

HERITAGE NETWORK



SHENLEY WATER TOWER **Shenley, Herts.**

HN428

Historic Building Report



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Archaeological Director: David Hillelson, BA MIFA

SHENLEY WATER TOWER

Shenley, Herts.

HN428

Historic Building Record

Prepared on behalf of Fieldrise Homes Ltd.

by

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The cover photo shows an aerial view of the site from the south-east, c.2003. (Courtesy of the Robert Lombardelli Partnership)

Acknowledgements

The fieldwork for this project was carried out by Karin Semmelmann, Giles Sholl, Geoff Saunders and David Hillelson. The text and illustrations were prepared by Karin Semmelmann. The report was edited by David Hillelson.

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Summary

Site name and address:	Shenley Water Tower, Porters Park Drive, Shenley, Herts. SG8 8EF		
County:	Hertfordshire	District:	Hertsmere
Village/town:	Shenley	Parish:	Shenley
Planning reference:	TP/2000/1164	NGR:	TL 18185 01002
Client name and address:	Fieldrise Homes Ltd. Grosvenor House, 1 High St. Edgware, HA8 7TA		
Nature of work:	Redevelopment	Present land use:	Industrial buildings
Site Code:	HN428	Other reference:	n/a
Organisation:	Heritage Network	Site Director:	David Hillelson
Type of work:	Building recording	Archive location:	LMA
Start of work	21/07/2003	Finish of work	08/10/2003
Related SMR Nos:	n/a	Periods represented:	Modern
Previous summaries/reports:	n/a		

Synopsis: In response to a planning application for the conversion of the Water Tower and the demolition and subsequent redevelopment of the ancillary buildings at Shenley Water Tower, Shenley, Hertfordshire, the Heritage Network was commissioned by the developer to record the buildings.

The buildings were initially constructed in the 1930s as part of the first stage of the construction of a psychiatric hospital at Shenley. The study area housed the boilers, water tanks, electricity sub-station, bakery, smithy and fuel stores, as well as a fire engine, providing the hospital with both essential and support services. The complex has retained much of its architectural integrity and evidence for the introduction of new equipment and changes in function of several of the buildings was recorded. This evidence is considered to be representative of social, economic and technological developments in health provision during the latter half of the 20th century.

Illustrations

Each elevation is shown as first completed (1935) and as recorded in 2003. Any alterations are depicted in red.

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1. Introduction

1.1 This report has been prepared on behalf of *Fieldrise Homes Ltd.* as part of a programme of historic building recording of a complex of historic buildings at Shenley Water Tower, Potters Park Drive, Shenley, Herts (Fig.1). The planning permission for the development (ref. TP/2000/1164), granted by the Hertsmere Borough Council (HBC), was subject to a standard archaeological condition, in accordance with the provisions of the Department of the Environment's *Planning Policy Guidance Note 16* (PPG16). The scope of the required work was defined in a *Design Brief for Historic Building Recording* prepared by the *County Archaeology Office* (CAO) of Hertfordshire County Council, acting as advisers to HBC (ref. JS 04/06/03).

1.2 Shenley Water Tower and its associated buildings were constructed in the 1930s as part of the first phase of Shenley Psychiatric Hospital (Fig.2). Alterations in provision for patients in the 1980s and 1990s resulted in the sale of much of the Shenley site to property developers, and Shenley Water Tower now lies within a residential area. The site is centred on grid reference TL 18185 01002.

1.3 The present development includes the conversion of Shenley Water Tower into residential units, and the demolition of the old bakery, boiler house, workshops and other ancillary buildings (Fig.3) to allow the construction of 19 further residential units.

1.4 The aim of the project has been to record the existing fabric of the buildings prior to conversion and to place the findings in their local and regional archaeological and historical context.

2. Methodology

2.1 The present survey has been undertaken broadly in line with the Level 3 Record as defined in *Recording Historic Buildings: a descriptive specification, 3rd edition* (RCHME 1996).

2.2 A complete set of plans and elevations of the buildings in their final form prior to demolition was provided by the clients and their architects. In addition, copies of the plans and elevations as constructed were provided, and further original drawings were consulted in the London Metropolitan Archives, which holds a complete archive for Shenley Hospital. The drawn record for this project has been based on these drawings.

2.3 The photographic record was made principally on monochrome film using medium format equipment. Because of limited space and access, photographs of the interior of the water tower above ground level were taken on 35mm equipment. Additional 35mm colour transparencies were taken to supplement the record. Photographs taken by the clients and their architects have been catalogued and copies included in the project archive.

2.4 The written record has been based on observation carried out on site in the course of the field survey, supplemented by additional research using readily accessible primary and secondary sources.

2.5 The project has been carried out in accordance with the Heritage Network's approved Project Design dated July 2003. Fieldwork was undertaken between July and October 2003.

3. Historical Context

3.1 Shenley Hospital was built on the former Porters Park Estate, which is mentioned in the Domesday Survey of 1068.

3.2 The estate was bought by Middlesex County Council in 1923. The MCC wanted land for the construction of two psychiatric hospitals, one at Shenley and the other at Harperbury.

3.3 Shenley Hospital is a good example of a largely self-sufficient colony plan asylum (Fig.2). It was constructed in two phases by J. Laing and Co. and covered over 300 acres. The site included a farm, workshops and laundry as well as an operating theatre, dental surgery, X-ray rooms and 25 villas providing accommodation for the less chronic patients. The initial phase included the present site, which was completed within two years and officially opened by King George and Queen Mary in 1934.

3.4 Half of the hospital was taken over by the military during the second world war. Indeed, the hospital was used for a variety of purposes during the war years. An ARP post was established in Shenleybury Farm in July 1939, the Water Tower was used for military radio communications surveillance and the top of the tower was an ideal look out post for fire watchers. The grounds were used to exercise high-ranking German prisoners of war at the same time as British servicemen being treated within the hospital itself.

3.5 Following changes in the provision for patient care, Shenley Hospital began to be redeveloped in the 1980s. The final patients were re-housed in February 1998.

3.6 A history of the site between 1934 and 1998 was published by the NorthWest London Mental Health NHS Trust. A photocopy has been included in the archive for the present project.

4. Historic Building Record

SITE LAYOUT

4.1 Shenley Water Tower and its ancillary buildings form one of the last surviving remnants of the Shenley Hospital Complex (Fig.3). The complex is located at the top of rising ground to the north-west of the village of Shenley and the water tower has long represented a landmark which can be seen for many miles in all directions.

4.2 The ancillary buildings occupy a footprint approximately 50m square with the water tower at the centre of the complex, but set slightly to the south (Fig.4). The eastern range is occupied by the boiler house, which originally incorporated fuel stores that have now been demolished. The northern range originally included the mechanics workshop (with a tool store above), a smithy and electrical plant. The western range incorporated a workshop, fire engine house, a garage and a scullery leading into the bakery, which occupied the western end of the southern range. Also in the southern range is a free standing building originally used as a fuel store and later converted to offices.

4.3 To the north of the water tower was originally a chimney serving both the boiler house and the incinerator in the base of the water tower. This was demolished between 1987 and 1989.

4.4 The buildings are described individually in the following pages in the context of their original form and function, as described on the 1935 plans, and in the context of the latest usage as observed in the course of the present project.

WATER TOWER

4.5 The Water Tower is located within the courtyard complex, immediately west of the Boiler House (Fig.3 & Pl.1a). It stands approximately 46m (150 ft) high and, like the other buildings in the complex, is brick-built under a slate roof.

4.6 The Water Tower was originally constructed to house both the water tanks and the hospital incinerator. The incinerator, which was in the basement, was linked to the chimney by a semi-subterranean flue. The bricked in remains of this are evident in the north wall of the Tower. As the basement was only accessible by an iron ladder, the incinerator was fed from the ground floor (Figs.5&8).

4.7 The water tanks, which measured approximately 7.40 x 7.40 x 5.0m, were located on two levels towards the top of the tower (Fig.5). The water was pumped from the wellhead in Queens Way, to the south of Shenleybury House, and supplied both Shenley and Harperbury Hospitals.

4.8 Further use was made of the Water Tower during World War II, when it became a base for the Fire Watch and for military radio communications surveillance. In more recent times the Tower has provided a communications booster station for the Wellhouse Hospital Trust and a mobile communications mast for BT Cellnet. Indeed, the new mezzanine office which lies below the first water tank appears to have been used (and possibly inserted by) BT Cellnet.

Exterior

4.9 The upper floor of the Tower has three arched openings on each side, the central one of which leads onto a short balcony. The half-height iron railings in the neighbouring arches are decorated with the initials MCC (Pls.1b&3b). The arches and the frieze below the roof are all made of artificial stone.

4.10 The second tank level, which lies below the upper floor, has a clock on all but the north elevation (Figs.6&7). The clocks are flanked by a tall, narrow 5-light window on either side. Similar windows are present in the same location on the north elevation.

4.11 The first tank level has two narrow 12-light windows, one above the other, in the centre of each elevation. The relieving arch above the upper window is of brickwork. There are two further 12-light windows below this floor, neither of which have relieving arches.

4.12 The east and west elevations have two neighbouring 10-light windows in the centre of the ground floor (Fig.6), which is not the case in the other elevations. The central area in the south elevation is occupied by an arched door with an artificial stone surround (Fig.7). Narrow 5-light windows lie on either side. The same window layout is maintained in the north elevation, but here the door is replaced by semi-subterranean duct leading to a chimney that was demolished between 1987 and 1989 (Fig.7).

EAST RANGE

4.13 The Boiler House Block is now the easternmost range of the present study area. Prior to its demolition at some time between 1998 and 2003, the Boiler House was flanked by a structure housing the coal store and oil fuel tanks. The building is aligned roughly north to south and joins the Engineers Block to its north (Fig.3). It is brick built under a slate roof, with a patent ventilated roof light over the Boiler House.

Boiler House

4.14 The original drawings show that the Boiler House had a Pump Room to its south and a recently demolished structure housing oil tanks and a coal store to its east. All the doors and windows in the east elevation have now been bricked up (Fig.9).

4.15 The Boiler House is entered by a metal staircase in the north-east corner of the workshop in the Engineer's Block. To the east of the stair is a double sliding door with louvered openings in the upper section.

4.16 The walls are painted (probably white originally) and the floor is concrete, with steel plates covering the ducts. The wooden ceiling, which is also painted white, has three purlins on either side. The whole is supported by metal trusses that have been painted red (Pl.2a).

4.17 There are three original coal-fuelled and five, gas-fired replacement boilers. The original boilers, which were manufactured by Edwin Danks & Co. (Oldbury) Ltd, are located in the western half of the southern end of the room. The modern boilers, which are Seagold/CR remeha make, are located adjacent to and opposite the original boilers. A metal gantry runs along the top of the boilers on the western side of the room. This is accessed by a metal stair which lies between the last of the original boilers and the first modern one.

4.18 Most of the pipework runs behind the boilers along the western wall and dives underground below the metal staircase. Much of the pipework appears to have been associated with the ducts that lie in the south-west and north-west corners of the building (Pl.4c). Four windows light the west elevation, of which three are original (Fig.10). A window has been inserted in the centre of the elevation, where a flue and soot duct leading to the now demolished chimney were located. Whereas the original windows have three casements of six lights each, the inserted window has three casements with eight lights each.

4.19 In the south-east corner of the Boiler Room is a metal platform, which houses a water tank. In the south wall below this is an entrance with an iron gate which leads to a Switch Room.

Switch Room

4.20 The Switch Room has a tiled floor, no windows and the walls and the breeze block ceiling are also painted white.

4.21 Banks of machinery stand against the east and south walls. Although most of the machinery is electrical switch gear dating from c.1998, the first machine encountered on entering

the room appears to have been associated with water softening processes. It seems likely that the original function of the room was to house machinery of similar purpose.

4.22 An entrance at the southern end of the west wall leads into the Pump Room.

Pump Room

4.23 This is similar to the switch room in that the walls and the breeze block ceiling are also painted white, the floor is tiled and there are no windows.

4.24 The pipework that runs along the west wall of the Boiler Room continues through the Pump Room and leads to a duct in the south-west corner of the building. In front of the pipework are two concrete bases, which measure approximately 1.15m in width and 2.06m in length. A concrete upstand, which is only a few centimetres high lies in the north-east corner of the room. Although the bases and the upstand all show evidence for housing machinery, the location of the pumps is unclear.

Office

4.25 The floor above the Pump Room originally housed a store, an area for bicycles and motorbikes and a weighbridge office. The weighbridge, for which there is no remaining evidence, was located immediately south of the range. Behind the weighbridge office and store was a room of unspecified function, which contained a ramp and shelves. No evidence for the original layout and function of these rooms survives as there is now only a single room, which may have latterly served as an office. An original 18-light window was replaced at the southern end of the west elevation by a new window and door to provide direct access into this office (Fig.10).

4.26 A small door was added to the south elevation some time after 1935 drawings were completed. It is located above the eastern window and may have been associated with the weighbridge office (Fig.11).

NORTH RANGE (Engineer's Block)

4.27 Originally known as the Engineer's Block, the North Range now contains a workshop, offices, a kitchen, a store room, a locker room and a shower room (Fig.3).

Workshop

4.28 The workshop, which is two- storey height, lies at the eastern end of the range. This was originally the mechanics' workshop and was entered by two sliding doors in the south elevation (Fig.12). A workbench was located at the eastern end of the room.

4.29 The walls of the workshop are painted white, as are the steel roof trusses. The floor is plain concrete.

4.30 There are three tall 28-light windows in both long elevations and an additional 8-light window in the south elevation where a sliding door used to be (Figs.12&13). The lower part of the original windows are casements, and the upper part opens with a winding mechanism.

4.31 There are a series of buttresses in the north and south walls, which combine straight arrises in the upper part with rounded arrises in the lower part. The upper part is stepped out from the lower, and has a platform which supported RSJs which, in turn, appear to have supported a travelling crane (Fig.10).

Office

4.32 In the north-west corner of the workshop is an office, which was formerly used as an electrical workshop. The office is lit by an original 28-light window in the north wall, to the east of which is a similar buttress to those in the workshop. A north to south orientated RSJ, which supports the upper floor, rests on this buttress. The original plan shows that there was a workbench with shelving against the east wall (Fig.4). A door in the west wall leads to a cupboard under the stairs.

Upper Floor

4.33 To the west of the office is a stair leading to the first floor, which originally housed the tool store. This was not accessible during the field visits, as the door at the base of the stairs had been nailed shut.

Store Room

4.34 This room appears to have originally served as an office for the engineer (Fig.4). Some notices attached to the wall and dating from the 1990s suggest that this had been used in recent times as a store for gas cylinders and similar. It is lit by an original 28-light window in the south elevation (Fig.12). Some steps in the west wall lead up to a kitchen.

Kitchen

4.35 Although the original plan shows that this room had been intended for the engineer, it does not specify whether this was an office (Fig.4). There are two original 16-light casement windows in the south wall, one above a sink and the other above a cupboard (Fig.12).

4.36 Beyond the kitchen is a small passage with a single toilet on the other side and a door leading to the yard in the south wall. A door to the north of the toilet leads down into a switch room for the electricity substation.

Switch Room

4.37 This is an L-shaped room, with the first part having a partly quarry-tiled floor and a bricked up louvered window in the south elevation (Fig12). It is shown in the 1035 plan as having originally functioned as part of the auxiliary lighting plant (Fig.4).

4.38 The northern end of the room, which extends behind the kitchen and store room was originally the auxiliary lighting plant. It has a large open duct in the floor carrying the cables to the switch gear in the centre of the room. The original door in the north wall has now been replaced by another door, which has a short flight of stairs leading up to it, to its east (Fig13).

4.39 To the rear of this and the locker room is part of the extension housing the electricity substation that was not accessible during site visits.

Locker room

4.40 This was originally a smithy, which was accessed by a sliding door in the south elevation. This door has now been replaced by a single door and a modern window to its west (Fig.12).

4.41 The lockers are still in place, with the names of the users still on the doors. Some dated papers found on the floor indicate that this room had been used until at least March 1990. Behind the Locker Room was the electricity sub-station, which has since been extended.

4.42 A door in the northern end of the west wall leads to the shower room.

Shower room

4.43 Although the function of this room has remained fundamentally the same, a number of alterations have occurred to the fittings and the structure. Whereas it was originally accessed by a passage in the south elevation, it now has a door from the Locker Room and the passage has been converted to provide two toilets. Two small single light windows have replaced the original 6-light window in the south elevation (Fig.12). A further modern window has been added in the west wall above the basins. To the north of this is an original 6-light window, and to its south is a window of similar size, which may have been bricked up when this part of the room was converted to house urinals (Fig.14).

4.44 There are two toilets in the eastern half of the room, with the two urinals beyond them. Two modern shower cubicles lie in the northern part of the room opposite the urinals. Basins and windows are located against the west wall.

Substation

4.45 The former substation, which lay behind the smithy, has been extended in recent times and the original door in the north wall has been blocked. There are two doors in the north elevation of the extension, a further single door in its east elevation and a two-light window in its west elevation (Fig.13).

WEST RANGE

4.46 The west range consists of an open-fronted garage in the centre, with a workshop to its north, beyond which is a room of uncertain function, referred to here as the Old Workshop. South of the garage is a passageway leading to a kitchen, washroom and a scullery which provides access to the former bakery (Fig.3).

Old Workshop

4.47 The Old Workshop originally had a sliding door in the east wall, a 16-light window in the west wall with a workbench below it and an inspection pit in the centre of the floor. The door has been replaced by a modern window, which could not be inspected as it is now protected by plywood on the outside and the room is inaccessible. The window in the west elevation has been replaced by a 5-light window in a metal frame. Although it is clear from the original plans that a door has been inserted into the north elevation, it is not certain whether the window has been replaced, as is suggested by the addition of the concrete lintels (Figs.15-17).

4.48 Although this room could not be accessed, some of it was visible from the window in the west wall. The room is partitioned off at the eastern end by a screen with a door and windows.

4.49 In front of the screen are two benches, one on either wall. A possible metal (?) suspended ceiling appears to have been inserted at a later date. Its present appearance suggests that this may have been used most recently as a mess room.

Workshop

4.50 This was originally the fire engine house and had sliding doors in both the east and west elevations (Figs.15&17). Although that in the east elevation has survived, the sliding door in the west elevation has been replaced by a window similar to that in the west elevation of the Old Workshop. A blocked door in the south wall leads into the open fronted garage.

4.51 There are now workbenches with built in cupboards set against three of the walls inside the workshop and a possible hot air blower is suspended from the ceiling in the centre of the room.

Open fronted garage

4.52 The east elevation, which originally had metal shutters, is supported by three piers (Fig.15). The walls and ceiling are painted white, but the steel roof trusses, which are similar to those in the bakery and the workshop in the Engineer's Block, are unpainted. Four 16-light windows remain in the west elevation (Fig.17)

Kitchen

4.53 The kitchen was originally part of the Bakery and appears from the original plan to have housed the ovens (Fig.4). It is accessed by a door at the end of the passage south of the garage. It has a concrete floor and white walls, with white glazed tiles over the sink, which is located

against the west wall. Above the sink is a replacement window, which has a metal frame and five tall lights with smaller ones above (Fig.17). There is a trap in the ceiling to a loft space.

4.54 The room has been partitioned in recent times to provide a separate walk-in cupboard to the north of the kitchen. The sign on the door suggests that this may have housed electrical switch gear.

