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CONSERVATION STUDY

MAIN BUILDING PRINCIPAL'S RESIDENCE

5324.003.002

THE UNIVERSITY OF ADELAIDE
ROSEWORTHY CAMPUS



VOL 2

CHRIS LOAN ARCHITECTS

JUNE 1994

FORMER

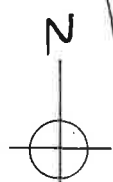
Roseworthy Agricultural College

NOW

University of Adelaide

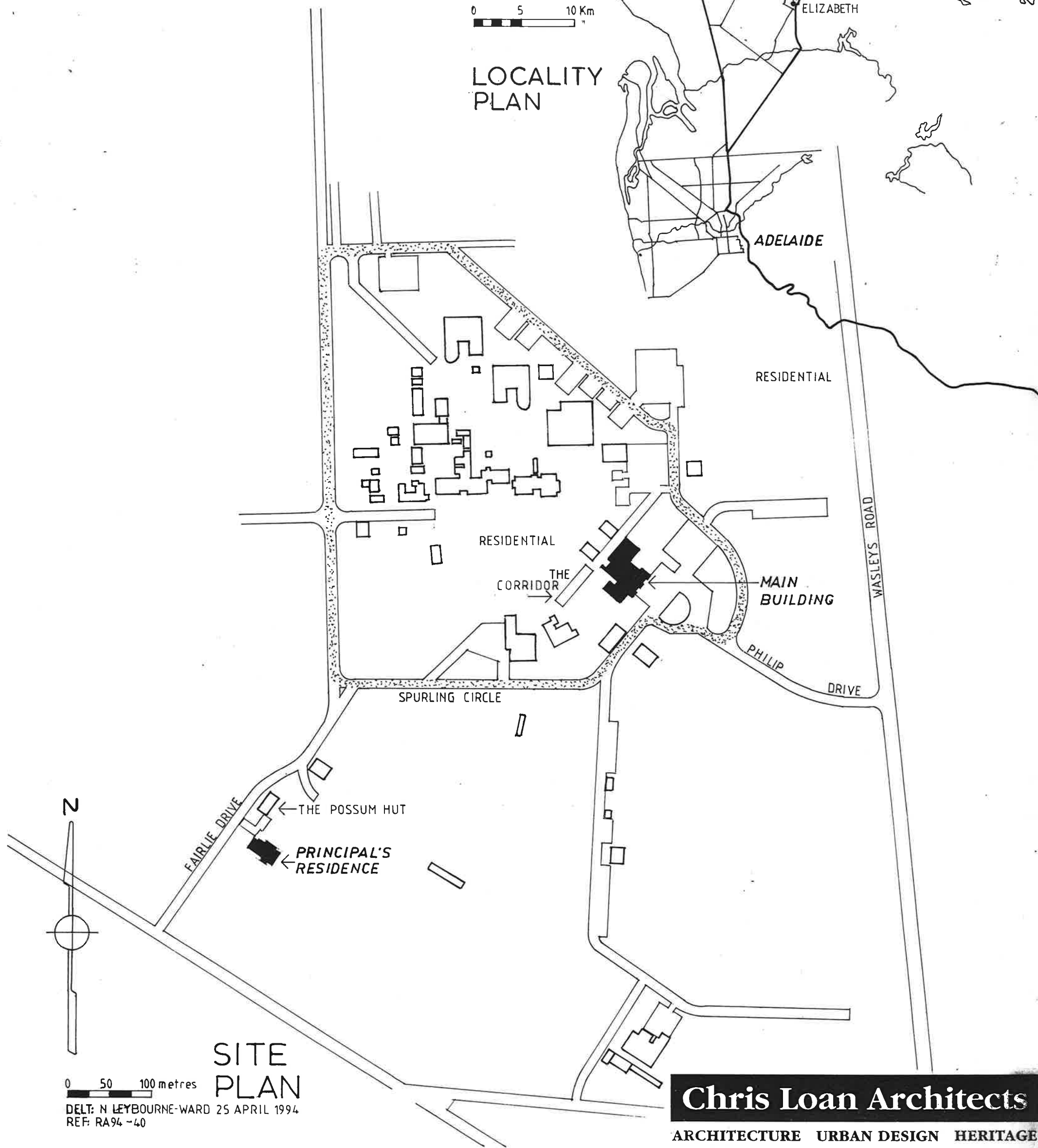
ROSEWORTHY CAMPUS

DRAWING N° 1



0 5 10 Km

LOCALITY PLAN



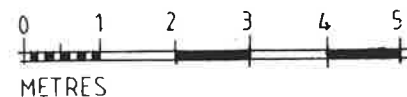
SITE PLAN

0 50 100 metres

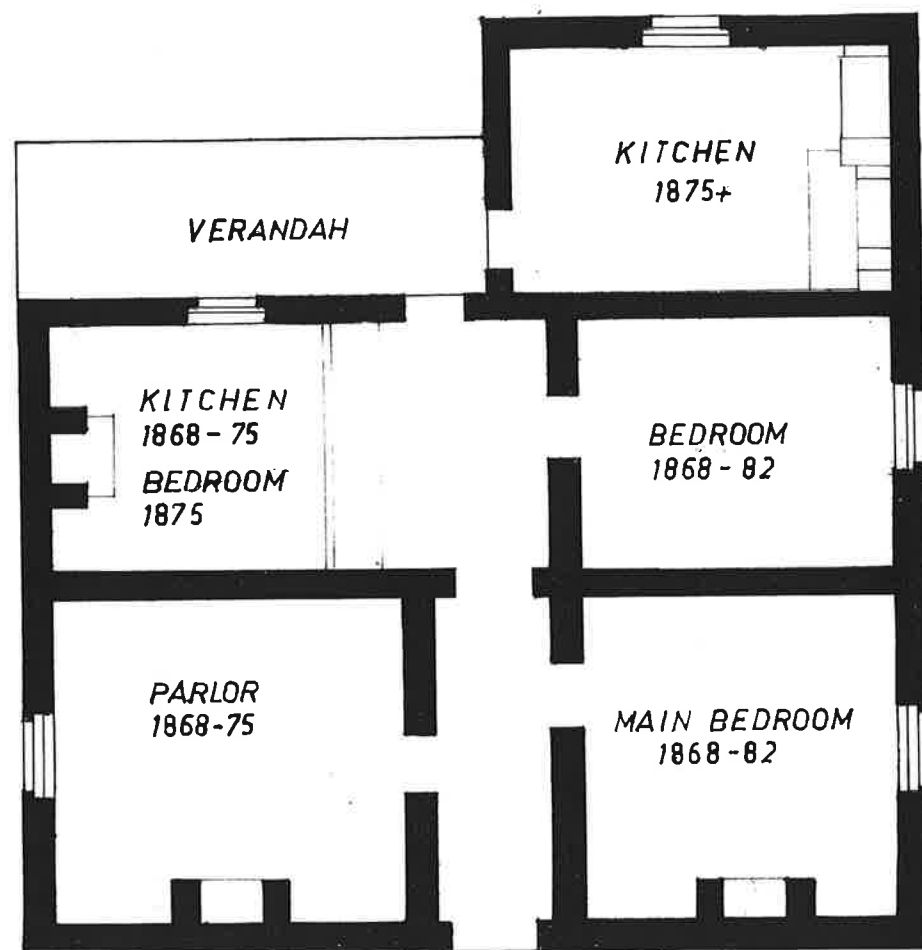
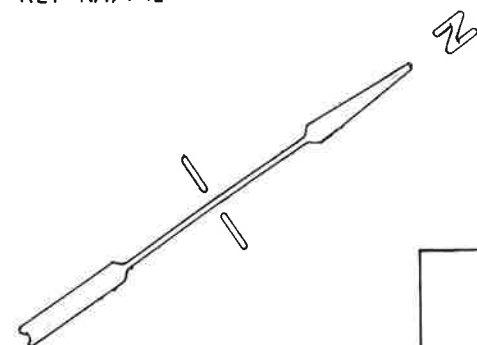
DELT: N LEYBOURNE-WARD 25 APRIL 1994
REF: RA94-40

Chris Loan Architects

ARCHITECTURE URBAN DESIGN HERITAGE
107 SOUTH TERRACE ADELAIDE SOUTH AUSTRALIA 5000
TELEPHONE (08) 410 4500 FACSIMILE (08) 410 4501



DELT. N. LEYBOURNE WARD 16:4:94
REF RA94-42



ROSEWORTHY CAMPUS

PRINCIPAL'S RESIDENCE

FORMERLY KNOWN AS OLIVE HILL FARM

HISTORICAL STUDY 1864-1882

1864-1865 JAMES AND MARGARET TREGO-WILLIAMS

1865-1868 JAMES WRIGHT SAWLE

1868-1875 THOMAS GARDINE WILLIAMS

1875-1882 RICHARD NOTTLE

1882 DAVID KERR

1864 November: Trego-Williams bought sections 686-687-690-693-694 Hundred of Mudla Wirra; 573 acres for £900.

1864 December: Two small wattle and daub rooms and a lean-to.

1865 A two roomed cottage, a well built brick chimney, the rooms wattle and daub.

1865 Work commenced on underground tank and cottage.

1867 Economic depression.

1868 Sale to Gardine Williams who planned to build another cottage on the other side of the underground tank. Cellar or dairy constructed. Williams built a four room house, substantial by local standards, with stone from his own property - board floor, galvanised iron roof, gutters and down pipes. House and cottage provided water to the underground tank. Stone walls 14" thick. Lath and plaster and horse hair ceiling. German labourer from the Barossa Valley.

Williams planned to start a cellar outside the kitchen and continue the back verandah around to the entrance.

1875 Purchase by Nottle. The cellar 8' x 12' extant - walls 14" thick.

Nottle plans a front verandah.

Nottle builds a new kitchen with a good stove. Existing kitchen partitioned off to form a passage.

Two Kurrajong trees planted by the kitchen window.

Ref: Herriot, Vee W (1982) *The House on the Hill*.

28 APRIL 94

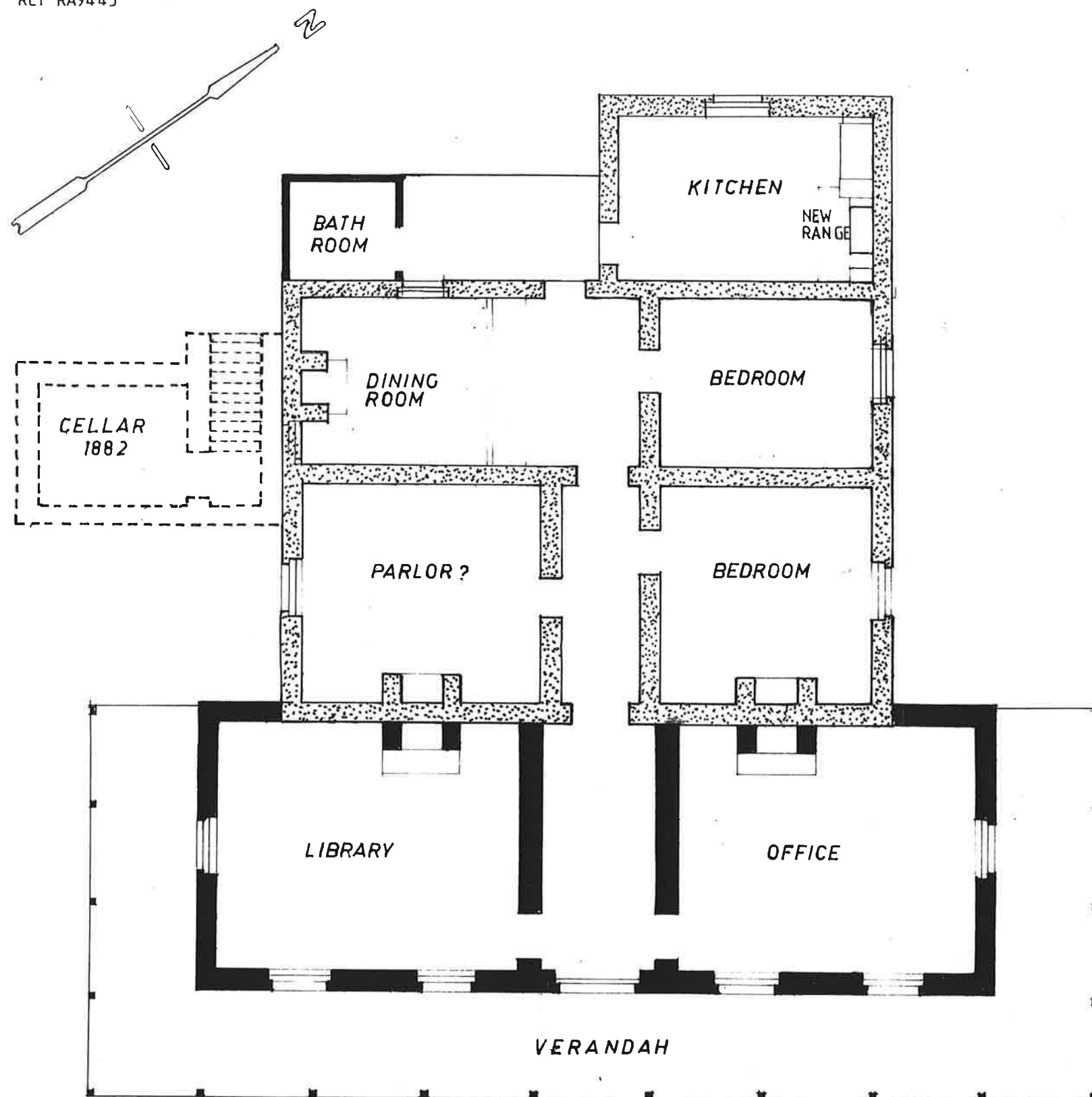
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2



DELT. N. LEYBOURNE - WARD 16:4:94
REF RA9443



ROSEWORTHY CAMPUS

PRINCIPAL'S RESIDENCE

FORMERLY KNOWN AS OLIVE HILL FARM

HISTORICAL STUDY 1882-1888

1882-1886 PRINCIPAL: JOHN DANIEL CUSTANCE

EXTENT AT PURCHASE BY UNIVERSITY OF ADELAIDE 1882

ADDITIONS 1882 CONTRACTOR: THOS GRIGGS
CONTRACT DATE: 5 MAY 1882

1882 David Kerr sold the property, 728 acres, (100 acres not cleared) to the South Australian Government for £6 an acre.

1882 March: Possession of the farm and buildings. Custance takes up residence.

Three mature Kurrajong trees extant.

