

BUILDING APPLICATION FORM

WELLINGTON,

Date Dec 23 19 09

To the City Engineer,
Wellington.

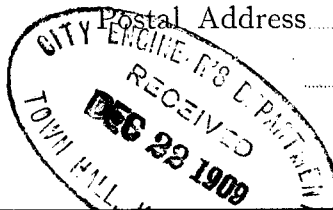
SIR,

We hereby apply for permission to erect Lever Hospital
in Boromandel Street, Section
part of Town Acre 59 for Well Hospital Trustees
of Wellington according to Plans and Specifications
deposited herewith at the estimated cost of £10500-00

Yours faithfully,

Hunt & Mc Donald

Postal Address 168 Owen St



COPY.

WELLINGTON HOSPITAL BOARD.

GENERAL HOSPITAL,
WELLINGTON, NEW ZEALAND,

21st March, 1929.

The City Engineer,
Town Hall,
WELLINGTON.

Dear Sir,

I have, by direction of my Board, to ask if you will kindly allow the Government Architect, Mr. J.T. Mair, to have access to the plans of the Ewart Hospital which was opened in November, 1910, and was then known as the Fever Hospital.

Thanking you in anticipation for your assistance in this matter,

Yours faithfully,

(Sgd.) R. Brown.

Secretary.

*Plans furnished by representative of
Govt Architect 4. 4. 29*

Specification of works to be done & of materials to be supplied in the erection of an Administrative Building, forming part of the Feet Hospital, Wellington for the Wellington Hospital Trustees.



Site

The Buildings are to be erected on a site specially prepared for the purpose, on acre No. 59, Lunatic Asylum Reserve, near the corner of Heir and Boromandel Streets, Wellington.

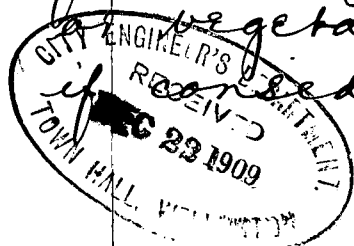
Excavate for the foundations of all walls, piers, piles &c. of the various widths shown to a depth of not less than 18" in the solid ground. Till in & well ram rounds all foundations.

Bricklayers:-

Bricks shall be hard, sound, of a regular size & shape, stock size well burnt.

Cement shall be Portland cement of approved N.Z. brand.

Sand shall be clean, sharp fresh water sand, free from loam, clay & vegetable matter & shall be washed if considered necessary.



Clause 106

Mortar shall consist of Portland cement one part & sand three parts.

Concrete for foundations, sleepers, piers, door steps &c. shall be composed of one part cement, 3 parts crushed blue stone, well graduated in size so as to not exceed 2" in any one dimension, one part sand & four parts approx. clean graduated river ballast. Concrete for all bands, coverings, lintels, balconies, templates &c. shall be in the proportion of 4 parts blue stone as above, one part sand & one part cement. Lintels to be 12" deep & full thickness of walls to have 3" x 3" x 1/2" angle iron cores, one row for each 1/2 brick in thickness with 9" bearing at each end.

The outside steps & foundations for all walls, piers &c. to be of concrete of the widths & depths shown on Drawings.

Foundations of walls to be stepped to suit the fall of ground as shown & directed by Architects.

Piers for sleepers & plates 12" x 10" spaced 4' 0" c. to c. & not more than 6' 0" between the rows.

All brickwork to be built in Old English Bond in the very best style of workmanship. No bats allowed except for closures. All joints to be solidly & completely flushed up with mortar & excessive grouting will not be allowed. No four courses to be

more than 1" higher than the collected height of bricks. Builds up the various walls, piers, partitions &c. coloured Red on Plans in solid brickwork to the several thicknesses, heights &c. shown. Turn 9' relieving arches over all lintels & openings in two half brick bings.

Provide concrete bands at 1st floor & roof levels, reinforced with $\frac{3}{4}$ " diam rods & built so as to provide for brick facing &c. to approval.

About 12" above surface level, over all walls & piers & parapets, also between two thicknesses of concrete floors, evenly spread a damp course of app'd. bit asphaltic patent damp proof material, evenly laid & to be not less than $\frac{3}{4}$ " thick after well rolled & consolidated.

All outer walls as shown to be built with 2 $\frac{1}{2}$ " hollow space from foundation of wall head of 1st floor. The bed joints of outer section to be slightly lower than inner section & the two thicknesses to be bonded together with No. 14 B.P. gauge galvd. hoop iron $\frac{1}{2}$ " thick wide, twisted in the centre as shall be directed to form a drip & ends folded so as to give a 3" tie at each end at least, & 4 $\frac{1}{2}$ " where procurable. These ties are to be inserted one every 2' 3" horizontally & every eighth course vertically placed chequerwise.

The walls (unless otherwise specified) to be bonded at every eighth course

in height with continuous bands of appd. No. 12 galv. fencing wire, one strand for each half brick in thickness, all laced together at all junctions & angles. The 9" & 14" walls upstairs are to have continuous bands of Johnstone's Patent A.B. wire bonding 2½" wide, laid in a similar manner to the foregoing.

The partitions coloured blue-grey on plans to be constructed of Lake Breeze concrete, composed of 3 parts sifted small lake breeze to 1 of cement, reinforced with ¾" strong Patent metal ladder tape, uprights placed 12" apart interlaced horizontally about 4" apart, with similar material stiffened with 1½" x ¼" 2 iron at not more than 3ft. centres.

Carry up the jambs & backs of fireplaces in 9" work at least & turn arches over all opening in 2 half brick rings on 2½" x 1½" wrought iron cambered chimney bars. Gather in as required for flues each 9" x 9" & carry up same in 9" work plastered inside & out.

The erection of all walls to go on uniformly & no part of the brickwork shall at any time be allowed to rise more than scaffold high above any other part.

All lower hearths to be carried up solid to within 2" of floor levels & all upper hearths to be carried on 1½" brick trimmed arches on proper skew backs.

All hearths throughout are to be finished in concrete & covered with 6"x6" glazed tiles.

All floors of N.C.'s Lavatory & Bath room on ground floor to be constructed of a thickness of concrete with an approved damp course of tar asphalt $\frac{3}{4}$ " thick between.

The floors of Balconies to be constructed as above reinforced with No. 4 heavy expanded metal on bottom laps well lapped & carried onto walls.

Build in where directed in base thirty 12"x9" glazed cast iron air bricks to ventilate under floors as directed.

Properly set as self contained kitchen range & high pressure boiler.

Provide six patent "Well Fire" grates.

Asphalt

The yards & passages at back as coloured Blue-grey on plans to be levelled & covered with appd. asphalt 2" x $\frac{1}{2}$ " thick.

Carpenter & Joiner

Timbers shall be well seasoned & free from all defects.

All scantlings, linings &c. to be first class Red Pine or Oregon.

All timbers used in joiners' work unless otherwise specially mentioned including match linings, shall be heart of Red Pine.

The whole of the floor & wall plates to be 4" x 3" in long lengths.

All floor joists & other scantlings shall be spaced at not greater distances than 18" c.t.c.

Deeper plates in all cases to be 5" x 3" in long lengths. Deeper plates to be secured to concrete piers with 5/8" diam. bolts.

Grounds floor joists to be 5" x 2", upper floor joists 4" x 2", double joists under all breeze partitions, & upper floor joists to have one row of herring-bone strutting 3" x 2" for each 8'0" of span.

Construct the roofs as shown, 5" x 2" rafters to be nearly scribed up to 10" x 2" hips, ridges & valleys & birdsmouthed at foot to 4" x 1" pole plates, 4" x 2" struts, hangers & collars to be placed at every pair of rafters & ceiling joists with 5" x 2" continuous bridging pieces at foot of hangers.

Cover the whole of the roofs with

8" x 1" 1st class A. P. Parquet.

The whole of the floors coloured light yellow on Plans are to be covered with 4½" x 1" matched & dressed heart of jarrah or katai flooring.

The ceilings of Terrace dining Rm. Kitchen & Dr's Rooms, Vestibules, Staircases & Corridors are to be lined with appl. fibrous plaster or Munderlock's Patent Embossed steel Cornices.

All other ceilings throughout, to be plastered.

Construct all doors, windows Staircase &c. as shown & finish the whole of the works as generally indicated by Drawings.

Cover the whole of the roofs with Macmillan Tiles (except Granddals) fixed onto wooden battens with copper nails firmly secured.

Plumber

Bay window & porch roofs to be covered with 5 lbs. lead.

Fix 5" O.G. cast iron eaves gutters to all eaves, well jointed & secured.

Roofs to Bay, one storey portion Balcony & 4" O.G. galv. iron footings & 2 1/2" diam. iron galv. down pipes.

Provide & fix where marked D.F. on plans, 3" cast iron down pipes, well secured with strong cast iron clips.

Galv. gutters to be of V.K. 14 zinc 18" wide.

Over each door window & all openings in hollow brick walls provide & fix 6 lbs. cappings.

All chimneys to be finished flashed with 5 lb. lead with separate stepping pieces.

Where roofs abut onto brick walls they are to be flashed with 5 lbs. lead with separate stepping pieces, let 1" into brickwork, plugged with lead & pointed with cement.

Provide & fix two 30" sinks in Scullery.

Provide & fix wash basins in Lavatories & Bathrooms &c. where shown.

Provide & fix in each Bathroom cast iron white enamel Baths with feet complete.

Provide to each of the above Sinks, wash-basins & Baths, 2" 6 lbs.

lead trapped galva. screwed iron waste pipes & overflows to discharge water into gullies.

The floors of Lavatories, Bathrooms & W.C.'s upstairs are to be covered with 5 lbs. lead.

Lay on the water from the nearest main with 1" galva. wrought iron piping with all necessary elbows, bends, junctions &c. jointed with thick red lead. Provide separate $\frac{3}{4}$ " galva. iron branches to each wash basin, sink, W.C. cistern, hot water cistern, bath, shower & four stand pipes outside where detected; each of the above named places to be supplied with $\frac{1}{2}$ " app'd. Siddian's high pressure bib cocks complete & regulating valve to cisterns.