Walk-in cupboard

4.55 The only feature of note is a 9-light sash window in the east wall which separates the cupboard from the wash room.

Wash room

4.56 This room, which has not changed function, is entered by a door in the north wall of the passage. The eastern end of the room is now subdivided to provide a toilet and a urinal, each of which is lit by half of the 12-light window (Fig.15). Washing facilities are on the north wall.

Scullery

4.57 Opposite the wash room is the former scullery, which leads into the Old Bakery. All the walls are tiled with white glazed tiles to the height of the top of the door.

4.58 There is an original 24-light window in the east elevation (Fig.15) and a door into the bakery in the south wall. The west wall consists of a range of tall, but shallow cupboards.

SOUTH RANGE (Bakery Block)

4.59 The south range contains the Old Bakery beyond which is an office at both ground and first floor levels. A recent extension to the eastern end of the block has provided further office accommodation (Fig.3).

Bakery

4.60 The walls are glazed to the height of the top of the door, and then painted white. The roof trusses are similar to those in the open-fronted garage and the workshop in the Engineer's Block, and are painted white, as is the wooden ceiling above.

4.61 The bakery is lit by two original 28-light windows in the north elevation and another in the south elevation (Figs.18&19). A 24-light window of possible similar date is located in the west elevation above a sliding door with a metal "elevator style" shutter. Although the features in the west elevation appear to be from the 1930s, the brickwork clearly shows that the door at least is a later addition (Fig.20).

4.62 The bakery initially had a door in the east wall leading to the cooling room. This has now been blocked.

4.63 The south elevation has undergone considerable alteration (Fig.18). Two of the original 28-light windows have been replaced by a sliding door and the original sliding door has been replaced by a single door. The original window at the western end of the elevation has also been replaced by a single door. Between this door and the end of the external wall is an area that has been painted, and within this the outer skin of brickwork has been removed. An undated photograph supplied by the clients' architects shows that there was an extension to the west of the original window, which has now been demolished (Plate 3).

4.64 The Bakery gives every appearance of having been last used as a mechanics workshop. The workbench, which runs along the north wall, has a number of vehicle parts in and on it, and a machine base is now set into the floor.

Partitioned office

4.65 This was originally the cooling room with a staircase in the north-west corner. The original sliding door and 28-light window in the south elevation have been replaced by a single door and a 12-light window set in a metal frame (Fig.18). This window may be a second replacement as the relieving arch above it is too low to have been over the original window. A 16-light casement window in a metal frame has been inserted into the north elevation (Fig.19). Below this is a basin set into the recess under the stairs.

4.66 This room is now been divided by a part-glazed partition, which runs from east to west, and has a central door. In front of the partition is a large counter.

First floor office

4.67 This originally was the flour store, as is suggested by the numerous air vents and the first floor door with an external winch.

4.68 The wooden ceiling is painted, as are the walls and there is rubber flooring. There is a double door in the gable end, the lower part of which has been bricked up (Fig.21). A series of three stretchers on top of each other are placed at regular intervals around the double door. There are six in total on either side of the apex, and externally it can be seen that these were once air-bricks. A modern air vent is located over the double doors. Five further air vents are located in the south wall.

Reception

4.69 This is entered by a door in the north wall and lies in an extension to the bakery block (Fig.19). Next to the door is a part glazed partition. There is a 4-light window east of the door, and a 6-light window in the east wall. A part-glazed door in the south wall leads into a rear office, and an opening in the west wall leads into the partitioned office.

Rear office

4.70 There is a built in cupboard in the south wall and a modern window to the left of this (Fig.18).

SOUTH RANGE (Works Office)

4.71 This was originally an open-fronted structure serving as a general fuel store (Fig.4). It was converted in the 1980s to provide more office accommodation (Fig.26). Although much of the west elevation is original, the remaining elevations show evidence for rebuilding.

East Elevation (Fig.22)

4.72 This was truncated by two bays at the same time as the eastern part of the Boiler House was demolished. The elevation as it now stands has a door in the centre of the wall on the ground floor, and another at first floor height, which appears to be set within a metal door-frame. This has been added onto an original roof truss.

North Elevation (Fig.23)

4.73 The north elevation, which was originally open-fronted, has seen at least one phase of alteration. In the centre of the wall are a door and window set under a section of decorative weatherboarding. To the west of the door are two further windows, and another two are located at the eastern end of the building.

4.74 The concrete lintels over three of these windows extend far beyond the windows themselves, which suggests that these windows replace larger ones that were incorporated in the original construction of this wall. This is further indicated by the different brickwork between the windows and the edge of the lintel.

West Elevation (Fig.24)

4.75 There are now two windows in the west elevation, the eastern one of which is below a long concrete lintel. The same process appears to have taken place here, where a larger window was initially inserted, to be replaced by a smaller one at a later date.

South Elevation (Fig.25)

4.76 The south elevation was originally devoid of any openings. It now has a door in the centre, with a large window on either side. Another, smaller window is present at the eastern end of the building.

4.77 Above the door and windows are four concrete lintels with different brickwork below them. It appears that these may have been windows that were subsequently bricked up.

4.78 Apart from the bricked up windows, the wall is largely constructed from the same type of bricks as the rest of the complex. There is, however, an area to the east of the range, from the door onwards, where the wall was either rebuilt or repointed. Headers have been added where they had originally been omitted to provide venting.

Interior (Fig.26)

4.79 The interior has been subdivided to form office space.

5. Discussion & Conclusion

5.1 The complex was originally constructed to provide both essential and support services for Shenley Hospital. The buildings supplying the essential services such as power, heat and water have remained little altered until recent times, and the alterations that have occurred appear to have been largely due to technological and economic changes since the second world war. The former is exemplified admirably in the secondary use of the water tower, where it was used for communications surveillance during the war and most recently as a mobile phone station for BT Cellnet.

5.2 Apart from the insertion of the BT Cellnet station in the water tower and the extension of the electricity sub-station, the technological advances are largely more evident in the replacement or removal of equipment, such as the boilers, rather than in structural modification.

5.3 This, however is not the case with the buildings housing the support services, such as the bakery, smithy and fire engine house. The conversion of the general fuel store to works offices is a case in point. As the fuel source for the boilers was changed, so the store became redundant and was put to better use. This applies equally to the smithy and the fire engine house.

5.4 The structural and functional changes in the buildings were not, however, simply due to improved technology. Economic developments and revisions in social care have also impacted on the site. Although close dating has not been possible for some of the alterations, the cost-effectiveness of maintaining an on-site bakery for an institution that was being scaled down may well explain its change in function to a mechanics workshop. The demolition of the chimney in the late 1980s may also be linked to the socio-economic climate of the times; the maintenance of a structure made redundant through technological advances and the changing provisions for medical care proving uneconomic.

5.5 Whilst the Shenley Water Tower complex has retained much of its architectural and some of its functional integrity, the present study has shown the complex to be a microcosm of social, economic and technological developments of the latter half of the 20th century, the further analysis of which is sadly beyond the scope of this report.

6. Schedule of Site Visits

Date	Staff	Hours	Comments
21/07/03	KS&GS	13	Take medium format photographs & building recording
21/07/03	DJH	5	Take medium format photographs
22/07/03	DJH&GS	14	Take medium format photographs
08/10/03	KS&GIS	9	Building Recording
22/10/03	KS&DJH	5	Recording buildings inaccessible on 08/10

7. Sources Consulted

Location: London Metropolitan Archive			
Description of Work	Contractor	Dates	Call No.
Key to Hospital layout		1987	H49/SHY/P/01/001
Adaptation of hangars	C. Miskin & Sons	1928	MCC/CL/L/CON/02/03006
Erection of 1st portion	J. Laing & Sons	1929	MCC/CL/L/CON/02/03782
Erection:section B	J. Laing & Sons	1932	MCC/CL/L/CON/02/03913
Erection:section 2	J. Laing & Sons	1935-6	MCC/CL/L/CON/02/04488
Alterations to garage & stable block	C. Miskin & Sons	1933	MCC/CL/L/CON/02/03926
Boiler House:section E	Comyn Ching & Co.	1934	MCC/CL/L/CON/02/04162
Erection of 2nd section	J. Laing & Sons	1935-6	MCC/CL/L/CON/02/04488
NW of site D# WO37/4.3		1985	H49/SHY/P/01/004
N of site D# WO37/5.2		1985	H49/SHY/P/01/007
Model room layout D# 4C(I)/8		1970	H49/SHY/P/01/008
Schedule		1987	H49/SHY/P/01/009
General Layout		1935	H49/SHY/P/01/012
Shenley Hospital & Harperbury Hospital		19--	H49/SHY/P/01/014
Institutions at Shenley & Napsbury		1920	H49/SHY/P/01/015
Layout		19--	H49/SHY/P/01/016
Existing site plan		1940	H49/SHY/P/01/017
Porters Park before the hospital		1925	H49/SHY/P/01/018
Site Plan		1987	H49/SHY/P/01/019
Propose layout for Harperbury & Shenley		19--	H49/SHY/P/01/020
Layout		1940	H49/SHY/P/01/021
Layout (Proposed scheme not as built)		1940	H49/SHY/P/01/022
Site Phases 1-4		1987	H49/SHY/P/01/023
Site plan		1972	H49/SHY/P/01/026
Site plan Drg 2 of 7		1985	H49/SHY/P/01/031
Site plan Drg 3 of 7		1985	H49/SHY/P/01/032
Site plan Drg 4 of 7		1985	H49/SHY/P/01/033
Site plan Drg 5 of 7		1985	H49/SHY/P/01/034
Site plan Drg 7 of 7		1985	H49/SHY/P/01/035
Site plan Drg 1 of 7		1985	H49/SHY/P/01/036
Site survey Drg.2		1989	H49/SHY/P/01/037
Site survey Drg.3		1989	H49/SHY/P/01/038
Site survey Drg.4		1989	H49/SHY/P/01/039

Location: London Metropolitan Archive			
Description of Work	Contractor	Dates	Call No.
Engineers Yard: Block H10			
Boiler house & Bakery		1930	H49/SHY/P/01/138
Boiler house & Bakery with additions		1930	H49/SHY/P/01/140
Boiler house & Bakery Elevations		1930	H49/SHY/P/01/142
Boiler house & Bakery Sections		1930	H49/SHY/P/01/144
Boiler house & Bakery Roof plan		1930	H49/SHY/P/01/145
Boiler house & Bakery Foundation plan		1930	H49/SHY/P/01/147
Unit works office		1988	H49/SHY/P/01/148
Boiler House: Block 11			
Proposed upgrading of mess room		1981	H49/SHY/P/01/149
Layout of new heating boiler plant		1984	H49/SHY/P/01/151
Schematic layout of Steam Boiler Plant		1984	H49/SHY/P/01/152
Layout of steam plant		1984	H49/SHY/P/01/153
Tanks in Water Tower		1930	H49/SHY/P/01/155
Water Tower & Incinerator		193-	H49/SHY/P/01/157
Water Tower detail of S. Front		193-	H49/SHY/P/01/158
Water Tower		193-	H49/SHY/P/01/159
New Incinerator		1967	H49/SHY/P/01/160
Proposed upgrading of Gas Bottle Store		1987	H49/SHY/P/01/161
Chimney shaft		193-	H49/SHY/P/01/163
Proposed new oil store		193-	H49/SHY/P/01/363
Engineers Yard			
Installation of generator & services		1973	H49/SHY/P/01/167

8. Bibliography

Dearden, R. 1998. *Shenley Hospital 1934-1998* North West London Mental Health NHS Trust

Garwood, A. 1999. *Essex Hospitals 1800-1948: a study of their history, design and architecture* Essex County Council

RCHME. 1996 (3rd ed). *Recording Historic Buildings: a descriptive specification*

Semmelmann, K. 2003. *Shenley Water Tower Project Design: Historic Building Recording* The Heritage Network

Appendix 1: Photographic Record

Roll No.	Photo No.	Description	Facing
1	1	Boiler House: roof truss	
	2	Boiler House: roof truss detail	
	3	Boiler House: gas fired boiler	SW
	4	Boiler House: gas inlet pipes	E
	5	Boiler House: gas inlet pipes	E
	6	Boiler House: water tank	SE
	7	Boiler House: roof truss from gantry	N
	8	Boiler House: boiler plaque	W
	9	Boiler House: gate to switch room	S
	10	Engineer's Block: workshop window & buttress detail	SE
	11	Engineer's Block: door to office	NW
	12	Old Bakery: mechanics fitting	
2	1	Boiler House: general shot facing south	S
	2	Boiler House: general shot facing south	S
	3	Boiler House: pipework detail	W
	4	Boiler House: original boilers	NW
	5	Switch Room: general shot facing south	S
	6	Switch Room: plant	W
	7	Plant Room: general shot facing west	W
	8	Plant Room: general shot facing east	E
	9	Plant Room: general shot facing west	W
	10	Workshop: general shot facing east	E
	11	Workshop: roof	
	12	Workshop: general shot facing north-east	NE
3	1	Engineer's Block: office facing north-east	NE
	2	Engineer's Block: store facing north-west	NW
	3	Engineer's Block: kitchen facing west	W
	4	Engineer's Block: switch room facing south	S
	5	Engineer's Block: locker room facing north-west	NW
	6	Shower Room: general shot facing south	S
	7	Shower Room: general shot facing north	N
	8	West Range: workshop interior facing west	W
	9	West Range: workshop interior facing west	W
	10	Garage facing north-west	NW
	11	West Range: kitchen facing east	E
	12	West Range: kitchen facing west	W
4	1	West Range: kitchen cupboard facing east	E
	2	Scullery facing south-east	SE
	3	Scullery facing south	S
	4	Old Bakery facing north-east	NE
	5	Old Bakery facing north-east	NE
	6	Old Bakery facing south-east	SE

Roll No.	Photo No.	Description	Facing
	6	Old Bakery facing south-east	SE
	7	Old Bakery facing south-east	SE
	8	Old Bakery facing north-west	NW
	9	Old Bakery facing north-west	NW
	10	Reception facing north-west	NW
	11	Reception facing west	W
	12	Rear office facing south-west	SW
5	1	Partitioned Office: front area facing west	W
	2	Partitioned Office: front area facing west	W
	3	Partitioned Office: front area facing south-west	SW
	4	First Floor Office facing north-east	NE
	5	First Floor Office facing south	S
	6	Complex from the south-east	NW
	7	Water Tower: south elevation	N
	8	Water Tower: south elevation	N
	9	Works Office facing north-east	NE
	10	Works Office facing north-east	NE
	11	Reception & Old Bakery from the north-east	SW
	12	Reception & Old Bakery from the north-east	SW
6	1	Water Tower from the bridleway	
	2	Water Tower from the bridleway	
	3	Water Tower from Potters Bar Lane	
	4	Water Tower from Potters Bar Lane	
	5	Works Office: east elevation	W
	6	Boiler House: south & east elevations	NW
	7	Boiler House: east elevation	W
	8	Boiler House: east elevation	W
	9	Engineer's Block: north elevation	S
	10	Engineer's Block: north elevation	S
	11	Complex from the south-east	NW
	12	Water Tower: south elevation	N
7	1	Top of the Water Tower from the south	N
	2	South Elevation: clock & windows	N
	3	Tower window details from the south	N
	4	Top of the Tower detail from the south	N
	5	Boiler House from the north-east	SW
	6	North-east corner of the complex	SW
	7	Electricity Sub-station: north elevation	S
	8	Engineer's Block: north elevation window detail	S
	9	Boiler House: south elevation	NE
	10	Boiler House: south elevation	N
	11	Water Tower: door detail	N
	12	Works office from the north-west	SE
8	1	East end of the Old Bakery Block	W
	2	Water Tower: base of the north elevation	S
	3	Old Bakery Block: north elevation	S

Roll No.	Photo No.	Description	Facing
	4	Water Tower: base of the north elevation	S
	5	Water Tower: base of the north elevation	S
	6	North-east corner of the courtyard	NE
	7	Boiler House: west elevation	E
	8	Engineer's Block: south elevation	NW
	9	North-east corner of the courtyard	NE
	10	Water Tower: base of the west elevation	E
	11	No right turn sign	
	12	West Range: door to the Old Bakery	SW
9	1	Garage from the south-east	NW
	2	North-west corner of the courtyard	NW
	3	Courtyard from the south-west	N
	4	Courtyard from the south-west	N
	5	West Range: east elevation	SW
	6	Engineer's Block: west elevation	SW
	7	West Range: northern end	SW
	8	West Range: northern end	SW
	9	West Range: southern end	NE
	10	South-west corner of the complex	NE
	11	West Range: workshop interior facing east	E
	12	West Range: workshop interior facing east	E
10	1	Engineer's Block: south elevation fire alarm detail	N
	2	Engineer's Block: south elevation louvred window detail	N
	3	Engineer's Block: south elevation window detail	N
	4	Engineer's Block: south elevation door detail	N
	5	North-east corner of the complex	NE
	6	North-east corner of the complex	NE
	7	Water Tower from the north-west	SE
	8	Water Tower: west elevation	E
	9	Water Tower: pipework in the south-east corner	E
	10	Water Tower: pipework detail	E
	11	Water Tower: pipework in the north-east corner	NE
	12	Water Tower: stair	SE
11	1	Water Tower: stair	SE
	2	Water Tower: pipework in the south-east corner	E
	3	Water Tower: pipework in the south-east corner	E
	4	Water Tower: south-west corner	SW
	5	Water Tower: south-west corner	SW
	6	Water Tower: north-west corner of the BT machine room	NW
	7	Water Tower: south-east pipework from mezzanine	E

Roll No.	Photo No.	Description	Facing
	8	Water Tower: south-east pipework from mezzanine	E
	9	Water Tower: south-east pipework from mezzanine	E
	10	Water Tower: south-east pipework from mezzanine	E
	11	Water Tower: upper level of spiral stairs	
	12	Water Tower: upper level of spiral stairs	
12	1	Old Workshop: interior shot facing east	E
	2	Old Workshop: interior shot facing east	E
	3	Old Workshop: interior shot facing east	E
	4	Water Tower: tanks & mezzanine from the south	
	5	Water Tower: tanks & mezzanine from the south	
	6	Water Tower: tanks & mezzanine from the south	
	7	Water Tower: mezzanine room	
	8	Water Tower: spiral staircase from the east	W
	9	Water Tower: spiral staircase from the east	W
	10	Water Tower: spiral staircase & stair to mezzanine	W
	11	Water Tower: spiral staircase & stair to mezzanine	W
C1	1	Water Tower: corner of balcony floor	
	2	Water Tower: corner of balcony floor	
	3	NE corner of the yard from the Water Tower	NE
	4	NE corner of the yard from the Water Tower	NE
	5	NE corner of the yard from the Water Tower	NE
	6	West Range from the Water Tower	W
	7	West Range from the Water Tower	W
	8	West Range from the Water Tower	W
	9	Boiler House roof from the Water Tower	E
	10	Boiler House roof from the Water Tower	E
	11	Boiler House roof from the Water Tower	E
	12	Balcony level iron railing detail	
	13	Balcony level iron railing detail	
	14	Balcony level iron railing detail	
	15	Corner detail of the Water Tower ceiling	
	16	Corner detail of the Water Tower ceiling	
	17	Corner detail of the Water Tower ceiling	
	18	Water Tower:arch detail on Balcony Floor	
	19	Water Tower:arch detail on Balcony Floor	
	20	Water Tower:arch detail on Balcony Floor	
	21	Water Tower:arch detail on Balcony Floor	
	22	Water Tower: balcony detail	
	23	Water Tower: balcony detail	
	24	Water Tower: balcony detail	
	25	Water Tower: tank	
	26	Water Tower: tank	
	27	Water Tower: tank	
	28	Water Tower: tank	

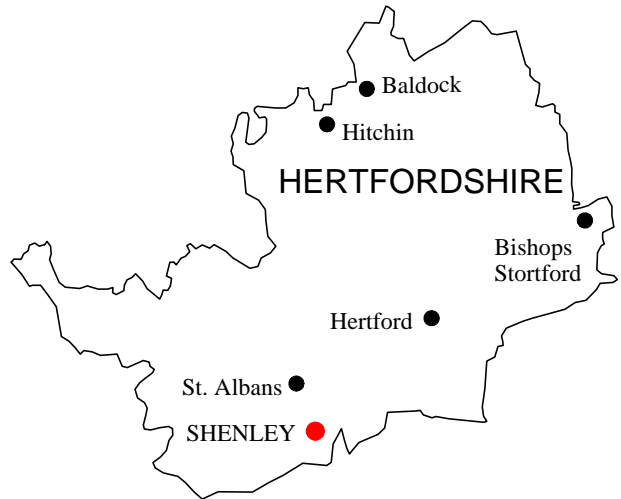
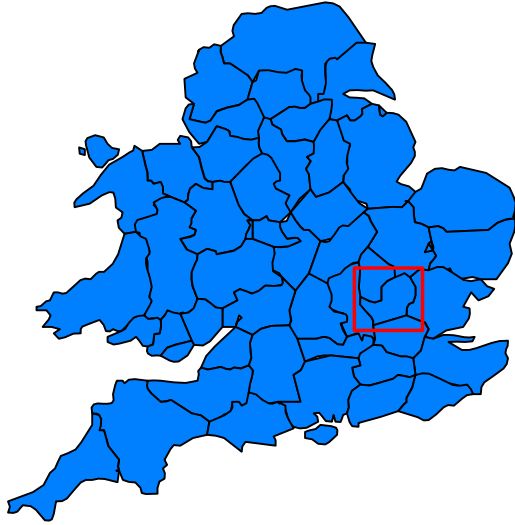
Roll No.	Photo No.	Description	Facing
	29	Water Tower: tank	
	30	Works office and Water Tower	NW
	31	Works office and Water Tower	NW
	32	Works office and Water Tower	NW
	33	Works office and Water Tower	NW
	34	Water Tower: Entrance	N
	35	Water Tower: Entrance	N
	36	Water Tower: Entrance	N
	37	Water Tower from Shenleybury	

The archive also contains a CD of digital photographs courtesy of Andrew Hayward of the Robert Lombardelli Partnership (see Appendix 2).