Four rooms and separate kitchen extant.

Custance had the authority to build two rooms on the front - one an office, the other a library.

Stone proposed to be from Tarlee.

A cottage built a little away from the house.

A verandah built on the front.

1885 February 3: Roseworthy College opened.

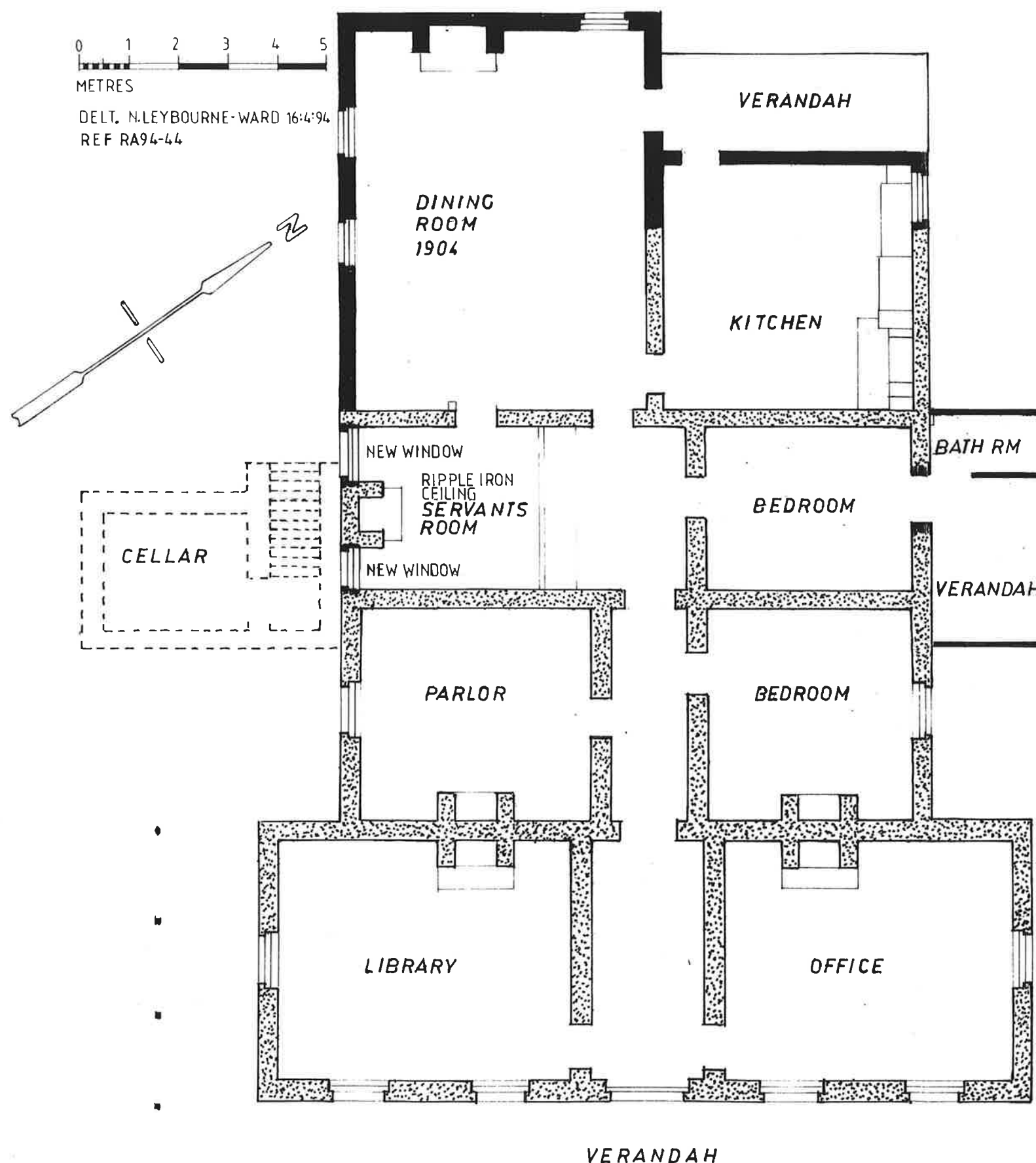
---- In Custance's day the cellar was made larger and lined, the entrance made outside near the original kitchen. An external bathroom was constructed.

Ref: Herriot, Vee W (1982): *The House on the Hill*.

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ROSEWORTHY CAMPUS

PRINCIPAL'S RESIDENCE

FORMERLY KNOWN AS OLIVE HILL FARM

HISTORICAL STUDY 1888-1914

PRINCIPALS

1888 1901 WILLIAM LOWRIE
1902 1904 JOHN TOWAR
1904 1914 ARTHUR JAMES PERKINS

EXTENT OF CONSTRUCTION AT 1904

ADDITIONS 1904

1904 Kitchen enlarged, new dining room, two windows added to the south wall of the old dining room.

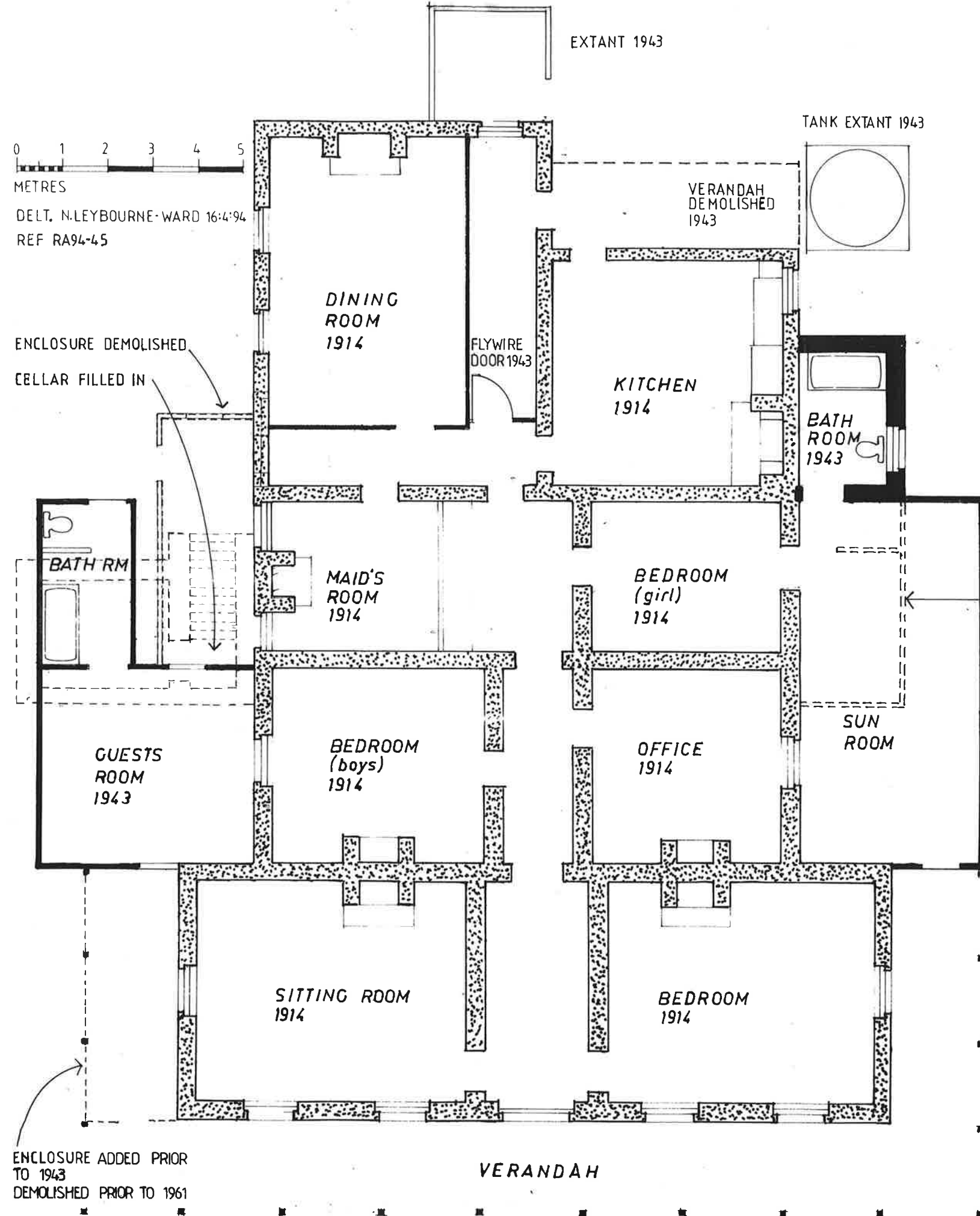
Jackaranda tree planted south of the old dining room; six varieties of palm planted in the front garden; orange and mandarin trees planted. Two of the pines: 'monkey puzzle pine' and Norfolk Island Pine.

Ref: Herriot, Vee W (1982): *The House on the Hill*.

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ROSEWORTHY CAMPUS

PRINCIPAL'S RESIDENCE

FORMERLY KNOWN AS OLIVE HILL FARM

HISTORICAL STUDY 1914-1961

PRINCIPALS

1914 - 1927 W J COLEBATCH

1927 - 1932 W R BIRKS

1932 - 1949 A R CALLAGHAN

1949 - 1961 R N McCULLOCH

 EXTENT OF CONSTRUCTION AT 1943

 ADDITIONS ca 1943

29 APRIL 94

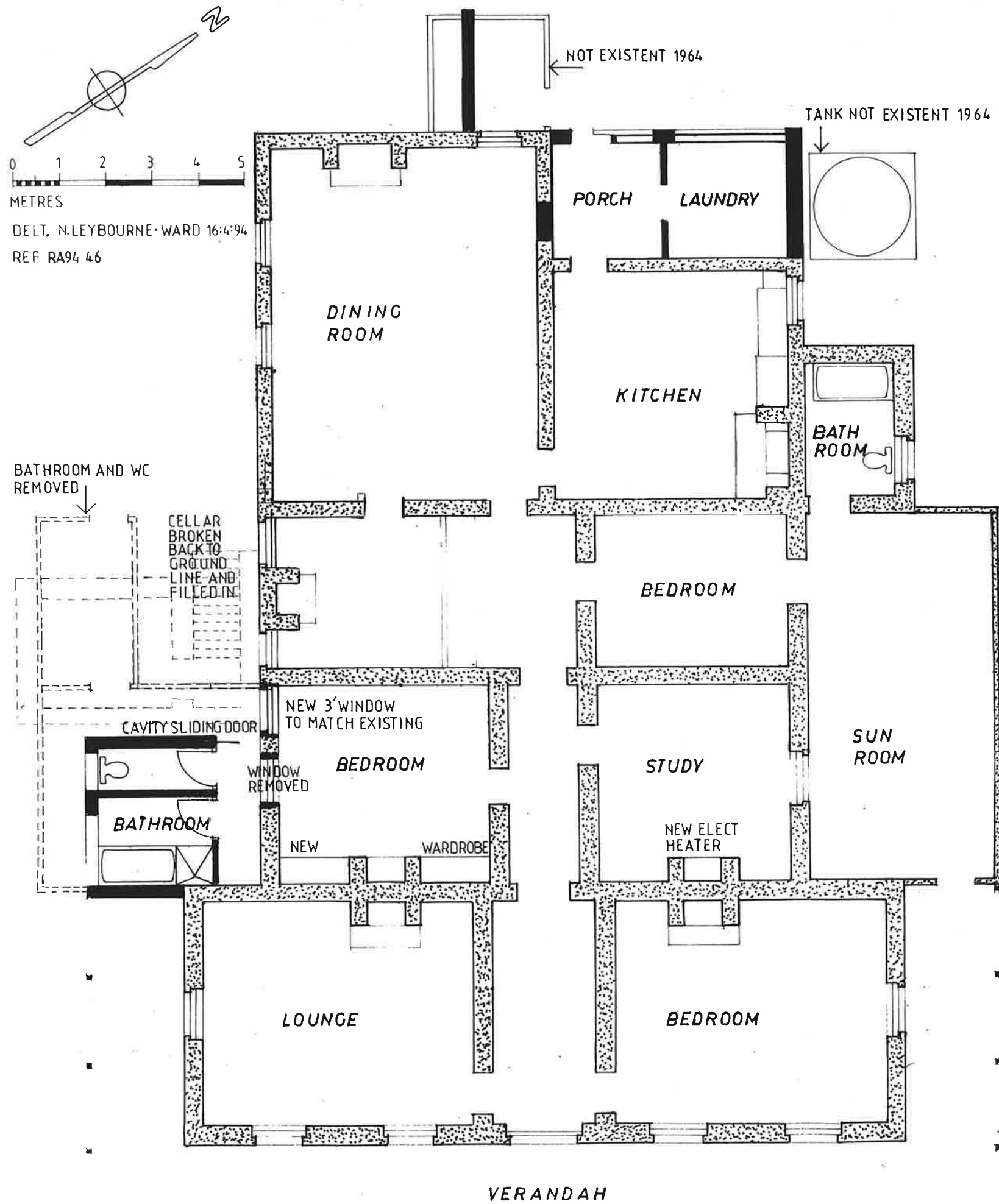
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0 1 2 3 4 5
METRES
DELT. N. LEYBOURNE WARD 16:4:94
REF RA94 46