Set up a hot water installation complete throughout, with all necessary circulating cisterns, copper boilers &c. All piping to be best quality steam piping, jointed in red lead, packed in felt & provided with all necessary bends, expansion joints &c. Leave all in perfect working order.

Provide & fix in W.C.'s where shown pedestal closets, properly connected up to drains with junctions & swept joints. Provide & fix 3 gallon cast iron flushing cisterns to approval

with 1/2" lead flushing pipes, brass chains & porcelain pull handles complete. All cisterns fitted with app'd. patent silent valves & syphons. All vertical soil pipes to be of socketted cast iron, caulked with lead & made gas tight. Junctions through walls to be of heavy lead properly jointed to approval.

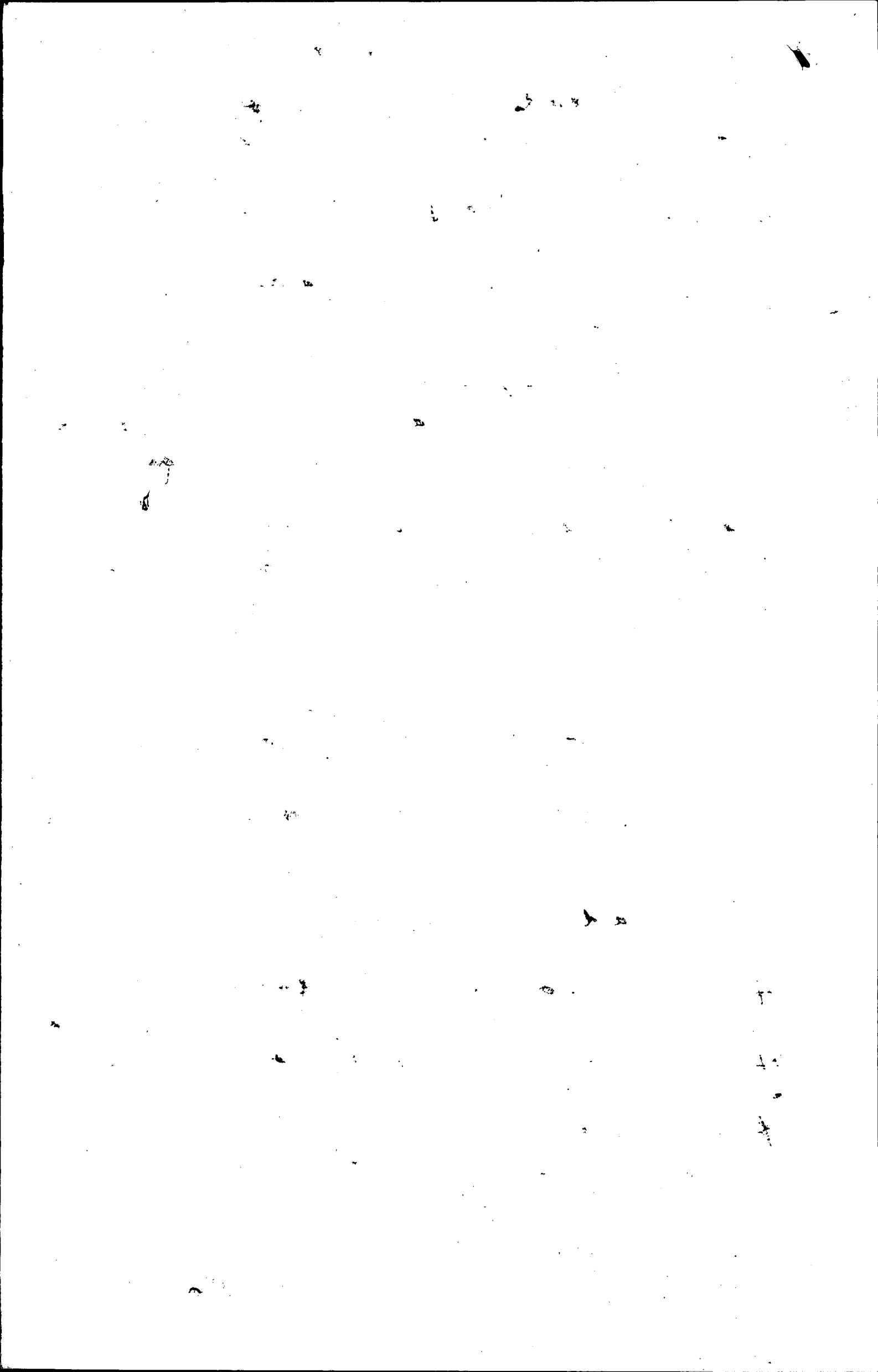
Provide clay wher shown 4" & 6" double glazed stoneware socketted drain pipes, all jointed in cement laid to straight even falls as shown by drawings, & properly connected up with Borough drains. Build 2 man-holes wher directed.

Provide & fix six app'd. glazed stoneware gully traps wher directed, properly connected up to drains. Also wher pointed out insert app'd. 6" Buchan disconnecting trap & fresh air inlet.

From the sewer side of Buchan trap, lead off a 4" vent pipe carried above main roof & terminated with app'd. 12" Boyle's ventilator.

From the top of each closet lead off a 2" diam. vent pipe connected into 3" diam. vent, carried well above roof & finished with cowl.

Fit up an Electric Light Installation complete.



Plaster

Stucco for outside work to be composed of 2 parts approved sand & 1 part best quality Portland cement, finished half half coloured with mineral colouring matter to approval.

The whole of the exposed brick-work outside as coloured yellow, is to be rendered in cement stucco, at least $\frac{3}{4}$ " thick, trowelled smooth as directed.

Finish & float off floor of Balconies with cement stucco $\frac{1}{2}$ " thick with falls, gutters etc.

Laths to be approved Oregon laths spaced $\frac{1}{4}$ " apart & well nailed.

The whole of the coarse stuff for rendering walls & partitions to be Quory or other app'd. hard setting elastic pulp plaster.

Finishing coat to be composed of "Universal" finish.

All the walls, partitions & ceilings where not wood lined to be rendered floated & set; rough stuff to be well pressed into lathing & finished at least $\frac{3}{8}$ " thick.

The floors of 1 n.c. Bathrooms & Lavatory down-stairs, also entrance vestibule, to be tiled with unglazed tiles.

The walls of all n.c.'s. (except two on ground floor at back) Bathrooms, & Lavatories are to be finished off in cement stucco finished inopalite tiling & Keen's cement, 7 ft. high.

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$$\begin{array}{r} 16 \\ - 24 \end{array}$$

$$\begin{array}{r} 64 \\ 3 \overline{) 192} \\ \underline{192} \\ 0 \end{array}$$

Specification of works to be done & of materials to be supplied in the erection of Infectious Diseases Hospital, Isolation Block, Mortuary Block for the Nght. Hospital Trustees,

The buildings are to be erected on a site forming part of Acre 10.39 Lunatic Asylum Reserve, near the corner of Mein & Botomandel Streets, Wellington.

Excavate for the foundations of all walls, piles &c. of the various widths & depths shown, nowhere less than 18" in the solid ground.

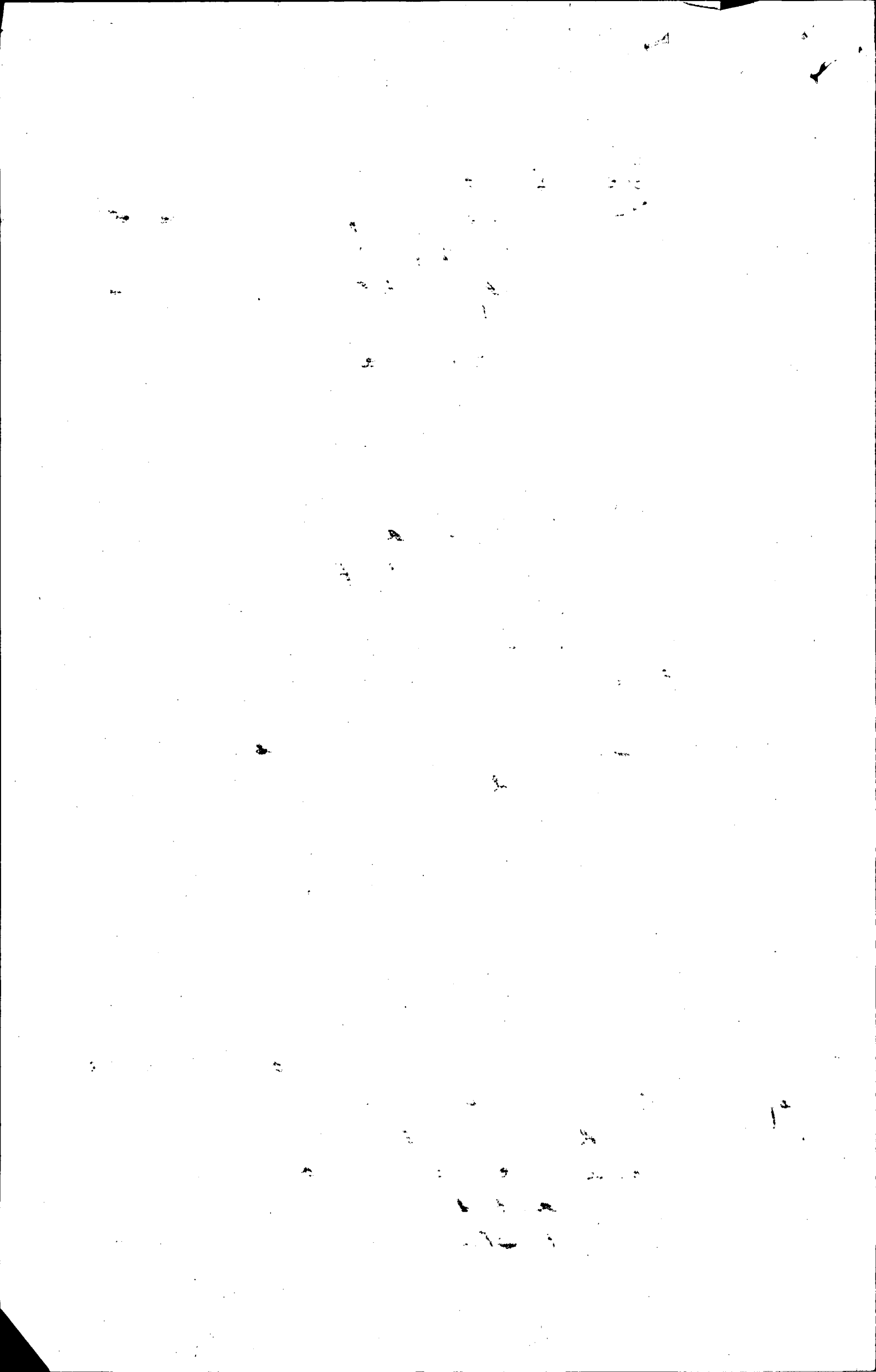
Bricklayers

All bricks shall be hard, sound, of a regular size & shape, stock size well burnt.

