

CANNON HALL PARK

WALLED GARDEN SURVEY

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architects

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METHODOLOGY

The Walled Garden is described in List Entry no 1001159 as follows:

KITCHEN GARDEN Immediately east of Home Farm there is a garden of sub-rectangular shape walled with red brick. A gardener's house (listed grade II) is situated in the south west corner. The south wall (listed grade II with the Camellia House) has 2 arched stone entrances with ornate iron gates on each side of the Camellia House. A third opening with a similar gate is positioned midway between the other two in the rear wall of the Camellia House. There are a number of glasshouses of C20 date within the garden. The inner walls are planted with mature espaliered fruit trees, mainly pears, which include some varieties introduced in the C18 and C19. The garden is shown on Wood's plan and it was constructed during the period which followed an agreement on the costs of the work which John Spencer records in his diary in April 1760.

It appears therefore that the walled garden dates from the 1760's and is contemporary with the remodelling of the house, of the same date.

Possibly only the south wall is specifically listed, but the entire garden must be considered to be within the listed curtilage.

Survey access and repair work to the walls are restricted by the presence of a spectacular collection of espaliered pear trees – some of which are of great age.

It is unthinkable that the trees should be removed, so it will be necessary to carry out any repairs works carefully by hand

The trees should be pruned by the gardening staff immediately before carrying out the repairs, to enable access to as much wall area as possible.

Scaffolding should be in the form of light-weight aluminium towers, set out carefully to avoid damage to the trees, and with stabilising props to the pathways. It will not be practicable to tie the scaffolding into the wall. Boards should be used to avoid over-compaction of the soil in planting beds.

Matching hand-made clay bricks are to be used for cutting in to replace eroded and missing bricks.

NHL 3.5 lime or 3:1 lime putty mortar is to be used for pointing and repointing work.

Raking out is to be done carefully by hand, not using power tools, and to avoid damage to adjacent bricks. Generally only soft, crumbly mortar is to be removed.

NHL 5.0 lime mortar is to be used for bedding and pointing of coping stones.

SPECIFICATION FOR LIME MORTAR POINTING

- 1 *Lime mortar composed of 1 part lime putty: 2 parts sifted sand: 1 part sharp sand with the addition of a small amount of pale brick dust as a potzolanic agent.*
- 2 *Lime putty and sand to be mixed up to form a semi-dry mortar (course stuff and left covered and wet for a minimum of one week). Mortar is to be used fresh, and not to be knocked up for a second time.*
- 3 *Wet adjoining masonry and carry out mortar pointing to be left flat and recessed about 2mm from face of stone. Take care that no mortar is smeared onto the face of the stone.*
- 4 *After the initial set, the surface to be lightly brushed to remove laitance, and then stippled to remove sand grains and expose the grit.*
- 5 *In dry weather the mortar is to be kept wet and sheltered from the wind for at least three days after pointing.*

The survey runs clockwise from the stable yard , and is described in 10m sections of the wall, relating to the sequence of accompanying photographs. The wall length is approximately 200m in total, and the height and construction varies as described.

A full measured survey should be taken of the wall, relating to a consistent datum level.

A structural engineers report should be obtained for the bulging section at 90 to 100m.

Section	Construction	Repairs	Height of wall
0 – 10m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Two bricked up former window openings, and clay air vents.	Cut in approx. 55 matching bricks.	5130 to u/s pf coping
	Lime mortar pointing.	Repoint using NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	
10 – 20m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Bricked up former window openings, and clay air vents.	Cut in approx. 25 matching bricks.	5130 to u/s pf coping
	Lime mortar pointing.	Repoint using NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	
20 – 30m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Telegraph post at 25m. Wall slopes down to lower level from 28 to 32m.	Cut in approx. 35 matching bricks.	5130 to u/s pf coping
	Lime mortar pointing.	Repoint using NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	