ROSEWORTHY CAMPUS

PRINCIPAL'S RESIDENCE

FORMERLY KNOWN AS OLIVE HILL FARM

HISTORICAL STUDY 1961-1972

PRINCIPAL: R I HERriot

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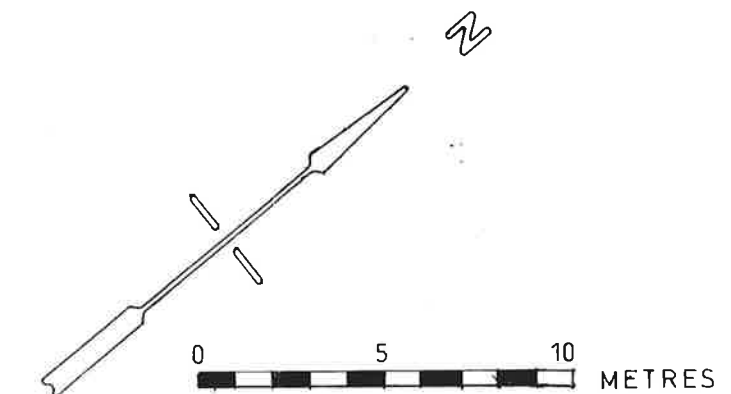
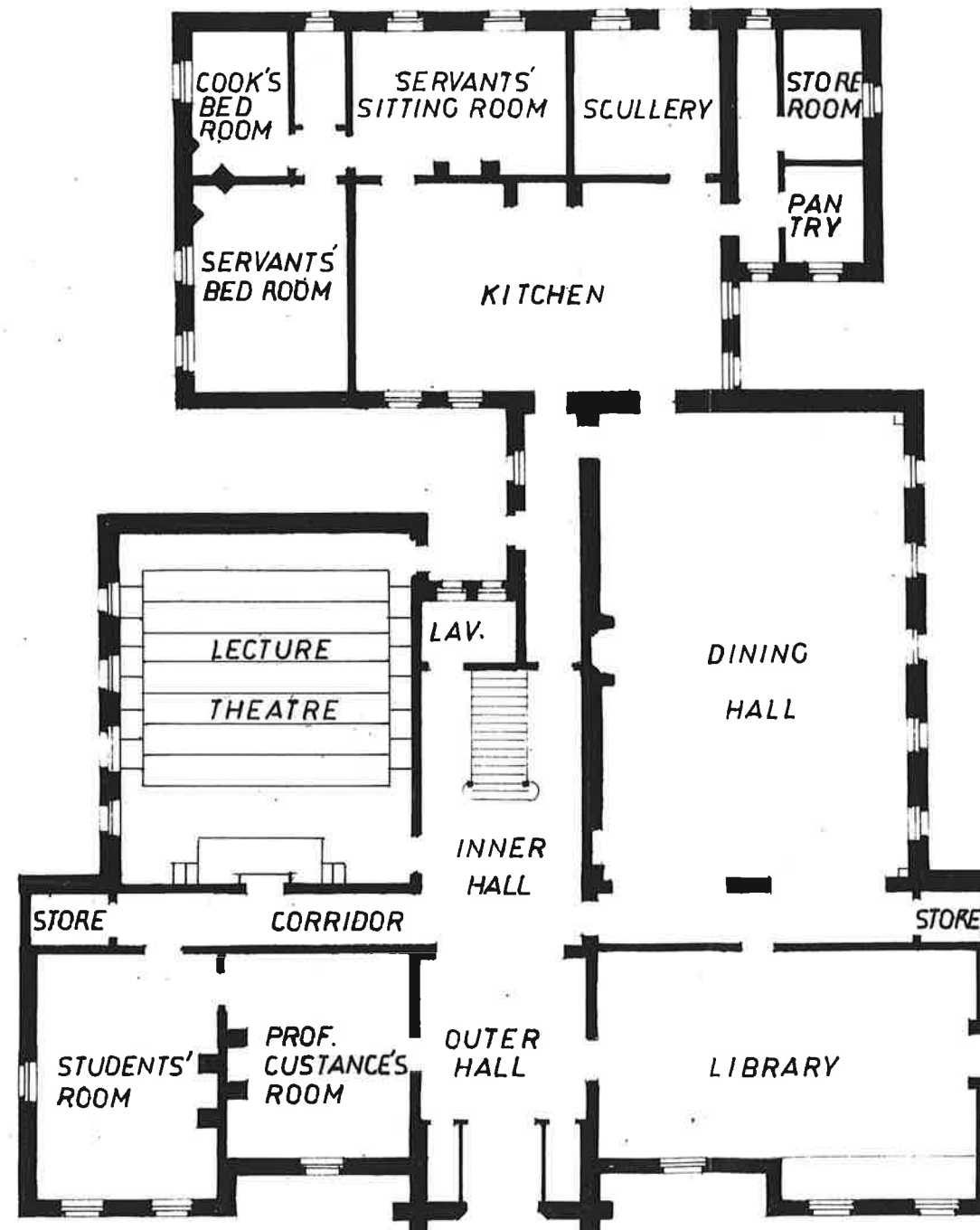
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ROSEWORTHY CAMPUS
MAIN BUILDING
 GROUND FLOOR

HISTORICAL STUDY 1883-1891

PRINCIPALS:
 1882 1886 JOHN DANIEL CUSTANCE
 1888 1901 WILLIAM LOWRIE

CONTRACTOR:
 SARA AND DUNSTAN DATE OF CONTRACT 12 JUNE 1883



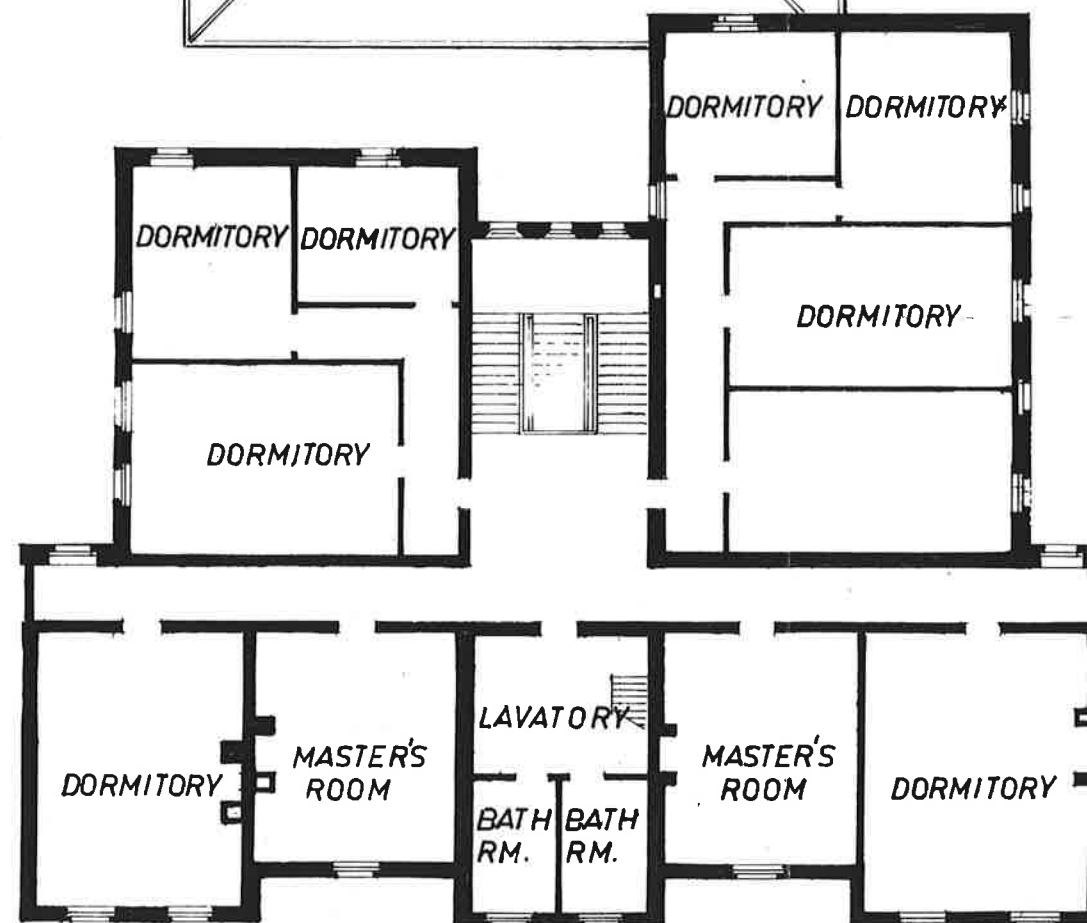
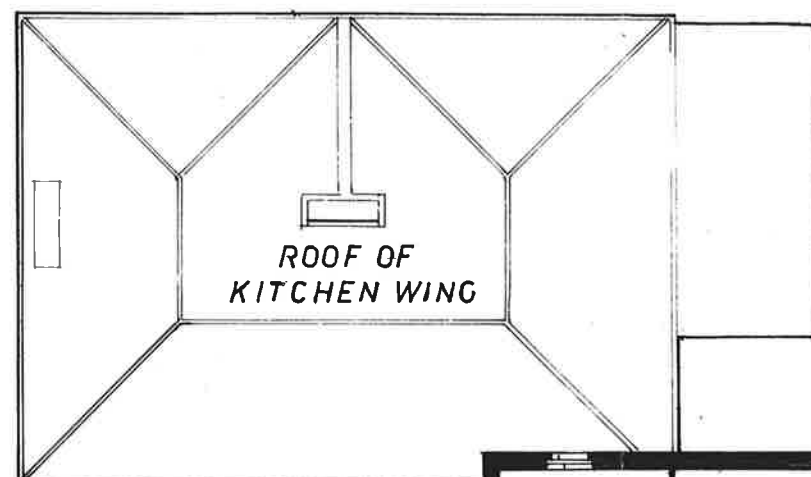
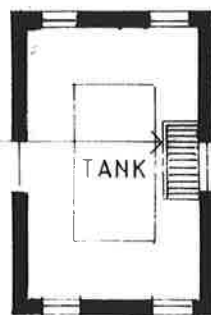
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TANK REMOVED, NEW STAIR 21.08.1896

UPPER STAGE OF TOWER



ROSEWORTHY CAMPUS MAIN BUILDING FIRST FLOOR

HISTORICAL STUDY 1883-1891

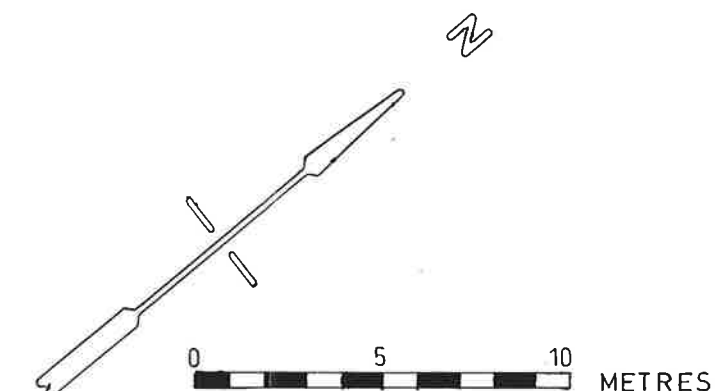
PRINCIPALS

1882 1886 JOHN DANIEL CUSTANCE

1888 1901 WILLIAM LOWRIE

CONTRACTOR

SARA AND DUNSTAN DATE OF CONTRACT 12 JUNE 1883



30 APRIL 1994

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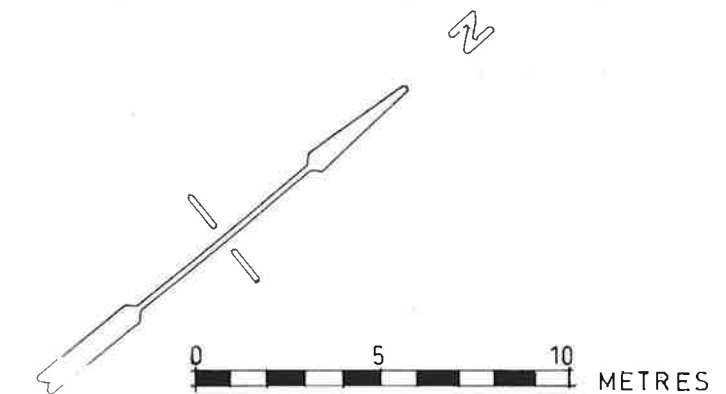
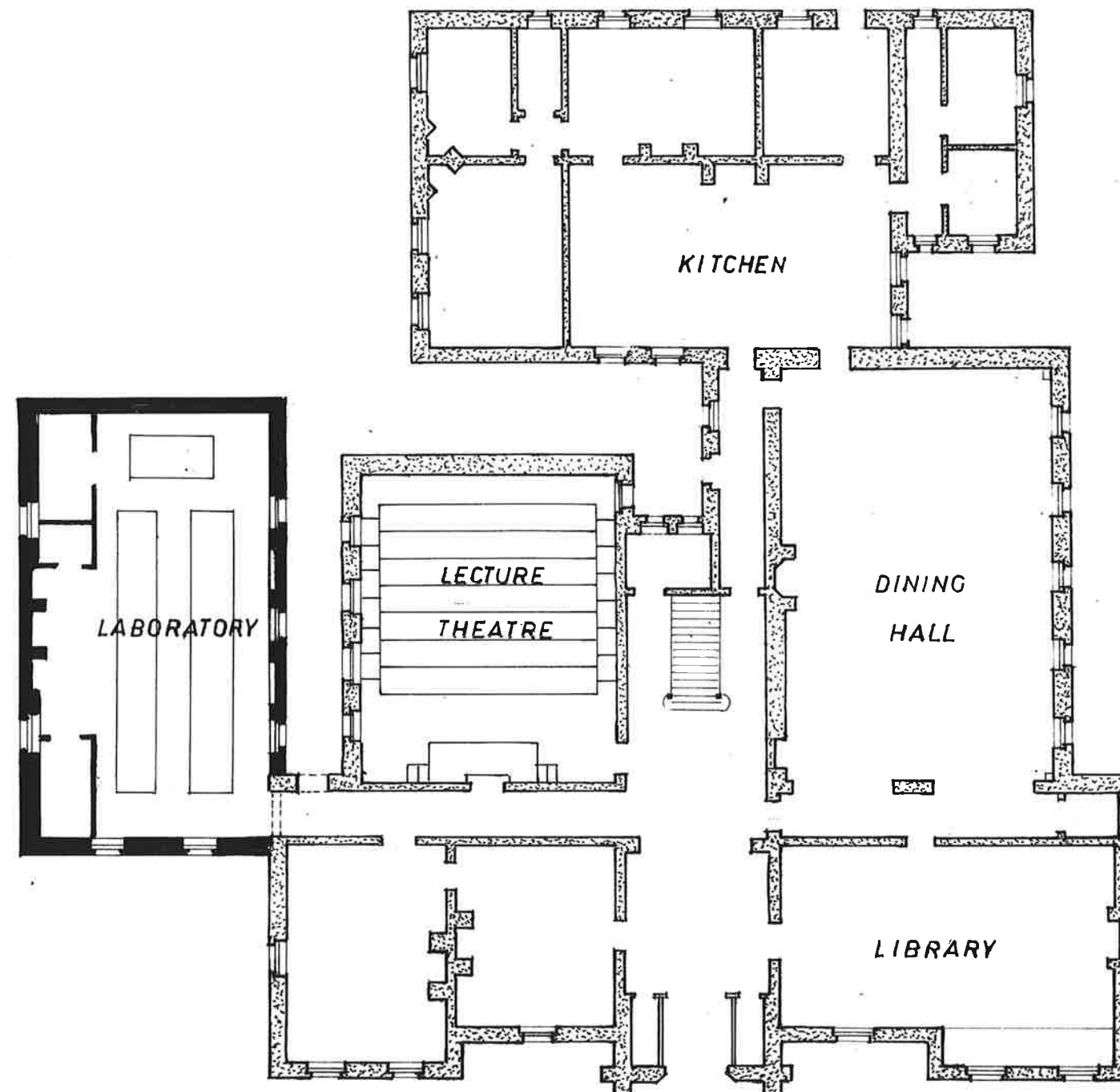
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ROSEWORTHY CAMPUS
MAIN BUILDING
 GROUND FLOOR

