

Outline Methodology

- 1 Carefully install temporary timber propping
- 2 Propping to comprising of 2no rows of scaffold boards held in position by 3 no heavy-duty 500kg M.B.S Endless Ratchet Lashing straps (or similar) around pier and scaffold boards.
- 3 Install 4no raking timbers struts 200x100 SC4 fixed to boarding and onto 100x200 ground plate fixed with ground spikes into position to secure propping
- 4 Carefully release gate from strap and lift gate and take away from site for repairs by blacksmith
- 5 Lift stone copping in two section (1 and 2) and set aside.
- 6 Carefully dismantle brickwork taking notes of bonding pattern by tracing full size on acetate sheet each layer and numbering each brick as dismantled
- 7 Clean bricks of all mortar and carefully stack al bricks in number order for reuse.
- 8 Lift and set aside shaft stone 3
- 9 Repeat dismantling of brick work (Item 6)
- 10 Lift and set aside shaft stone 4
- 11 Repeat dismantling of brick work (Item 6) Note damaged and salvage as many bricks as possible and supply replacement brick to match existing (to approved sample) for missing and damaged bricks
- 12 Leave plinth of gate pier in position
- 13 Rebuild pier to brick bond in 3.5NHL lime mortar with well graded 1:3 sand lime mix to approved sample. Brickwork rebuilt to pattern reusing bricks and imported as shown on drawing and as recorded. Re-bed 1st pier shaft stone 4
- 14 Install 4 no 12mm dia SS rods approx. 1.0M long resin bonded in position
- 15 Complete rebuild of pier to match existing
- 16 Re-bed capping stones 1 and 2. On lime mortar bed
- 17 Repair capping stone 2 with plastic stone repair with approved proprietary mix to match existing stone as agreed on site with architect
- 18 Rehang repaired and redecorated gates

Lift stone cap 1 and set aside
Lift stone 2 and set aside
Lift stone 3 and set aside

Scaffold boards

3 no. cargo straps around pier

Broken brick

REBUILD PIER TO PLINTH LEVEL

Gate to be taken down x from site and repaired as agreed with architect

Install temporary timber propping before dismantling pier and removing gate

Pin steel ground anchors

EXISTING ELEVATION OF BROKEN PIER ON EAST GATES (P5)

0 200mm 1m Scale 1:10

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Bruce Castle Museum
Title: Existing Elevation of Broken Pier at East Gates (P5)
Drawing No: 0722422/Su52 Scale 1:10 @A3