
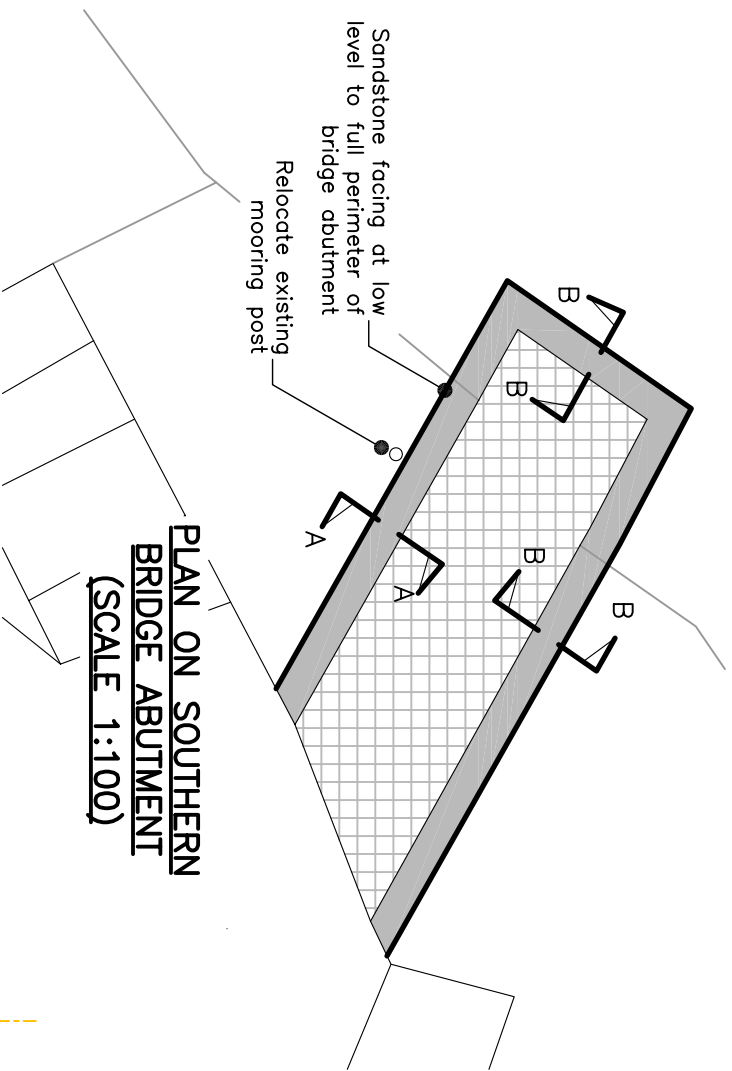
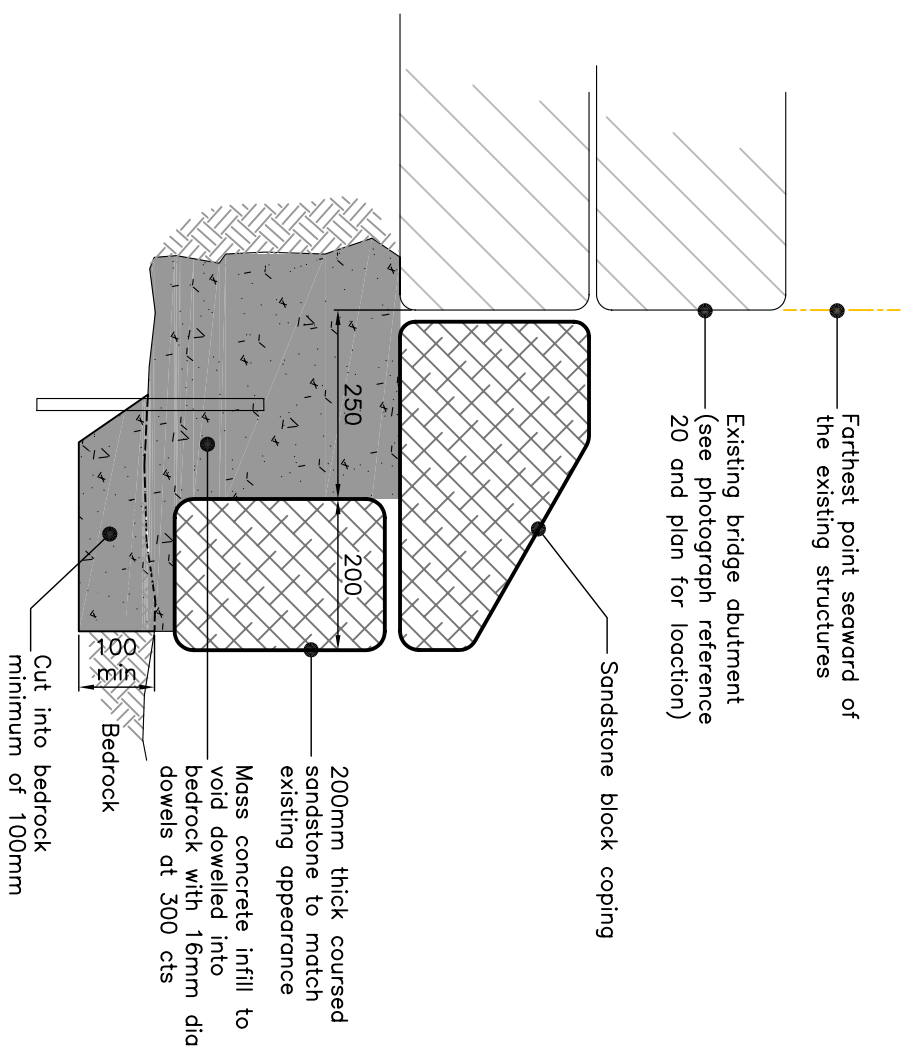