Cement shall be Portland cement of appd. New Zealand brand.

Sand shall be clean, sharp, fresh water sand, free from loam, clay or vegetable matter.

Mortar shall consist of 1 part



cement three parts sand, well mixed up on a wooden plank immediately before being used.

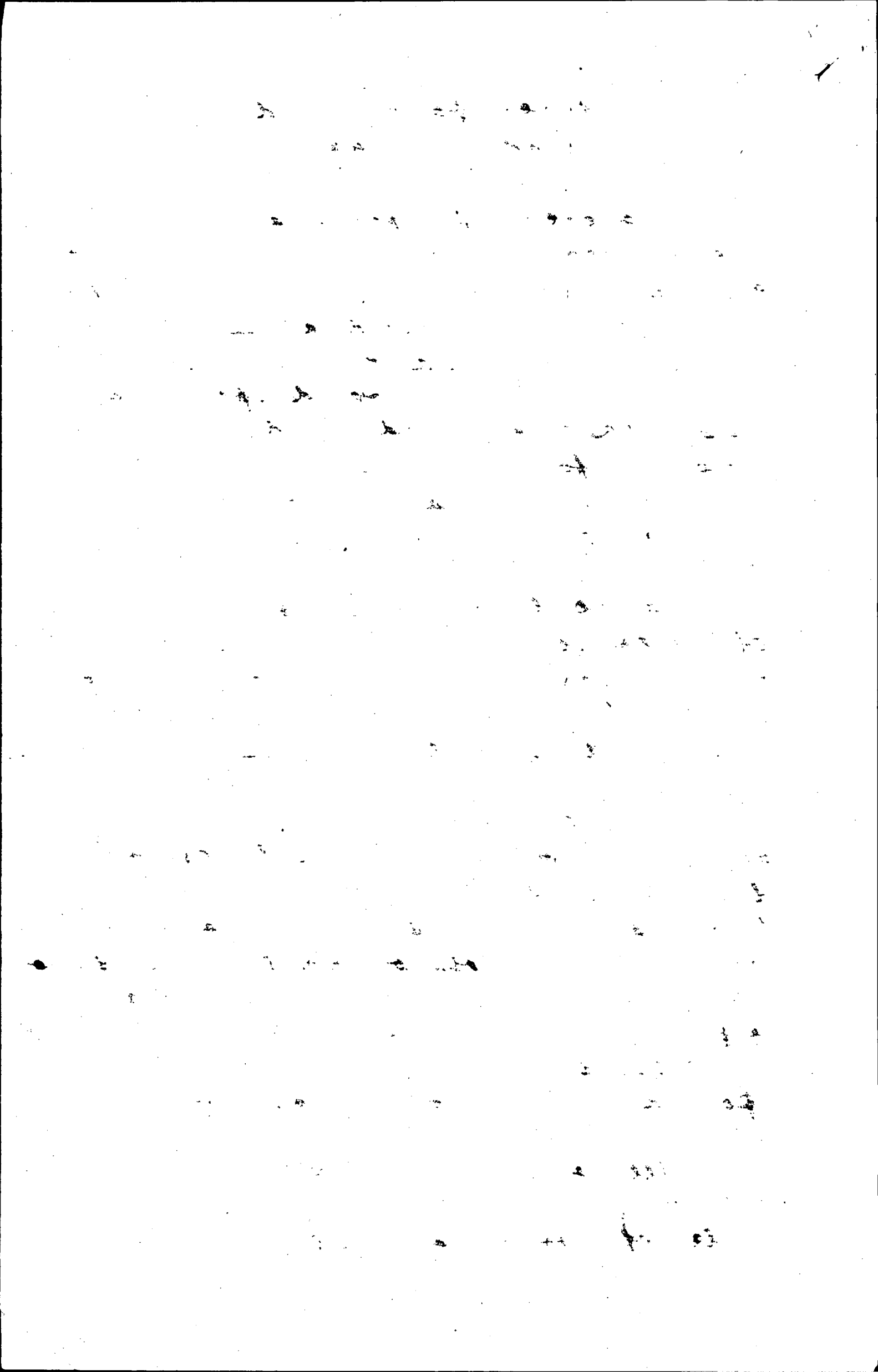
Concrete for foundations, sleeper plates, door steps &c. shall consist of one part cement, three parts crushed blue stone well graduated in size so as not to exceed 2" in any one dimension, one part sand & four parts approved clean, graduated river ballast. Concrete for all bands, coverings, lintels templates &c. shall be in the proportion of 4 parts blue-stone as above, one part sand & one part cement.

Lintels to be 12" deep & full thickness of walls, to have 2" x 2" x 1/2" angle iron cores one row for each half brick in thickness with 9" bearing at each end, to be at least 12" deep & full thickness of walls.

The outside steps & foundations for all walls, piers, &c. to be of concrete of the widths & depths shown in the drawings, in no case less than 12" thick & to have a set off on each side of not less than double the thickness of superincumbent walls.

Piers for sleeper plates 12" x 10" spaced 4' 0" c. to c. & not more than 6' 0" between rows.

All brickwork to be built in Old English Bond in the very best style of workmanship. To have



allowed, except for closures. All joints to be solidly & completely flushed up with mortar & excessive grouting will not be allowed. No four courses to exceed 15" in height.

Build up the various walls, piers partitions &c. coloured red on plans, in solid brickwork to the several thicknesses, heights, &c. shown, in cement mortar.

Turn all semi-circular arches over foundation piers as shown on drawings as required & directed, in half brick rings with bonding courses & tied with Johnston's Patent A. B. wire bonding every half brick thick, parallel to the soffit.

Turn relieving arches over all lintels & opening in half brick rings one row to each 15' of opening.

About 10" above surface level, over all walls & piers &c. also between two thicknesses of concrete floors, evenly spread a damp course of app. 1st asphalt.

The outer walls as shown, are to be built with a 25" hollow space from foundation to wall head. The bed joints of outer sections to be slightly lower than inner sections & the 2 thicknesses to be bonded together with No. 14 B. N. gauge galv. hoop iron 1 1/2" wide, twisted in the centre as shall be directed to form a drip & ends folded so as

to give a 3" tie at each end at least 4 1/2" where procurable. These ties are to be inserted one every 2 ft. 3" horizontally & every eighth course vertically, placed chequerwise.

All walls to be bonded at every eighth & fourth course in height, with appx. No. 12 galvd. fencing wire, one strand to each half brick in thickness. 1 1/2 walls to have one row at every 14th course in height. All to be folded & locked.

Carry up the jambs & backs of fireplaces in 9" work at least & turn arches over all openings in 2 half brick rings on 2 1/2" x 1/2" wrought iron cambered chimney bars.

Set in as required for flues each 9" x 9" & carry up same in 9" work plastered inside & out.

Provide sfc over openings at back entrances to Isolation Wards 8" x 4" x 18 lbs. rolled steel joists, bearing of at least 9" at each end & bolted with 1 1/2" 5/8" bolts to walls.

Under the ends of all girders roof trusses &c. Provide sfc concrete templates each 2'0" x 12" x 9".

All hearths are to be carried up solid within 2" of floor level & finished in concrete & covered on exposed faces with 6" x 6" glazed tiles.

The floors of Lavatories, Bathroom & N.C. Sink room in Isolation Block

to be finished as above, reinforced with 8 gauge, 3" mesh, 8½ lbs. to a yard heavy expanded metal.

Build in where directed, 12" x 9" glazed cast iron air bricks to ventilate under the floors.

Carpenter & Joiner

Timber shall be well seasoned free from all defects.

All wall plates, sleeper plates, ground floor joists etc. shall be heart of Totara or Jarrah.

All other scantlings, linings, sarking etc. to be 1st class red Pine.

