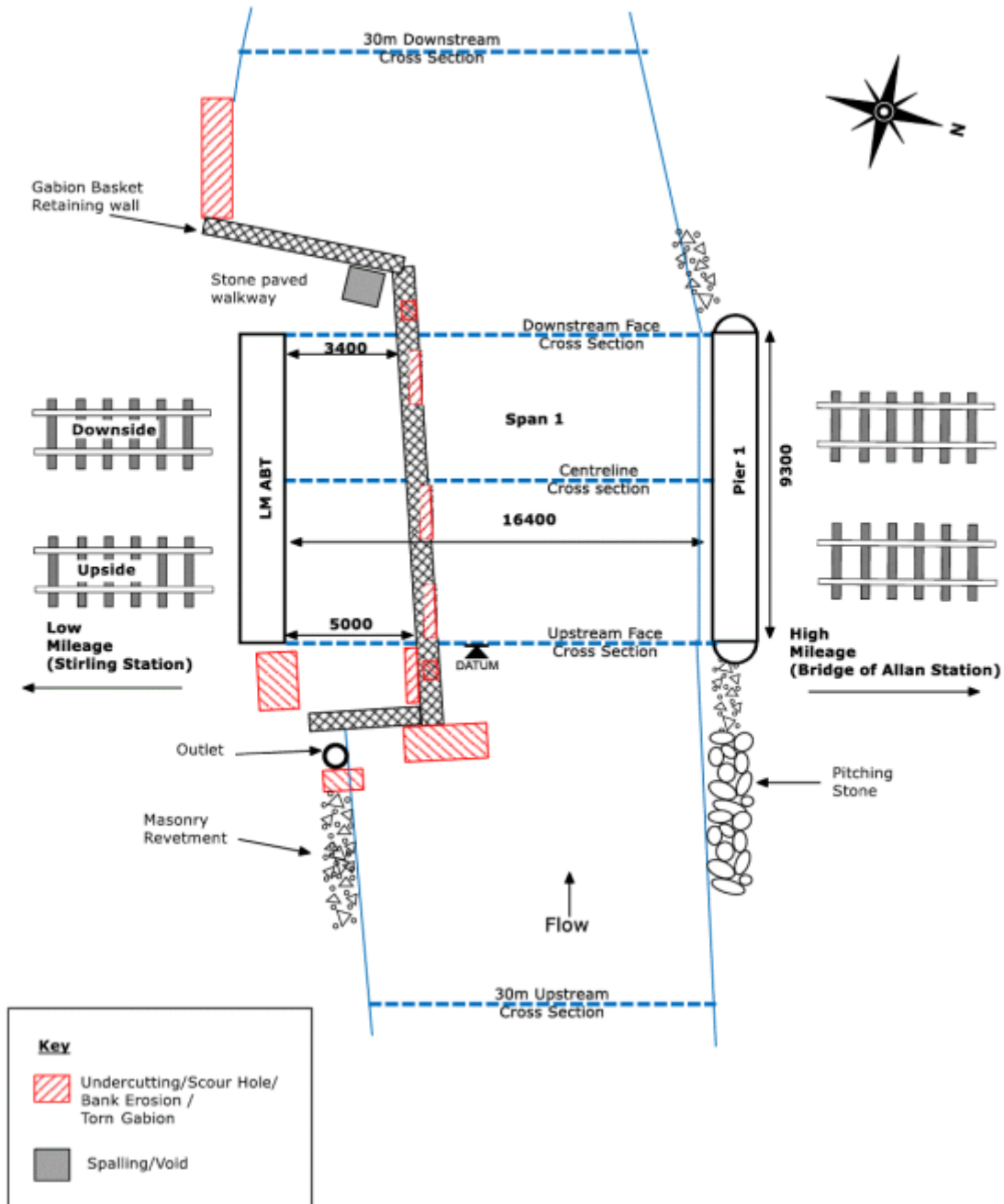
Appendix 3 – Site Layout Plan





Appendix 4 – Structure Report – Sketch Plan

APPENDIX A - SKETCH PLAN





Appendix 5 – Site Photographs



Key 2 - View of gabion retaining wall



Key 3 - View of undercutting to the concrete apron upstream



Key 4 - View of undercutting to the concrete apron downstream



Key 5 - View of tear to the upstream LM gabion



Key 6 - View from LM



Key 7 -Location of work at upstream LM walkway



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