



Site Hazard Log and Map



Name KEVIN DOCHERTY SNR	Date 12/06/2025
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Workplace/Location/Access Ardoch Coach House Ardoch Cardross Dumbarton - W3W taskbar.fragment.skill -

Remit / Job Description 25/26 Repairs and Proactive works to scour and voiding - Replace damaged concrete toe to base of revetment at 18m 668-9yds, approx 2m length. (Opex Policy Target X)



Present on-site

- Works in, Over or Near Water
- Working at Height
- People & Plant
- Fire & Hot Work
- Electrical & Stored Energy
- Railway Operations
- Confined Spaces
- Work Related Road Risk
- Breaking Ground
- Activities with Potential to Cause Pollution
- Temporary Works
- Works Affecting Protected or Invasive Species
- Lifting Activities
- Works producing dust, noise & vibration

Workforce will meet and park within location agreed with landowner at bottom of access road next to Ardoch Coach House Ardoch Cardross Dumbarton - W3W taskbar.fragment.skill - Landowner has asked that access road is kept clear at all times. Prior to works the landowner has asked to phone homeowner at Ardoch Coach House David Clark 07897-851-929 to give him notice of planned dates that works will be carried out to allow him to open the gate. This is a highly sensitive location and all effort must be given to minimising the efforts of our activities with regards to the neighbouring properties which closely adjoin this location. Please give thought to the local residents. This access/egress survey has been taken on the 12/06/25 and must be used to check against any additional hazards that are to be recorded on a new NWR Hazard Map.

Key	Hazard	Control	Date	Mileage	CC Number	Hazard Removed/Made Safe
1	Working with tide times	Operative to watch water levels. Tide times to be checked. All safety checks to be carried out.	12/06/2025	18m 510yds	MSE1528	YES
2	Working at height	Trained Irata rope access, Permit to work at height to be issued. Trained operatives. PASMA operative	12/06/2025	18m 510yds	MSE1528	YES
3	Slips trips and falls	Care to be taken when walking on site, Remove any hazards or highlight	12/06/2025	18m 510yds	MSE1528	YES
4	Small plant and tools	Trained & competent operators, pre works certification checks,	12/06/2025	18m 510yds	MSE1528	YES
5	Railway neighbours	Noise kept to a minimum	12/06/2025	18m 510yds	MSE1528	YES
6	manual handling	Check access route, Assess the load before lifting, Seek help for awkward shaped items.	12/06/2025	18m 510yds	MSE1528	YES
7	People and Plant Interface	All plant certified, All personnel on site to be briefed, Exclusion zone to be in place during works	12/06/2025	18m 510yds	MSE1528	YES
8	Havs	Amco supervisor to record trigger times for tool, Take regular breaks. Do not exceed the tool limits. Inspect plant and equipment before use.	12/06/2025	18m 510yds	MSE1528	YES
9	Underfoot conditions	Care to be taken on site, Clear all waste and debris from site on regular basis. Remove any hazards or highlight.	12/06/2025	18m 510yds	MSE1528	YES
10	Dust	Note: Whilst drilling and mixing its likely to disturb silica dust particles all personnel involved in the task must be equipped with an FFP3 face mask with relevant face fit certification gloves and appropriate eye protection for the task	12/06/2025	18m 510yds	MSE1528	YES

ADDITIONAL SITE PHOTOS



Key 1 -View along toe



Key 2 - Section 1 - 18M 0668Y - Washout of concrete haunch along toe



Key - S





Key 4 - : Section 1 - 18M 0668Y - Washout of concrete haunch along toe -



Key 5 -



Key 6 - Section 1 -Start of defence to high miles



Key 7



Key 2 - Parking area



Section 1 - 18M 0668Y - Washout cracking of concrete
haunch along toe





Section 1 - 18M 669Y-Pipe culvert (buried), cracking deterioration blocked



-Section 1 - 18M 687Y-End of section to low miles

14 Devegetation & Earthworks

Calculated Norm Manhours **3**
 Plus Total Expected Manhours **0**

	<u>Work Area</u>	<u>Unit</u>	<u>Quantity</u>	<u>Norm Mhrs</u>		<u>Tree Girth</u>	<u>Unit</u>	<u>Quantity</u>	<u>Norm</u>
Deveg	Level	m2	50.0	2.6	Trees	500mm-1m	nr		0.0
	Sloping	m2		0.0		1m - 2m	nr		0.0
	Vertical <2m	m2		0.0		2m - 3m	nr		0.0
	Vertical 2-6m	m2		0.0		3m+	nr		0.0
	Vertical 6m+	m2		0.0		Stumps	nr		

