TYPICAL:
Exposed rust jacking reinforcement. Tap test existing concrete cover over each reinforcement line around perimeter to establish extent of remedial works. Carefully cut back concrete to sound steel. Treat steel with SikaTop Armatec 110 protection and make good concrete with SIKA Repair EP. Provide samples of repair mortar for approval.

Concrete face disaggregated, >7mm deep disaggregated voids to be mortar infilled and brushed back, mortar colourtexture to be sampled to match existing

3no. BRs

Concrete face disaggregated

A

6no. BRs

Disaggregated

2mm crack

1no. BRs

11no. BRs

Concrete face disaggregated

35mm gap

Recess mortar infill gap 20mm from face of existing brickwork (lime mortar to match opposite vertical crack)

TYPCIAL:
Carefully remove all fine dead vegetation growth from surface of brick/concrete

20mm gap

18no. BRs

6no. BRs

Clear debris within embrasures

Carefully rake back spalled mortar cill and apply new flaunching to falls

6no. BRs

New gravel pathway

Remove blocking to door & embrasures

Make/fit new face fixed galvanised steel frame and door

TYPICAL:
Efflorescence and vegetation staining to be lightly and carefully brushed off external surfaces of brickwork, light residue is acceptable.

20mm gap

1no. BRs

Remove mortar remains from u/s of lintel

Mortar repair existing mortar infill

23no. BRs

70mm crack

3no. BRs

Clean and wash out soil/vegetation from vertical crack, infill with vertical clay tiles typcial SPAB repair recessed from face of existing brickwork by 20mm, using a soft lime mortar.

4no. BRs

7no. BRs

1no. BRs

35mm gap

S4

25mm gap

8no. BRs

Carefully rake back spalled mortar cill and apply new flaunching to falls

S5

8no. BRs

4no. BRs

25mm gap

TYPICAL:
Carefully rake out and repoint at junction between u/s of concrete soffit and top of bricks throughout

50mm gap

Carefully cut out tree stump / root and treat to prevent re-growth

40mm crack. Level this corner lintel which has dropped if possible with temporary props prior to pinning and packing under. Avoid if significant intervention required.
TYPICAL:
Install 6 mm stainless steel threaded dowels across cracks at ~75mm c/c. Actual locations tba on site. Dowels to penetrate a min75 mm into sound and solid concrete and be set in Fischer FIS-V. Holes to be drilled with non-percussive diamond tipped drill. Dowels to be set 15mm below exposed surface of concrete and made good with approved repair mortar. Benchmark sample for approval.

21no. BRs

4mm crack

Carefully remove all ivy / vegetation from structure

11no. BRs

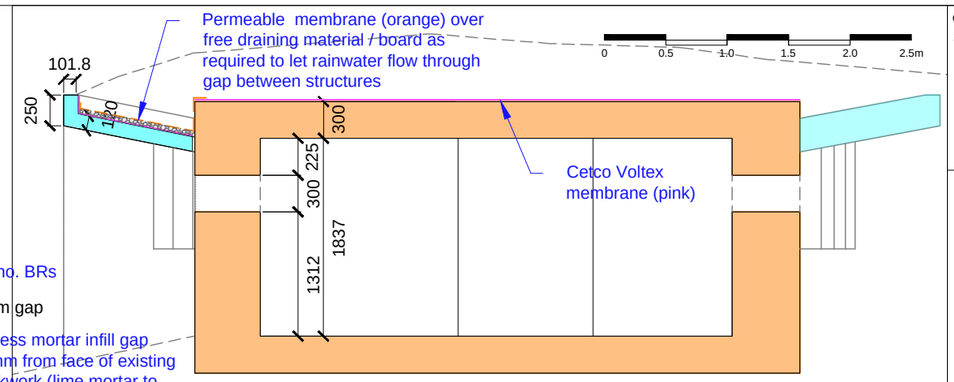
7mm crack

A

Crack previously repaired with mortar, allow resin anchors

0 0.2 0.4 0.6 0.8 1m

PILL BOX PLAN
Repairs As Proposed, 1:30



PILL BOX SECTION AA
As Proposed, 1:50

Specification Works Notes:
- Lay temporary separating layer around the Pillbox during works to ensure soft landscape features do not become degraded by the works.
- Mortar crack repairs and pointing subject to samples for agreement of mortar colour and mix prior to works being carried out.
- Whole salvaged bricks stored on site to be used for brick infills, assess quantity is sufficient and clean off hard bedding. ~133bricks identified needing replacement.
- Test location for removing individual bricks and piecing in salvaged bricks to access any over damage to adjacent full bricks, raise any concerns with MAA.
- Rebed and point with Aalborg Portland sulphate resistant cement 1:3 parts well graded sharp sand colour/character matched to existing, subject to samples.
- Edge of Cetco Voltex membrane to be concealed when earth vegetation capping is put back as previously arranged. Rubble spoils to be put back on top. Seed earth capping with 'Embankment grass seed mix' to encourage regrowth and prevent erosion of soil.
- Fill above membrane above concrete lintel extensions with free draining material sized to ensure this does not fall through gap between pillbox and lintels. Permeable membrane above free draining material to contain earth.
- Lightly brush back all internal surfaces to pillbox (floor, soffit, wall surfaces) and carry out light sponge clean.
- All window openings: Treat remains of iron frames and gun mounts. Carefully rake out and descale. Treat with Fertan rust converter followed by Rocol spray through a straw nozzle. Exposed iron not embedded in masonry to be descaled and treated with two coats of clear Waxoyl. Descaling to be with a non ferrous wire brush. Pack any void between pattress and masonry with red lead putty. Allow welded patch repairs as directed tbc.
- Drawing notes take precedence over previous Scope of Works specification, any doubts over any discrepancies raise with MAA prior to works starting.

GENERAL NOTES:
1. Do not scale from this drawing. Use figured dimensions only. Contractor to check dimensions on site prior to construction and notify CA of any discrepancy.
2. This drawing is to be read in conjunction with all other relevant contract drawings, specifications & Schedules.
3. If in doubt: Ask
4. Martin Ashley Architects shall be notified in writing of any discrepancies.

N

KEY:

Revisions in Blue

Primary Structure
Secondary addition
Remove blocking
Cracks
Resin anchor pins
Xno. BRs Brick Replacements
Cracks exposing rust jacking reinforcement

Original survey drawing from The Downland Partnership Ltd dated in October 2018.

Rev.	Date.	Reason For Issue.	Chk.
D	21.12.23	Updated Following Site Survey	KK
C	25.04.23	Drawing Status changed	KK
B	23.05.22	Drawing Status changed	AH
A	03.03.22	Drawing Status changed	AH

Status
Construction

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Client
LONDON BOROUGH OF HILLINGDON

Project
BATTLE OF BRITAIN BUNKER

Title
PHASE II
PILL BOX REPAIRS
As Proposed

Date	Scale
July 2021	1:30 @ A3
Checked By: AH	Drawn By: LG

Drawing Number: 2270/01/19
Revision: D

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