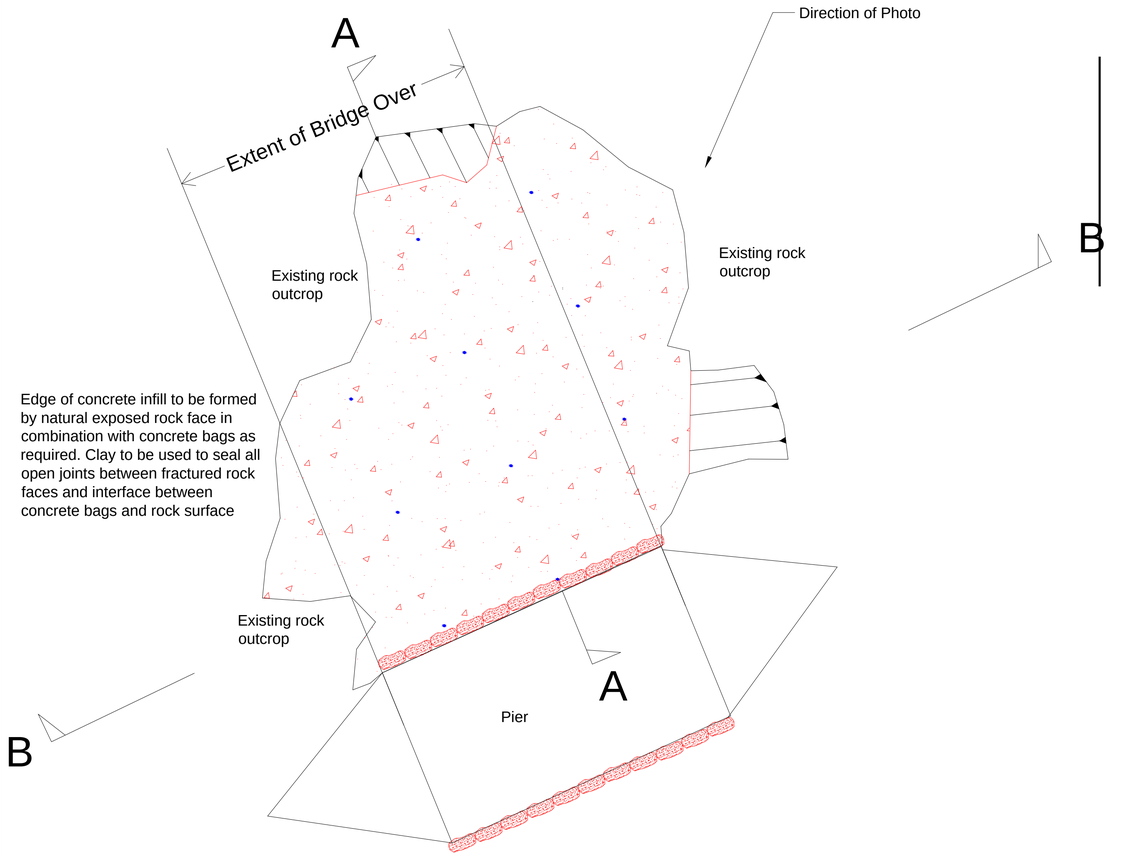
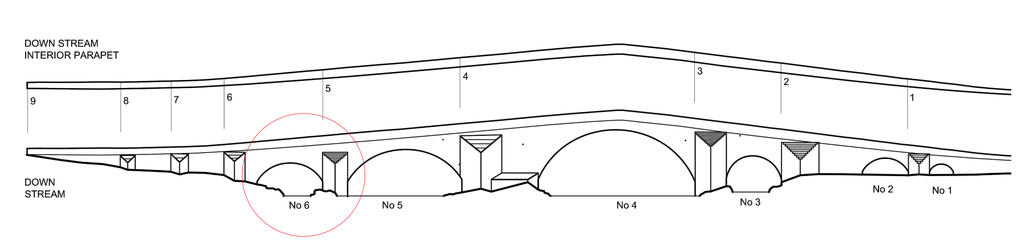
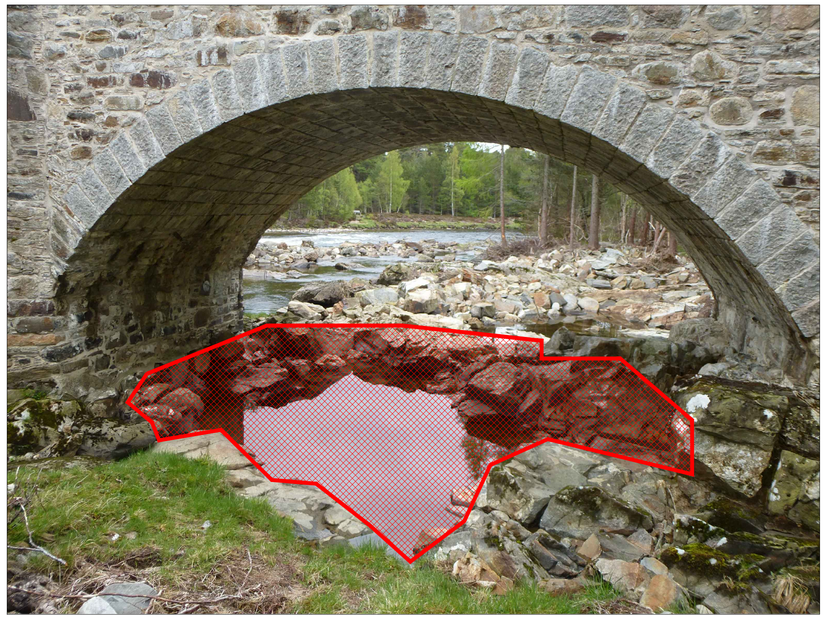