**TYPICAL SECTION AT WALL REPAIR TO
PHOTOGRAPH REFERENCES 24&25
(SCALE 1:10)**

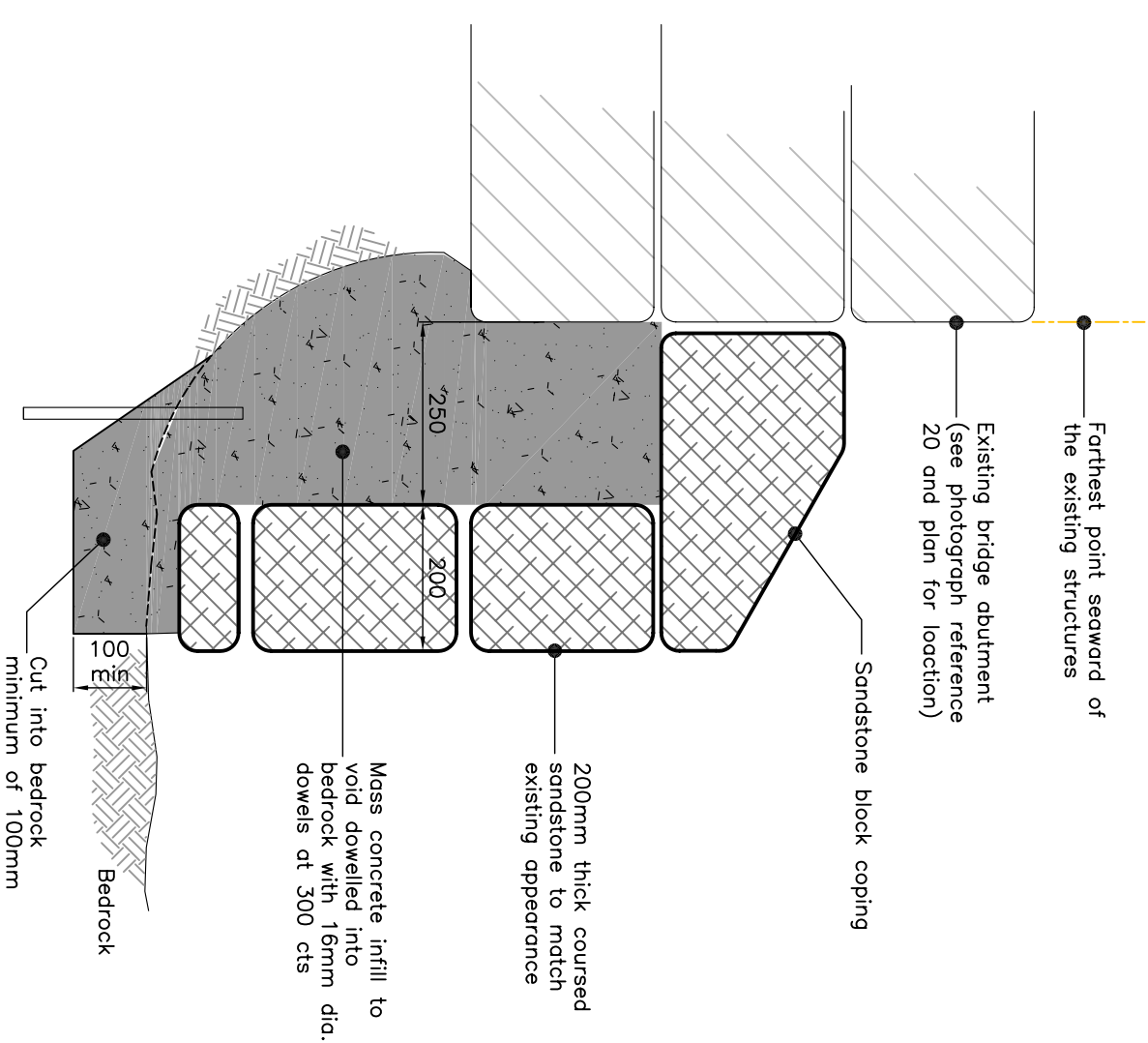
SCARBOROUGH BOROUGH COUNCIL REGENERATION AND PLANNING SERVICES		PROJECT STAIRTHES URGENT HARBOUR WALL IMPROVEMENTS		
 <i>A great place to live, work & play</i>	TOWN HALL ST. NICHOLAS STREET SCARBOROUGH YO11 2HG TELEPHONE 01723 232323 FAX 08701 913997	DRAWING TITLE REMEDIAL WORKS DETAIL		
		INITIALS	DATE	
		DRAWN	M.LLOYD	MARCH 2012
		CHECKED		
	APPROVED			
SCALES @ A4		DRAWING NUMBER SK02		



**PLAN ON SOUTHERN
BRIDGE ABUTMENT
(SCALE 1:100)**



**SECTION A-A
(SCALE 1:10)**



**SECTION B-B
(SCALE 1:10)**



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PROJECT
STAITHES URGENT HARBOUR WALL
IMPROVEMENTS

DRAWING TITLE
SOUTHERN BRIDGE ABUTMENT
REMEDIAL WORKS

INITIALS

DATE

DRAWN

ML

Mar 2012

As noted @ A3
SCALES

DRAWING NUMBER

SK 03



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 1



Works Description

Prepare and grind out diagonal cracking to concrete sea wall, minimum depth 50mm and point using a marine grade cementitious repair mortar.



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 2



Works Description

At high level- Prepare and grind out cracking to concrete sea wall, minimum depth 50mm and point using a marine grade cementitious repair mortar.

At lower level- Re-face by removing all loose concrete and boulder material from existing haunching to sea wall and replace using mass concrete, minimum 300mm thick and dowel into the existing structure.



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 3



Works Description

At high level- Prepare and grind out cracking to concrete sea wall, minimum depth 50mm and point using a marine grade cementitious repair mortar.

At lower level- Prepare and grind out cracking to concrete sea wall, minimum depth 50mm and point using a marine grade cementitious repair mortar. Work to include the patch repair to area of delamination.