WALLED GARDEN – 0 to 30m

Section	Construction	Repairs	Height of wall
30 – 40m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. 4 – 2 tapering courses of engineering brick on top of an old 65mm stone coping. Section of dislodge brickwork at foot of sloping section at 32m.	Cut in approx. 30 matching bricks. Rebuild approx. 6 courses x 0.5m length.	3500 to u/s pf coping
	Lime mortar pointing.	Repoint using NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	
40 – 50m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. 200mm step down at 42m. top of wall slopes down, then back up again.	Cut in approx. 20 matching bricks. Weedkill and remove buddleias.	3450 to u/s pf coping
	Lime mortar pointing.	Repoint using NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	



WALLED GARDEN – 30 to 50m

Section	Construction	Repairs	Height of wall
50 – 60m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Brick courses following downward slope of the ground. Bees nest beneath coping.	Cut in approx. 6 matching bricks.	3250 to u/s pf coping
	Lime mortar pointing.	Repoint using NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	
60 – 70m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Vertical joint where old gateway infilled,	Cut in approx. 6 matching bricks. Stick vertical joint through 8 courses, with matching bricks.	3260 to u/s pf coping
	Lime mortar pointing.	Repoint using NHL 3.5 lime mortar.	
	150mm deep stone copings. 3m in poor conditions.	Rebed and point using NHL 5 lime mortar. Replace 3m of matching stone copings.	



WALLED GARDEN – 50 to 70m

Section	Construction	Repairs	Height of wall
70 – 80m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Slight backward lean to wall face.	Cut in approx. 12 matching bricks.	3360 to u/s pf coping
	Lime mortar pointing.	Repoint using NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	
80 – 90m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Vertical joint through 5 courses at 83m, Outward bulge to brick facing, starting at 89m.	Cut in approx. 25 matching bricks. Stick vertical joint through 5 courses, with matching bricks.	3260 to u/s pf coping
	Lime mortar pointing.	Repoint using NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	



WALLED GARDEN 70 to 85m

Section	Construction	Repairs	Height of wall
90 – 100m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Outward bulge from 89 to 100m.	Cut in approx.5 matching bricks. Engineers report required.	3280 to u/s pf coping
	Lime mortar pointing.	Repoint using NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	



WALLED GARDEN - 85 to 100m

Section	Construction	Repairs	Height of wall
100 – 110m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. LH gate post in modern red engineering brick. Vertical joint through 15 courses at 108m.	Cut in approx. 15 matching bricks. Stitch vertical joint through 15 courses with matching brick.	3360 to u/s pf coping
	Lime mortar pointing. Cement pointing to newer brick gate post	Repoint using NHL 3.5 lime mortar. Rake out cement mortar and repoint with lime.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	
110 – 120m	Modern red engineering brick built on top of 12 courses of original brick. Wall head steps up 200mm at 120m,		2400 to u/s pf coping at RH gate pier
	Lime mortar pointing to lower 12 courses. Cement mortar pointing to new brick.	Rake out cement mortar and repoint using NHL 3.5 lime mortar.	
	Brick on edge coping – breaking up from frost action.	Replace with matching stone copings, bed and point using NHL 5 lime mortar.	



WALLED GARDEN – 100 to 120m

Section	Construction	Repairs	Height of wall
120 – 130m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face.		3650 to u/s pf coping
	Lime mortar pointing.		
	150mm concrete copings.	Replace with matching stone copings, bed and point using NHL 5 lime mortar.	
130 – 140m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face.		3400 to u/s pf coping
	Lime mortar pointing.	Repoint top 8 courses with NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	



WALLED GARDEN – 120 to 135m

Section	Construction	Repairs	Height of wall
140 – 150m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face.		3300 to u/s pf coping
	Lime mortar pointing.	Repoint 3 m2 using NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	