**HISTORICAL STUDY 1891
 LABORATORY**

PRINCIPAL
 1888 1901 WILLIAM LOWRIE

CONTRACTOR
 THOMAS B BAGLESS DATE OF CONTRACT 25 AUGUST 1891
 LABORATORY BENCHES 25 AUGUST 1891



30 APRIL 1994

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ROSEWORTHY CAMPUS MAIN BUILDING GROUND FLOOR

HISTORICAL STUDY 1891-1909

PRINCIPALS

1888-1901 WILLIAM LOWRIE

1902-1904 JOHN TOWAR

1904-1914 ARTHUR JAMES PERKINS

MINOR ALTERATIONS

1893 LABORATORY: SCREEN

CONTRACTOR: THOS WHITE DATE OF CONTRACT 9.10.1893

1902 IMPROVEMENTS TO LABORATORY BENCHES

CONTRACTOR: McDOUGALL OOW DATE OF CONTRACT 15.8.1902

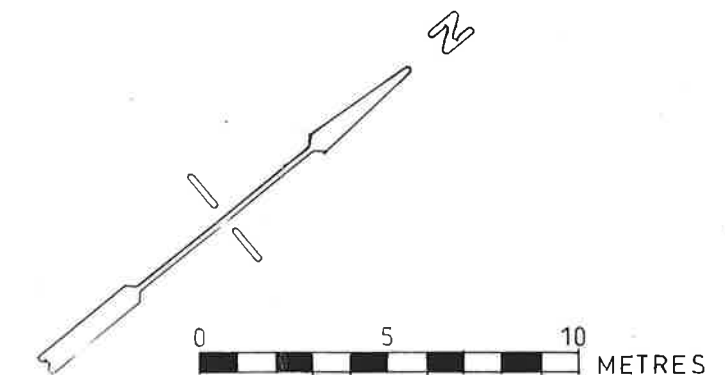
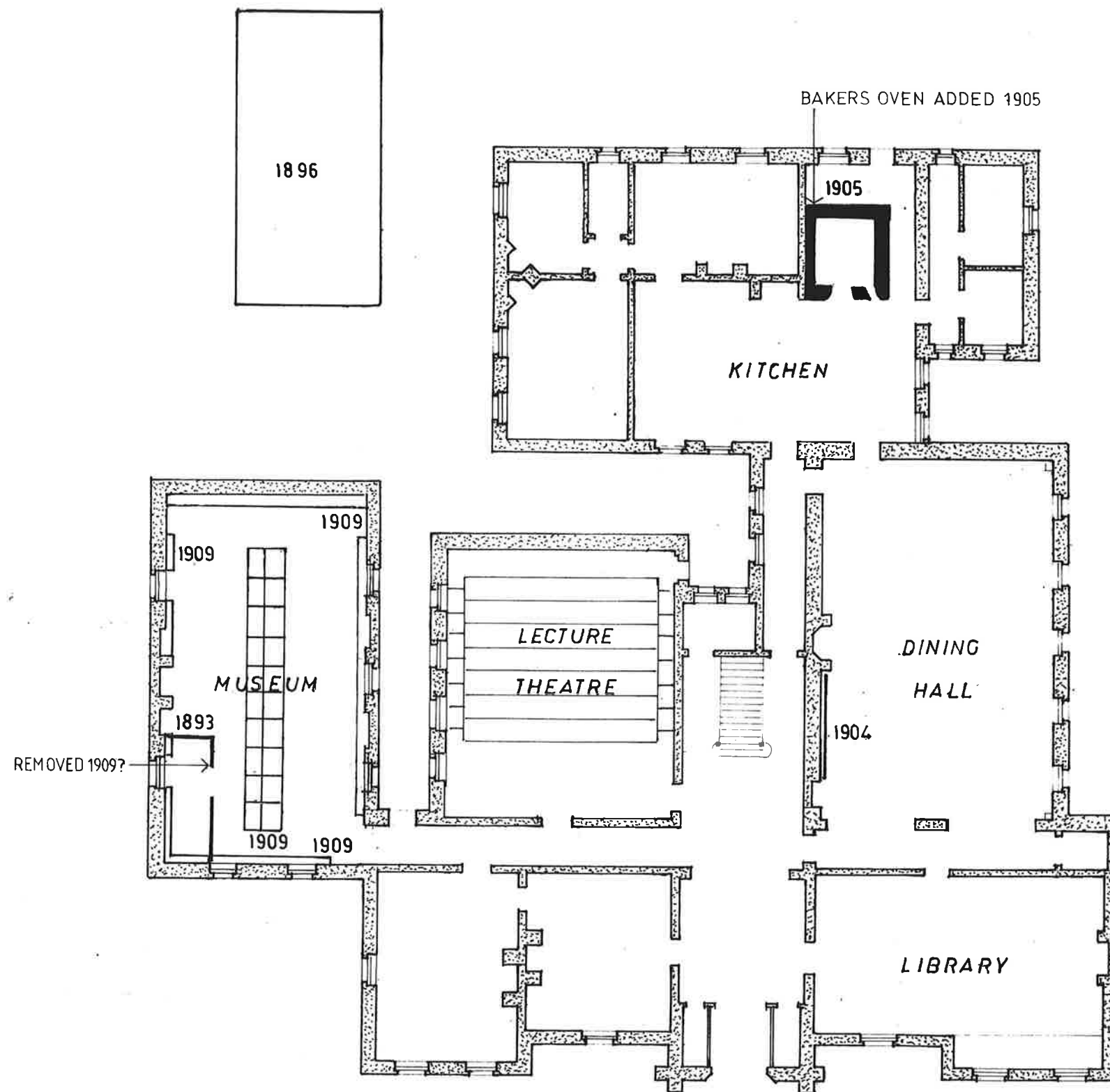
1905 BAKER'S OVEN

1909 LABORATORY MADE INTO TECHNOLOGICAL MUSEUM

ADDITION

1896 TIMBER FRAMED CHANGE ROOM

CONTRACTOR: J FRICKER DATE OF CONTRACT 21.8.96



1 MAY 1994

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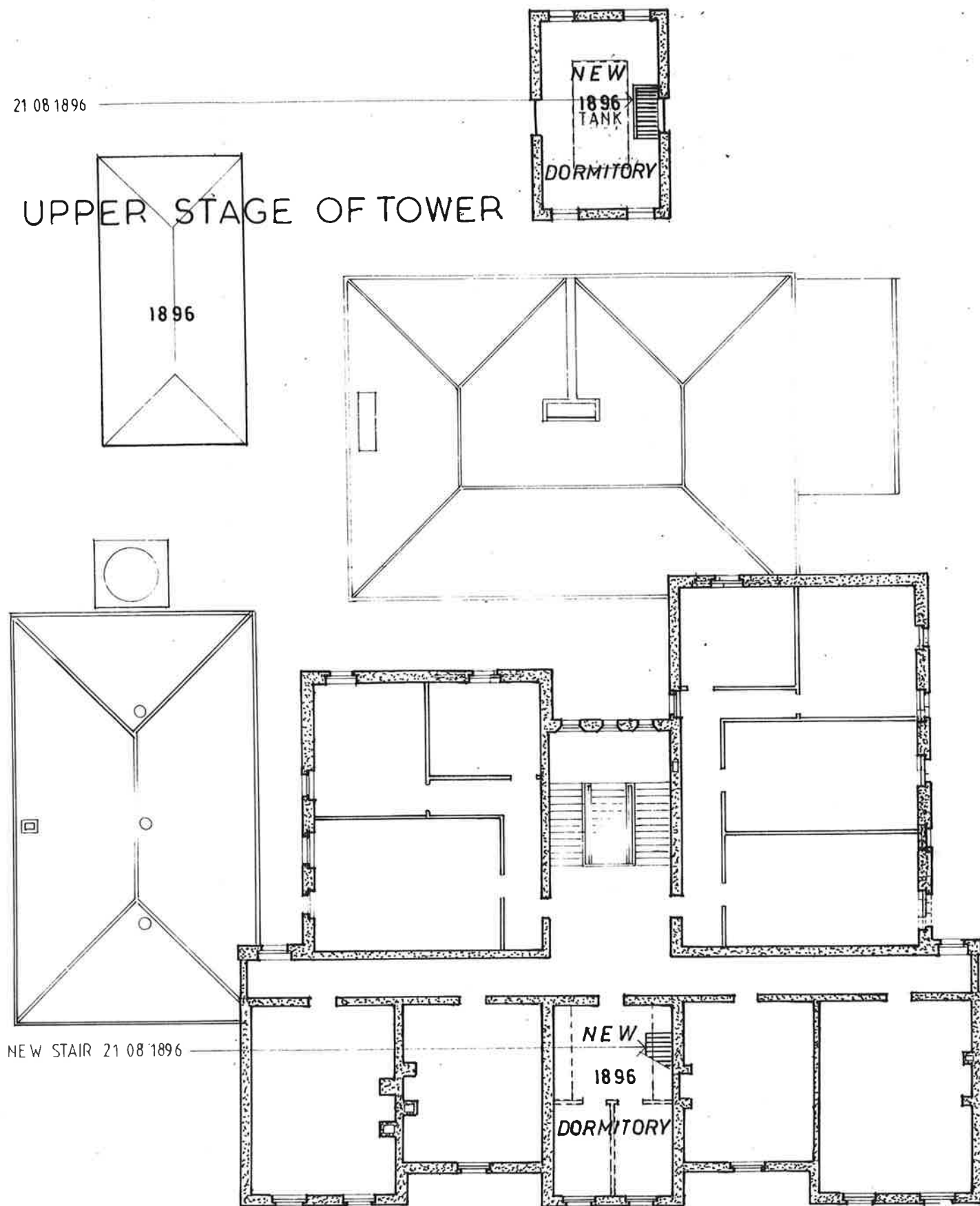
ARCHITECTURE URBAN DESIGN HERITAGE

107 SOUTH TERRACE ADELAIDE SOUTH AUSTRALIA 5000

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TANK REMOVED, NEW STAIR 21 08 1896