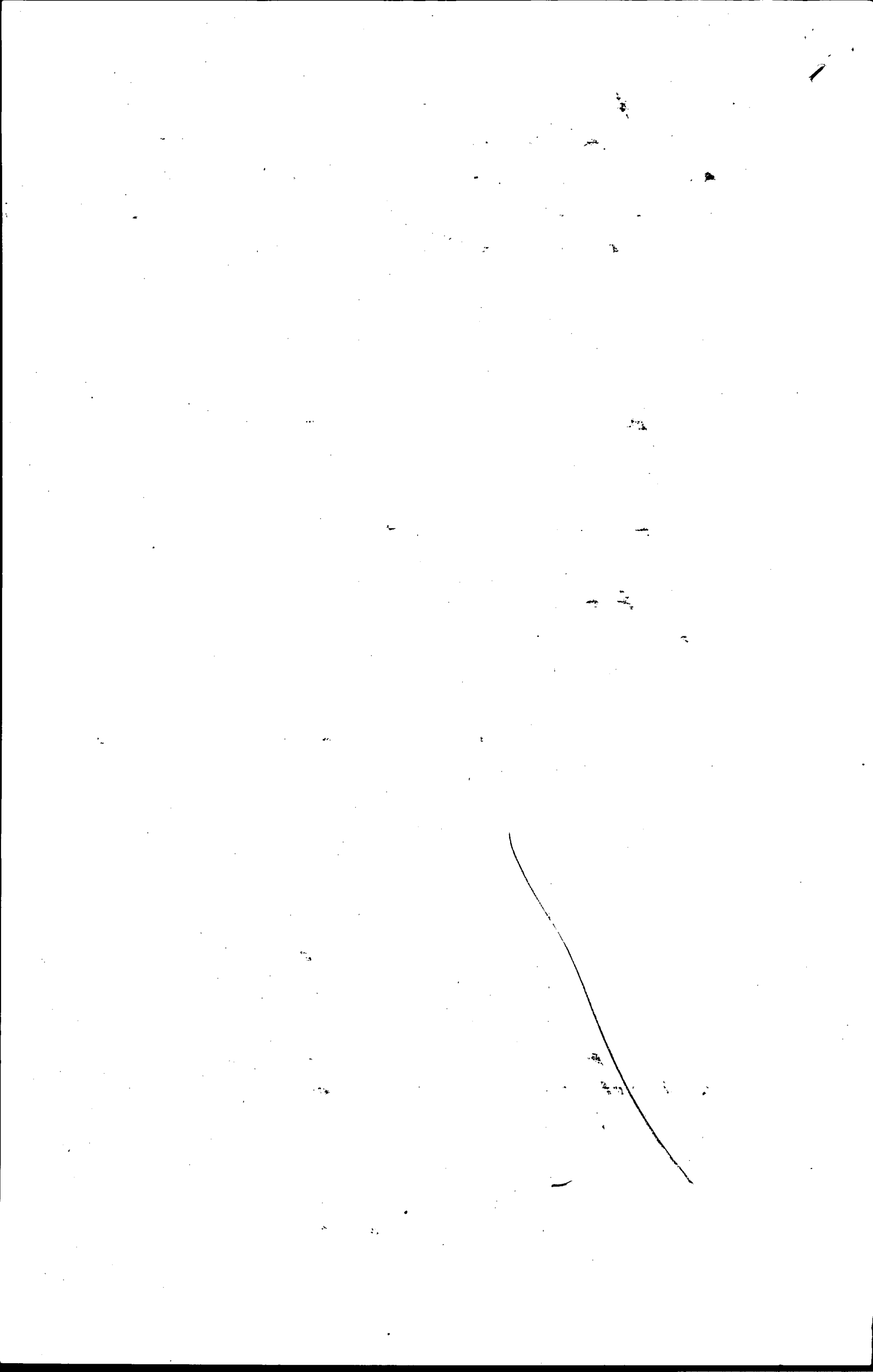
Ground floor wall head plates carrying joists to be 4" x 3".

All floor joists & other scantlings shall be spaced at not greater distances than 18" c. to c.

Sleeper plates in all cases to be 6" x 3", secured to concrete piers with 5/8" diam. bolts.

All joists to be of the sizes figured on drawings, double joists under all breeze partitions; trimmer joists 1" thicker in all cases, tenoned & pinned. All ceiling joists 6" x 2".

All roofs to be constructed as shown, with scantlings figured



All trusses to be fitted together in the most appd. manner, shouldered, tenoned & pinned & lashed as directed. Properly fix all ironwork specified in Smith & Foundry. Ribs, ridges & valleys 10" x 2" strutted where required.

Cover the whole of the roofs including Terraces, with 8" x 1" 1st. class R. F. paring.

The whole of the floors coloured light yellow on plans are to be covered with 4½" x 1" matched & dressed heart of Jarrah flooring.

All ceilings throughout are to be finished with best appd. Asbestos sheeting, 3/16" thick, the joints to fit accurately & then covered with 2½" x 1½" moulded Asbestos battens.

The large Terraces to Infectious Disease Hospital, Isolation Block &c. are to be constructed as shown. Framing to be well braced & to be constructed with the following scantlings:-
Bottom plates 8" x 4", between piers to fronts & 8" x 6" from piers to walls. Joists 6" x 3" at 18" centres laid longitudinally on above. Shaped posts 6" x 6" with cup mould &c. Top plates 6" x 4" between posts & on corbels at wall for gutters, securely fixed to same with bolts as directed. Rafters 5" x 2" birdmouthed onto plates & secured to feet of rafters, to gather beam & wall

with $1\frac{1}{4}$ " diam. iron rods between each post wall. Form gutters against wall.

Floors to be covered with $4" \times 1\frac{1}{4}"$ t. jointed heart of Totara flooring.

The small verandahs to be constructed same as above only the top plates are to be $6" \times 4"$ between posts & $6" \times 3"$ bolted onto wall & the fall of roof will be to the front.

Construct all doors, windows, staircases &c. as shown & finish the whole of the works as generally indicated by Drawings.

Cover the whole of the roofs, except verandahs, with Marseille tiles fixed onto wooden battens with copper wire & firmly secured.

Plumber

Ridge & ridges to be of 5 lbs. lead 20" wide.

Roofs of verandahs to be covered with red edge felt as above & then covered with 24 gauge small corr. galvd. iron, well lapped & secured.

Flash top of verandah board with 5 lbs. lead.

Fix 5" O.C. cast iron paved gutters to all paved.

Provide & fix where marked D. P. on Plans, 4" diam. cast iron socketted down-pipes, well secured to carry water into storm-water channel drains.

Valleys & gutters to be of No. 14 zinc.

Storm box gutters to be of No. 14 at the back of verandahs against wall with 22 gauge galvd. iron, laid with approved falls.

Over each door & window & all openings in hollow brick walls, to be flashed with 5 lbs. lead with separate aprons & stepping pieces.

Provide & fix Sinks &c. wash-basins &c. as shown, with all fittings complete, according to catalogues.

Provide to each of the above 2" 6 lb. lead trapped galvd. screwed iron waste pipes & overflows to discharge water into gullies.

Lay on the water from existing nearest Borough main with 1" galv. wrought iron piping with all necessary elbows, bends, junctions &c. jointed with thick red lead. Provide separate $\frac{3}{4}$ " galv. iron branches to each point as directed; also $1\frac{1}{2}$ " supply pipes to hot water supply cisterns. Each of the above named places to be supplied with $\frac{1}{2}$ " app'd. Siddian high pressure nickel plated brass bib cocks complete & regulating valves to cisterns. All cisterns to be fitted with app'd. Patent silent valves, fitted with copper balls &c. complete.

Fit up a hot water installation complete throughout, with all necessary circulating cisterns, copper boilers &c. All piping to be best quality steam piping, jointed in red lead, packed in felt & provided with all necessary bends, expansion joints &c. Leave all in perfect working order.

Provide & fix where shown, wash-down bracket closets, with cast iron cantilevers, properly connected up to drains with $\frac{1}{4}$ " junctions & wiped joints, with hinged back seats, painted solid cast iron silent 3 gallon siphon flushing cisterns, with wrought iron pipes vitreous enamelled flushing pipes.

Fix & provide to each Bathroom, Lavatory & sink Rm. also 2 to kitchen, 12" x 8" Lawrence Thomas' japanned regulating valve inlet & ventilators, with rods complete.

Fit up an Electric Light
Installation complete.

Provide slay where shown 4" double
glazed stoneware socketed drain pipes
all jointed in cement slaid as shown
by drawings, with all necessary bends,
junctions, branches & properly connected
up with Borough drains. Build manholes
where shown & as directed in 9" brickwork
cemented.

Provide & fix appd. glazed stone-
ware gully traps where shown.

At the point where directed & shown
insert appd. Buchan disconnecting traps
& fresh-air inlets.

Where marked "C.C." on plan, insert
cleaning eyes.

From the sewer side of Buchan
traps lead off a 4" vent pipe carried
above main roof, & terminated with appd.
Boyle's ventilator.

From the top of each closet
& slop sink siphon, lead off 3" diam. 22
gauge grooved galv. iron vent pipe carried
connected into 3" diam. similar vent,
carried well above roof & finished with
cowb.

Plaster.

Stucco for outside work to be composed of 2 parts approx. sand & one part best quality Portland cement, finished half & half.

The whole of the exposed brick-work outside, coloured yellow on elevations, to be rendered in cement stucco at least $\frac{3}{4}$ " thick, trowelled smooth.

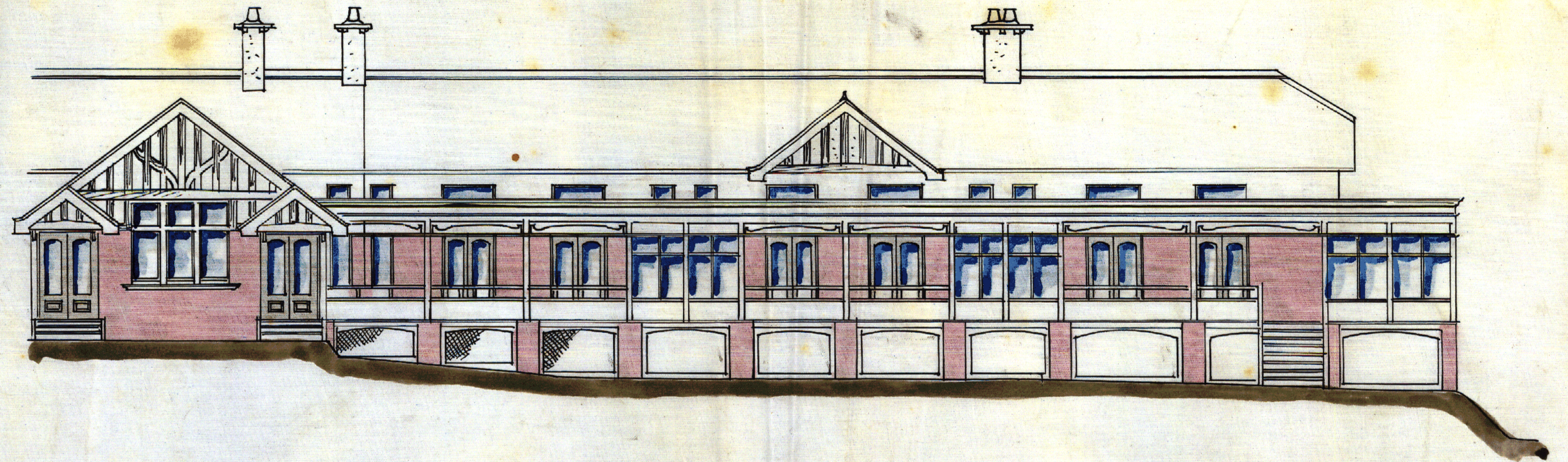
All walls of Bathrooms, N. Co., & in the Lavatory Blocks in both Buildings are to be rendered in stucco $\frac{3}{4}$ " thick & finished with best quality approved 6" glazed white tiles to the height of 6 feet.