Appendix 2: Client's Photographic Catalogue

Photo no.	Description	Facing
1	Boiler detail	W
2	Replacement boilers	NW
3	Boiler House: roof truss	
4	Boiler House: general shot	S
5	North Range: S elevation of workshop	NE
6	Northeast corner of the yard	NE
7	Water Tower	E
8	Water Tower	E
9	Interior detail of Water Tower roof	
10	Interior corner shot of Water Tower roof	
11	As above but also showing the arches	
12	View from the Water Tower	
13	View from the Water Tower	
14	View from the Water Tower	
15	View from the Water Tower	
16	View from the Water Tower	
17	View from the Water Tower	
18	View from the Water Tower	
19	View from the Water Tower	
20	Interior view of the arches in the Water Tower	W
21	View from the Water Tower	
22	View from the Water Tower	
23	View from the Water Tower	
24	View from the Water Tower	
25	Works Office from the Tower	SE
26	Works Office & E. end of Bakery from Tower	S
27	NW corner of the yard from the Tower	NW
28	SW corner of the yard from the Tower	SW
29	NW corner of the yard	NW
30	NE corner of the yard	NE
31	Works Office: S elevation from the Water Tower	S
32	Boiler House roof from the Tower	NE
33	?Water Tank	
34	?RSJ	
35	?	
36	?Water tank	
37	Water tank	
38	?Water tank	
39	Internal shot of the Water Tower	W
40	Internal shot of the Water Tower	SE
41	General shot of the Boiler House	S
42	Boiler detail	
43	Boiler House: stairs to workshop	W
44	Open-fronted Garage	SW

Photo no.	Description	Facing
45	Old Bakery: N elevation	S
46	NE corner of the Water Tower	SW
47	NW corner of the yard	NW
48	S elevation of the East Range	NE
49	N elevation of the Works Office	SW
50	View from the Water Tower	
51	Water Tower: balcony	
52	Water Tower: balcony	
53	Water tank detail	
54	Water tank detail	
55	SE corner of the Water Tower	SE
56	Water Tower: ground floor from spiral stairs	E
57	Water tank viewed from below	
58	Water Tower: pipework detail	SE
59	Spiral staircase	W
60	Water Tower: door arch detail	SW
61	Boiler House: SE end	NW
62	Works Office: E elevation	E
63	Boiler House: E elevation	NW
64	Boiler House: NE corner	SW
56	Boiler House: N end of E elevation	SW
66	Aerial view of the complex	NE
67	Water Tower	N
68	E elevation of Bakery & Water Tower	NE
69	E elevation of Boiler House & Water Tower	NE
70	S end of Boiler House & Water Tower	NW
70	View from hospital entrance	
72	S&E elevations of Works Office & Water Tower	NW
73	General shot of the complex	SW



TL 03



TL 02

TL 17

TL 18

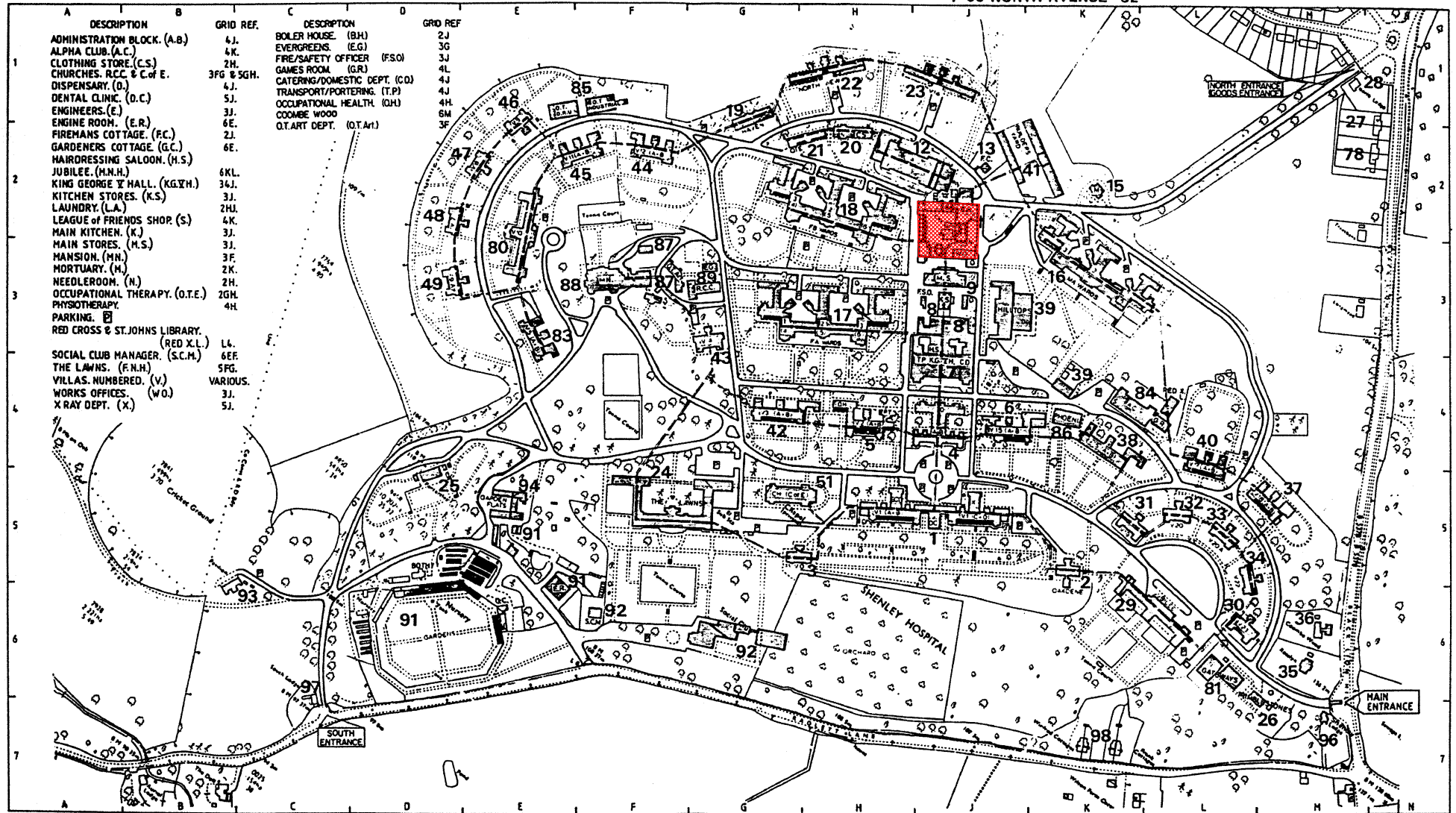
Site location

Scale 1:12500

SHENLEYBURY FARM COTTAGES 99
 WELL AND PUMP HOUSE 79
 1-18 QUEENSWAY 82
 1-60 NORTH AVENUE 52



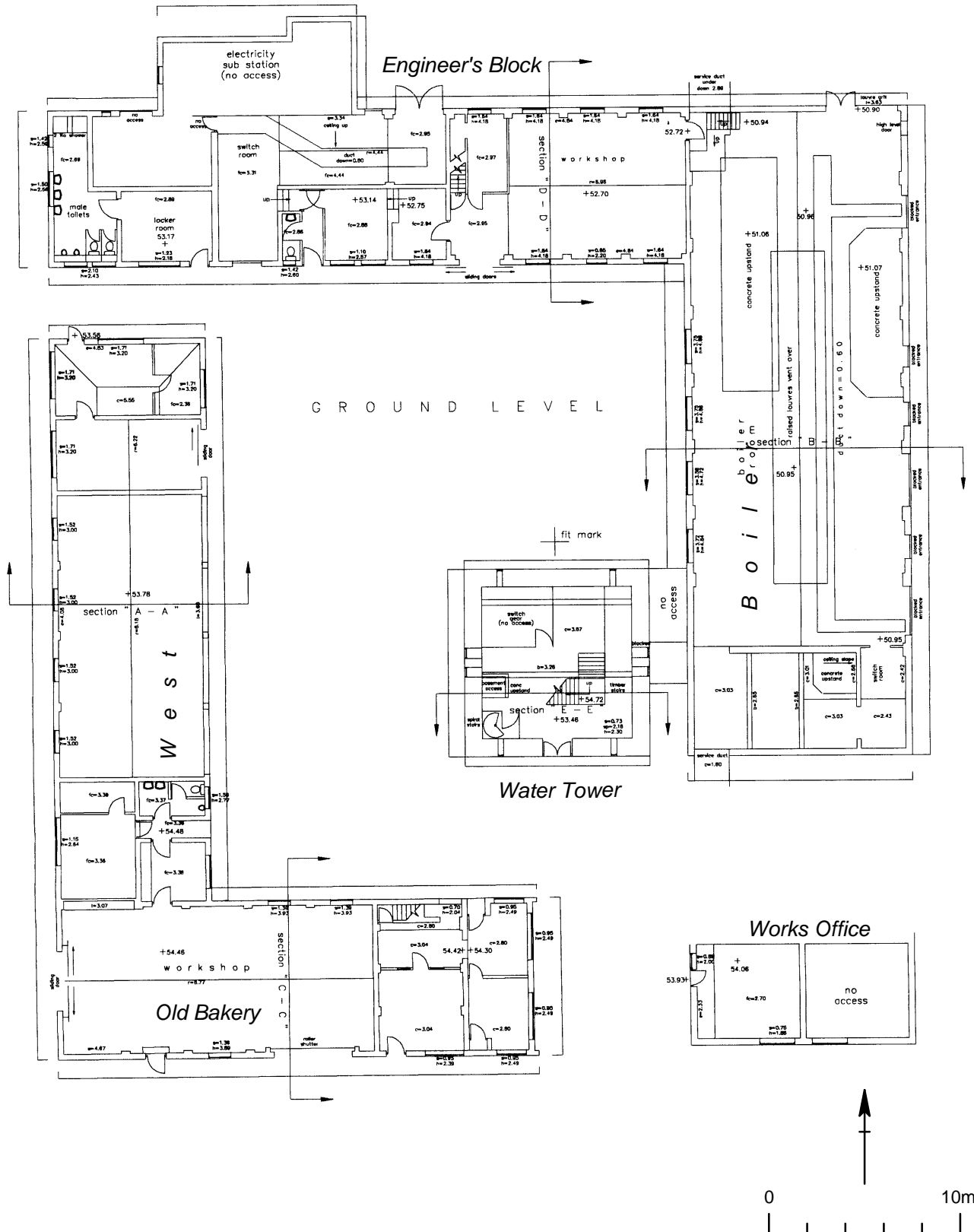
Study area



Hospital layout (1987)
 (Courtesy of the London Metropolitan Archive)

Scale 1:5000

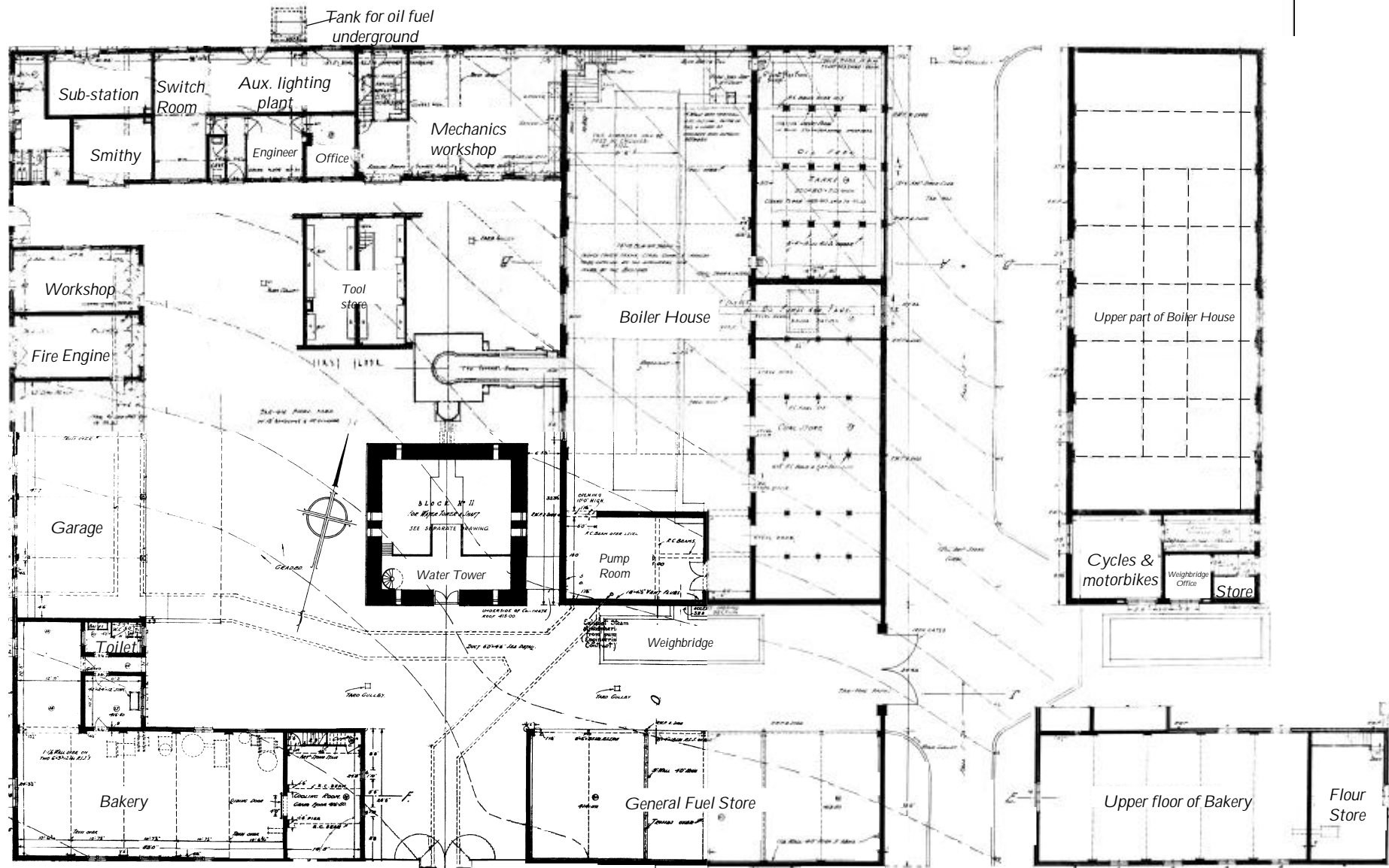
Figure 2



Site layout
(Courtesy of Derek Dredge Architects)