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 4



Works Description

At high level- Prepare and grind out cracking to concrete sea wall, minimum depth 50mm and point using a marine grade cementitious repair mortar.

At lower level- Prepare and grind out cracking to concrete sea wall, minimum depth 50mm and point using a marine grade cementitious repair mortar. Work to include the patch repair to area of delamination.



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 5



Works Description

At high level- Prepare and grind out cracking to concrete sea wall, minimum depth 50mm and point using a marine grade cementitious repair mortar.

At lower level- Re-face by removing all loose concrete from existing haunching to sea wall and cast over using mass concrete, minimum 300mm thick and dowel into the existing apron returning down vertical face of wall.



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 6



Works Description

At high level- Prepare and grind out pointing to coursed stone sea wall. Upper 3 courses, minimum depth 50mm and point using a marine grade cementitious mortar (total length approximately 10m).

At lower level- See 7b.



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 7a



Works Description

At high level-

Remove high level vegetation.

Rebuild upper stone / brick courses to a height of 0.4m over full width of sea wall.

Prepare and grind out cracking to concrete sea wall, minimum depth 50mm and point using a marine grade cementitious repair mortar (total length approximately 35m).

Top left hand side, remove and replace concrete facing (total area approximately 4m²).



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Photograph Reference 7b



Works Description

At lower level- Locally grout up voiding beneath existing scour protection (total length approximately 4m).



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Photograph Reference 8a



Works Description

At high level-

Remove high level vegetation.

Prepare and grind out pointing to dressed coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total length approximately 45m).

At lower level- See 8b.



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Photograph Reference 8b



Works Description

At lower level- Re-face by removing all loose concrete from existing haunching to sea wall and cast over using mass concrete, minimum 300mm thick and dowel into the existing apron returning down vertical face of wall.



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Photograph Reference 9



Works Description

Remove high level vegetation.

Prepare and grind out pointing to coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total length approximately 15m).

Chop out and replace damaged blocks (total approximate area 1.0m²).



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Photograph Reference 10



Works Description

Remove and replace rendered face (total area approximately 30m²) allowing for preparation and grinding out pointing to coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total area approximately 30m²).



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 11



Works Description

At high level-

Remove high level vegetation.

Prepare and grind out pointing to dressed coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total length approximately 100m).

At lower level- Re-face by removing all loose concrete from existing haunching to sea wall and cast over using mass concrete, dowelling into the existing sea wall.



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Photograph Reference 12



Works Description

At lower level- Re-face by removing all loose concrete from existing haunching to sea wall and cast over using mass concrete, dowelling into the existing sea wall.



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Photograph Reference 13



Works Description

Remove and replace rendered face (total area approximately 10m²) allowing for preparation and grinding out pointing to coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total area approximately 10m²).



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 14



Works Description

Remove high level vegetation.

Prepare and grind out pointing to dressed coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total length approximately 3m).

Re-face by removing all loose concrete and cast over using mass concrete, dowelling into the existing sea wall (total approximate area 11m²).



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 15



Works Description

At high level-

Remove high level vegetation.

Prepare and grind out pointing to coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total length approximately 45m).

At low level-

Prepare and grind out pointing to dressed coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total length approximately 45m).

Chop out and replace damaged blocks (total approximate area 0.5m²).

Re-face by removing all loose concrete to existing apron and cast over using mass concrete, minimum 300mm thick, dowelling into the existing sea wall (total approximate area 17m²).



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Photograph Reference 16



Works Description

Omitted.



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Staithe Urgent Harbour Wall Improvements

Photograph Reference 17



Works Description

At high level-

Remove high level vegetation.

Prepare and grind out pointing to coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total length approximately 17m).

At low level-

Prepare and grind out pointing to coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total length approximately 20m).



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 18



Works Description

At high level-
Remove high level vegetation.

At low level-
Remove and replace rendered face (total area approximately 15m²) allowing for preparation and grinding out pointing to coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total area approximately 15m²).