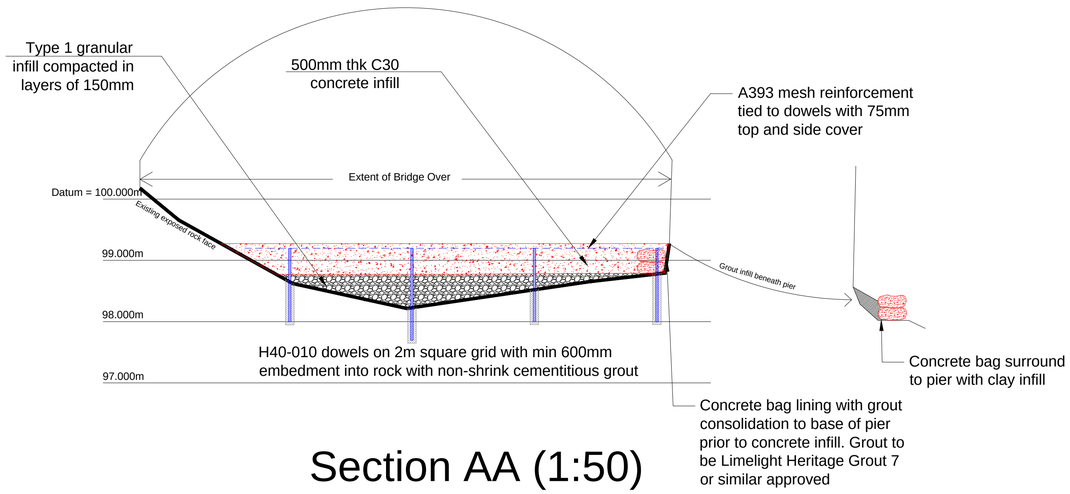
Plan (1:50)



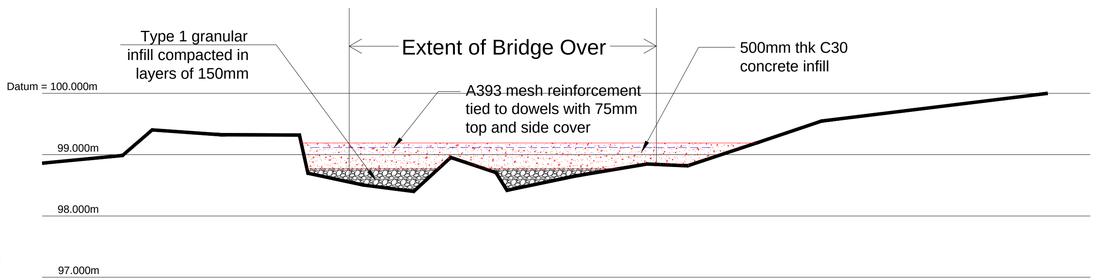
Location of Infill (NTS)



General view of area to be infilled (NTS)



Section AA (1:50)



Section BB (1:50)

Methodology:

1. Clear site from any debris / vegetation.
2. Divert water from entering beneath pier using concrete / sand bags and clay.
3. Place concrete / sand bags around pier with clay infill.
4. Pump coloured dye (water basd) beneath pier ensuring there is no leakage into river. Use clay to seal any joints.
5. Once all joints are sealed use Heritage Grout 7 to consolidate beneath pier. Allow to set.
6. Determine extent of concrete infill and provide concrete bags / sand bags / clay as required to seal all joints.
7. Pump any water out from the infill area.
8. Install dowels as shown with min 600mm embedment into rock.
9. Infill with granular material to a depth which allows 500mm concrete slab to be formed. Compact granular material in layers of 150mm.
10. Place A393 mesh with 75mm top cover and tie into dowels.
11. Pump C30 concrete mix (self levelling and/or underwater concrete may be required) into area ensuring no leakage into river (it is anticipated that the concrete truck and pump would sit on the bridge).
12. Level concrete if required and allow to cure.
13. Install cobbels over concrete area to match those beneath arches to the north end of the bridge.
14. Remove exposed concrete bags as required (note - grout beneath pier to cure for min 28days prior to removal of concrete bags).

Notes:

- Extent of concrete to be determined on site by contractor
- All concrete and grout works to be carried out under controlled conditions to prevent any contaminants from seeping into river
- SEPA to be notified immediately if contaminants are found to have entered the river

Residual Risks

1. Working in or adjacent to flowing water / potentially high flows
2. Lifting and moving of heavy rock armour
3. Working with cement and risk of contamination

Revisions:

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SMC

MONUMENT	Invercauld Bridge
PROJECT	Scour Protection Works Concrete Infill Details

HISTORIC ENVIRONMENT SCOTLAND | ÀRAINNEACHD EACHDRAIDHEIL ALBA

PROJECT DRAWING NUMBER	EDS.4.1.29/03		
SCALE	as shown @ A1	ENGINEER	Kashif Ashraf
DATE	19/07/2016	DRAWN BY	KA
ARCHIVE NUMBER			

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