Scale 1:300

Figure 3

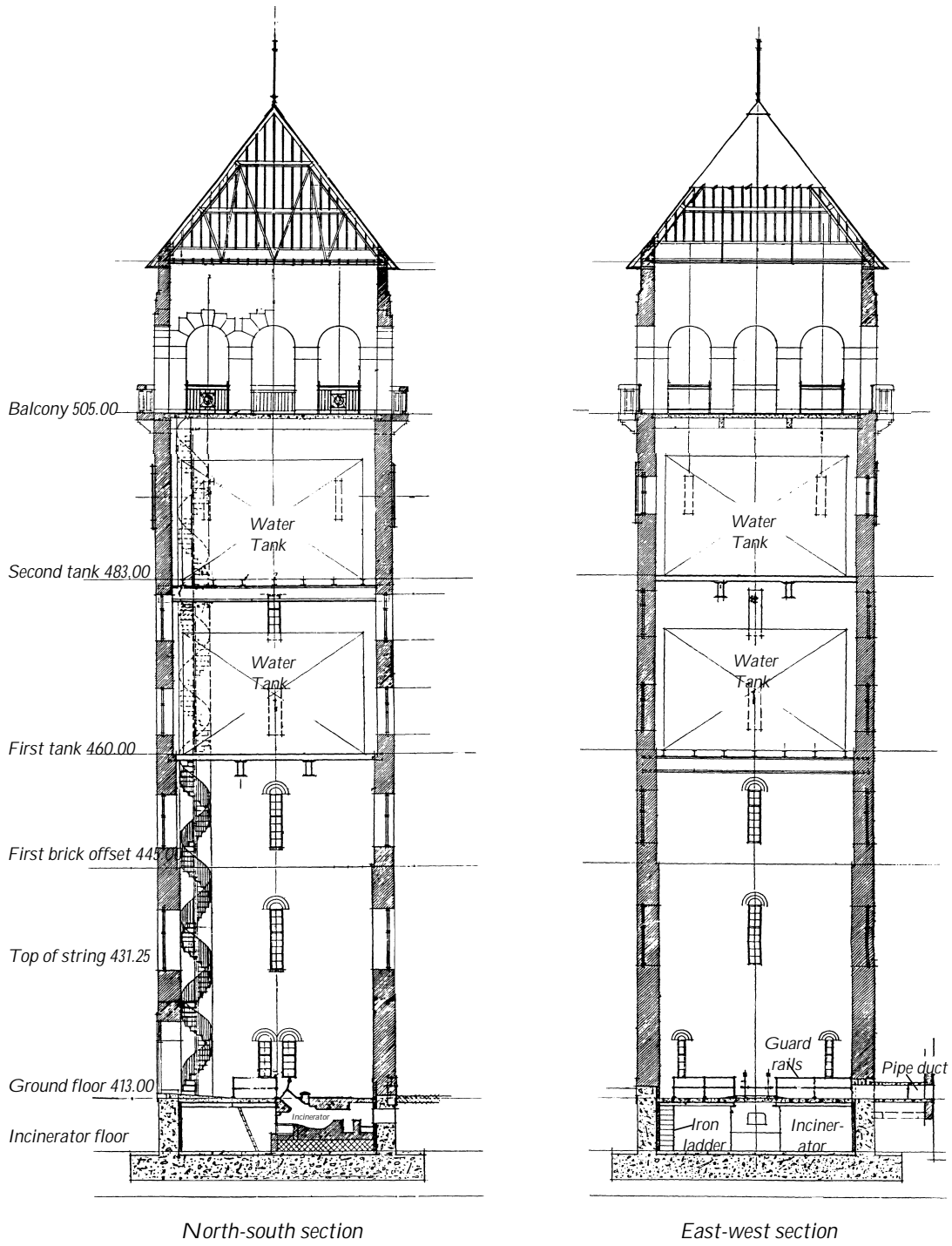


1935 Site Plan
(Based on original drawings held at the LMA)



Scale 1:250

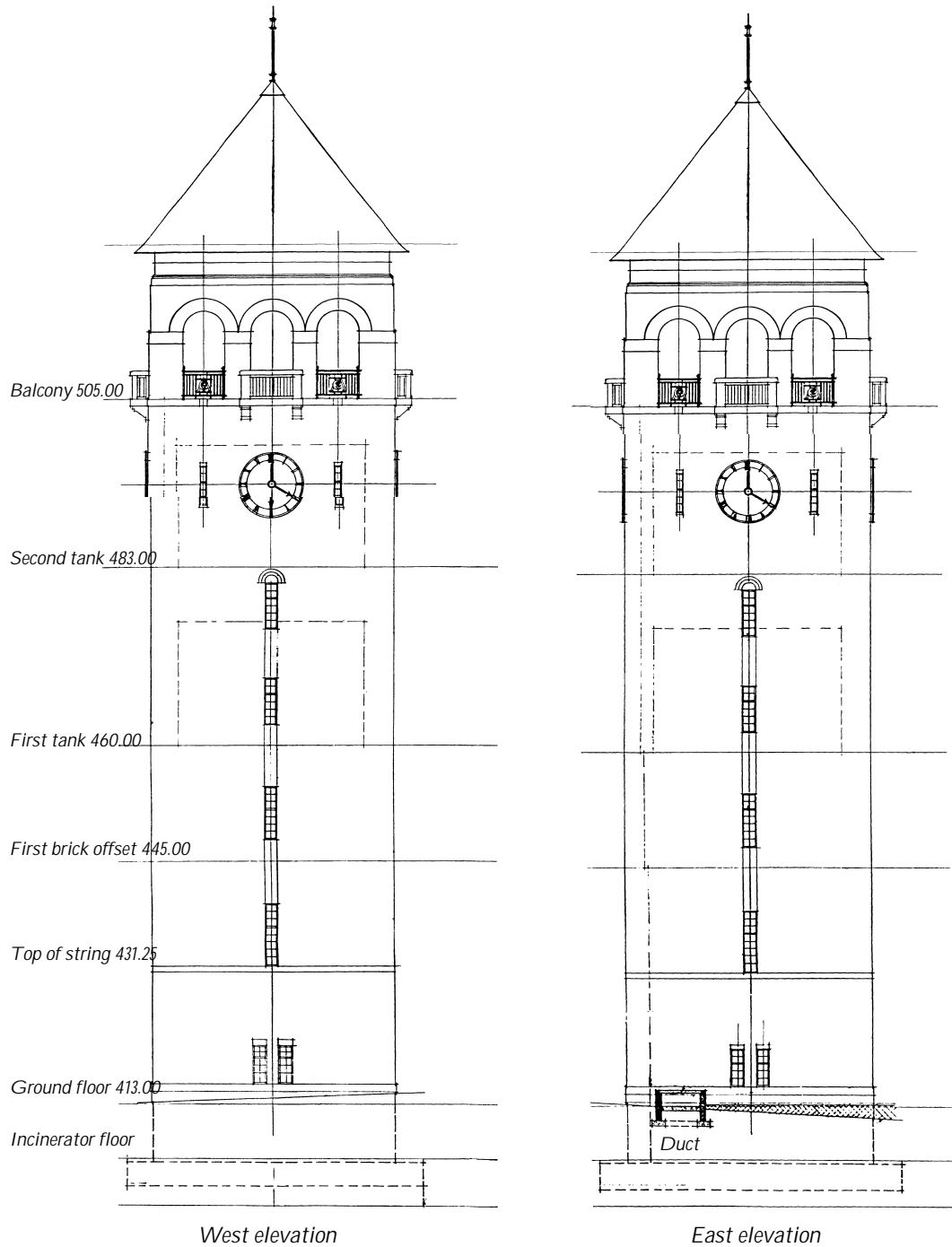
Figure 4



Water Tower: sections

Scale 1:250

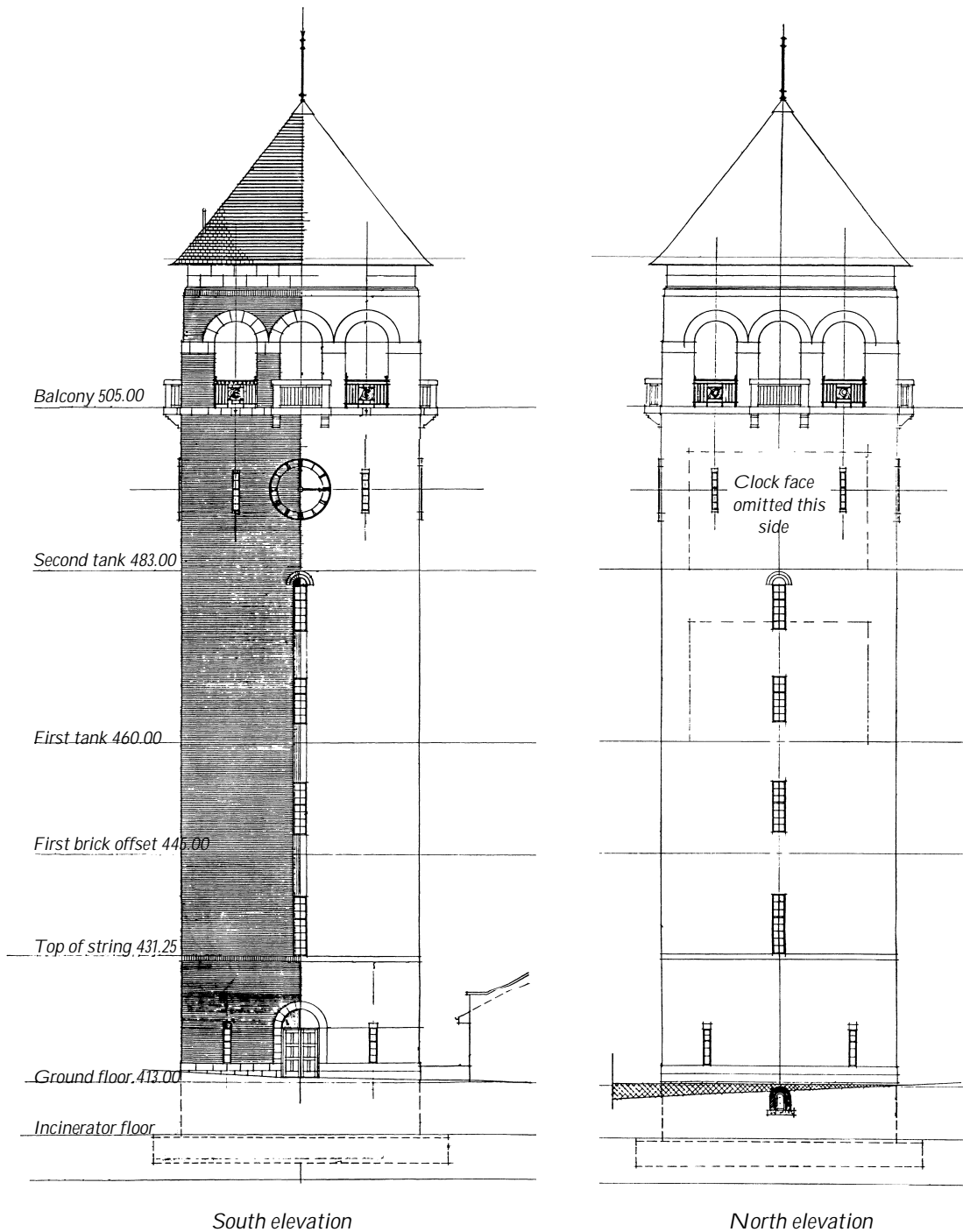
Figure 5



Water Tower: west and east elevations

Scale 1:250

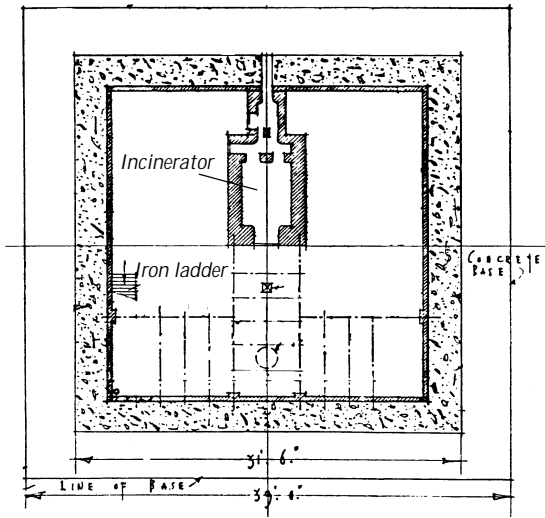
Figure 6



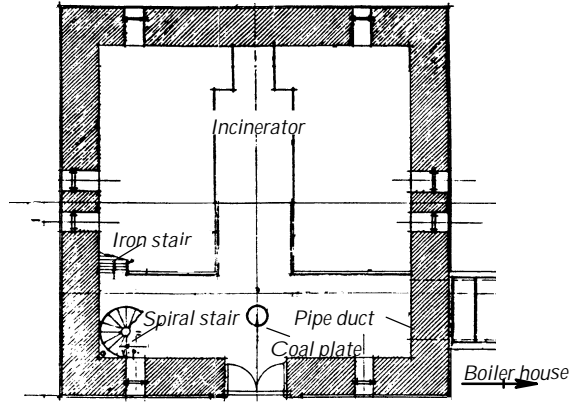
Water Tower: north & south elevations

Scale 1:250

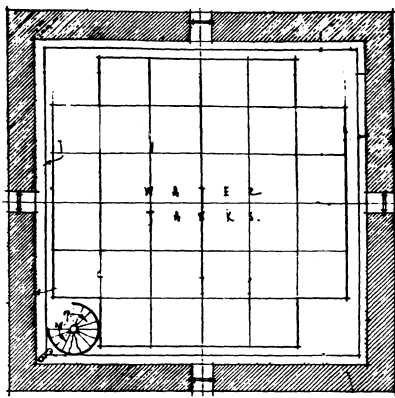
Figure 7



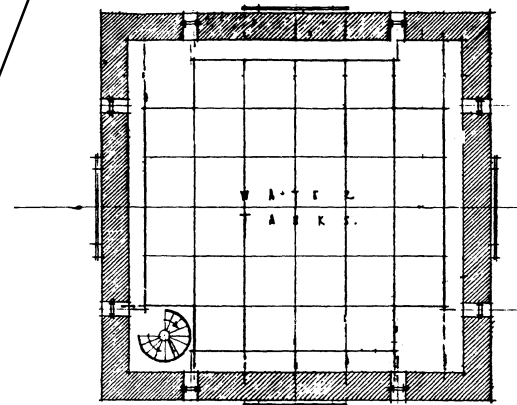
Basement Plan



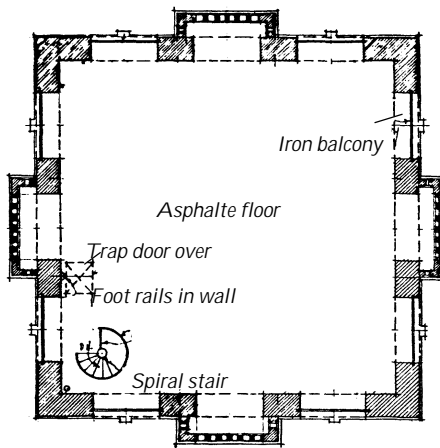
Ground Floor Plan



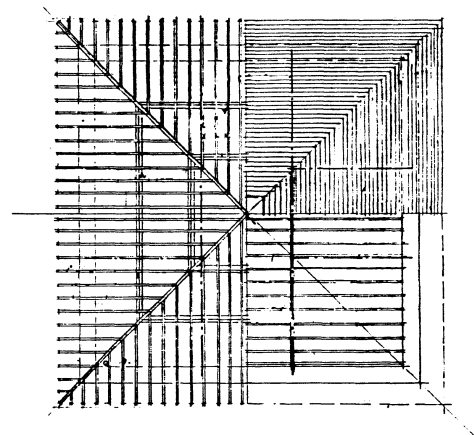
First Tank Plan



Second Tank Plan

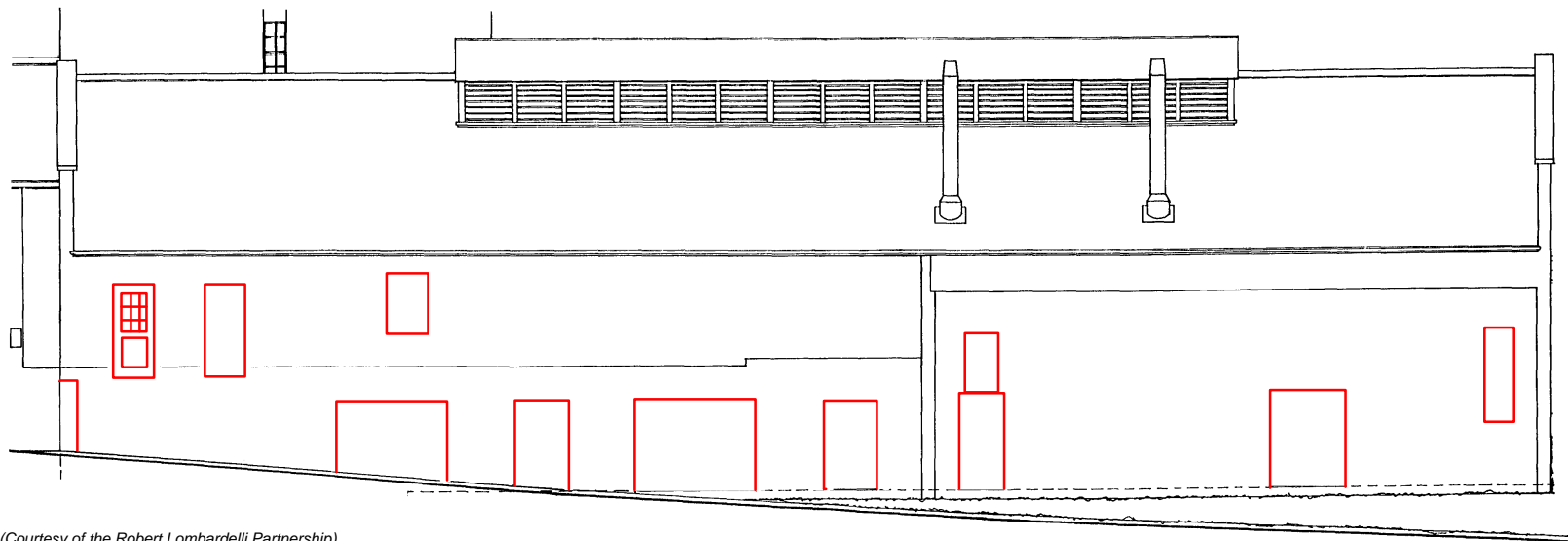
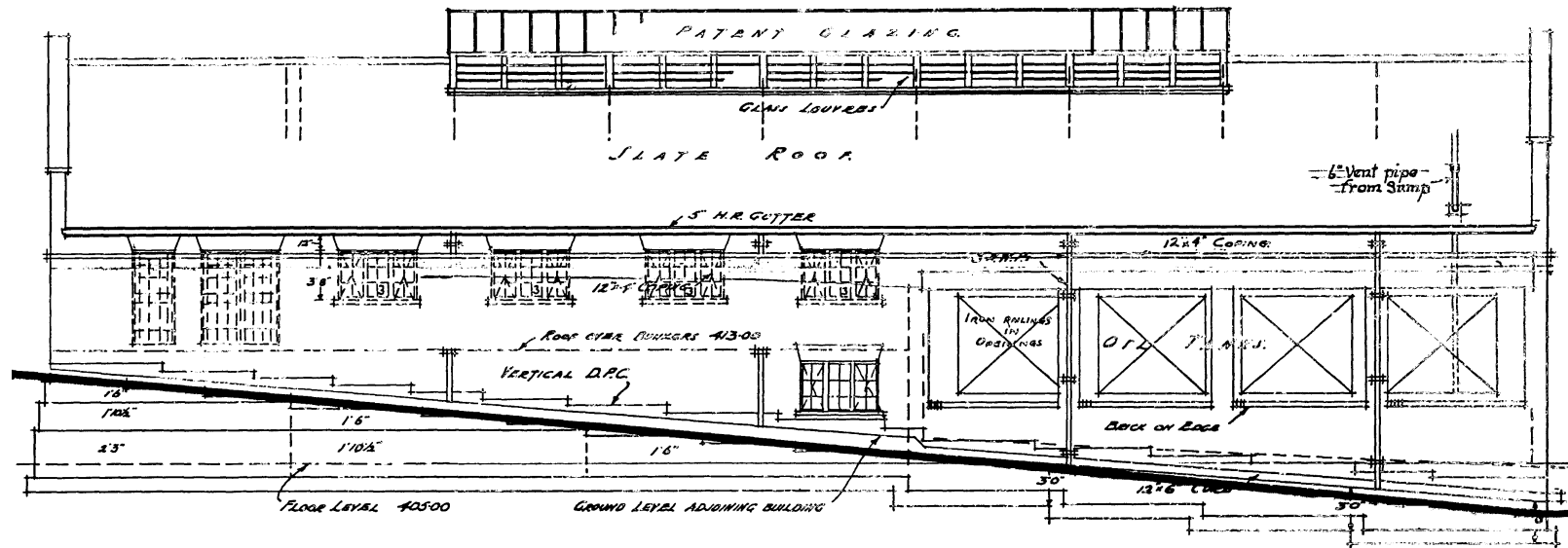