All other walls & partitions inside are to be rendered in stucco & finished in neat Keen's cement.

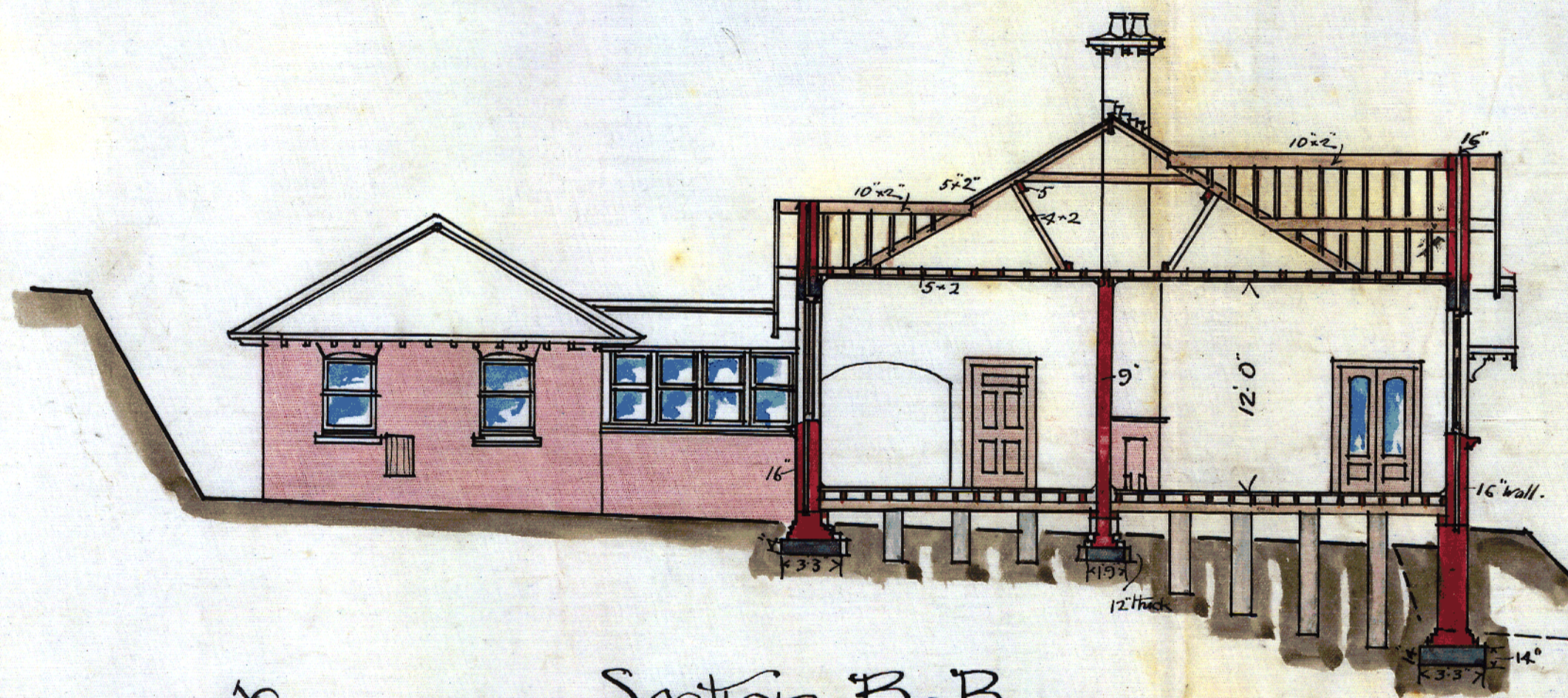
The floors of Bathrooms, Lavatories & N. Co. Blocks &c. as coloured pink on plan are to be covered with patent "Arkilite" flooring, $\frac{1}{2}$ " thick, trowelled smooth to a highly polished face.

