

Cobham Village Water pump wall Repairs



A brick and flint wall inclosing the historic Village pump grade II listed no 1350223

The construction reflects the mid-19th century estate craftsmanship associate with the Earl of Darnley. The wall stands entirely within the public realm and has no private land or curtilage structure attached to it, although access to the rear of the wall requires access to the private meadow behind

The wall is constructed in red brickwork in a traditional estate bond pattern consistent with mid-19th century Kentish practice. The brickwork is interspersed with flint panels forming a characteristic decorative aesthetic found in estate influenced village structures of the period.

The wall shows signs of cracking. Bulging and localised displacement. The most notable distortions occur at the northwest and northeast corners of the pump recess and at the east pillar (which has been rebuilt a lot times). Also, along the long curved flintwork section at the west end where the wall leans slightly towards the public road.

Cracks are predominantly vertical or stepped along mortar joints with minor separation between bricks in several high-level courses.

The observed movement reflects long term low-rate deformation in a historic brick and flint wall.

Repair works to pump wall.

Works to take place over 2 financial years split as below and then ongoing maintenance programme to be implemented .

Phase 1 works

General

To remove moss algae and vegetation from wall head

To remove ivy stems & organic debris from base of wall

Front wall

To remove cracked or inappropriate cement mortar by hand tools only

To repoint open or eroded joints using compatible lime mortar

Re bed loose or displaced capping bricks in lime mortar

Re-bed missing or loose flints and reinstate flint pockets using lime mortar.

Repoint disturbed joints at pump recess.

Undertake partial rebuilding of east terminal pier (photos below) ,Install Helix type stainless ties to stabilise high level brickwork if required.

Front wall Phase 1 works



Phase ii works

Side Wall

To remove cracked or inappropriate cement mortar by hand tools only

To repoint open or eroded joints using compatible lime mortar

Re bed loose or displaced capping bricks in lime mortar

Rebed missing or loose flints and reinstate flint pockets using lime mortar.



Rear pillar





Examples of cement mortar to be removed and repointed in flint panels and brickwork