Balcony Plan



Roof Plan





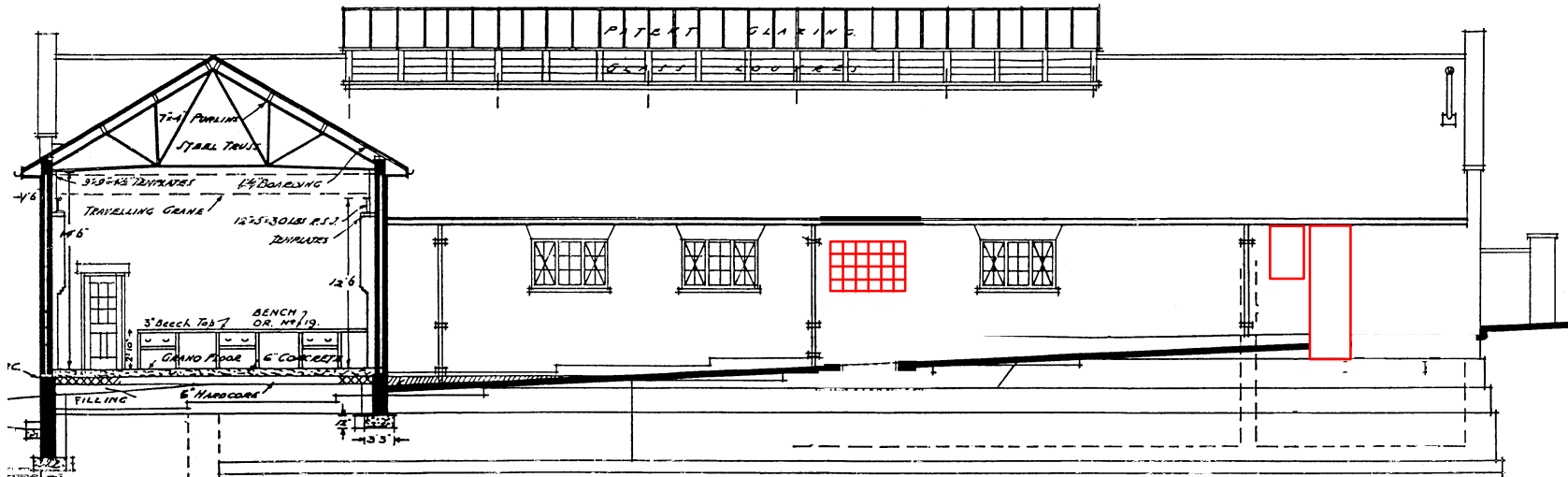
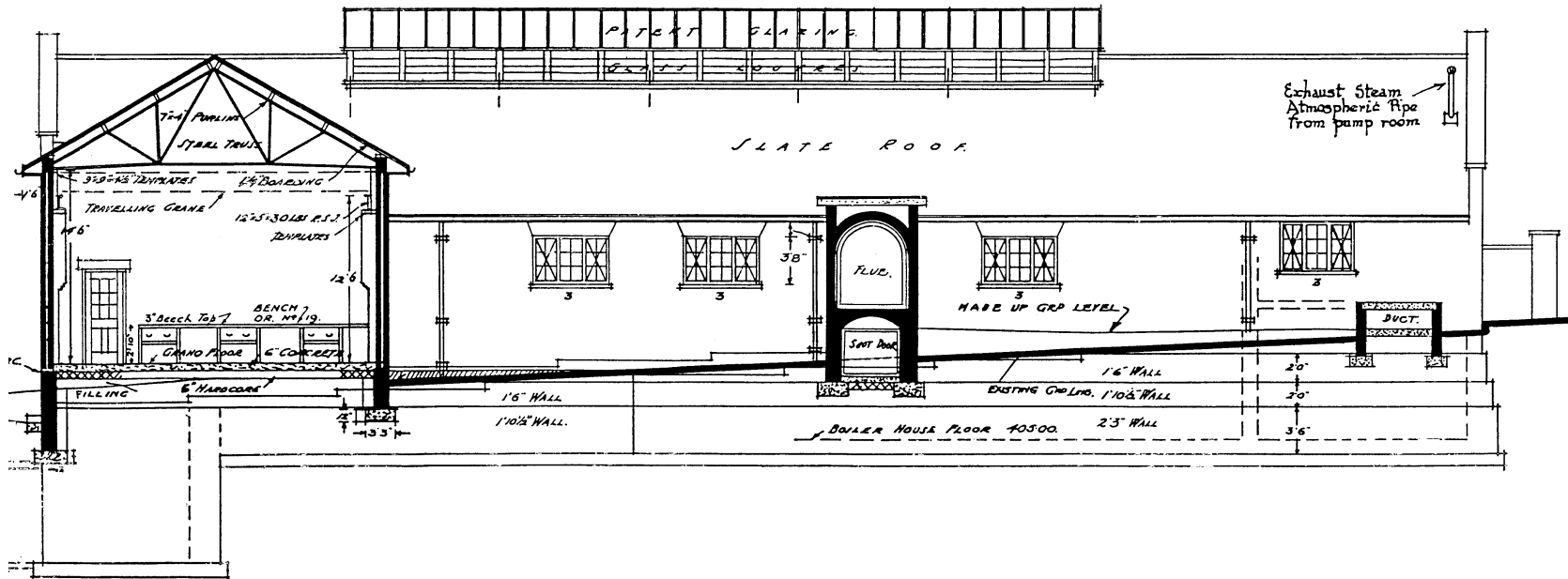
(Courtesy of the Robert Lombardelli Partnership)

0 3m

Boiler House: east elevation

Scale 1:175

Figure 9

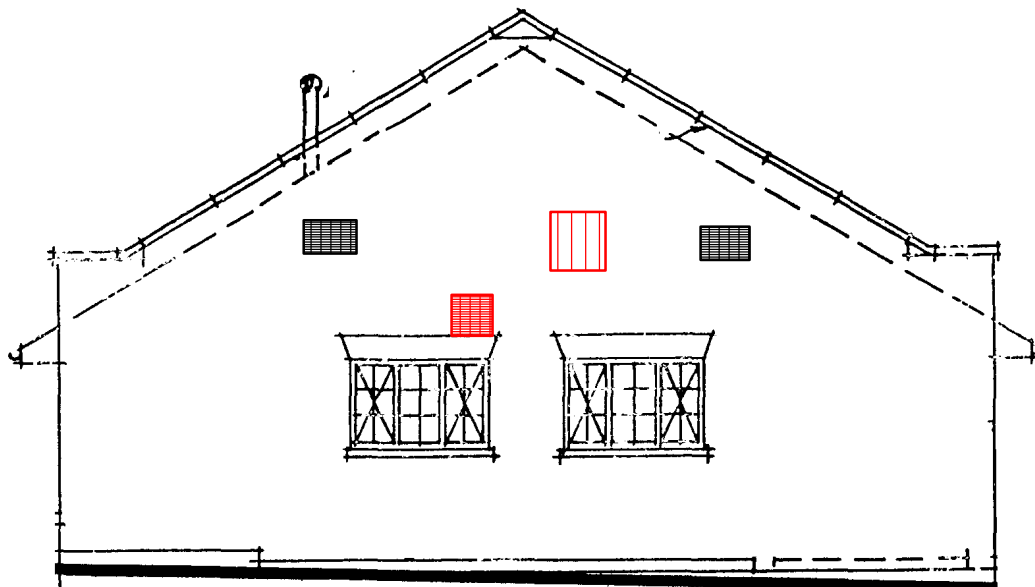
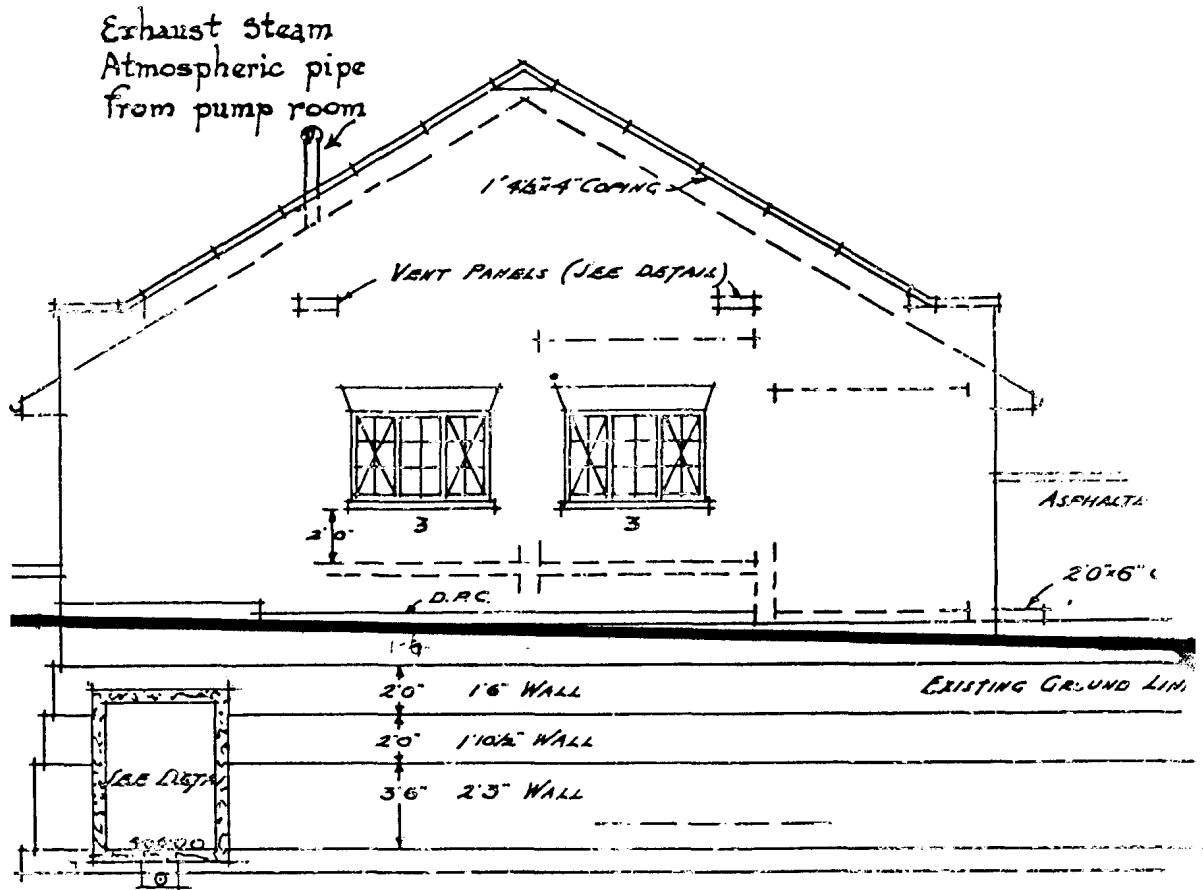


0 3m

Boiler House: west elevation

Scale 1:200

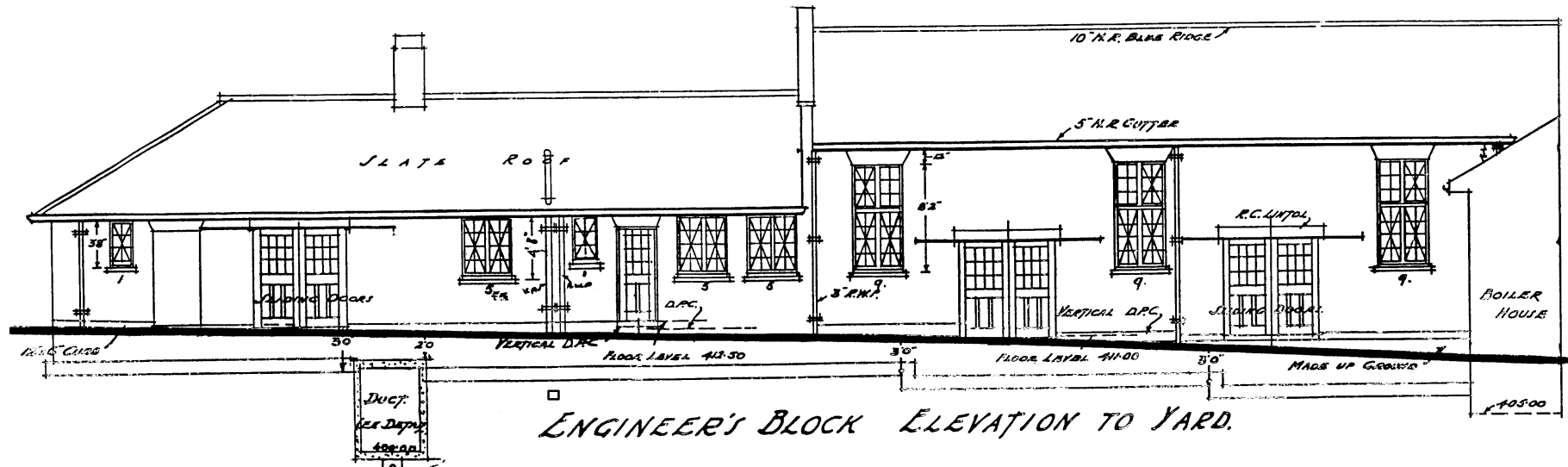
Figure 10



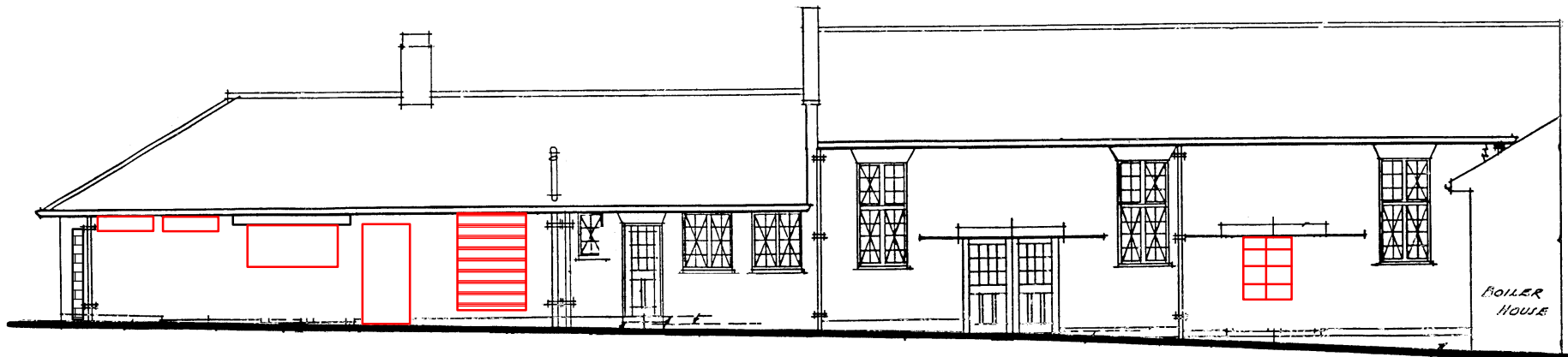
Boiler House: south elevation

Scale 1:100

Figure 11



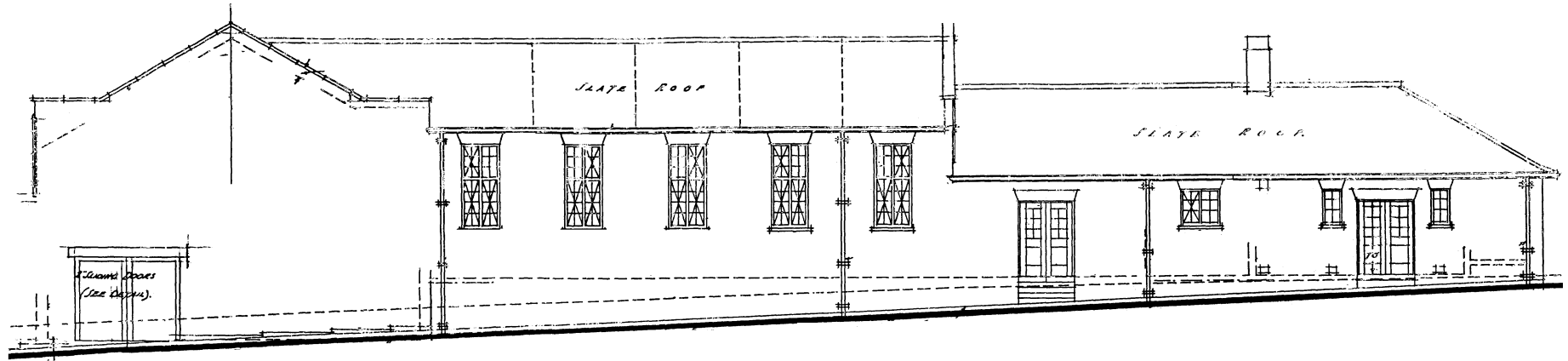
ENGINEER'S BLOCK ELEVATION TO YARD.