Hospital for Infectious Diseases

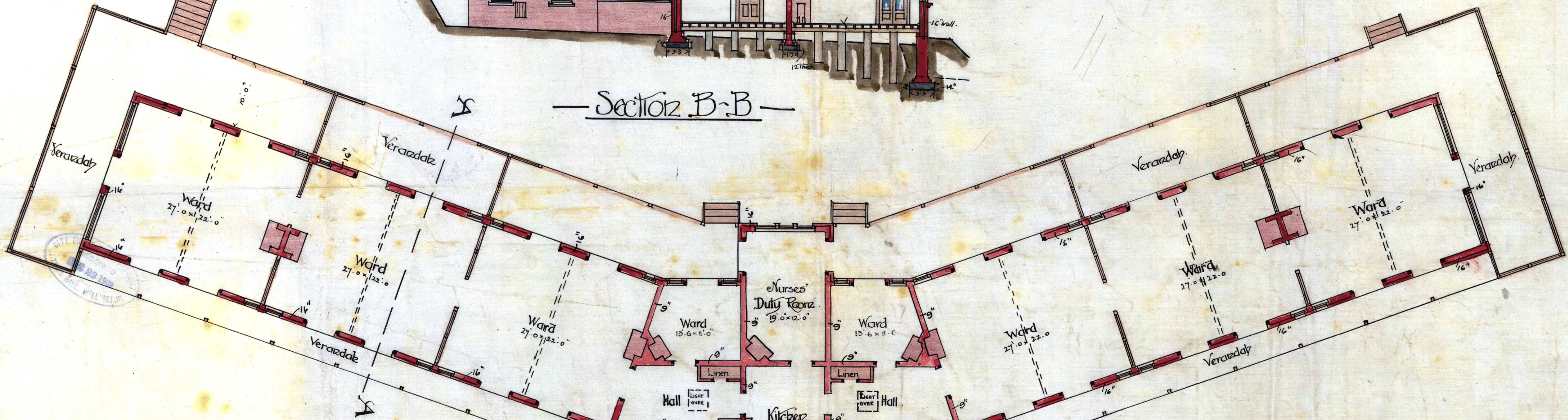
Wellington



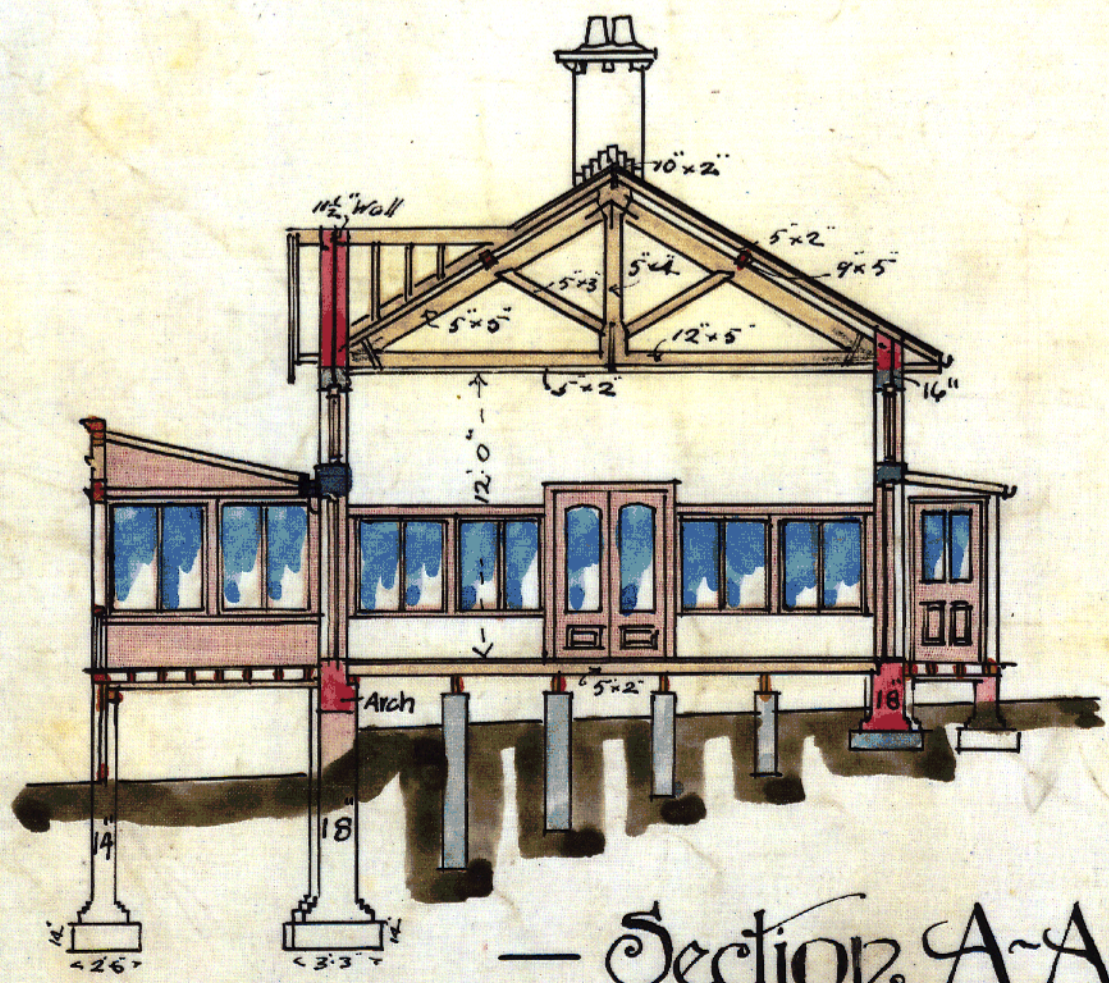
Half Front Elevation



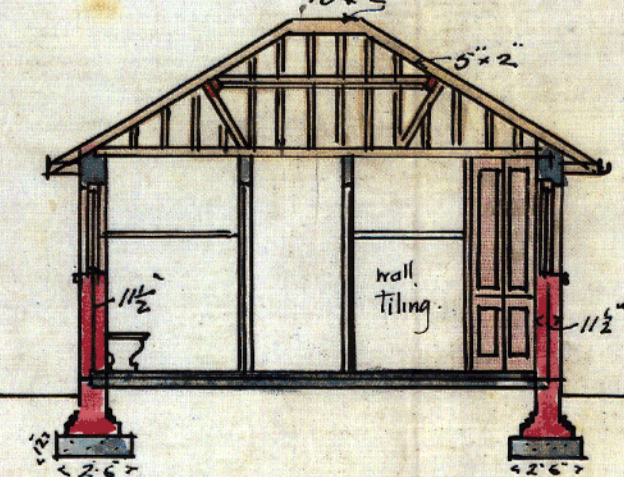
Section B-B



Plan



Section A-A



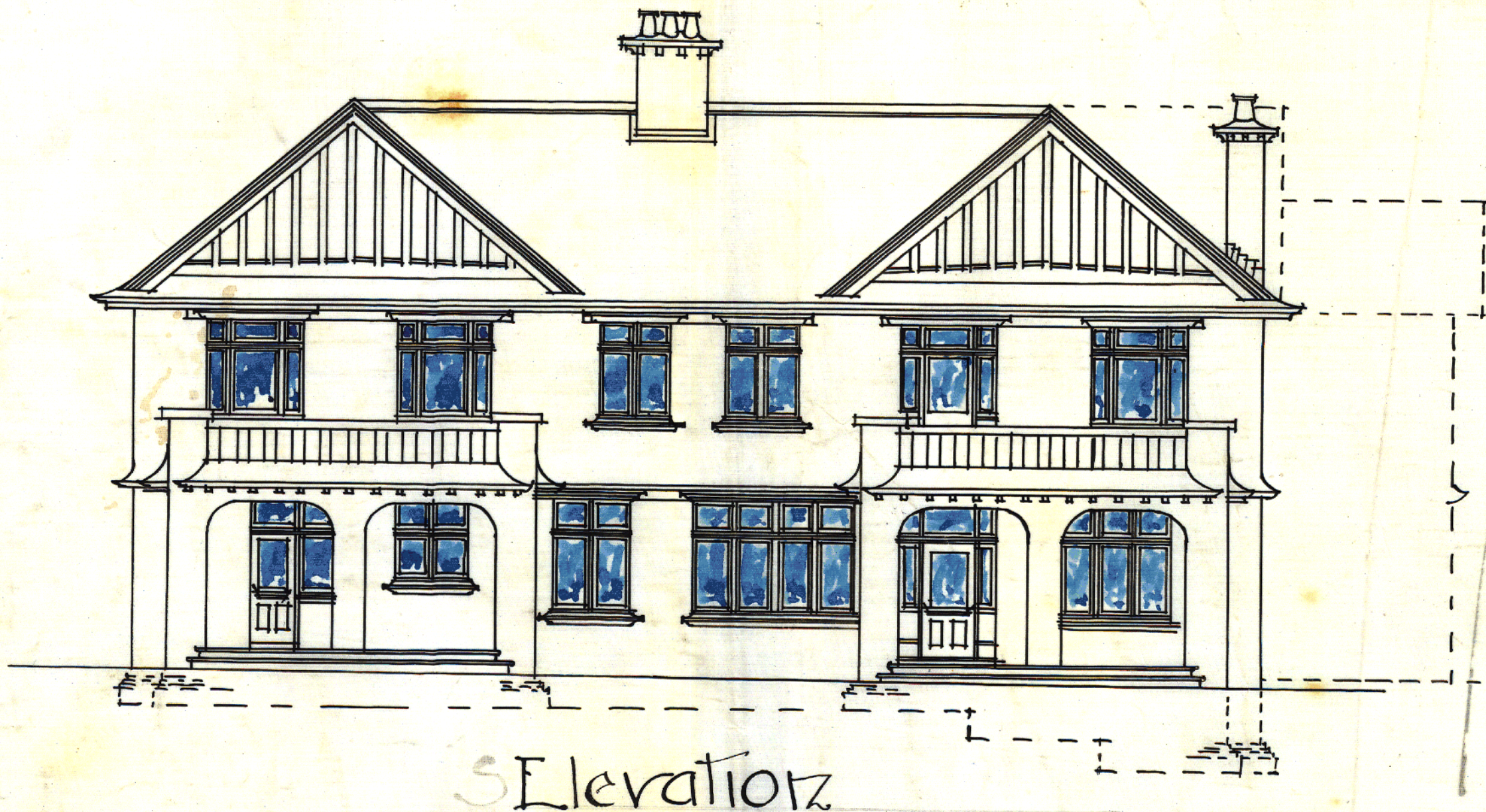
Section D-D

Permit may be issued
see deposit
with the
W.S.M.
1.3.10

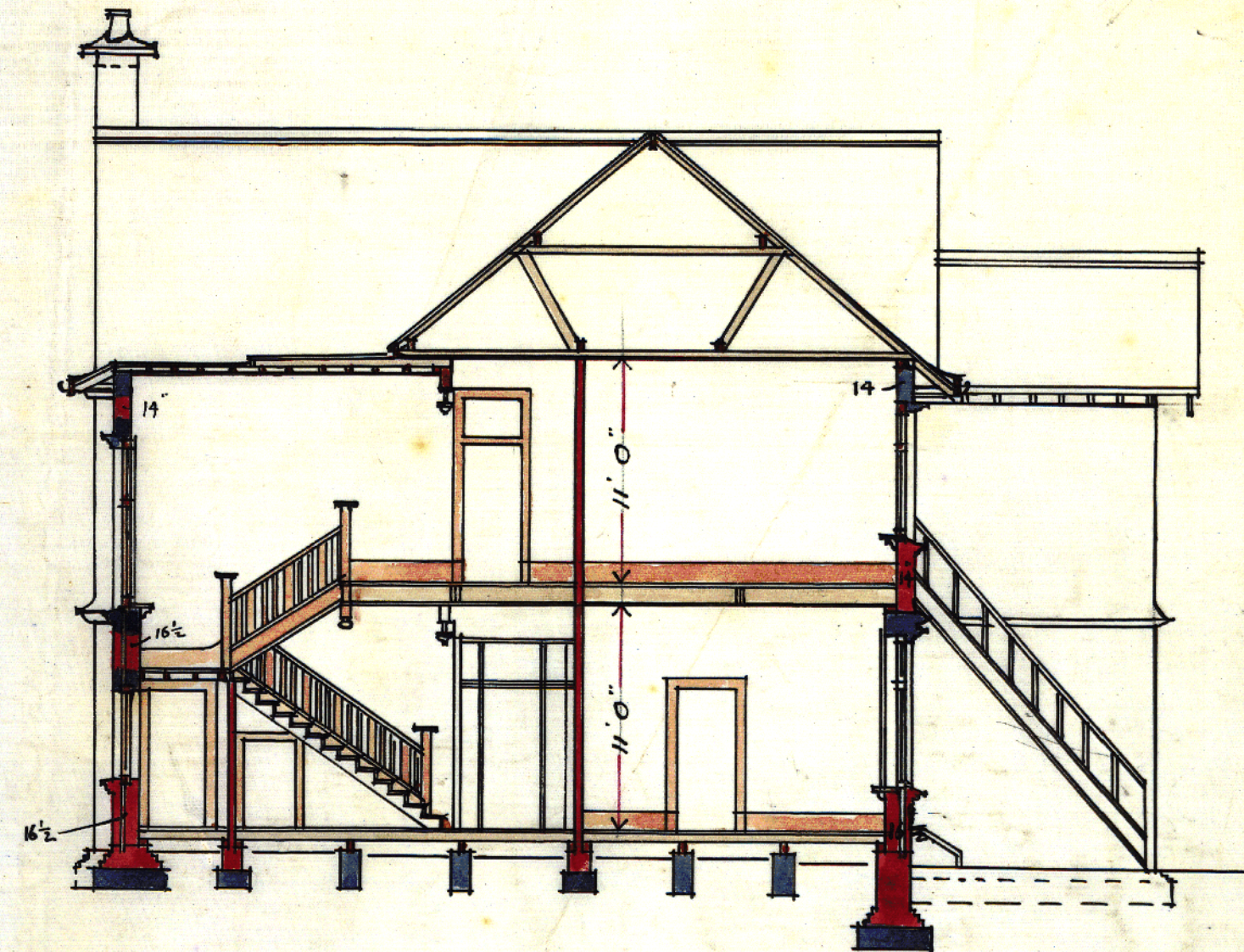
Scale 8 ft. to 1 inch.