UPPER STAGE OF TOWER



ROSEWORTHY CAMPUS MAIN BUILDING FIRST FLOOR

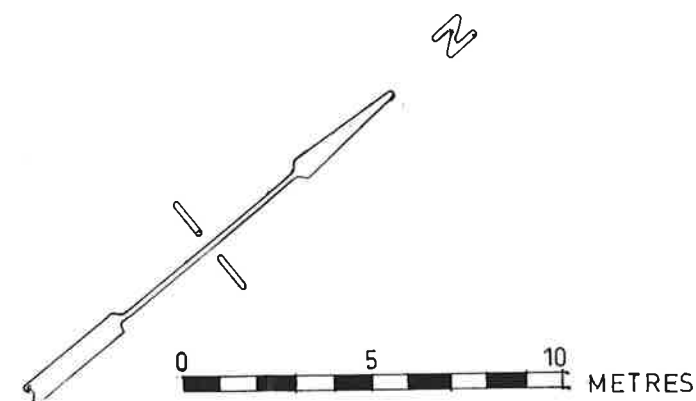
HISTORICAL STUDY 1891-1909

PRINCIPALS

1888 1901 WILLIAM LOWRIE
1902 1904 JOHN TOWAR
1904 1914 ARTHUR JAMES PERKINS

MINOR ALTERATIONS

1896 TOWER ABLUTIONS AND TANK ROOM
CONTRACTOR: J FRICKER DATE OF CONTRACT 21.8.1896

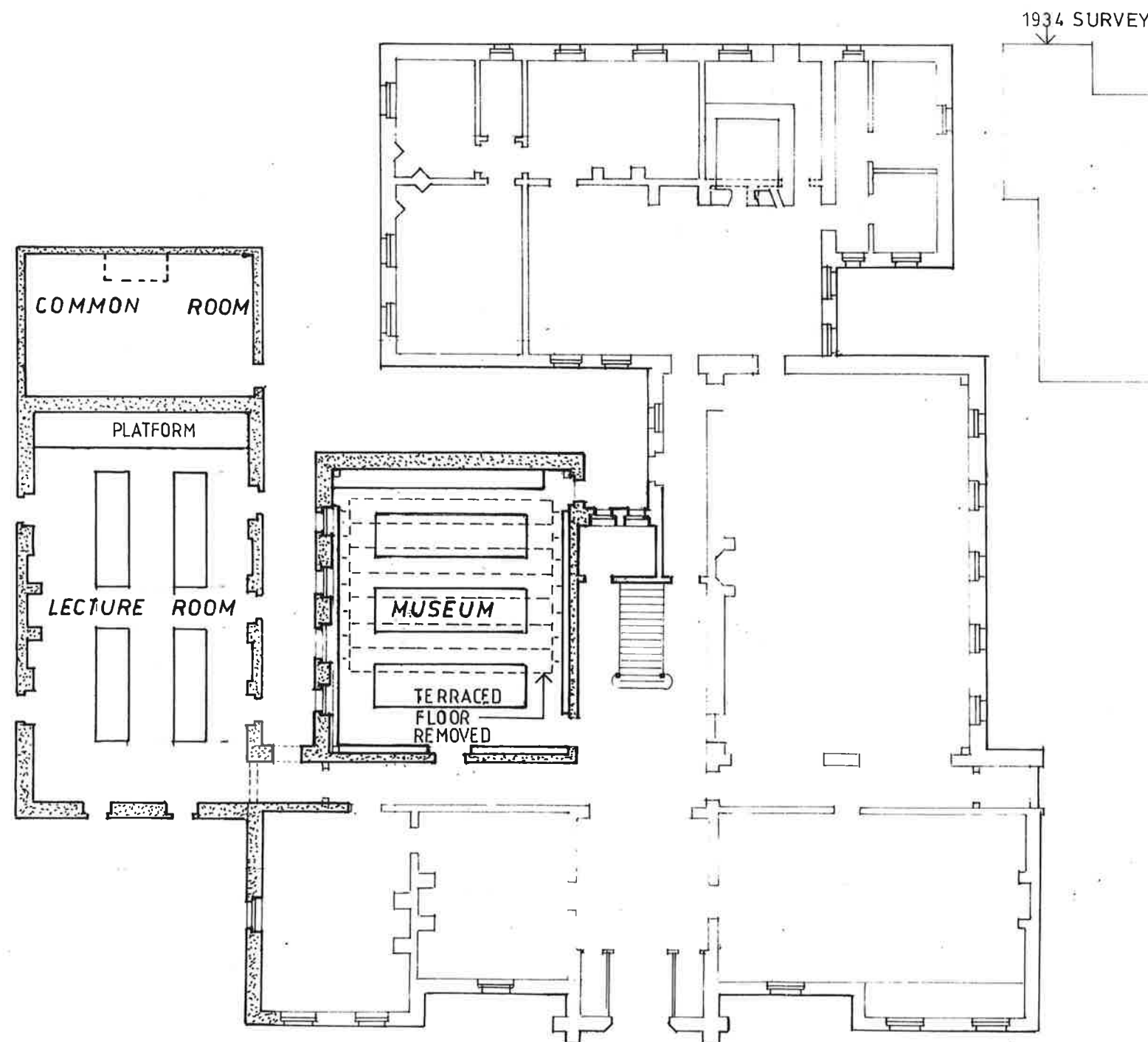


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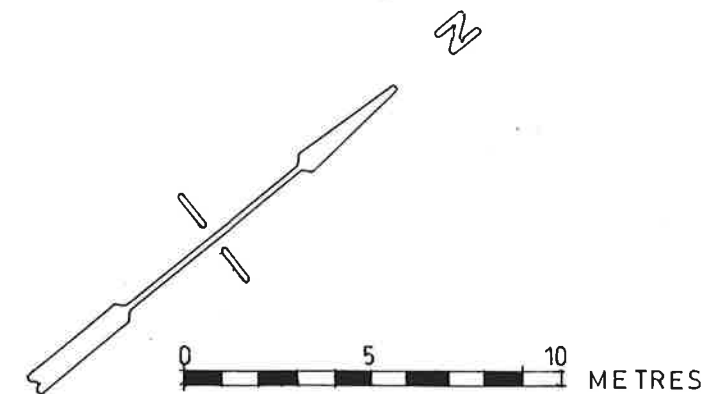
ROSEWORTHY CAMPUS MAIN BUILDING GROUND FLOOR



HISTORICAL STUDY 1936

PRINCIPAL
1932 1949 A R CALLAGHAN

ALTERATIONS
1936 MUSEUM CONVERTED INTO LECTURE ROOM
LECTURE THEATRE CONVERTED INTO MUSEUM



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ROSE WORTHY CAMPUS

BACKGROUND NOTES RECORD
HISTORY SHOWN ON PRECEDING DRAWINGS



1934 SURVEY

CHANGE ROOM 21 08 1896

BAKERS OVEN ADDED 23 08 1905
(FROM SCHEME FOR THE GUIDANCE OF FOREMAN MATTINGLY)

CHIMNEY & BREAST REMOVED 5/1936
UNDERGROUND TANK
TANK STAND
WALL MURAL (HONOUR ROLL) 22 03 1904
PINK AND GREEN ON EXISTING GREEN WALL
DATE ON SHIELD 1885
ST NAME WGTRELOAR 1886

GLASS CUPBOARDS
11-11-1909
SHELVING 11-11-09

LABORATORY BENCHES
15-08-1902

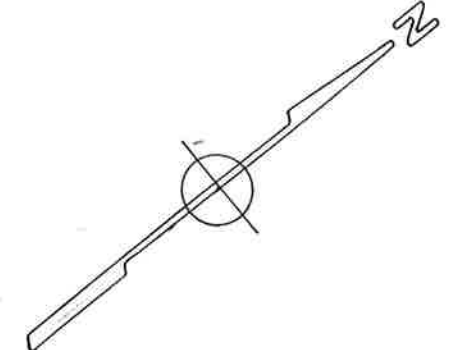
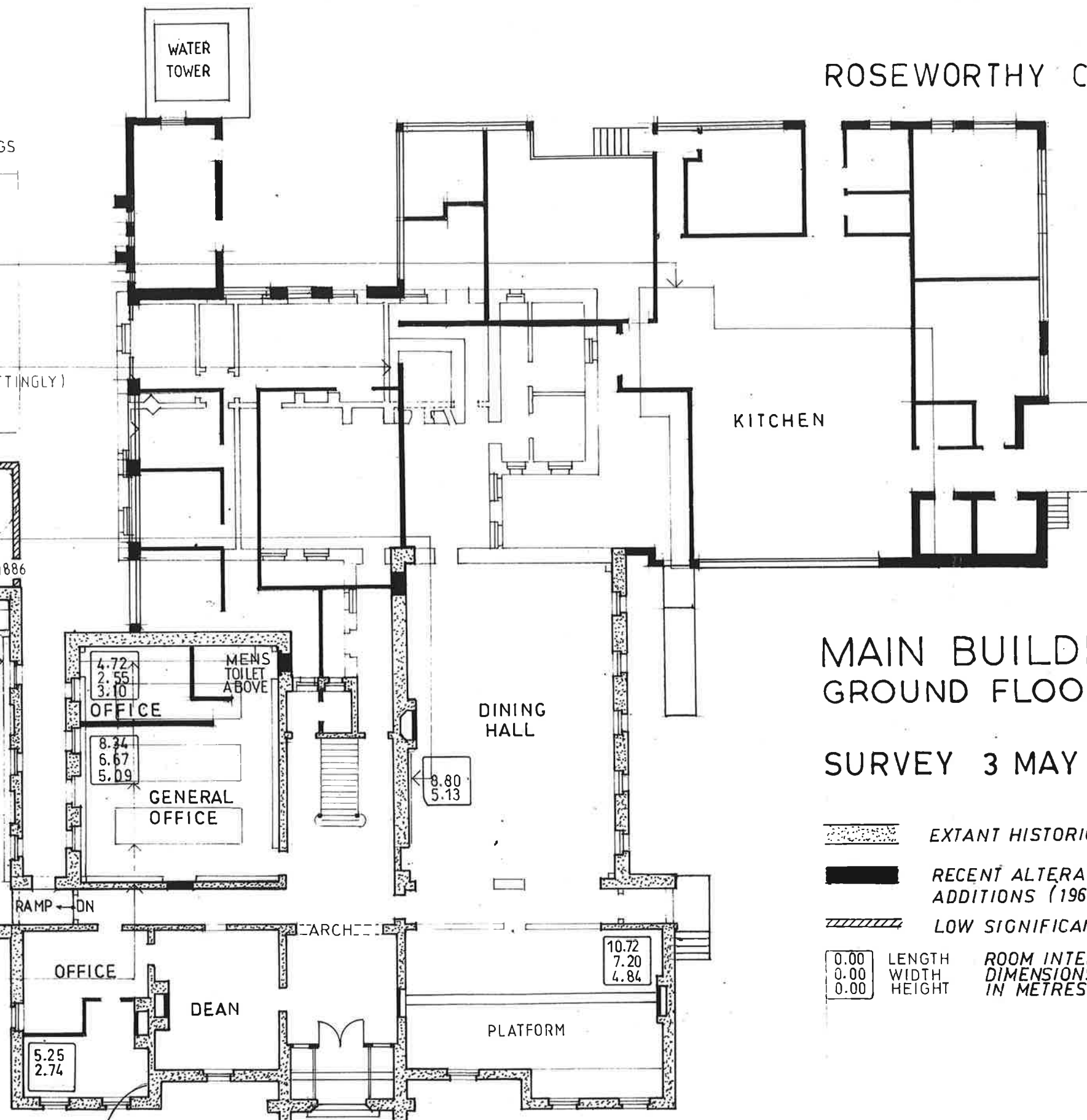
MUSEUM USED AS
LECTURE ROOM 5/1936

LABORATORY SCREEN
9-10-1893

GLASS TABLE CASES
11-11-1909

SHELVING 11-11-09

LECTURE ROOM REUSED AS A MUSEUM 5/1936
GLASS TABLE CASES GLASS CUPBOARD
AND SHELVING REUSED



0 1 2 3 4 5 6 7 8 9 10
METRES

MAIN BUILDING GROUND FLOOR

SURVEY 3 MAY 1994

EXTANT HISTORIC FABRIC
RECENT ALTERATIONS & ADDITIONS (1960s?)
LOW SIGNIFICANCE

0.00 LENGTH
0.00 WIDTH
0.00 HEIGHT

ROOM INTERNAL DIMENSIONS IN METRES

4 MAY 1994

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ARCHITECTURE URBAN DESIGN HERITAGE
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ROSEWORTHY CAMPUS

TANK REMOVED, NEW STAIR 21 08 1896

UPPER STAGE OF TOWER →

TANK

ROOF OF 1960s ADDITION

KITCHEN BUILDING
DEMOLISHED 1960s

SMALL
CRACKS

CRACK
OVER
WINDOW

DIAGONAL
CRACK

VERTICAL
CRACK

BAD
DIAGONAL
CRACK

ONE WINDOW OVER HATCH BELOW 11-12-1883

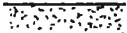
CENTRES TO WINDOWS TO CORRESPOND TO ONES BELOW ON GROUND FLOOR 11-12-1883
ONE WINDOW IN PLACE OF TWO 11-12-1883

CRACKS
NEAR
CORNER

WALL
CRACKS
LEFT OF
WINDOW

MAIN BUILDING FIRST FLOOR

SURVEY 3 MAY 1994

 EXTANT HISTORIC FABRIC
 RECENT ALTERATIONS & ADDITIONS

 LENGTH
0.00 WIDTH
0.00 HEIGHT **ROOM INTERNAL
DIMENSIONS
IN METRES**

ABLUTIONS REMOVED NEW STAIR 21 08 1896

CORNER +
FRONT
WALL
CRACKS

DIAGONAL
CRACKS
ABOVE
DOOR HT

BAD
DIAGONAL
WALL
CRACK

VERTICAL
CORNER
CRACK

SMALL
CRACK

CRACKS
OVER
SINK

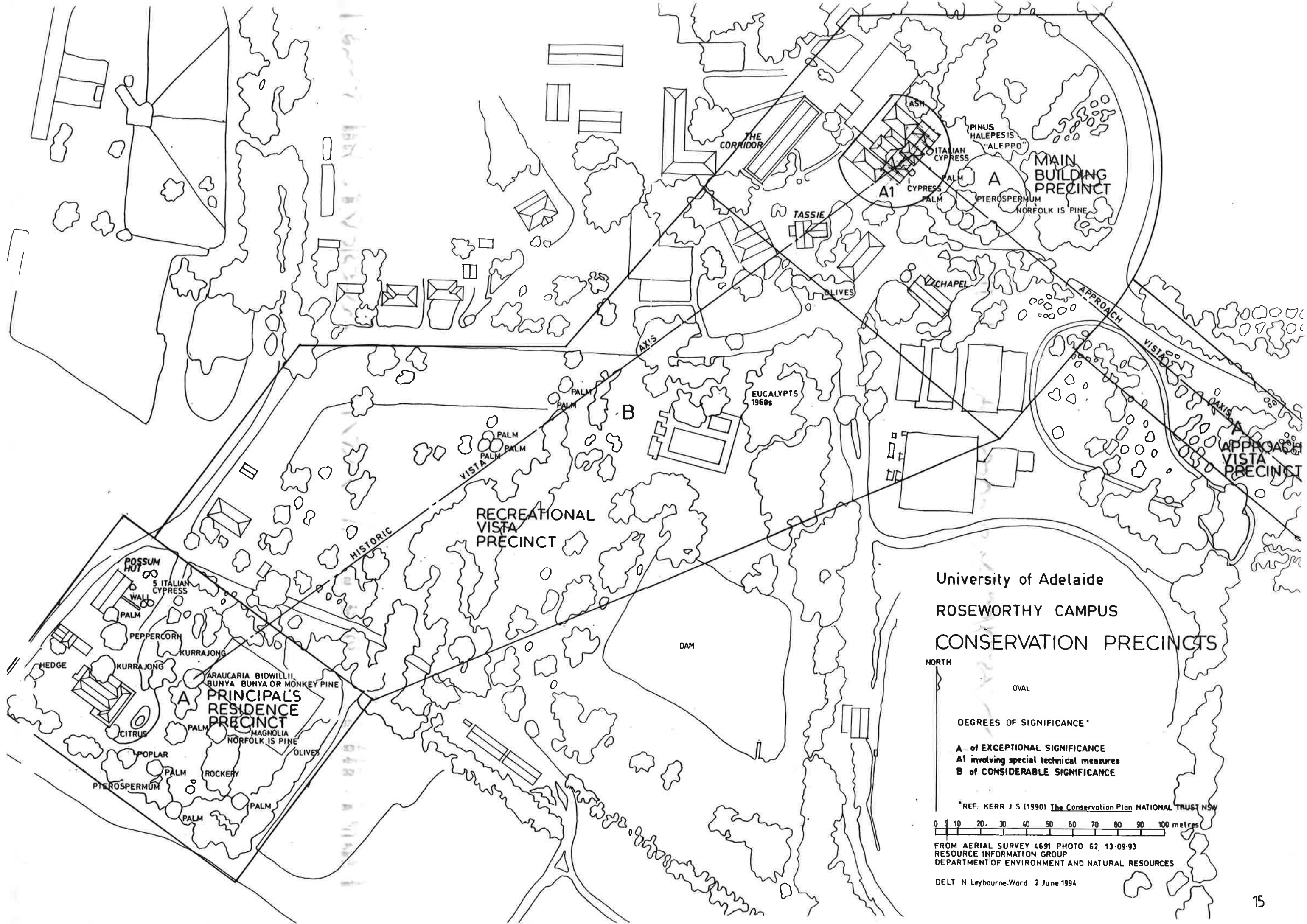
VERTICAL
CRACK

0 1 2 3 4 5 6 7 8 9 10
METRES

4 MAY 1994

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University of Adelaide
ROSEWORTHY CAMPUS
CONSERVATION PRECINCTS