WALLED GARDEN – 135 to 150m

Section	Construction	Repairs	Height of wall
150 – 160m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Electric cable at 151m.		3400 to u/s pf coping
	Lime mortar pointing.	Repoint 3m2 using NHL 3.5 lime mortar.	
	150mm stone copings.	Rebed and point using NHL 5 lime mortar.	
160 – 170m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Pedestrian gate at 162 -163m.		3450 to u/s pf coping
	Lime mortar pointing.	Repoint 2m2 using NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	



WALLED GARDEN – 150 to 170m

Section	Construction	Repairs	Height of wall
170 – 180m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Electric cable at 151m.		3450 to u/s pf coping
	Lime mortar pointing.		
	150mm stone copings.	Rebed and point using NHL 5 lime mortar.	
180 – 190m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Bricked up doorway at 187 – 189m, with stone lintol and quoins left in place.		3400 to u/s pf coping
	Lime mortar pointing.		
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	



WALLED GARDEN – 170 to 185m

Section	Construction	Repairs	Height of wall
190 – 195m	Soft clay stock brickwork in varied bond, partly in English garden wall bond – suggesting a 225mm deep brick face. Swept up to 3700 at SE corner.		3400 to u/s pf coping
	Lime mortar pointing.		
	150mm stone copings.	Rebed and point using NHL 5 lime mortar.	
3m return wall	Soft clay stock brickwork in varied bond, partly in English garden wall bond. Arched gate to Pinery, with stone voussoirs. Ironwork gate (replica?)		3450 to u/s pf coping
	Lime mortar pointing.	Repoint around voussoirs using NHL 3.5 lime mortar.	
	150mm deep stone copings.	Rebed and point using NHL 5 lime mortar.	



WALLED GARDEN - 185 to 194m (SOUTH EAST END OF WALL) AND RETURN WALL TO PINERY

REAR OF GARDEN WALL ON EAST SIDE – SOUTH EAST CORNER TO VEHICLE ACCESS GATE (AT 110 - 120m ABOVE)

Section	Construction	Repairs	Height of wall
SE rear of wall	Original brick wall backed with modern wall and piers in red engineering brick. Original wall projects approx. 300mm higher than new backing wall.	Rebuild top course x 5m at 4 th bay south from vehicle gate. Re-flaunch pier head 1st bay south from vehicle gate.	3000 varies.
	Cement mortar pointing.	Repoint projecting 300mm rear of original wall using NHL 3.5 lime mortar.	
	100mm concrete copings.	Weed kill and remove numerous buddleias, Take off and rebed loose copings.	



REAR OF GARDEN WALL – SOUTH EAST CORNER TO VEHICLE GATE

REAR GARDEN WALL ON NORTH SIDE – VEHICLE ACCESS GATE TO FARM YARD

Section	Construction	Repairs	Height of wall
North rear of wall	Battered stone backing wall – assumed to be original construction. Ground rises to 1.5m below top of wall in location of bulge at 90 – 100m.		1500 varies
	Lime mortar pointing.	Repoint using NHL 3.5 mortar.	
	600 wide x 150mm deep chamfered stone copings in one piece over brickwork and stone backing.	Rebed and point using NHL 5 mortar.	
Farmyard	Same construction – but all in good condition.		1800
	Lime mortar pointing.		
	600 wide x 150mm deep chamfered stone copings in one piece over brickwork and stone backing.		
NW corner	Wall is rendered, with steel RSJ support posts.	No apparent defects.	2000



REAR OF GARDEN WALL – TO FARM YARD IN NORTH EAST CORNER

REAR GARDEN WALL ON WEST SIDE – BETWEEN THE STABLE BLOCK AND THE FARM

Section	Construction	Repairs	Height of wall
West rear of wall	Wall is completely backed by lean-to outbuildings and an open-sided stock shed. Newish lead flashings between coping and roof surfaces.	No apparent defects.	5000 approx.



REAR OF GARDEN WALL TO REAR OF STABLE YARD ON WEST SIDE