17/12/09

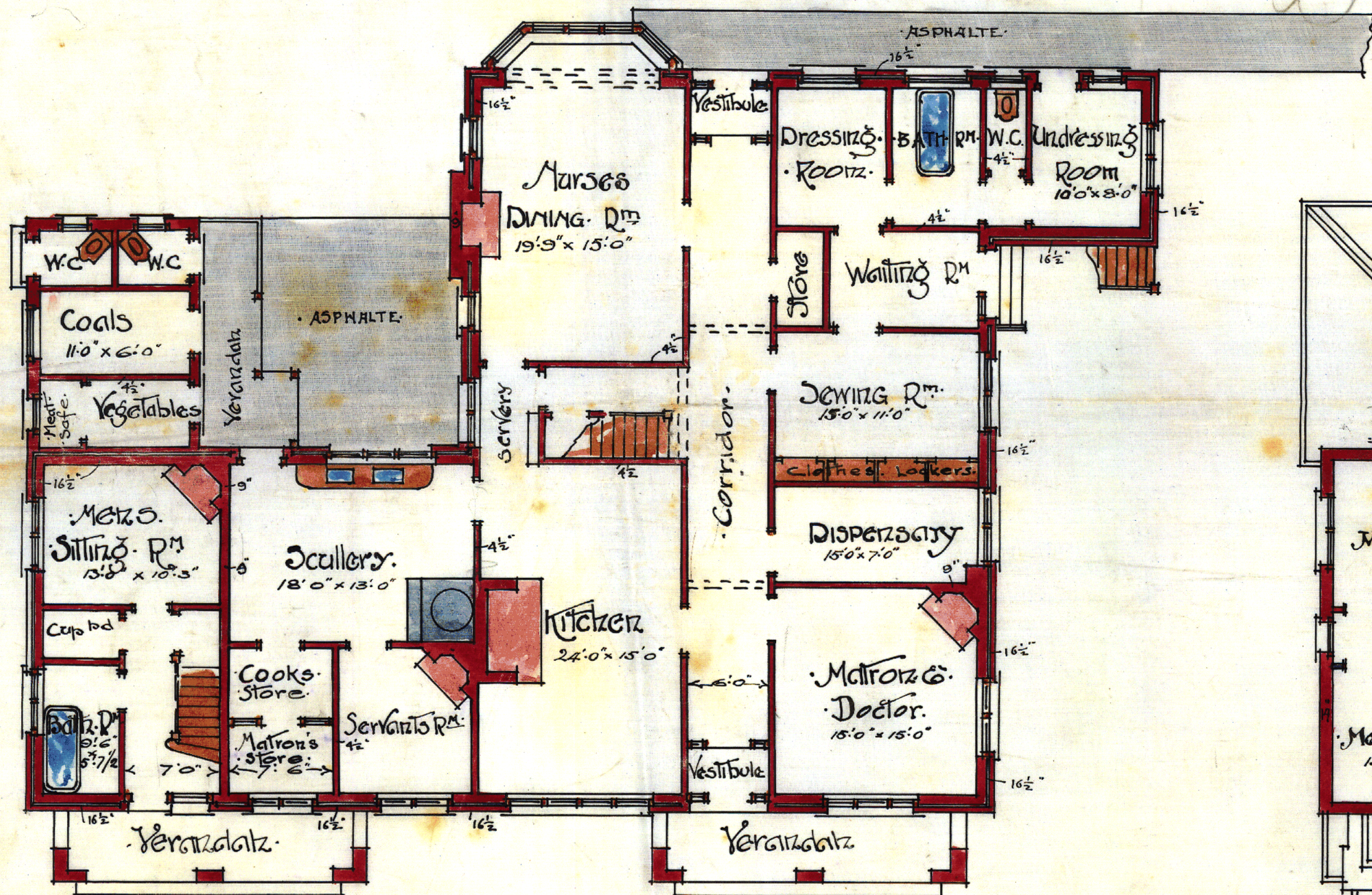
Wellington Hospital Administrative Building