NORTH

○

DEGREES OF SIGNIFICANCE*

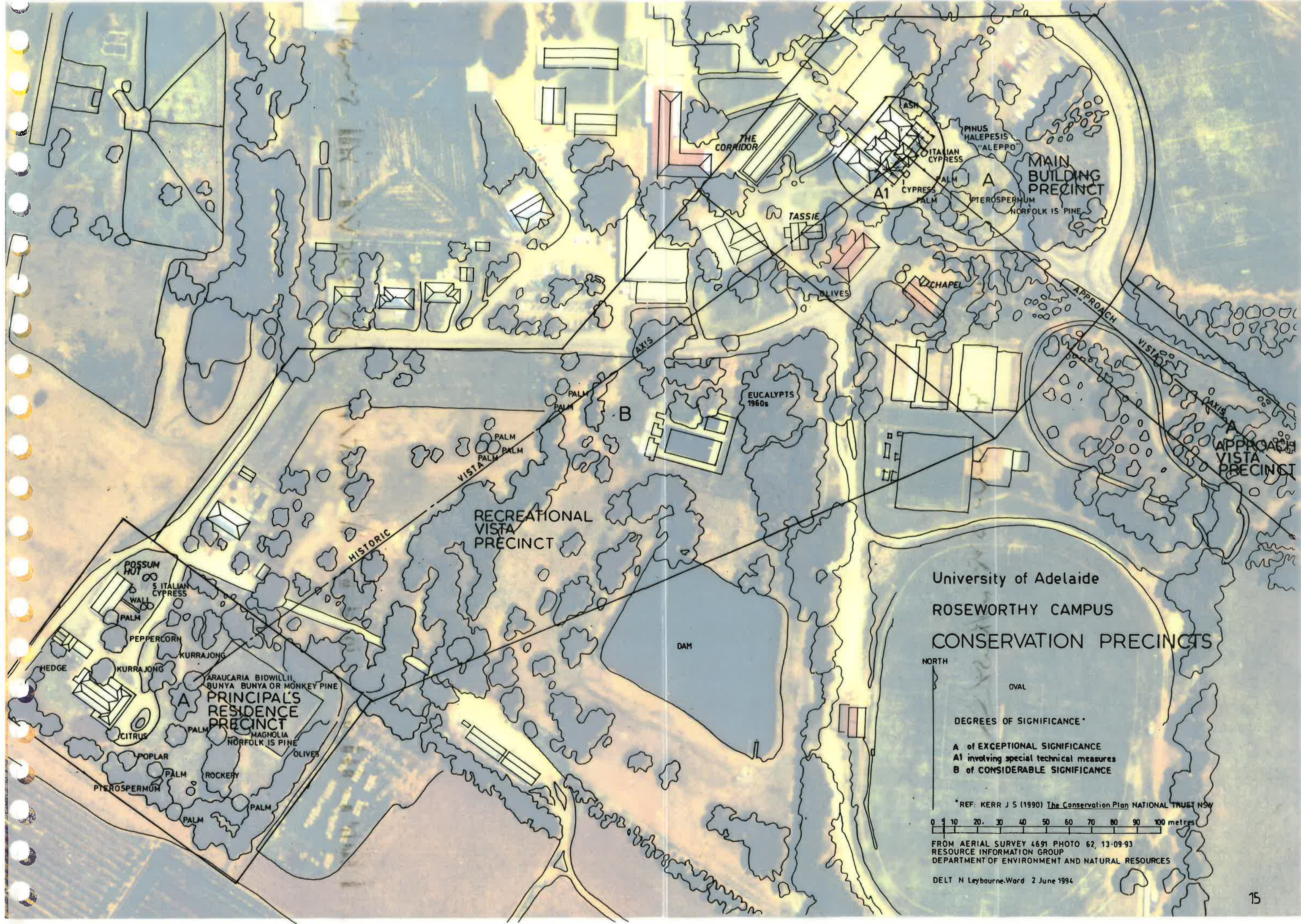
- A of EXCEPTIONAL SIGNIFICANCE
- A1 involving special technical measures
- B of CONSIDERABLE SIGNIFICANCE

*REF: KERR J S (1990) *The Conservation Plan* NATIONAL TRUST NSW

0 10 20 30 40 50 60 70 80 90 100 metres

FROM AERIAL SURVEY 4691 PHOTO 62, 13-09-93
RESOURCE INFORMATION GROUP
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DELT N Leybourne-Ward 2 June 1994



University of Adelaide
ROSEWORTHY CAMPUS
CONSERVATION PRECINCTS

NORTH

OVAL

DEGREES OF SIGNIFICANCE*

A of EXCEPTIONAL SIGNIFICANCE
A1 involving special technical measures
B of CONSIDERABLE SIGNIFICANCE

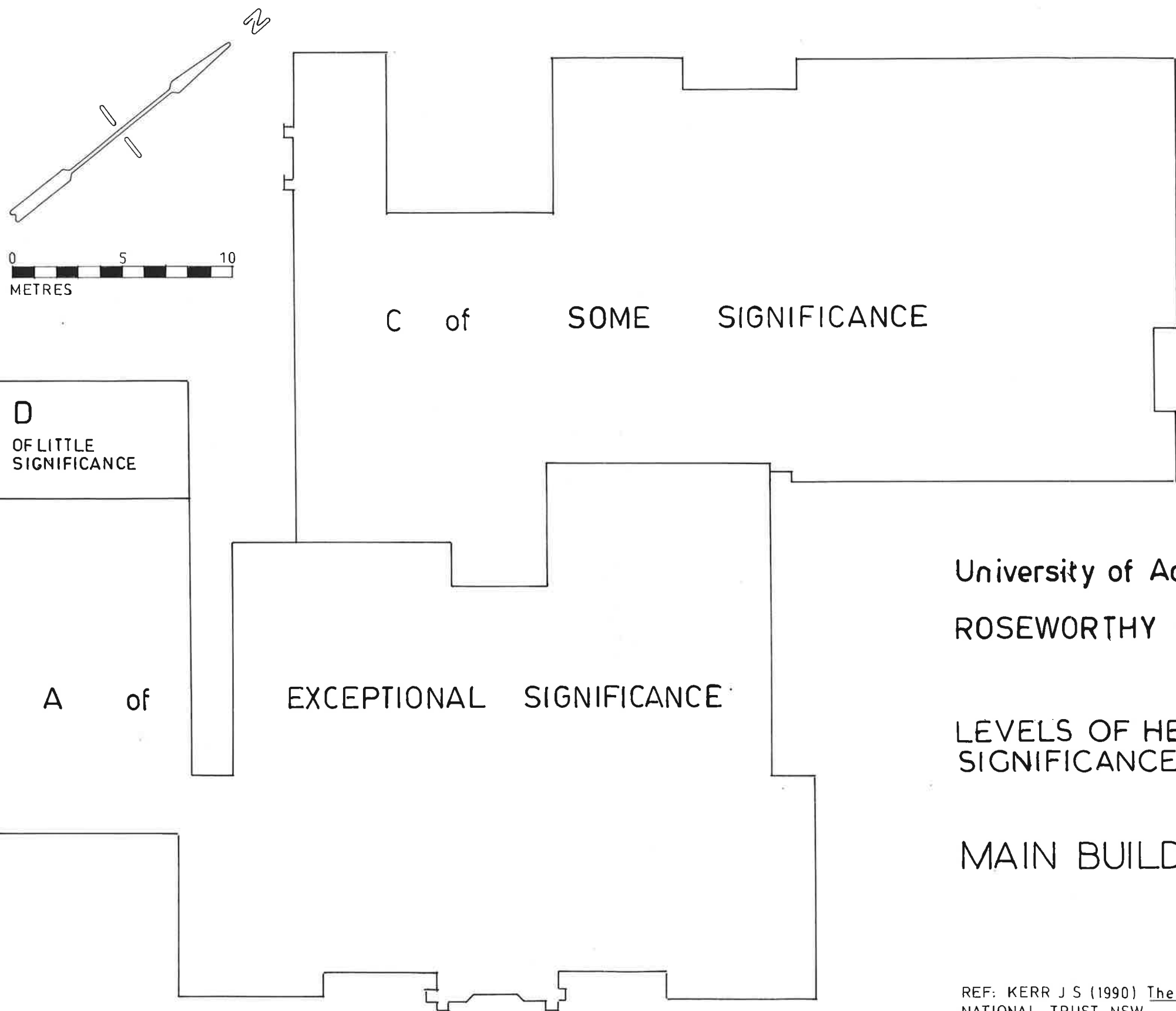
* REF: KERR J S (1990) *The Conservation Plan* NATIONAL TRUST NSW

0 10 20 30 40 50 60 70 80 90 100 metres

FROM AERIAL SURVEY 4691 PHOTO 62, 13-09-93
RESOURCE INFORMATION GROUP
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES

DELT N Leybourne-Ward 2 June 1994





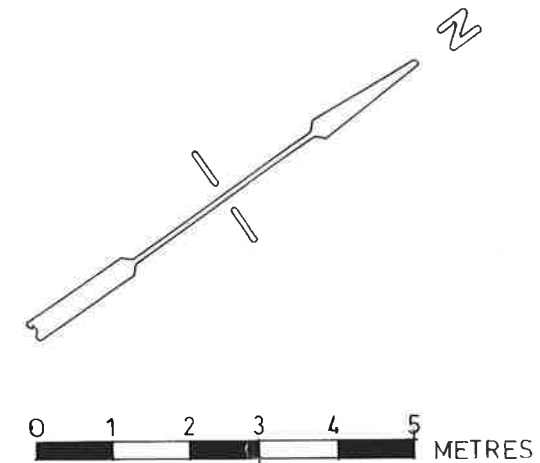
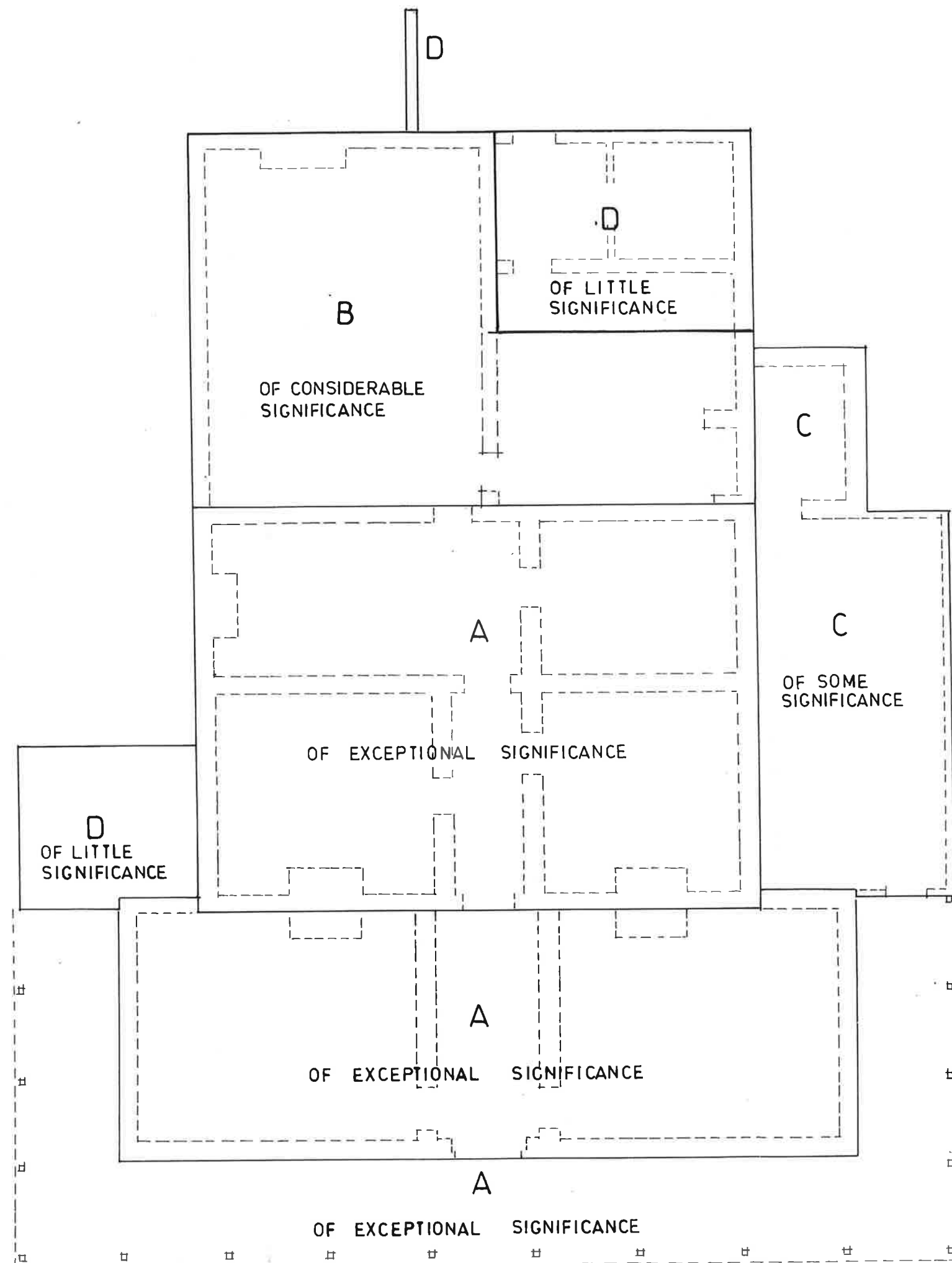
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ROSEWORTHY CAMPUS

LEVELS OF HERITAGE
SIGNIFICANCE

MAIN BUILDING

REF: KERR J S (1990) *The Conservation Plan*
NATIONAL TRUST NSW

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LEVELS OF HERITAGE
SIGNIFICANCE

PRINCIPAL'S
RESIDENCE

REF KERR J S (1990) *The Conservation Plan*
NATIONAL TRUST NSW

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**Original Specification for Tender call April 27th 1883, for
Main Building, Agricultural College Roseworthy (now
Roseworthy Campus, The University of Adelaide)
(Department for Building Management (SACON) Records:
Historic Document)**

Call for Tenders dated April 27th 1880
Tenders rec'd till noon of Monday
May 7th 1880.