1 + 2

Make Sure Adequate Photos Provided. Assumption that area is 'Dense' will be applied otherwise

Deveg	Total Planned Manhours	2.6	Trees	Total Planned Manhours	0.0
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	<u>Material</u>	<u>Unit</u>	<u>Total m3</u>	<u>At Depth (m)</u>	<u>Hand Dug Qty</u>	<u>Norm Mhrs</u>	
General Excavations	Topsoil	m3					Max 250mm depth
	All Other	m3				0.0	Refer to remit for depth if in doubt
	Pavement	m3				0.0	Max 250mm depth
	Rock	m3					
	Ballast	m3				0.0	Max 1m depth, but please note
Normal Trimming & Disposal is included. Time for extras (e.g. scaling):							Note in methodology clearly
General Excav: Total Planned Manhours						0.0	

1 + 2

	<u>Filling What?</u>	<u>Unit</u>	<u>Total m3</u>	<u>At Depth (m)</u>	<u>Material</u>	<u>Norm Mhrs</u>	
Filling	Structure	m3					Is material excavated or importe
	Embankment	m3				0.0	Standard trimming and prep is included in norm - add any extra work as required
	General Area	m3				0.0	
	River Bed	m3				0.0	
	Detail/Extra Work _____						
Filling Total Planned Manhours						0.0	

1 + 2

	<u>Material</u>	<u>Unit</u>	<u>Total m3</u>	<u>At Depth (m)</u>	<u>Hand Dug Qty</u>	<u>Filling What?</u>	<u>Norm Mhrs</u>	
Re-Grade	Topsoil	m3						Hand-dug quantity is key
	All Other	m3					0.0	
	Rock	m3						Assumes excavation and filling
	Ballast	m3					0.0	
Detail/Extra Work _____								
Re-Grade Total Planned Manhours							0.0	

1 + 2

18 All Other Works

Total Expected Manhours **105**

Enter 1. Description of Work Activity 2. Unit & Quantity 3. Size of Gang (e.g. 2.5 - 2 ops plus working supervisor) 4. Expected Clock Hours for Activity in HOURS ON SITE not shifts

Description of Activity

Measures / Quantity

1	Unit	Qty	Ops	On-Site Hrs	Expected Manhours
Workforce to brakout and remove damaged concrete from damaged toe to base of revetment. All material will be bagged and removed from site.	M3	3	4	12	48.0
2 Workforce to clear the damaged section and fit reinforcing mesh and GRP & timber shutter around area.	EA	1	4	6	24.0
3 Workforce to fill area with new concrete on a like for like basis concrete to be brushed finished.	M3	3	3.5	6	21.0
4 Workforce to remove shutter and carry out any repairs as Required	EA	1	3	4	12.0
5					0.0
6					0.0
7					0.0
8					0.0
9					0.0
10					0.0
11					0.0

19 WORKS METHODOLOGY

Once Earned Hours have been used to Programme Works:

Total Number of Shifts
AMCO Operatives

MW Days	MW Nts	WE Days	WE Nts
5			
4.5			

- 1 **NOTE: Network Rail are asking for approx 2meters of concrete works to be carried out on the toe after sopping there is a lot more areas that require to be fixed along the length of the concrete toe. JSV would be beneficial to show NWR the damage to the concrete toe and ask if they want to added to the scope of works.** Workforce will meet and park within location agreed with landowner at bottom of access road next to Ardoch Coach House Ardoch Cardross Dumbarton - W3W taskbar.fragment.skill - Landowner has asked that access road be kept clear at all times. Prior to works the landowner has asked to phone homeowner at Ardoch Coach House David Clark 07897-851-929 to give him notice of planed dates that works will be carried out to allow him to open the gate. This is a highly sensitive location and all effort must be given to minimising the efforts of our activities with regards to the neighbouring properties which closely adjoin this location. Please give thought to the local residents.
- 2 Amco supervisor to brief all staff on tasks and fill in all paperwork and permits. Supervisor to ensure sufficient site lighting is erected throughout the works area to undertake the works safely.
- 3 Workforce will remove all vegetation in and around parking area and underbridge to allow parking and safe access to water front, utilising petrol powered devegetation equipment and various hand tools. All vegetation to be bagged and removed from site. NOTE: Prior to any de-vegetation works a visual inspection to be carried out at the location and ensure no cables are apparent and if cables are visually identified they have to be isolated and operatives to cut a safe distance from the identified cable.
- 4 Where possible, mixing area and all plant, equipment and tools to be set up at least 10 meters away from the watercourse. All fuelling to take place at least 10 meters away from watercourse on a plant nappy or drip tray. A spill kit has to be available at all times on site.
- 5 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. **Water course is Tidal.**
- 6 Track barrows will be used to transport all plant and material from lay down area to and from work location. Workforce will then access the water front from the arch underbridge at the bottom of the access road the height of clearance at underbridge is 2metres in height.
- 7 A trained and competent SYGMA operative will then undertake a full buried services survey along the entirety of the concrete down to the beach marking any known services collated from the buried services information and any services found throughout the survey with use of a CAT4 & Genny.
- 8 The supervisor will mark-up defective areas at 18m 668-9yds of the concrete base around the extremities of the exposed concrete. The workforce will then proceed to saw draft edges and breakout the defective concrete with the use of a Stihl Saw and hydraulic breakers. The workforce will then proceed to remove loose stones and dig in 600mm deep, 1.2m wide x 3m long toe for new concrete apron/toe to be poured.
- 9 The Joiner will then measure up and construct a shutter around the extremity of the excavation. GRP corrugated panels will be installed at the face of the shutter to form the toe and left in place as added protection from the tidal water course. Note: Once concrete has been poured joiner will then cover the top of the concrete to protect against the water levels.
- 10 The workforce will then install A393 Mesh or similar a minimum of 50mm cover over the steel reinforcement. Note: Steel mesh will be supported from beneath at regular intervals by mars bars or spacers placing them roughly every 600mm, sufficient to carry the fabric without allowing it to sag. Metal bars will be drilled into the sounding slab to allow new concrete to bond to old concrete.
- 11 Spot mix will then mix and pour C40 marine concrete mix into the track barrows at parking area and workforce will walk to work area. Once at work area workforce will pour concrete into the shuttered area. Note: The workforce will ensure to use a concrete poker to remove trapped air pockets throughout the pour to prevent honeycombing. Spread the concrete evenly and slightly proud of the timber rails. The workforce will then level off with a straight edge timber resting on the rails. Repeat tamping from one end to the other. Once the surface has been smoothed over, a stiff broom/ brush to lightly brush across the base for non-slip rough finish.
- 12 Note: The pour will be left for a minimum of 3 days to cure prior to cracking the shutters. Once cured the shutters will be removed from its fixed positioned and all excess materials will be bagged and removed from site.
- 13 Amco supervisor will check over the new concrete pour and if any areas need to be touched up amco operatives will carry out these works.
- 14 Loose and displaced stone work on slope at this location is to be removed and re-established on a bed of fresh mortar. Brickwork is to be used where re-claimed material is not available, to fill the void.
- 15 Tide times are to be monitored and work area is to be cleared of all plant, material and waste material before tide starts to come in. Work Site is to be cleared of all plant, materials and waste materials at the end of each shift.
- 16 **Note: The occupant of Brackenbird Cottage, has issues with the lane being accessed. However the lane is not part of his property. The landowner has advised this occupant may be obstructive during works. Contact the landowner if any issues arise.**

20 SKETCH OF WORKS

DO NOT FORGET PHOTOS: ACCESS POINTS, WORKS AREA IN GENERAL, AREA IN DETAIL (AS MINIMUM)