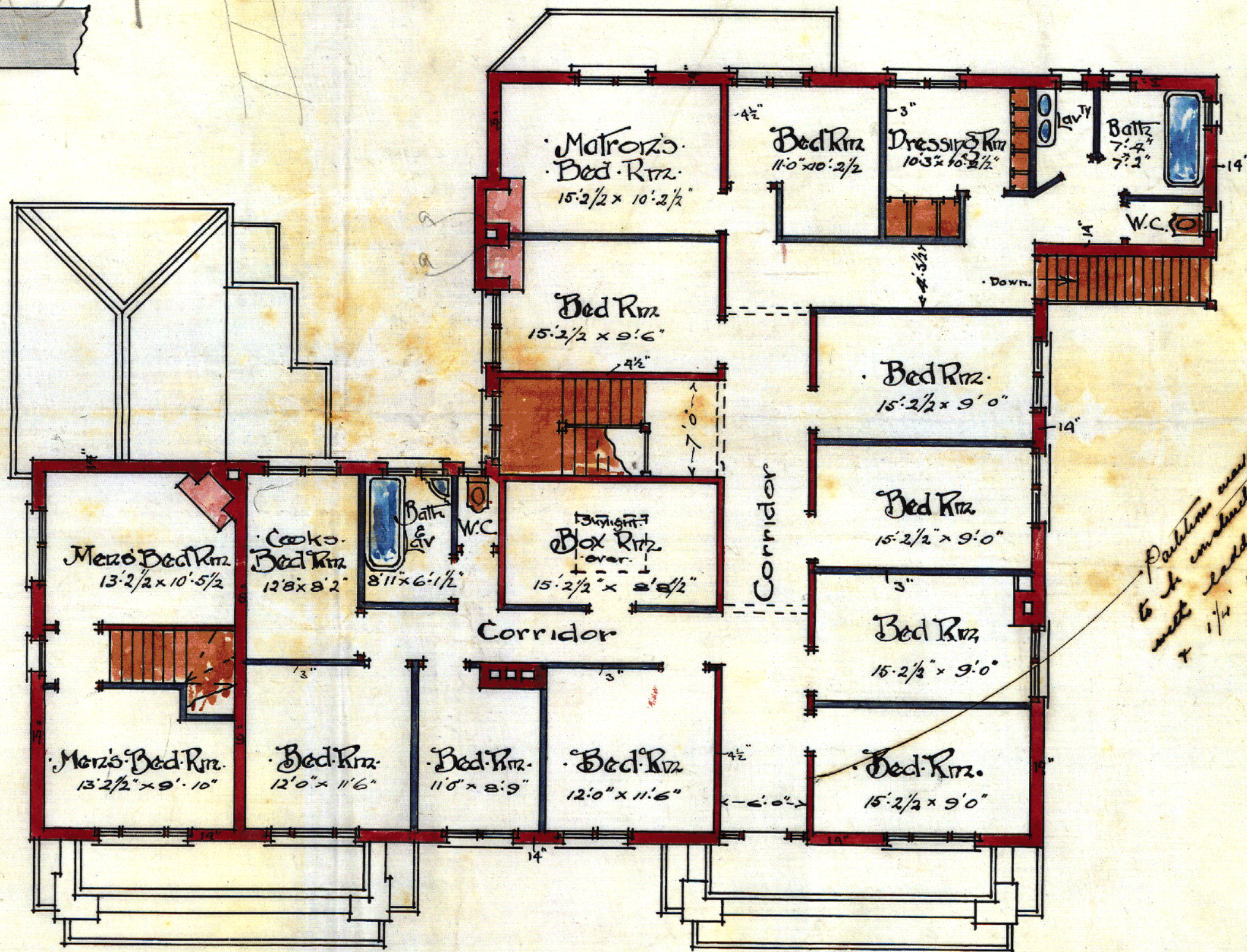
Elevation



Section



Ground Floor



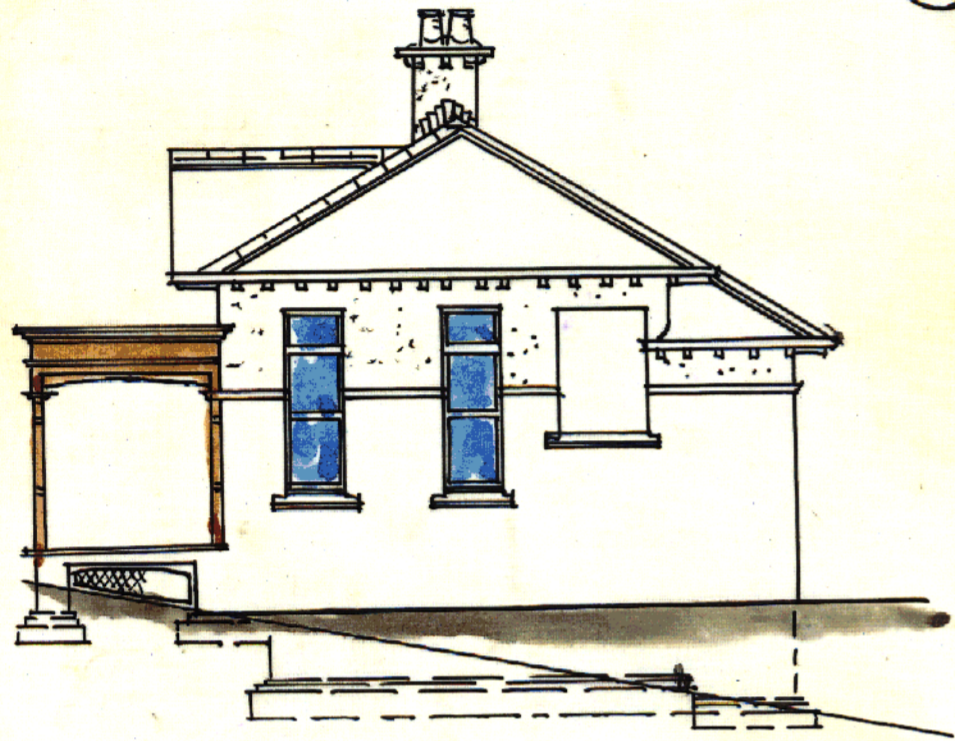
First Floor

Scale: 8 feet to 1 inch

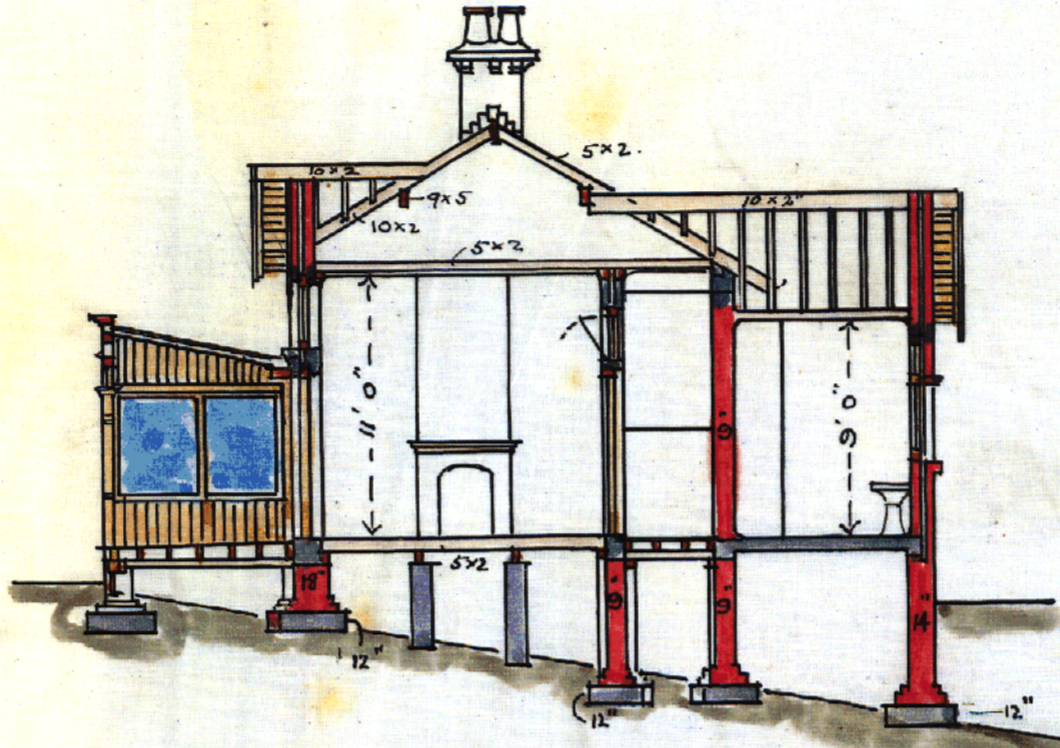
*Partitions marked red
to be constructed in heavy concrete
with leaden reinforcement
1/4" standard 3/4" casing
Heard & Mc Donald
Per S. Hunt
1.3.10*



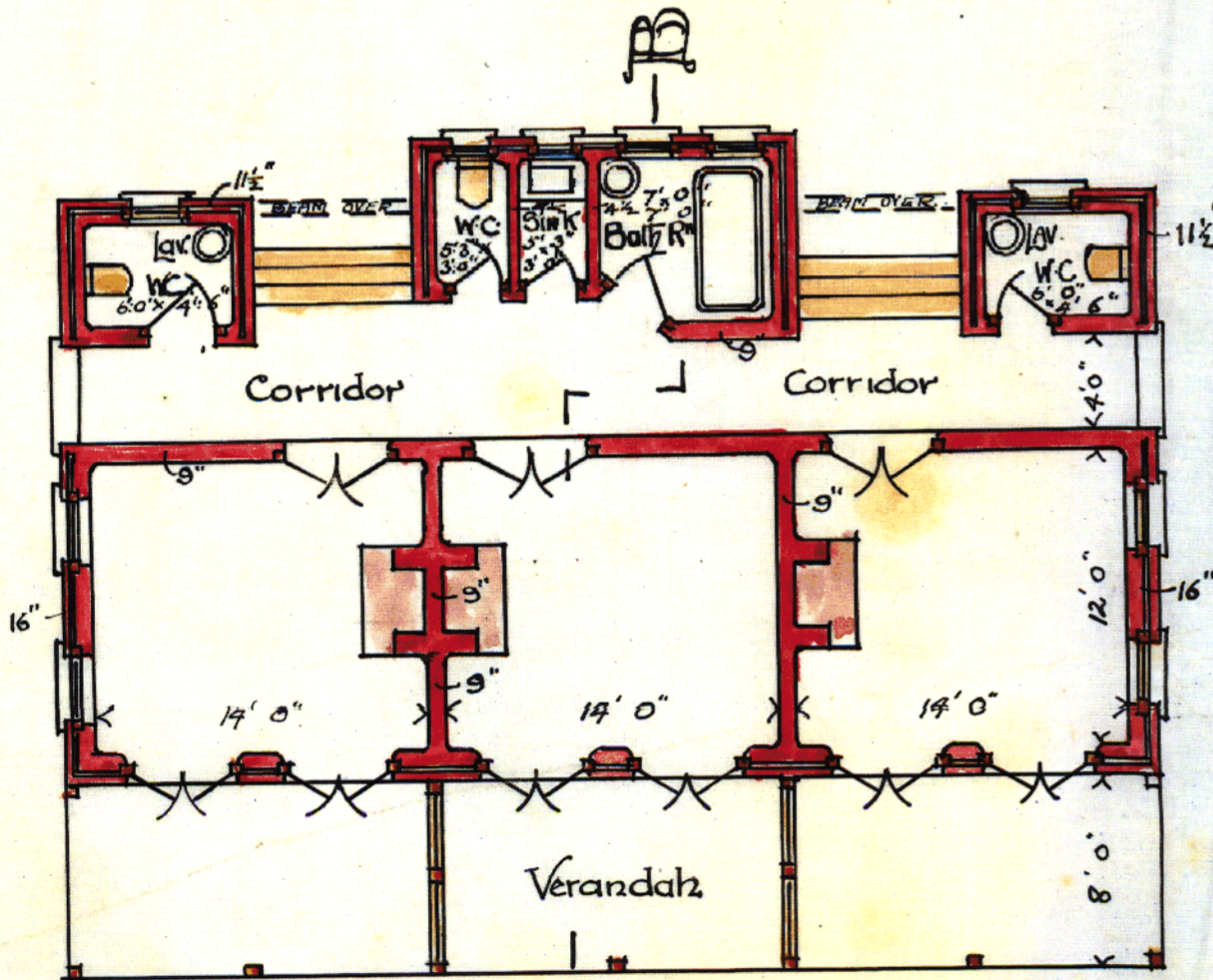
Infectious Disease Hospital
Wellington.



End Elevation

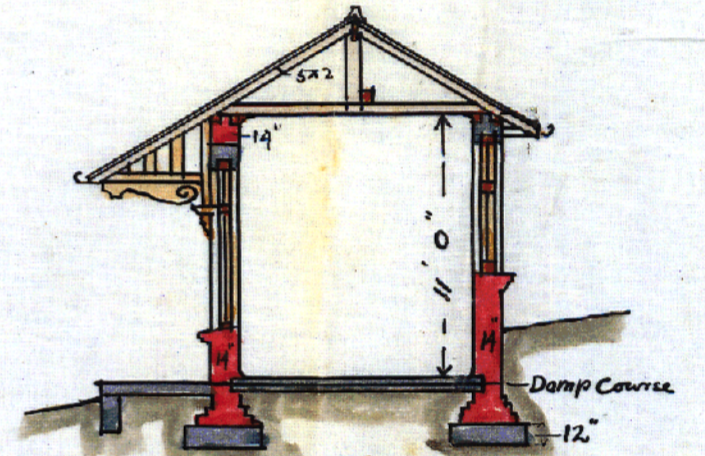


Section A-B

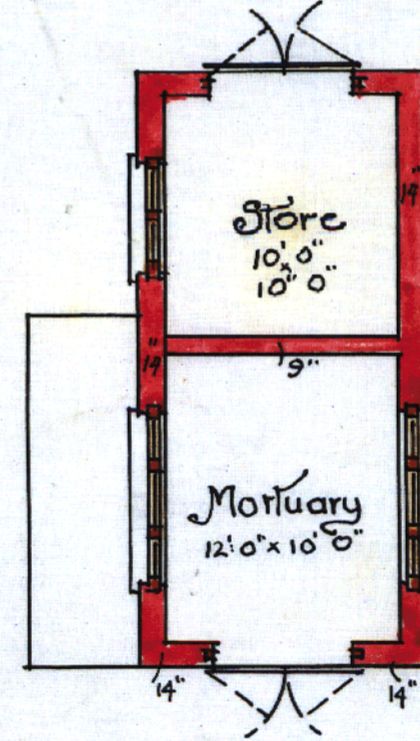


Isolation Ward

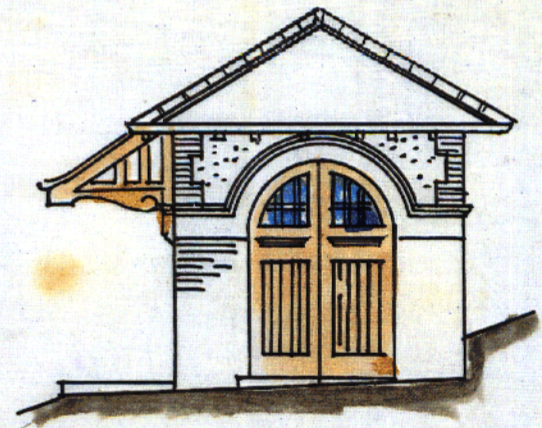
Scale 8 feet to 1 inch



Section

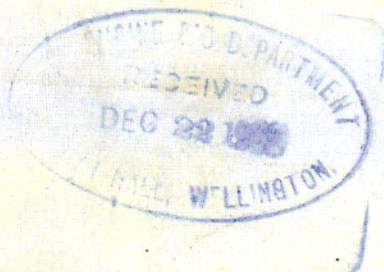


Plan



Front Elevation

Mortuary, Etc.



Plan