Specification of works to be done
in building an Agricultural
College at Roseworthy.

Memo.

Contractors are requested to read the foregoing Conditions of Contract as a portion of this Specification, with special reference to clauses numbered 2, 5, 6, 16, 22 and 25 respectively.

Insurance &c.

The Contractor shall repair all damages happening to the works or any part of them from whatever cause; shall at his own expense effect a policy of Insurance against fire in the name and for the benefit of the Honorable the Commissioner of Public Works to the full amount of money advanced, and shall continue such policy and be liable for all risks until the final completion of the works, and till the

certificate of the Architect-in-Chief shall have been obtained, and shall lodge the receipt of such Insurance with the Architect-in-Chief, and in default of his so lodging the same the Hon: the Commr may effect such policy and deduct the amount of the premium from any moneys due or becoming due to the Contractor.

Contingencies.

The Contractor to include in his Tender and Contract a provision of Fifty Pounds (£50) Sterling for Contingent works over and above those specified or shown on the Drawings that may be ordered by the Architect-in-Chief to be by him deducted wholly or in part as the case may be for the benefit of the Honorable the Commissioner if not so ordered.

Excavator and Laborer.

Excavate for the foundation trenches to the depth and width shown and figured on the Drawings, unless otherwise directed at the time; the trenches to be stepped if necessary.

The Trenches must be taken out to the exact sizes and left quite square plumb and level, and clear of all loose earth or material when the Concrete is thrown in.

Excavate for Tank, Soil pits and Cellar the sizes and depths shown and figured on the Drawings.

Excavate for Sleeper walls as shown in dotted lines on Ground plan.

Excavate for 1000 feet run of Drain pipes where directed.

① Pump out, or bale out any water that may accumulate in the Trenches or around the Building during the progress of the works.

4

Fill up holes and cut surface Drains to conduct the water from the Buildings.

Remove all stumps or other obstructions to the excavation or that may come within the area of the building.

Form a slope round the Building by raising the surface to the height shown on the Drawings with the excavated or other material to the extent of ten feet from the walls, and evenly ram the same with heavy flat wood rammers.

Fill in and well ram the ground to the proper height for concrete under floors that are to be paved.

Fill in and well ram the ground to all foundations of walls when built.

Cart away all superfluous earth, soil or rubbish, and at the completion of the works leave the premises free from refuse and useless material.

Drains. Provide and lay to a proper fall 1000 feet of 4 inch earthenware glazed and flanged Drain Pipes; all joints to be made with pure cement.

Provide all necessary bends, junctions &c, and properly connect with the Down pipes and Tank.

When laid, carefully run round the pipes, fill in the Trenches, and ram on the surface.

Concrete. Fill in the foundation trenches to the depths shown and figured on the Sections with good concrete, composed of fresh burnt lime, sharp sand and gravel, (or stone broken to a 2 gauge in the absence of gravel) in the proportion of one lime to five of the latter combined, all thoroughly mixed and turned over several times before being thrown into the trenches.

When the Concrete has become sufficiently firm and before it has set, it is to be well and evenly rammed over the whole surface with heavy flat wood rammers.

Fill in the bottom of Tanks with Concrete to the depth shown formed to receive brick invert.

Fill in round aboutment to Dome of Tank with Concrete 9" thick and 2 ft deep.

Lay 4" of Concrete on floors of Soil-pits, and under all pavings.

All Concrete to be well rammed. The Concrete is to be made upon a timber platform 12 ft square, with a 9" curb on three sides, the same to be left for mixing the mortar upon, throughout the Contract.

Mason and Bricklayer.

Build all the walls above 9" thick and the foundations of all walls with the best quality approved building stone procurable from Farlee.

The stonework throughout must be carried up in good sound rubble masonry, the best stones to be picked for the faces. All face work to be nobbled and hammer dressed.

The Footings are to be put in with the largest and flattest stones obtainable.

7

The whole of the walling is to be well bonded and flushed up with good mortar, each stone laid on its natural bed, and all carried up regularly, no portion to rise more than 3 feet above the adjoining work.

Build Sleeper walls as shown on the Drawings or as directed, flushed on both sides with mortar.

Tank. The walls of Tank are to be built as shown on the Drawings, and carefully carried up throughout, the stones to be well bedded and hammered down. The walls must be grouted with fresh made grout every course of not more than 2 ft, but all face joints are to be left open.

Leave an opening for overflow where best suited to the nature of the ground, and properly arrange for the Drain and Suction pipes. Fill in with grout at back of walls as the work rises.

W.C. Closets & Pits Build the walls of W.C. Closets, Soil pits and Urinals as shown. Two other Closets, not shown, will be required for the Servants, but without Urinals.

Damp Proof Course Under the ground floor plates put a course of coal tar and sand $\frac{1}{2}$ " in thickness on all the walls (except sleepers and W closets) the full width of walls.

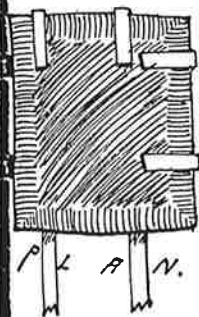
The tar must be boiled and mixed while hot with the sand in sufficient quantity to bind them together and no more.

The sand must be coarse & sharp, washed, dried, screened and put in barrels for use.

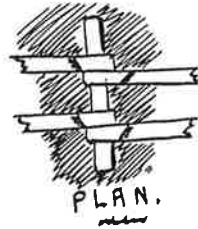
Hoop iron

Bonds Build in all the walls of College two stories high four (4) tiers, and in the walls one story high two (2) tiers of 2" hoop iron, two rows in each tier, as shown on the sections. In the internal walls it must also be put immediately over the lintels of doorways.

The iron must be new and clean, straight quite tight and turned round hard bricks or square stones say within 5" of face of wall. at the angles of building and where the cross walls unite with the outside, as per sketch in margin.



The joints must be carefully made by clipping round a transverse piece of hoop-iron as per sketch the ends to be turned up thus, not lapped round the other iron.



Air Bricks.

21 in In the external walls where shown or directed build in the cast iron air bricks specified in Smith's, and ~~plaster~~ and build in 25 earthenware ventilators $9" \times 6"$.

44 in Air flues. Under the window sills of port rooms on ground floor, Dining Hall and Lecture Theatre form in the wall a $9" \times 4"$ air flue smoothly parged and terminating under the window board.

Leave openings $18"$ wide in sleeper and internal walls for ventilation.

Painting.

The external joints of walls are to be raked out and flushed with mortar, struck with sunk joints, and when dry, drawn out with thick oil paint black or white as shall be directed.

Freestone. The following are to be executed in
in freestone; the Bands in front
and side Elevations, eaves course,
window heads, transoms and sills
Corbels, pendant under Clock, Plinth
Date stones over front doorway, water
tables and bases to Tower, Buttresses
Area curbs &c.

The stone to be of approved quality,
and may obtained from Little Para
or Teatree Gully.

The stone must be of uniform color
and all evenly chiselled on faces.
The backs to be punched and the
beds and joints chiselled.

Bricklayer.

Note.

All bricks used in the
Building must be well wetted
with fresh water immediately before use,
those used for cementing must be
soaked in a tub.

11
Build with the best hard burnt approved bricks from the S.A. Brick Co. all the walls under 14" thick, the Chimney flues, breasts, backs, jambs and stacks, quoins, dressings to doors and windows, dentil cornices under eaves, casings between strings, Copings on Gables, Relieving and other arches internally, external arches where shown, Dome and invert to Tanks, Buttresses Clock Gable &c.

The Quoins are to be in solid blocks 18" x 14" rising 3 courses each block.

The jambs to Windows to be in blocks 18" and 9", rising three courses each, to go through the wall and be properly recessed for frames.

The jambs to internal doorways in stone walls to be in 14" and 9 inch blocks alternately the thickness of the walls and rising three courses each.

Chimneys.

All the smoke flues are to be 14" x 9", and the air flues 9" x 6", all to be parged & left clear of mortar droppings & to be cored or swept free from all obstructions.

The Arches to Kitchen fireplaces to be 9" deep in two rings, turned on $2\frac{1}{2}" \times \frac{1}{2}"$ cambered iron bars, turned 3" flush with the outside of jambs, the height of arch from floor to soffit to be regulated by the size of the range.

The other fireplaces to have similar arches on similar bars, and to be 2 ft 9" from floor to soffit.

Turn $\frac{1}{2}"$ brick trimmer arches on first floor fireplace hearths.

A Detail drawing will be provided for the jambs and arch of Principal Entrance.

Turn 9" Relieving Arches over all lintels on proper brick core shaped to wooden templates nailed on to lintels.

The Arches to have $\frac{1}{4}$ rise and good skew backs, and the springing to start from ends of lintels.

Tanks. Turn 9" brick dome on proper centering over Tanks, and form a Manhole in same. Turn brick on edge invert for floor on the concrete specified and well grant same.

Hearths & Hobs

Build brick hearths and hobs to all the fireplaces as directed.

Properly set in brickwork the Kitchen Range and Copper specified in Plumber &c.

Pointing.

The joints of all brickwork visible are to be neatly struck as the work proceeds.

Note. The arch bars, bolts girders, hoop iron &c will be supplied by Plumber &c.

Slate.

All the slate used in the work is to be from the Mintaro Quarries or slate of equal quality with smooth surface & edges sawn through.

Paving.

Pave the Cellar, Scullery, Lavatory, Servants' Bathroom and Urinals with $1\frac{1}{2}$ " slate, laid in mortar on concrete specified; the joints to be pointed with pure cement.

Steps.

Provide and fix to the external doorways $1\frac{1}{2}$ " slate steps with rounded nosings; those to the front entrance to have 1" slate risers.

The rest to have brick risers cemented.

The Hall entrance to have approved Minton's tile pavement 6 ft 6" x 2 ft 6" with 6" slate curbs, and the back portion to be slate paving, all to be on solid masonry.

Where necessary the top steps are to be holed for stubs of door frames, and must have a weathering of $5/8$ ".

Hearths.

To all the fireplaces provide and set in mortar upon solid masonry 12" slate hearths.

Those on First floor are to be set on Concrete on the timber arches specified in "Bricklayer".

Mantel-Pieces.

To the fireplaces in Library and Dining Hall provide and fix approved Marble Mantel-pieces value in Adelaide Five pounds (£5) each.

To two (2) other fireplaces provide and fix approved slate Mantel pieces value in Adelaide Three pounds (£3) each.

The remaining fireplaces to have slate Mantel pieces, value in Adelaide 40/- each.

Provide all necessary cramps &c required in fixing.

Slate shelf Provide and fix in Cellar on $4\frac{1}{2}$ brick walls 3 ft apart a $1\frac{1}{2}$ shelf as shown.

Urinals.

Provide and fix Urinals with $1\frac{1}{2}$ slate divisions 6 ft x 2 ft and 1" splash pieces as shown: The uprights to be grooved and the splash pieces let in and fixed with red lead paint.

Make a channel in floor and convey urine by a 4" earthenware glazed and flanged pipe into the Soil Pit.

Fit a 4" brass rose at junction of pipe with channel.

Provide 2" slate plates for Girders to rest on.

Put 1" slate covers in gable openings.

Generally.

Bed all plates, build in lintels, fix iron girders, point with cement over flashings, screed in box frames, point round door and window frames with cement or hair mortar, make good after Carpenter, and attend upon other trades.

Mortar. All Mortar must be made with fresh burnt lime and clean sharp sand, free from loam or salt, mixed one part lime to $2\frac{1}{2}$ parts sand, and thoroughly beaten up before it is taken to the Mason.

The sand must be the best procurable within ten miles.

Note.

Mortar allowed to become dry in the heap will be absolutely condemned, and must not be used in any part of the Building.

Shelter for
Lime.

The Contractor must erect a suitable shed for the protection of the lime used throughout the building, the floor being raised high enough to guard against the effect of a rush of water from heavy rains.

Water. All water used must be fresh and pure.

Carpenter and Joiner.

The timber used in the works, unless otherwise mentioned, is to be the best well seasoned yellow Baltic Deal, free from sap, bad shakes, large or loose knots or other serious imperfections and must hold the all specified dimensions except the ordinary allowance for seasoning and shrinkage.

The timbers showing on to a wall, and all woodwork internal to be painted must be primed before being fixed outside work particularly.

The joints of all roof and other framing are to be put together in white lead paint.

All green timber for use in the building must be ordered within two (2) weeks after signing the Contract; and the whole quantity required stacked on the ground within six (6) weeks after the date of Contract.

Kosmos

Roofing. Frame and fix the roofs as shown on the Drawings.

Tower Roof. This Roof to have two pairs of Principals, with 9×3 tie beams, 7×3 rafters and $5 \frac{1}{2} \times 3$ struts and stretchers.

Each pair of principals to have 1" round iron Ring rod to pass through heads of rafters and through $2 \frac{1}{2} \times \frac{1}{2}$ wrought iron strap 18" long screwed on rafters. The rods to have bolt head, screw end, nut and washer, the washer to be $6 \times 2 \frac{1}{2} \times \frac{1}{2}$. Fix the bottom ends of rafters to tie beams with $3 \frac{1}{4}$ screw bolts, nuts and washers.

$4 \frac{1}{2} \times 3$ wall plate, halved and spiked at junctions and angles, and fixed in as long lengths as possible.

$4 \frac{1}{2} \times 3$ angle ties and dragon pieces. $9 \times 1 \frac{1}{2}$ ridge piece and hip rafters with $2 \frac{1}{4}$ rounded rolls on top & fillets nailed each side to receive iron covering.

$5 \frac{1}{2} \times 3$ purlins spaced as shown with angle chocks under spiked to rafters.

9×2 beaded fascia, with 2×2 hollowed fillet planted on to carry eaves gutters.

Trim the soffit of eaves with $1\frac{1}{2} \times 1$ battens spaced 1" apart.

Ship under the eaves 4" molded brackets spaced as shown, built 3" into wall. Ship round each bracket a 3" molded cap, and continue same molding between each on wall.