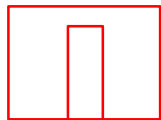
Engineer's Block: south elevation

Scale 1:150

Figure 12



(Based on a drawing by the Robert Lombardelli Partnership)



Electricity sub-station: east elevation



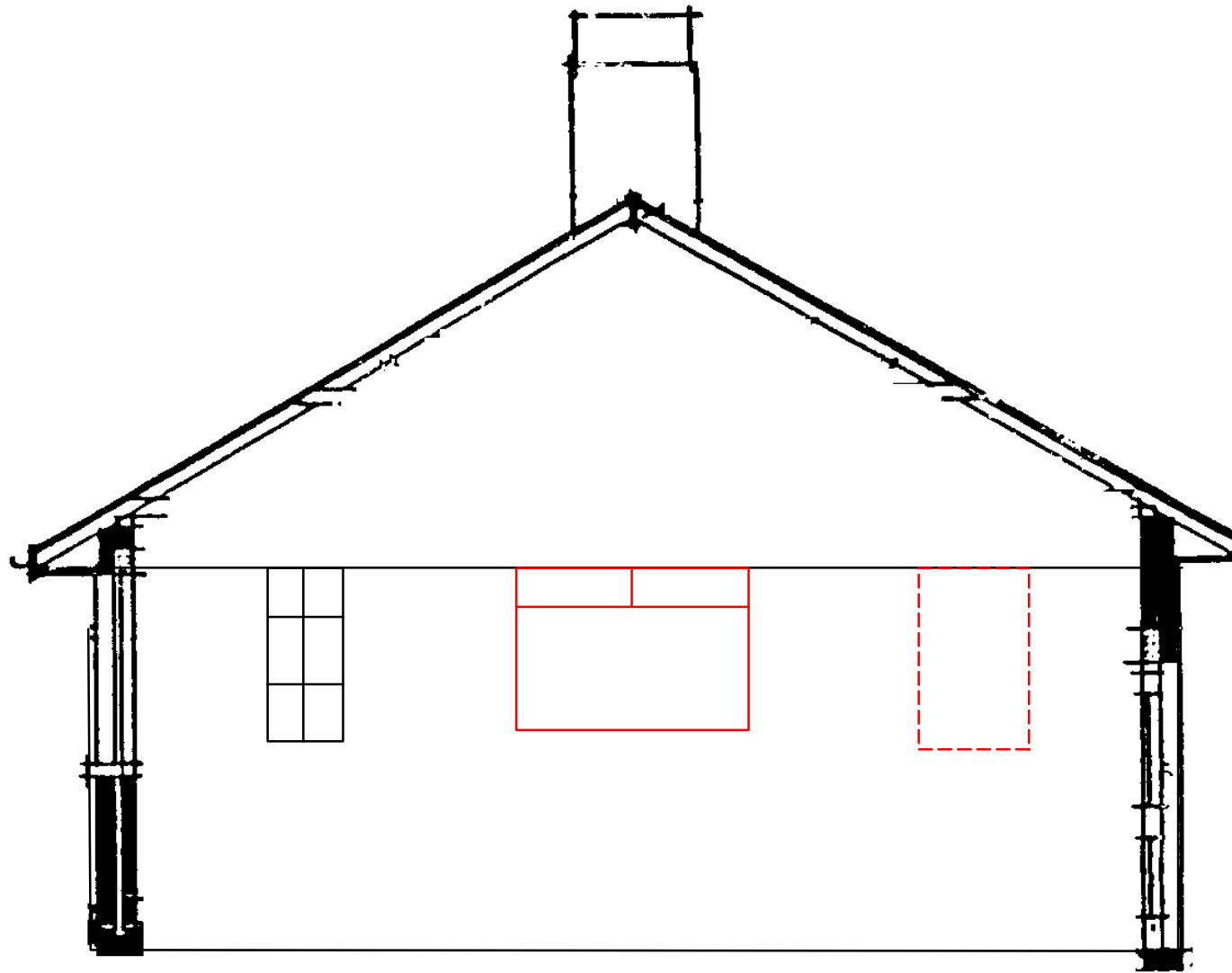
Electricity sub-station: west elevation



Engineer's Block: north elevation

Scale 1:100

Figure 13

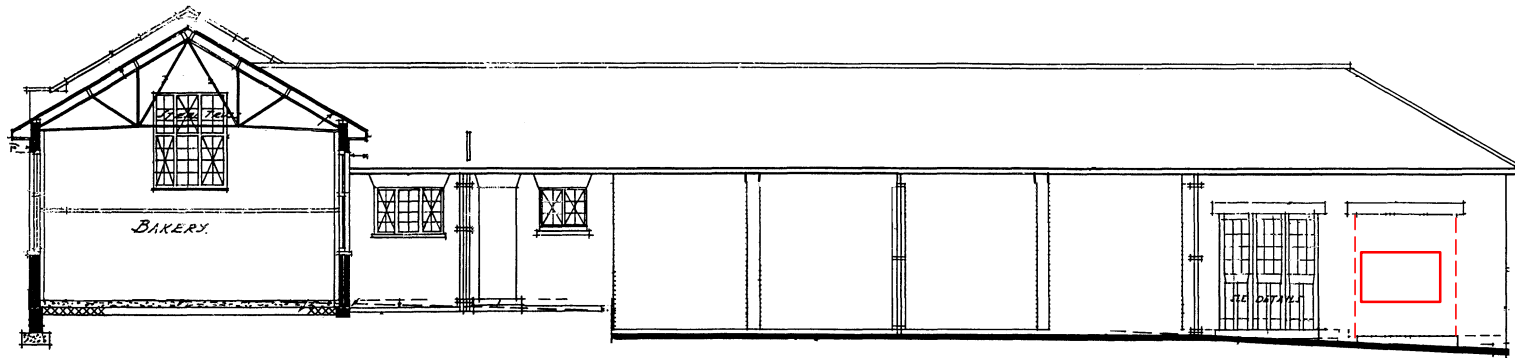
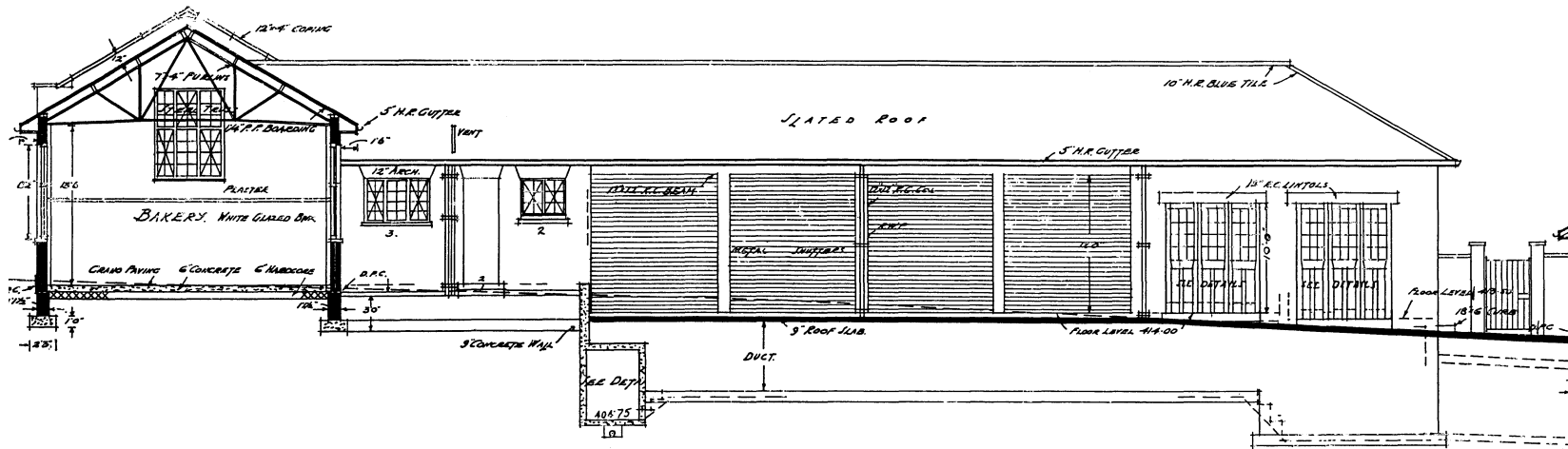


Engineer's Block: west elevation (2003)

0 1m

Scale 1:50

Figure 14

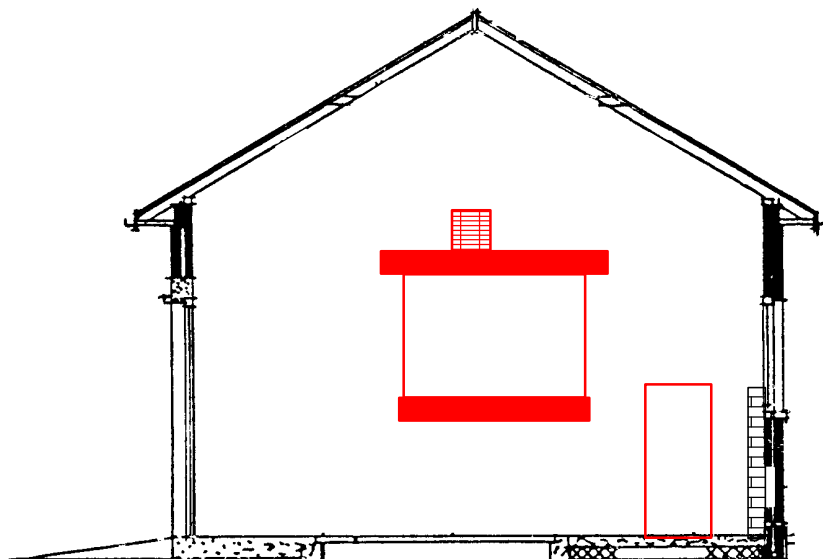
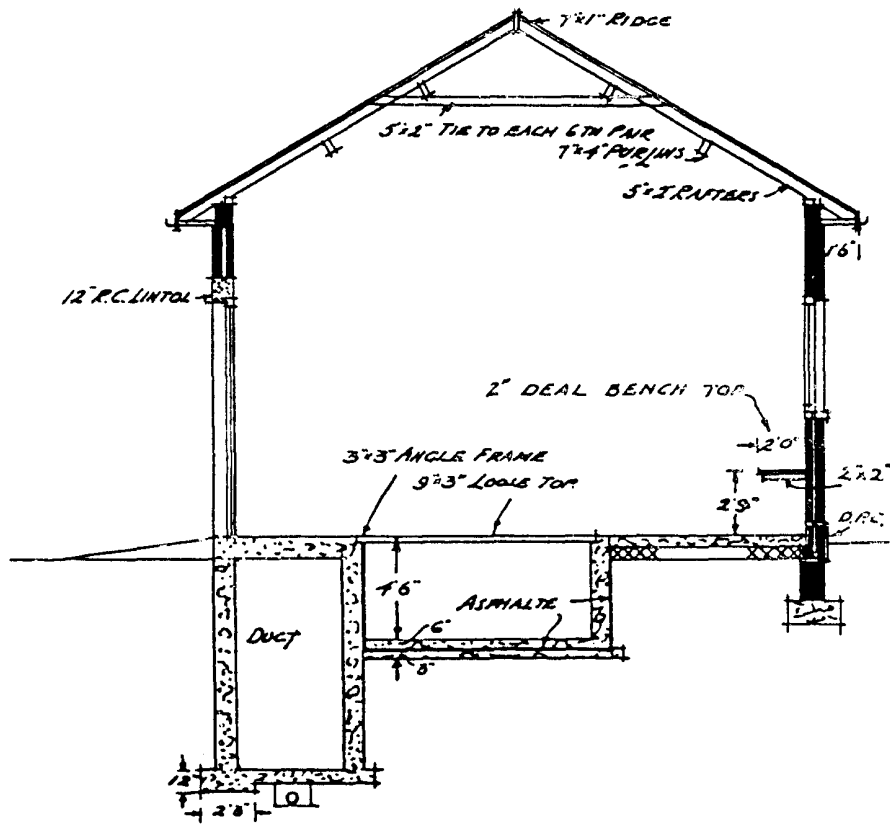


0 3m

West Range: east elevation

Scale 1:200

Figure 15



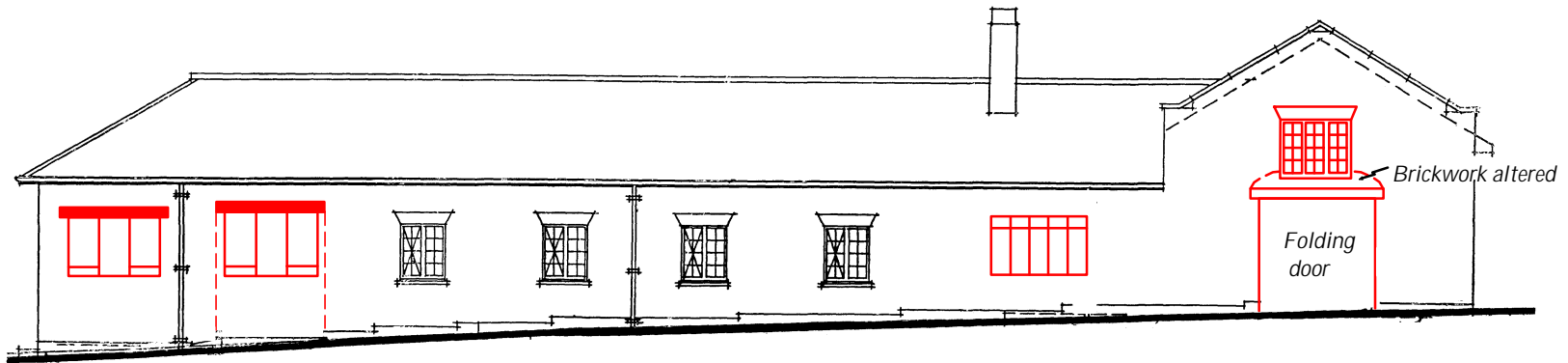
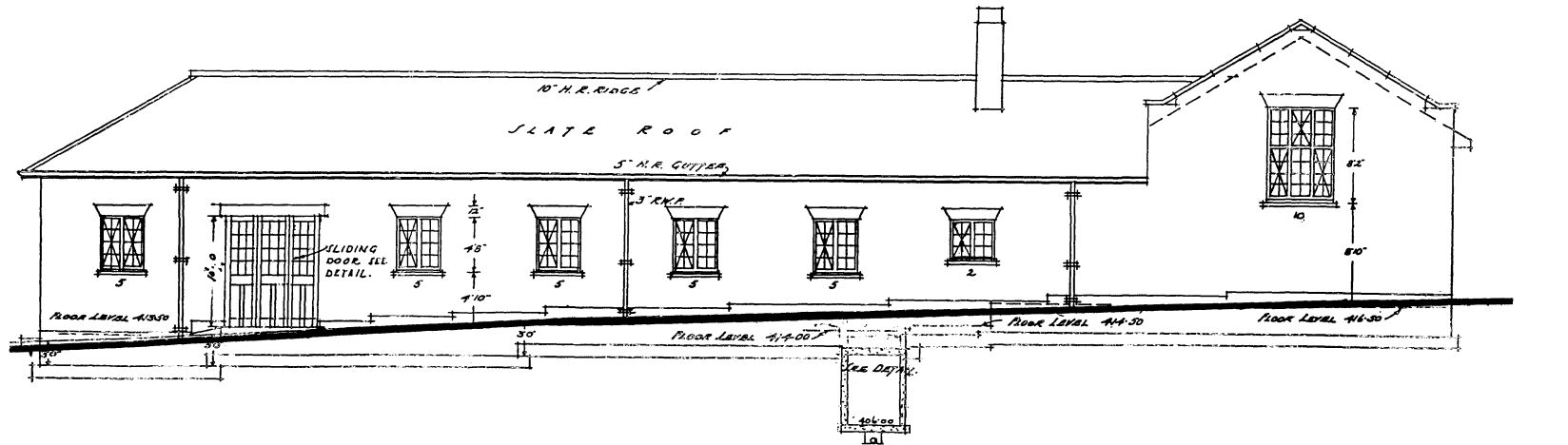
 Concrete lintel

0 3m

West Range: north elevation

Scale 1:100

Figure 16



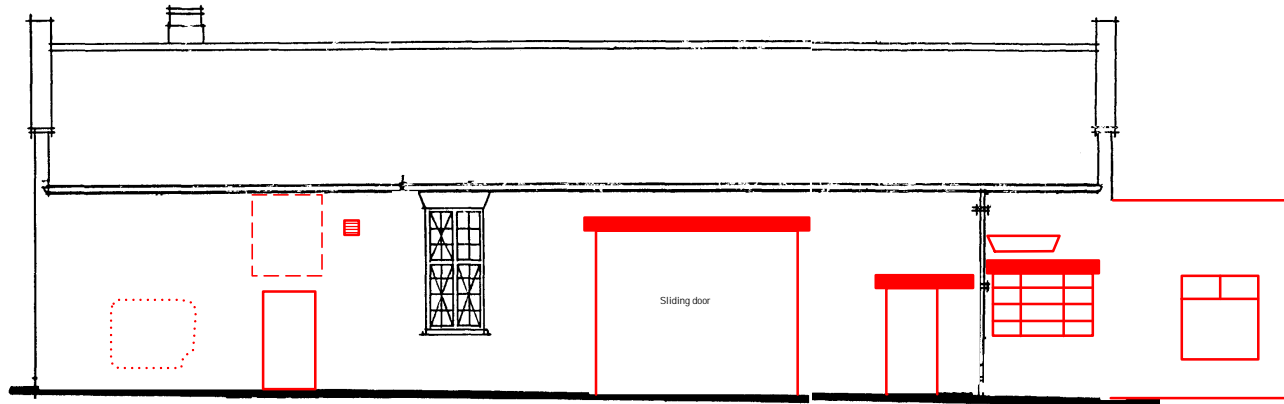
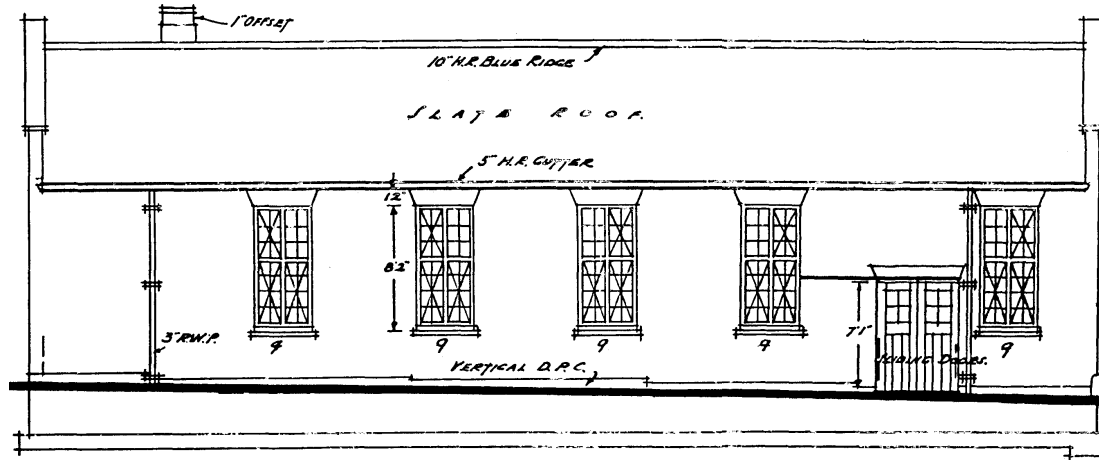
Concrete lintel