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Photograph Reference 19



Works Description

Remove high level vegetaion.

Prepare and grind out pointing to coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total length approximatly 30m).



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Photograph Reference 20



Works Description

Construct 0.45m wide sandstone block scour protection to full perimeter of bridge abutment (total length 25m).



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 21



Works Description

Remove vegetaion.

Prepare and grind out pointing to coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total length approximatly 25m).

Trial hole required to establish founding depth of concrete facing.



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 22



Works Description

Prepare and grind out pointing to coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total area approximatly 60m2).



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 23



Works Description

See 22.



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Staites Urgent Harbour Wall Improvements

Photograph Reference 24



Works Description

Replace missing out stone leaf (Total approximate area 2.0m²).



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Staithes Urgent Harbour Wall Improvements

Photograph Reference 25



Works Description

Replace missing out stone leaf (Total approximate area 1.5m²).



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Staithe Urgent Harbour Wall Improvements

Photograph Reference 26



Works Description

Prepare and grind out pointing to coursed stone sea wall, minimum depth 50mm and point using a marine grade cementitious mortar (total length approximately 10m).
Chop out and replace damaged blocks (total approximate area 0.5m²).



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Staithes Harbour Wall Improvements

Method Statement

Introduction

The purpose of this document is to describe the Contractors proposed working method and use of plant during the construction phase in relation to works on an asset refurbishment scheme in Staithes harbour, North Yorkshire.

The Existing Structure

The harbour wall is made up of a variety of different sections of walls, built at different times using different materials and methods. Behind the wall is a combination of privately owned properties and access roads. The harbour walls directly support some of the properties in some locations, and in other locations the properties are set back slightly.

The Works

Due to the variety in forms of construction, the types of repair are varied including repairs to cracks, removal of vegetation, re-facing of concrete, re-pointing of masonry, in-filling of voids, replacement of damaged or missing masonry blocks, and replacement/repair of concrete scour protection.

Following the removal of any vegetation, mortar joints and cracks will be worked with cutting equipment to a sufficient depth to allow for hand applied repair mortar or concrete infill. Where concrete is to be poured, for example in the replacement of scour protection or where voids behind the harbour wall are present, formwork will be placed in the first instance with subsequent concrete pours only being made on the outgoing tide to maximise the time for setting of the concrete and minimise the risk of washout and subsequent pollution.

Missing, loose or new masonry blocks will be replaced by hand, temporary protection to the newly constructed sections will be provided to minimise the risk of pollution and progressive collapse of the structure.

Plant

- JBC – For loading and unloading of materials and breaking out concrete.
- Telehandler – For use as a mobile platform to access the face of the walls when working height exceeds safe limits.
- Motorised wheel barrow – For transportation of materials to the working area.
- Dumper - For transportation of materials to the working area.
- Small plant – Including drills, Circular saws & Angle grinders.



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Site Compound

The site compound will be situated within the public car park off Staithes Lane (adjacent to Tourist Information Centre) towards the top of the village.

Access

Site access and egress is restricted due to the works location and proximity of adjacent buildings. For this reason the compound will be remote from the works location to avoid congestion. The site specific plant and site personnel will access the working area at two slipways at the bottom of the village, one off Beckside and one off High Street.

Recycling

Concrete and steel will be separated and recycled where possible.

Ecology / Pollution

Measures will be taken by the Contractor to minimise the damage to existing rock outcrops and beach material by utilising plant with pneumatic tyres and accessing the working areas using the slipway access points.

All plant will be operated and maintained in accordance with the manufacturers instructions in order to minimise the emission of noise and shall not be left running unnecessarily, furthermore plant will be fitted with spill kits.

The breaking out of existing structures will be kept to a minimum to allow for each concrete pour in the next working cycle and the working area will be cleaned of all debris at the end of each working day / tide to avoid unnecessary pollution.

Safety

- Members of the public will be protected from the working areas at all times.
- Banksmen will be used to control the reversing operations of plant.
- Work activities will be kept to a minimum during the holiday season.