0 3m

West Range: west elevation

Scale 1:200

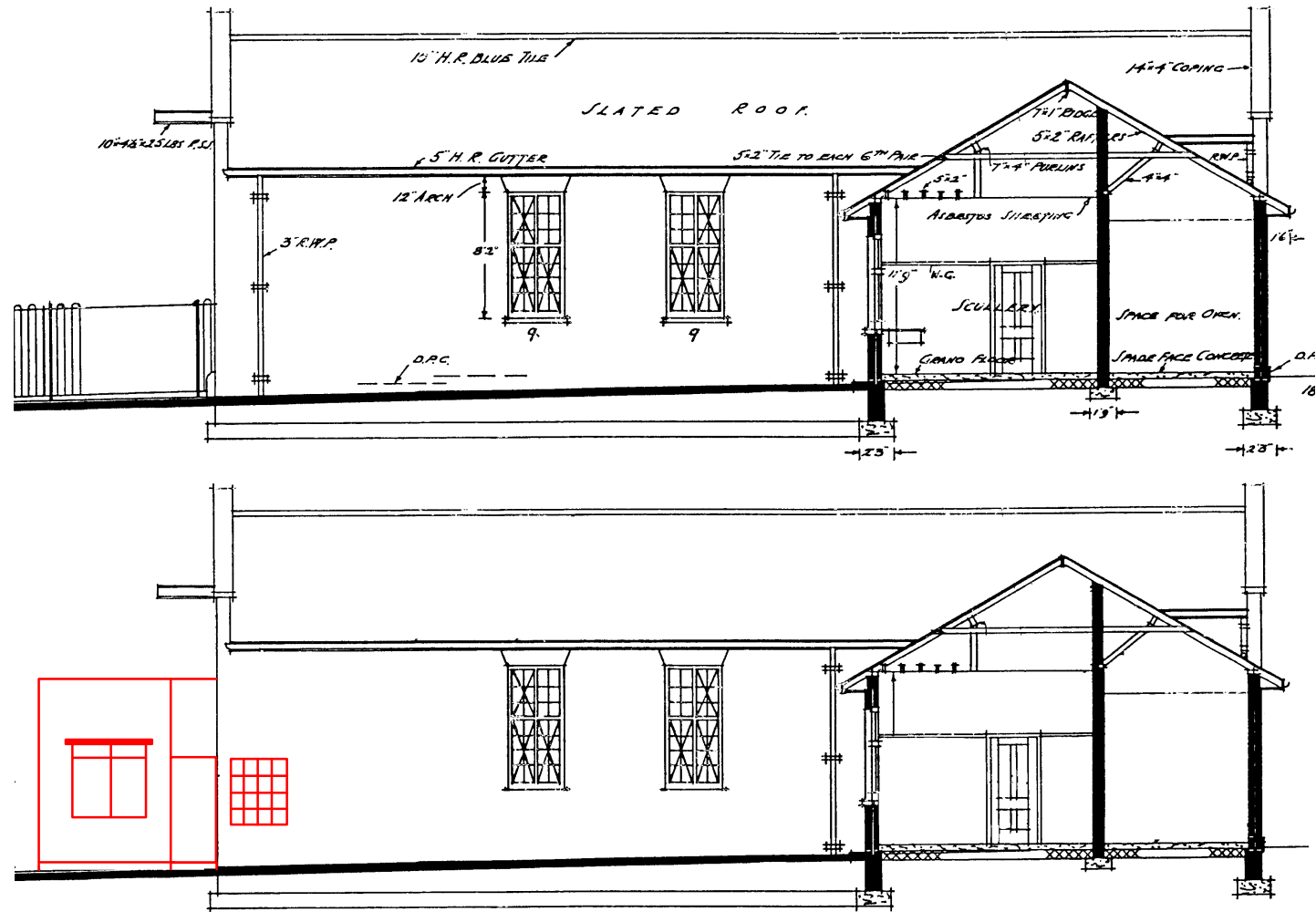
Figure 17



Old Bakery: south elevation

Scale 1:150

Figure 18



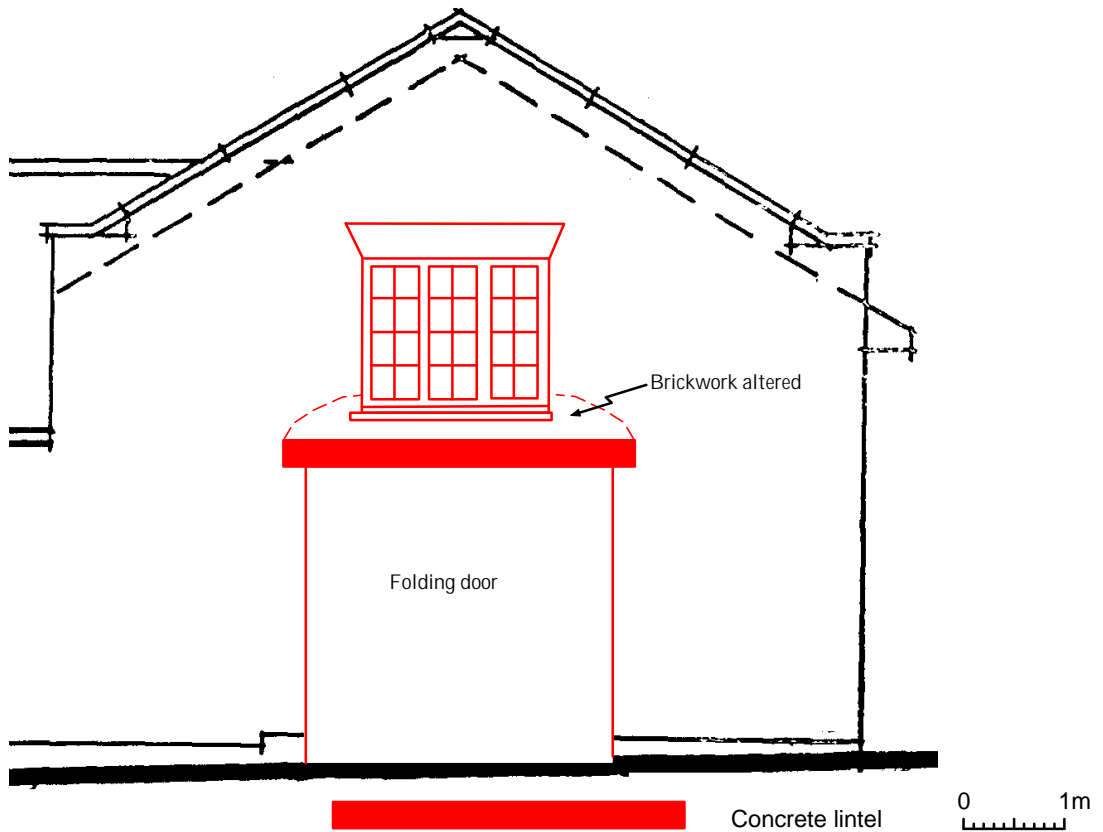
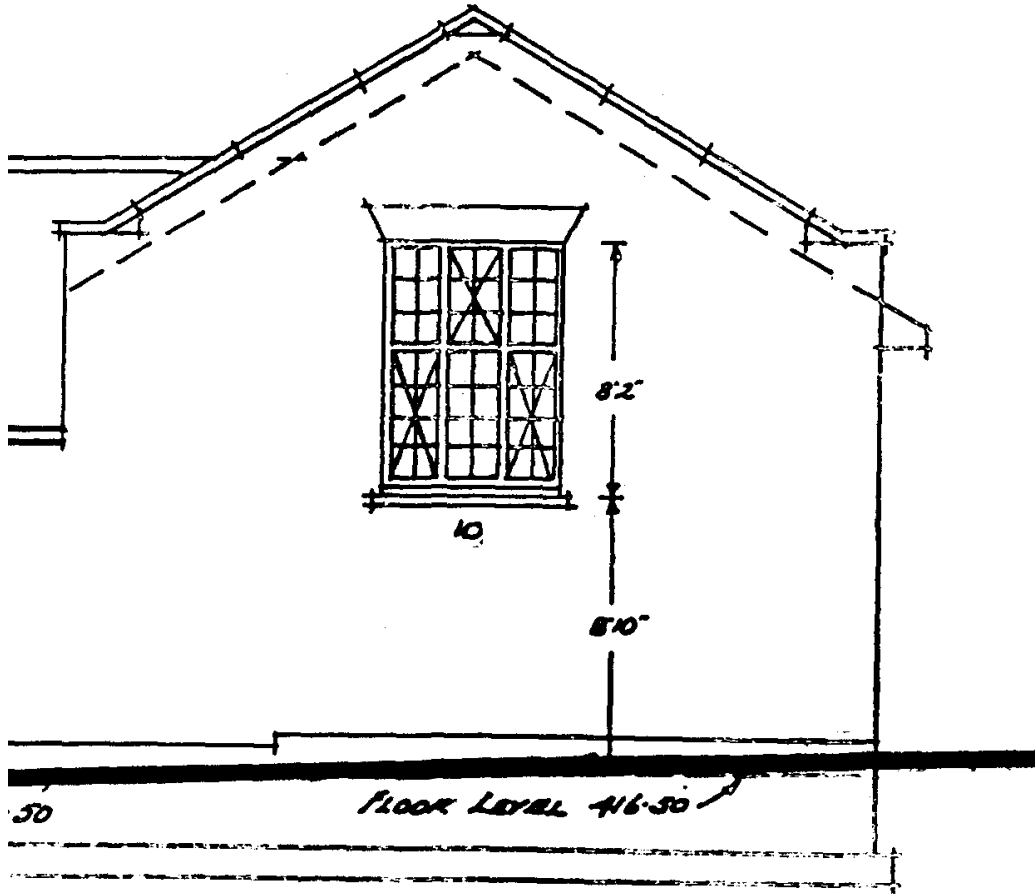
Concrete lintel



Old Bakery: north elevation

Scale 1:150

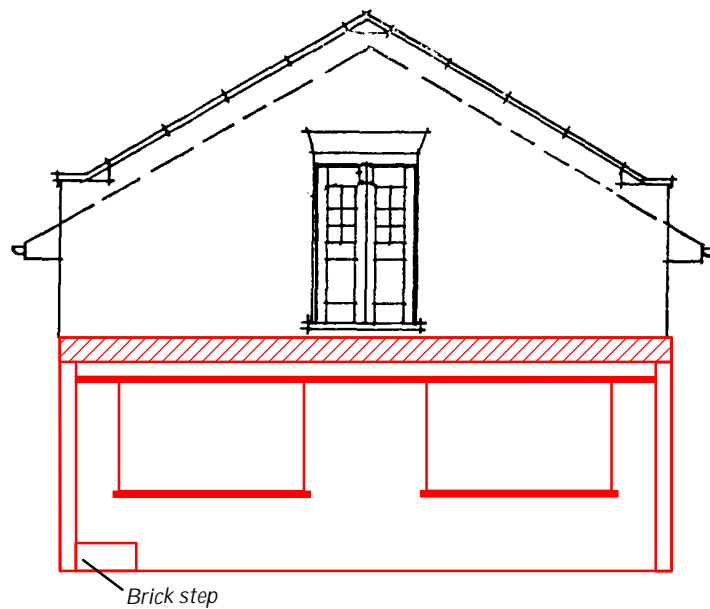
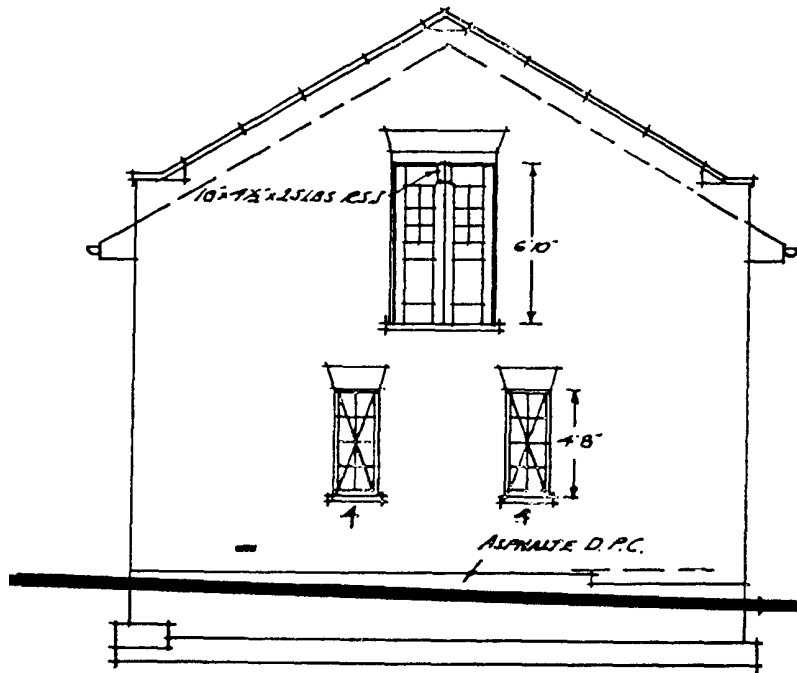
Figure 19



Old Bakery: west elevation

Scale 1:75

Figure 20



Wood



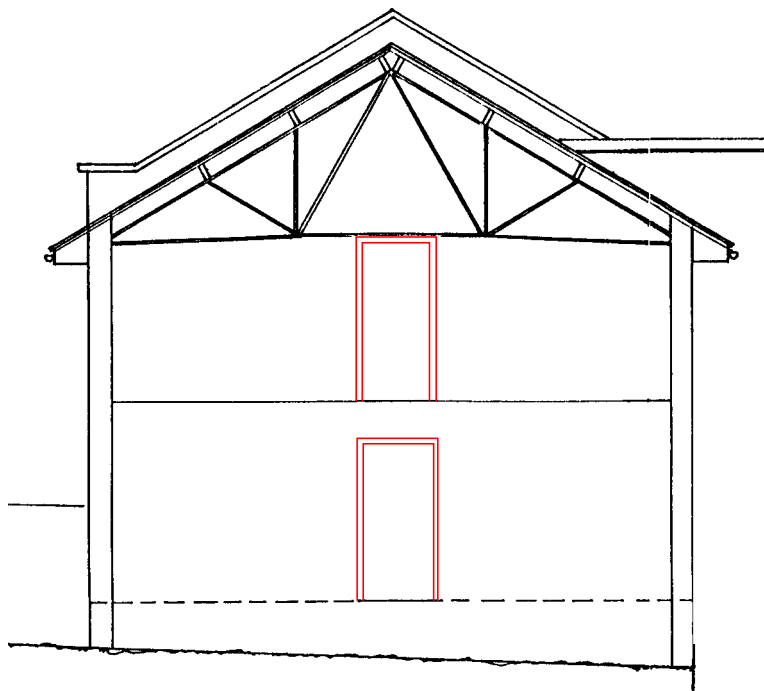
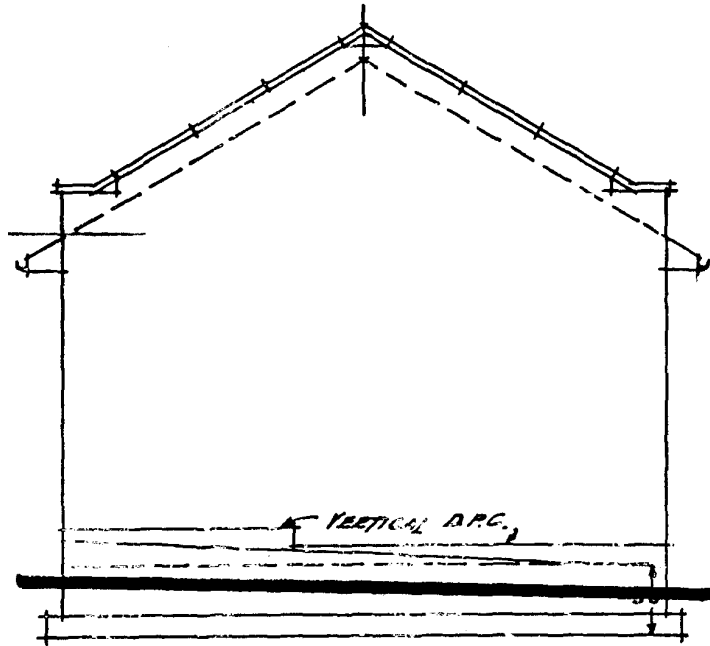
Concrete lintel



Old Bakery: east elevation

Scale 1:100

Figure 21



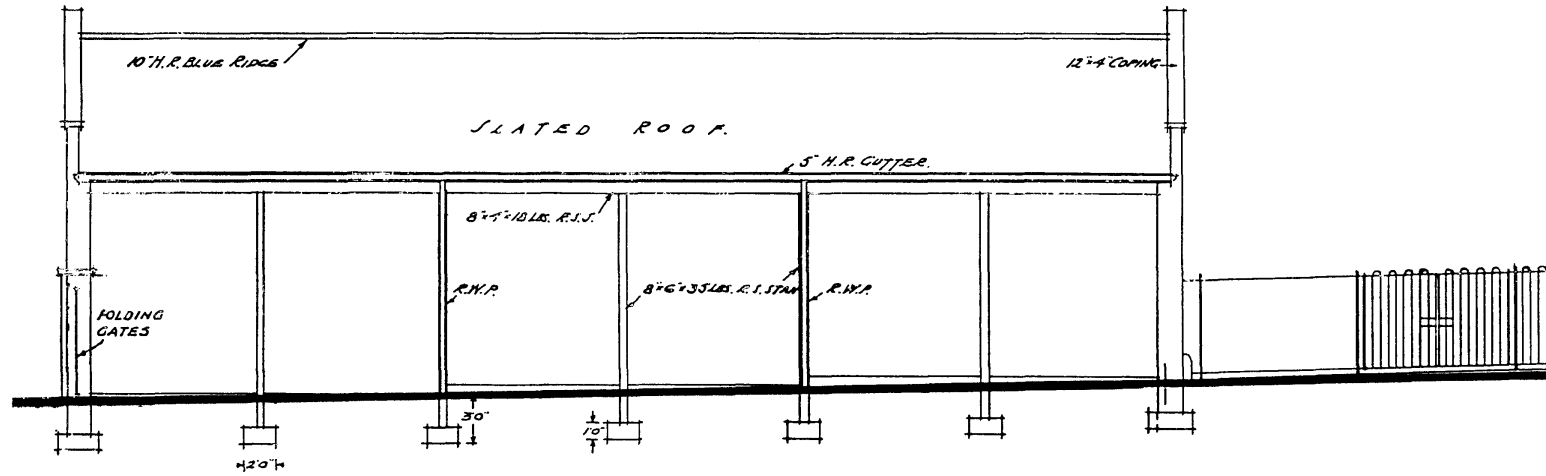
(Courtesy of the Robert Lombardelli Partnership)



Works Office: east elevation

Scale 1:100

Figure 22



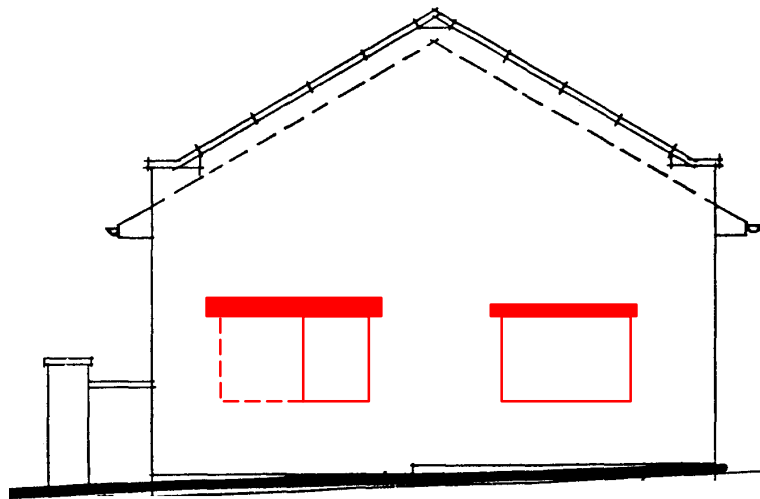
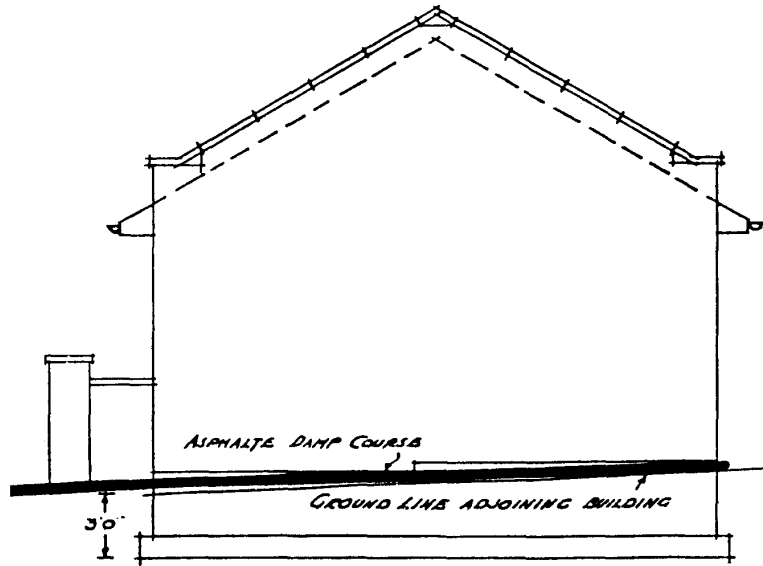
(Courtesy of the London Metropolitan Archive)



Works Office: north elevation

Scale 1:150

Figure 23



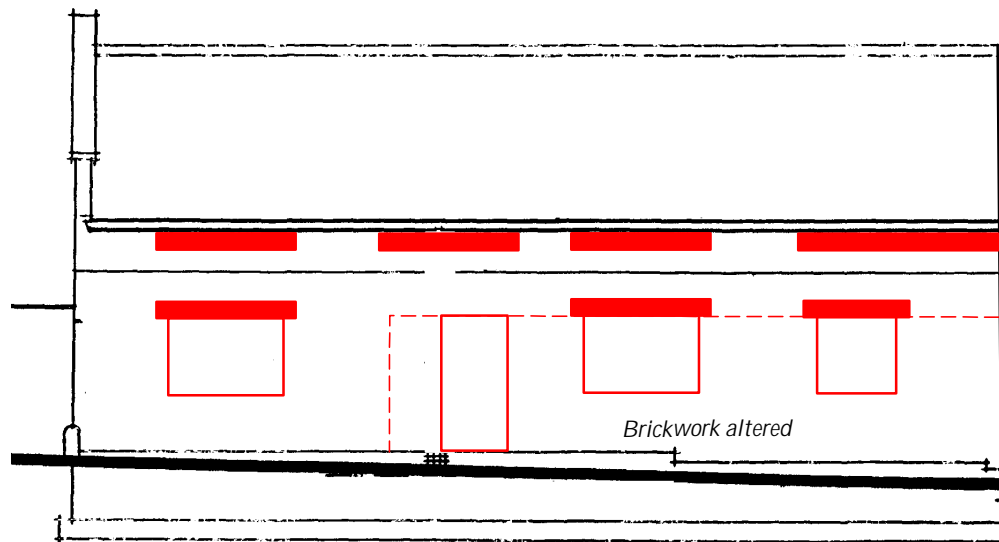
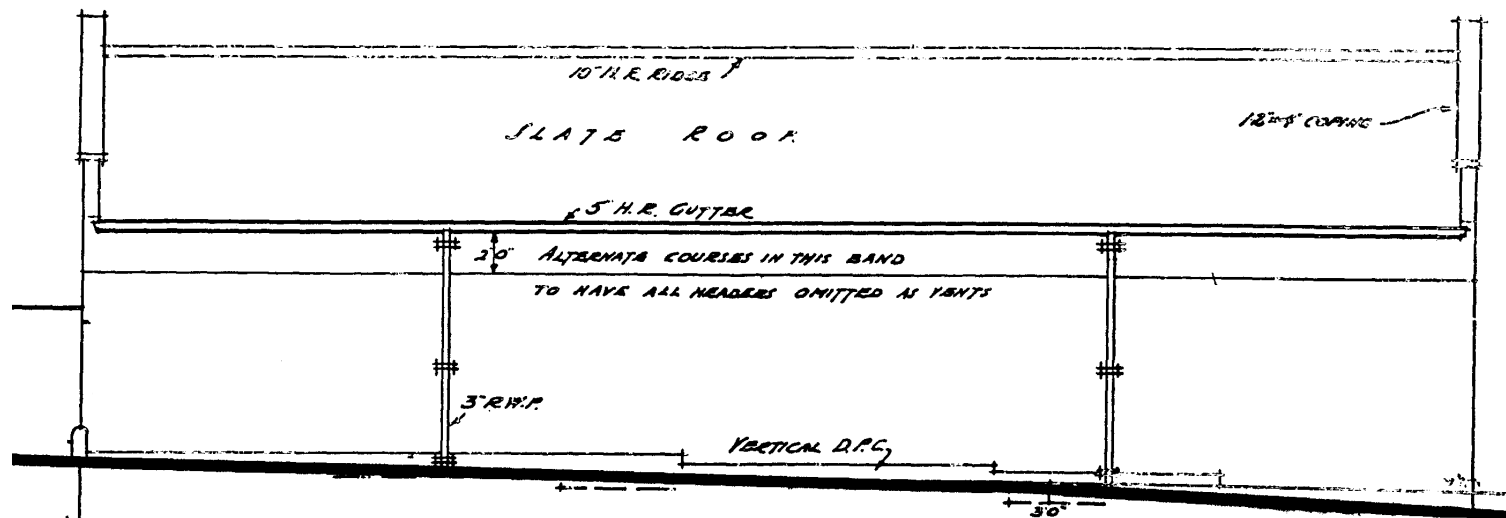
Concrete lintel



Works Office: west elevation

Scale 1:100

Figure 24



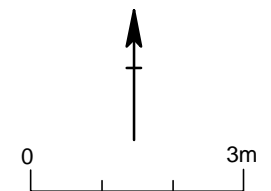
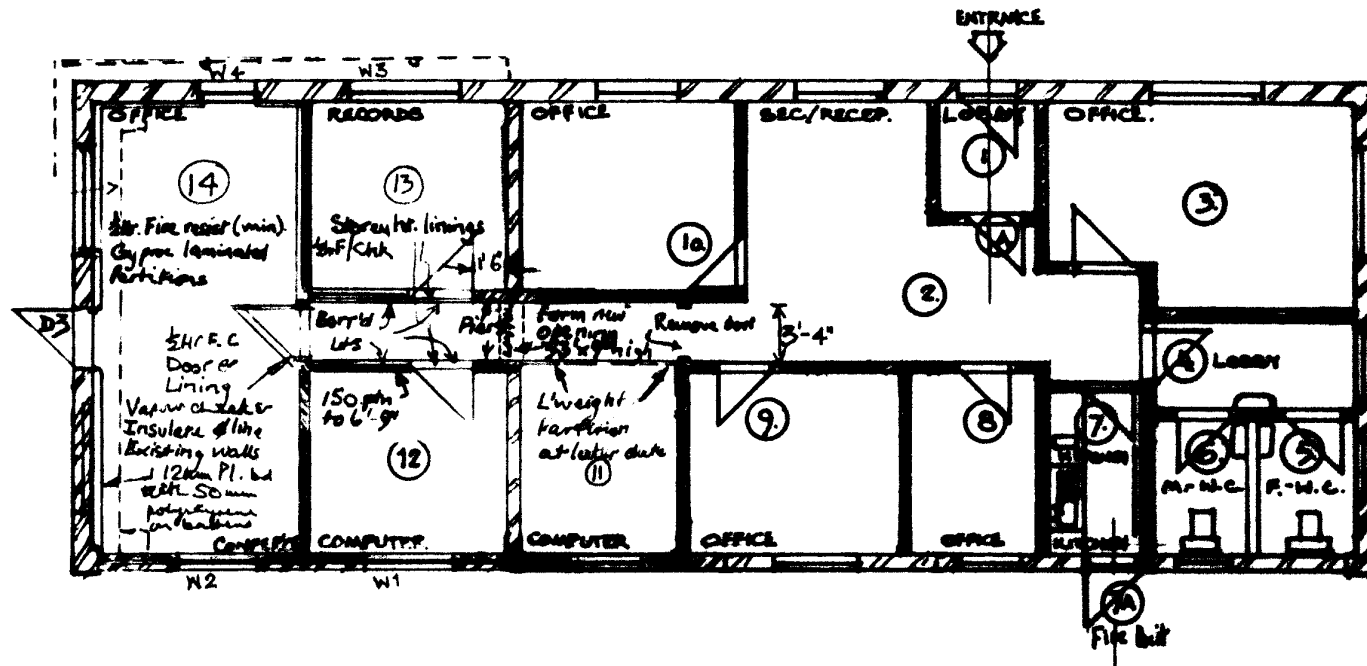
Concrete lintel

0 3m

Works Office: south elevation

Scale 1:125

Figure 25



Plan of fuel store conversion
(Courtesy of the London Metropolitan Archive)

Scale 1:100

Figure 26



North-east corner of the complex c. 1998
(Courtesy of Derek Dredge Architects)

Scale 1:500

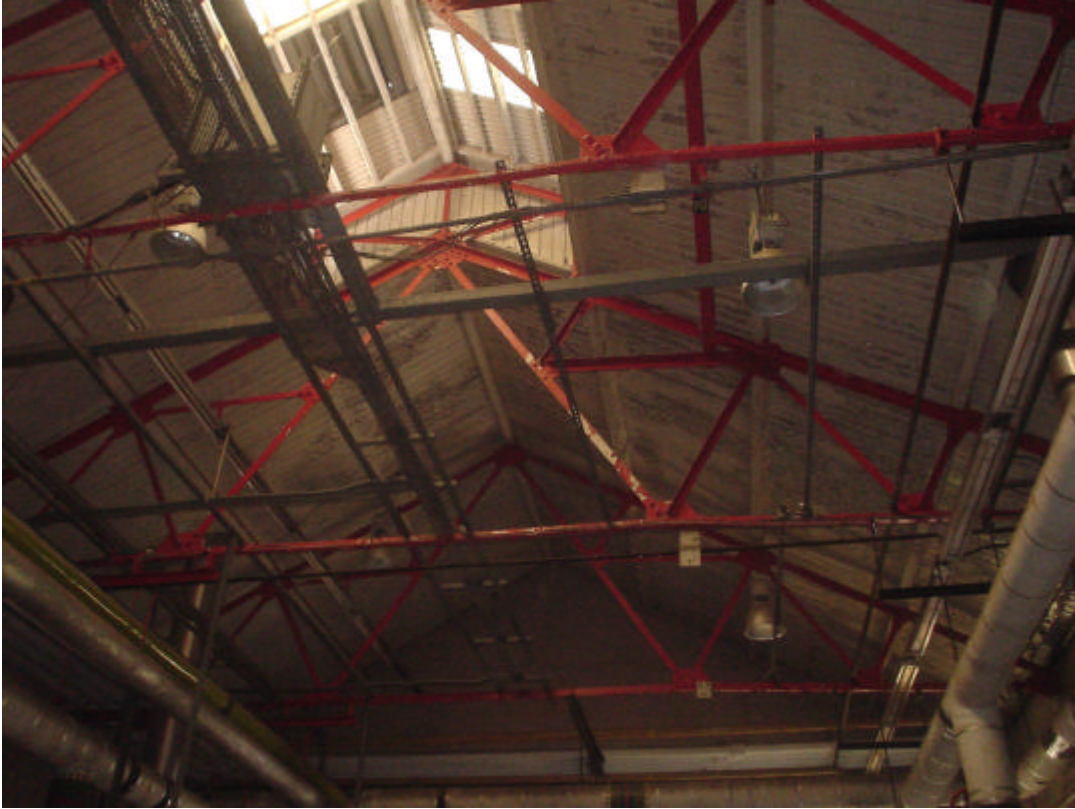
Plate 1a



Tower arches
(Courtesy of the Robert Lombardelli Partnership)

Scale 1:500

Plate 1b



Boiler House roof truss
(Courtesy of the Robert Lombardelli Partnership)

Scale 1:500

Plate 2a



Workshop: window & buttress detail

Scale 1:500

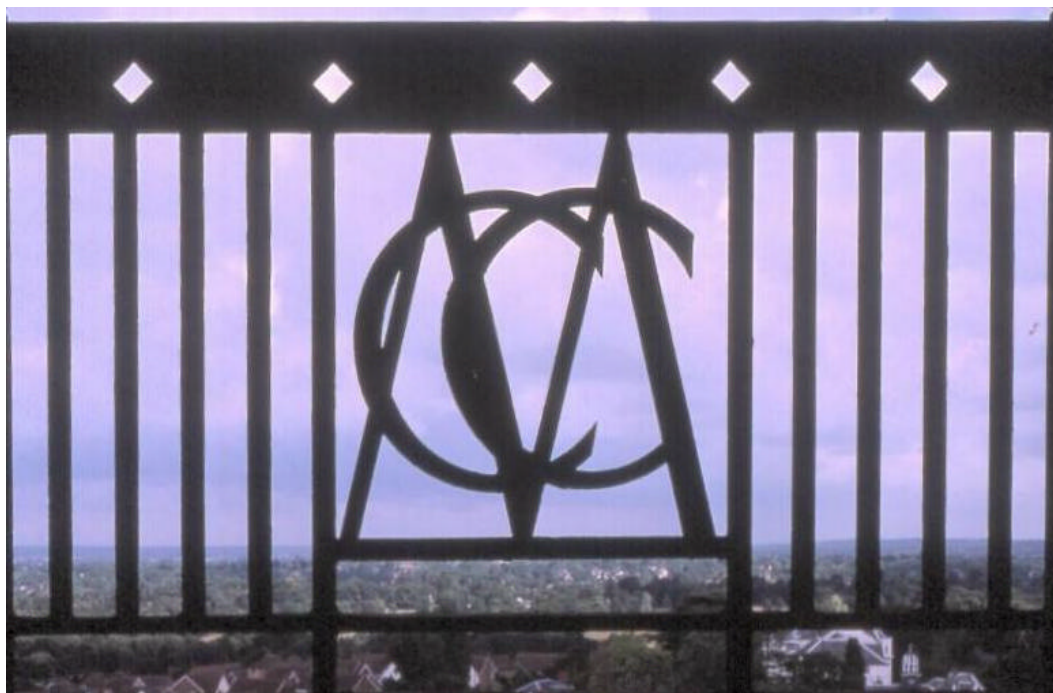
Plate 2b



South elevation of the Old Bakery showing an extension, now demolished

Scale n/a













Plate 3a



Water Tower: balcony level railing detail (photo reversed)

Scale n/a

Plate 3b

THE HERITAGE NETWORK LTD	Shenley Water Tower, Shenley	HN428
		
Water Tower: corner of balcony floor	NE corner of yard from the Water Tower	West Range from the Water Tower
		
Boiler House roof from the Water Tower	Balcony level iron railing detail	Corner detail of Water Tower ceiling
		
Water Tower: arch detail on balcony floor	Water Tower: balcony detail	Water Tower: tank
		
Works Office & Water Tower	Water Tower: entrance	Water Tower seen through the estate
Roll C1		Scale: n/a
		Roll C1



1 Boiler House: roof truss



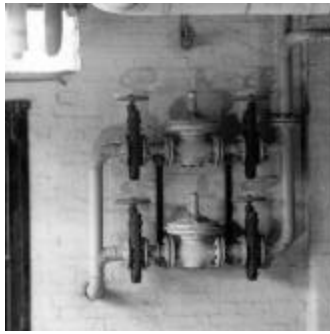
2 Boiler House: roof truss detail



3 Boiler House: gas-fired boiler



4 Boiler House: gas inlet pipes



5 Boiler House: gas inlet pipes



6 Boiler House: water tank



7 Boiler House: roof truss from gantry



8 Boiler House: boiler plaque



9 Boiler House: gate to switch room



10 Engineer's Block: workshop window & buttress detail



11 Engineer's Block: door to office



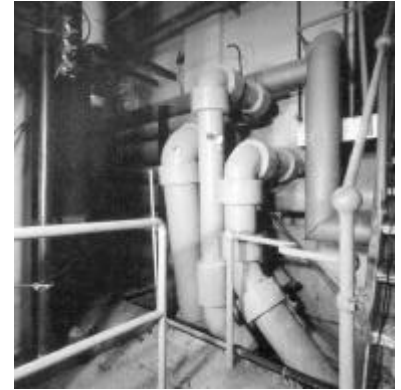
12 Old Bakery: mechanics fitting



1 Boiler House: general shot facing south



2 Boiler House: general shot facing south



3 Boiler House: pipework detail



4 Boiler House: original boilers



5 Switch Room: general shot facing south



6 Switch Room: plant



7 Plant room: general shot facing west



8 Plant room: general shot facing east



9 Plant room: general shot facing west



10 Workshop: general shot facing east



11 Workshop: roof



12 Workshop: general shot facing north-east



1 Engineer's Block: office facing north-east



2 Engineer's Block: store facing north-west



3 Engineer's Block: kitchen facing west



4 Engineer's Block: switch room facing south



5 Engineer's Block: locker room facing north-west



6 Shower Room: general shot facing south



7 Shower Room: general shot facing north



8 West Range: workshop interior facing west



9 West Range: workshop interior facing west



10 Garage facing north-west



11 West Range: kitchen facing east



12 West Range: kitchen facing west



1 West Range: kitchen cupboard facing east



2 Scullery facing south-east



3 Scullery facing south



4 Old Bakery facing north-east



5 Old Bakery facing north-east



6 Old Bakery facing south-east



7 Old Bakery facing south-east



8 Old Bakery facing north-west



9 Old Bakery facing north-west



10 Reception facing north-west



11 Reception facing west



12 Rear office facing south-west



1 Partitioned office: front area facing west



2 Partitioned Office facing south-west



3 Partitioned Office facing south-west



4 First Floor Office facing north-east



5 First Floor Office facing south



6 Complex from the south-east



7 Water Tower: south elevation



8 Water Tower: south elevation



9 Works Office facing north-east



10 Works Office facing north-east



11 Reception & Old Bakery from the north-east



12 Reception & Old Bakery from the north-east



1 Water Tower from the brideway



2 Water Tower from the brideway



3 Water Tower from Potters Bar Lane



4 Water Tower from Potters Bar Lane



5 Works Office: east elevation



6 Boiler House: south & east elevation



7 Boiler House: east elevation



8 Boiler House: east elevation



9 Engineer's Block: north elevation



10 Engineer's Block: north elevation



11 Complex from the south-east



12 Water Tower: south elevation



1 Top of the Water Tower from the south



2 South Elevation: clock & windows



3 Tower window details from the south



4 Top of Tower detail from the south



5 Boiler House from the north-east



6 North-east corner of the complex



7 Electricity Sub-station: north elevation



8 Engineer's Block: north elevation window detail



9 Boiler House: south elevation



10 Boiler House: south elevation



11 Water Tower: door detail



12 Works Office from the north-west



1 East end of the Old Bakery Block



2 Water Tower: base of the north elevation



3 Old Bakery Block: north elevation



4 Water Tower: base of the west elevation



5 Water Tower: base of the west elevation



6 North-east corner of the courtyard



7 Boiler House: west elevation



8 Engineer's Block: south elevation



9 North-east corner of the courtyard



10 Water Tower: base of the west elevation



11 No right turn sign



12 West Range: door to the Old Bakery



1 Garage from the south-east



2 North-west corner of the courtyard



3 Courtyard from the south-west



4 Courtyard from the south-west



5 West Range: east elevation



6 Block: west elevation



7 West Range: northern end



8 West Range: northern end



9 West Range: southern end



10 South-west corner of the complex



11 West Range: workshop interior facing east



12 West Range: workshop interior facing east



1 Engineer's Block: south elevation fire alarm detail



2 Engineer's Block: south elevation louvered window detail



3 Engineer's Block: south elevation window detail



4 Engineer's Block: south elevation door detail



5 North-east corner of the complex



6 North-east corner of the complex



7 Water Tower from the north-west



8 Water Tower: west elevation



9 Water Tower: pipework in the south-east corner



10 Water Tower: pipework detail



11 Water Tower: pipework in the north-east corner



12 Water Tower: stair



1 Water Tower: stair



2 Water Tower: pipework in south-east corner



3 Water Tower: pipework in south-east corner



4 Water Tower: south-west corner



5 Water Tower: south-west corner



6 Water Tower: north-west corner of the BT machine room



7 Water Tower: south-east pipework from mezzanine



8 Water Tower: south-east pipework from mezzanine



9 Water Tower: south-east pipework from mezzanine



10 Water Tower: south-east pipework from mezzanine



11 Water Tower: upper level of spiral stairs



12 Water Tower: upper level of spiral stairs



1 Old Workshop: interior shot facing east



2 Old Workshop: interior shot facing east



3 Old Workshop: interior shot facing east



4 Water Tower: tanks & mezzanine from the south



5 Water Tower: tanks & mezzanine from the south



6 Water Tower: tanks & mezzanine from the south



7 Water Tower: mezzanine room



8 Water Tower: spiral staircase from the east



9 Water Tower: spiral staircase from the east



10 Water Tower: spiral staircase & stair to mezzanine



11 Water Tower: spiral staircase & stair to mezzanine