Roof over Dining Hall

This roof to have 4 pairs of Principals and two halfprincipals, with 7×5 tie beams $5\frac{1}{2} \times 3$ rafters and $4\frac{1}{2} \times 3$ struts and stretchers.

Each pair of Principals to have $3\frac{1}{4}$ " iron King rod and two $5\frac{1}{8}$ " iron Queen rods with screw ends, nuts and washers.

The king rods to pass through heads of rafters and through $2 \times 3\frac{1}{2}$ " iron straps screwed on rafters, the straps where halfprincipals come to be triangular.

The washers to be $6 \times 2 \times \frac{1}{4}$ ".

Ship the bottom ends of rafters to tie beams with $3\frac{1}{4}$ " screw bolts nuts and washers.

$4\frac{1}{2} \times 3$ " wall plate as before, and $4\frac{1}{2} \times 3$ " angle ties and dragon pieces.

$7 \times 1\frac{1}{2}$ " ridge piece and $9 \times 1\frac{1}{2}$ " hip rafters with 2" rounded rolls and fillets as before.

$4\frac{1}{2}" \times 3"$ purlins spaced as shown, with angle chocks under.

The box gutter to have 2 sides and 1" bottom on strong bearers 18" apart, & must have a fall of 1" in 7 feet.
 $7 \times 1\frac{1}{2}"$ pole plate at eaves.

Roof over Lecture Theatre.

This roof will be similar to the foregoing, except that the gables at each end of ridge must have louver openings for ventilation as shown.

The front Roofs to have Principals as above with valley rafters $9 \times 1\frac{1}{2}"$ bracketted on both sides for $5\frac{1}{2} \times 1"$ valley boards.

Roof over Kitchen &c.

This roof to have principals and half principals spaced as shown with wall plates, Ridges, Hip and valley rafters angle ties and dragon plates, Bow and valley gutters &c as previously specified.

Where the Roofs project they are to have $9 \times 2"$ beaded fascia with $1\frac{1}{2} \times 1\frac{1}{2}"$

hollowed fillet planted on, and $1\frac{1}{2}'' \times 1''$ battens under eaves 1" apart.

The lean to roof to have $5\frac{1}{2}'' \times 1\frac{1}{2}''$ rafters at 2 ft centres, and $3'' \times 2''$ purlins at 3 ft centres, $9'' \times 1\frac{1}{2}''$ beaded Barge boards and $4\frac{1}{2}'' \times 2''$ weathered and throated capping.

W.Closets.

Roof the closets with $4\frac{1}{2}'' \times 1\frac{1}{2}''$ rafters spaced at 17" centres, nailed to $4\frac{1}{2}'' \times 2''$ plates top and bottom.

To both ends of rafters nail $7'' \times 1''$ beaded fascia.

Nail $3'' \times 2''$ battens on rafters 2 ft apart.

Ceilings.

To the Ceilings over Dining Hall Lecture Theatre and Master's rooms at front, fix $5\frac{1}{2}'' \times 1\frac{1}{2}''$ Ceiling joists at 13" centres, notched and cross-nailed to tie beams and notched to 1" square fillets nailed to tie beams.

The wall ends to have 6" bearing on walls on $4" \times 2"$ plates.

On the top of each Bay in the centre nail to each joist $3" \times 2"$ batten for stiffening.

The joists are to run through to two tie beams alternately and not join continuously on one tie beam.

The Ceiling joists to other rooms to have $5\frac{1}{2}" \times 1\frac{1}{2}"$ joists fixed at 12" centres on $4\frac{1}{2}" \times 2"$ plates backed by $3" \times 2"$ battens nailed on the joists 4 ft apart, and tied up to purlins every 4 ft with $1\frac{1}{2}"$ hoop iron.

In the projecting roofs, each alternate joist must project to receive fascia. Where the joists run parallel with the eaves frame into the joists 2 ft apart $5\frac{1}{2}" \times 1\frac{1}{2}"$ Cantilevers projecting to receive fascia.

Where directed in the Ceilings frame four (4) Manholes 2 ft square with $7\frac{1}{2}" \times 1"$ linings and 1" clamped covers, fastened with 6" tower bolts.

Trim the Ceilings throughout for the Ventilators Chimney stacks &c.

Lintels. Provide proper 3" lintels to all internal openings and inside of all external openings, with $\frac{1}{4}$ " bearing on walls each end.

Floors. The joists of ground floor except those over Cellar, are to be 6" x 2" red gum spaced at 16" centres skew nailed to 1 1/2" red gum plates.

The joists over Cellar at back to be 9" x 2" at 13" centres.

The joists of first floor throughout, ^{except over Dining Room} to be 11" x 2" spaced at 13" centres on 4" x 1 1/2" plates where there are set-offs.

On the first floor, all trimmers & trimming joists to be 1" thicker than the other joists.

The joists over Dining Room to be 9" x 2". The joists to Tower floor to be 11" x 3" spaced at 13" centres, the lower arrives to be chamfered.

Bridging. All the joisting above ground floor to have 2" x 1 1/4" herring bone bridging, five rows to the Dormitories over Dining Hall, three rows over Theatre, two over library, and one to each other room.

Flooring. Lay on the joisting throughout 18" prepared
 self flooring boards well dogged up
 and nailed to the joists.
 No two heading joints will be allowed
 next each other.

Put mitred margins to hearths, and clean
 off floors at completion.

Skirtings. Put to the floors of Library Dining Hall
 Outer and Inner Hall, part of Theatre
 and the Professor's Room 15" molded
 double faced Skirting as shown on
 detail Drawing.

Put to the Corridors on ground floor and
 Student's Room 11x1" turned skirting.

Put to the rest of rooms on ground floor
 9x1" turned skirting.

Put to all the rooms and Corridors on
 first floor, 9x1" turned skirting.

All Skirtings to be grooved and scribed
 at the internal angles, mitred at
 the external angles, scribed to the floors
 and strongly nailed to fillets on floors
 and 2" x 1 1/8" grounds.

Stud
Partitions.

Put up the Partitions on First floor as shown on the Drawings with quartering; the studs, heads and sills & diagonal struts to be $5\frac{1}{2}" \times 2"$ and door frames $5\frac{1}{2}" \times 3"$ with 2 solid rebated linings.

The studs to be spaced at 13" centres, and tenoned into heads and sills.

Each partition to have two $\frac{3}{4}"$ diameter suspension bolts and two rows of 1" bridging.

A Detail drawing showing the framing of partitions will be supplied.

The Partitions in Bath Rooms and Lavatory to be 8ft high.

$4" \times 2"$ studs 2ft apart and sheathed both sides with $\frac{3}{4}"$ matched beaded boarding. Put a $5\frac{1}{2}" \times 2"$ rounded capping on top.

The doors to Bath Rooms to be 1" matched beaded and ledged, hung to $5\frac{1}{2}" \times 2"$ frames with $\frac{1}{8}"$ T hinges, with $\frac{5}{8}"$ stops, and fastened with approved American spring latch. Put 4" architraves round both sides.

In the Lavatory partition frame two openings for borrowed lights 3ft $\times$ 2ft and 6ft from floor.

The Partitions to Store Room and Pantry

to have $4\frac{1}{2}$ " $\times$ 2" studs, heads and sills; the studs to be spaced at 18" centres tenoned into heads and sills and braced with 3" $\times$ 1" battens.

The door frames to be 6" $\times$ 2" with $5\frac{1}{8}$ " stops.

Doors.

The front doors to Entrance Hall to be $2\frac{1}{4}$ " $\times$ 7" framed and braced, sheathed on the outside with 1" matched beaded boarding, the styles, rails and braces stop chamfered inside, hung folding with three pairs of 5" bolts to 7" $\times$ 3" rebated stop chamfered frames. Put on each door outside a pair of ornamental wrought iron sham hinges and an approved metal knob.

Fasten one door with 10" tower bolt at foot and an American chain bolt at top, and the other door with a strong 10" draw back lock.

The frame to be secured at foot with four $1\frac{1}{2}$ " iron studs let into slate step and with three 1" $\times$ $1\frac{1}{4}$ " iron straps each side screwed to frame and built

in walls.

The inner doors to enter Hall to be 2" rebated framed folding sash-doors with raised panels & bolection moldings outside, and flush molded inside, hung with three pairs of 4" butts to 6" x 4" rebated stop chamfered frames.

The heads of jambs to be tenoned into 6" x 4" cut & molded transoms. The transoms to be the width of the Hall and the ends let 6" into walling.

Fasten one door with tower bolts top and bottom, and the other with an approved spring latch. Put on each door a bronze knob.

The jambs of frame to be secured at foot with four iron studs let into slate step.

Provide proper beaded stops for the glass.

Over the transoms fix a 2" three-light skylight with 6" x 2" gothic headed frame

Between the outer and inner doors put 2" panelled framing with raised panels and moldings outside, same as inner doors.

The panelling to be as high as the frame over Fanlight, the soffit to be panelled ^{trimming} to match sides.

The spaces over Porter's and Lat rooms to be ceiled with $3\frac{1}{4}$ " matched beaded boarding.

The outside doors to passage, Lecture Room and Scullery to be 2" framed four panelled, bead butt outside and flush molded inside, hung with 5" butts to $4\frac{1}{2}$ " x 3" rebated and beaded frames, and fastened with Carpenter's best 7" rim locks with Andrews' patent solid brass handles.

The Scullery door to have $4\frac{1}{2}$ " x 3" rebated and double beaded transom, and 2" fixed oval fanlight.

The frame to be secured as described for front Entrance frame.

Each door to have a 4" throated drip mold tongued into bottom rail.

29

Internal Doors.

The Internal doors to be 2" framed four panelled, molded both sides, hung with three 1" bolts to 3" x 1 1/2" skeleton framed linings and soffits with 5/8" stops, and fastened (except where otherwise specified) with approved 6" brass faced mortice locks with solid brass handles as above specified.

The two doors from outer Hall to have 1 1/2" framed panelled & molded linings and soffits.

The doors in Stud Partitions to be hung to the frames specified.

The doors of Kitchen and other Offices at back to be fastened with Carpenter's 7" rim locks with solid brass handles.

Hatch in

Dining Hall The opening at back of Dining Hall to have a sash frame built in the wall fitted with brass axle pulleys to suit chains.

Hang to this frame with copper chains a 1 1/2" framed, panelled and molded door fastened on Kitchen side with two 6" tower bolts, and supplied with

a pair of brass fall lifters.

Put 1" linings and soffit and 1 1/2" Window board as shown.

Surround both sides with 5" molded architraves.

Provide a step in Kitchen to Hatch as shown.

Windows

Frames.

Prepare and fix to all the Window openings (except otherwise specified) proper deal cased Sash frames, with 3 1/2" Singapore Cedar double sunk weathered and throated sills, 2" heads, 1 1/4" pulley styles with properly fitted pocket pieces, 3/8" square edge outside and inside linings, 1 1/4" x 5/8" mitred inside beads, 3/8" parting beads, slit deal parting slips and back linings, and best brass faced axle pulleys to suit chains.

Sashes.

Prepare and double hang to frames with copper chains (as per sample in this

Office) and cast iron ^{or lead} weights, 2" ovals
molded 2 light sashes, and fasten
with approved brass spring fasteners.

The styles of upper sashes to have
bracket ends below meeting rail.

Fit on each lower sash two brass fall
sash lifters.

Landlights. The Windows on ground floor of main
Building to have over the transom
7' x 2' rebated and beaded frames with
proper stops and 3 1/2" Singapore cedar
sills as before specified, the heads
to be built 6" into walls each end
and the jambs spiked to plugs in
walls.

Hang to the frames on strong metal
pivots, 2" sashes, and supply 5' of
approved cords, pulleys hooks &c for
opening and shutting.

Put molded linings to transoms inside
as shown.

Cellar.

The Window openings in Cellar to have
5' 2" x 3' rebated and beaded frames
with stops and sills as before specified.
Hang to the frames on strong pivots 2" sashes
and fasten with 6" tower bolts.

One panel of framing in Porter's room at entrance to be glass.

Arrowed lights. Prepare and fix in Partition of upper lavatory two 2' Sashes 3 ft x 2 ft. and surround both sides with 3" moldings.

Window boards. Provide and fix to all the Windows 1 1/2" window boards with rounded nosings and returned ends.

Those in front rooms of ground floor Dining Hall and Lecture room to be prepared for ventilators.

Fix Dado under these window boards as shown on Detail (Drawing N.5) with 1 1/8" matched & jointed boarding, screwed to fillet and grounds.

Linings. The Windows of front rooms on ground floor, Dining Hall and Lecture Theatre to have no wood linings or architraves. Put 1 1/2" bead to stop junction with plaster. Surround the other Windows inside with 1" splayed linings and soffits; the linings to be tongued to the frames.

Put 1" linings to the external doors of Passage and Lecture room.

Architraves. Put to the doors of front rooms on ground floor, Dining Hall and lecture room on each side 8 inch molded architraves on chamfered blocks to Detail drawing.

Put to the other Windows and Doors 5 molded architraves on chamfered blocks.

Main

Staircase. The Staircase to be constructed as shown on the Drawings.

Except where otherwise specified, the whole of the timber is to be Blackwood.

2" molded wall strings and 2" cut outside strings. 1 1/4" treads and 1" risers with rounded nosings and molding under, housed into strings and well glued and blocked.

Returned nosings and cut brackets mitred to risers.

3/4" sunk and beaded fascia.

6x6" turned newels, 5x3 1/2" molded handrail, and 2 1/2" turned balusters. 1 1/4" straight joint flooring to landing.

The wall strings to be continued round

Landing as Skirting.

The soffits of stairs to be $1\frac{1}{4}$ " framed panelled and molded: The panels filled in with $\frac{1}{2}$ " matched boards.

7×2 " deal Carriage pieces four to each flight, bracketted to each step.

3 " deal joists to landing spaced at 13 " centres.

The bottom Newels to be framed into a 6×6 handrail Sill crossing the Hall under joists, and built into walls each side, from which also the carriage pieces will start.

The Carriages for upper flight to be notched into a 4 " deal girder on landing.

Five eight cast iron molded balusters (provided in smithy) four to lower flight and two to each upper flight.

Cellar

Staircase. The Cellar Staircase to have $1\frac{1}{4}$ " treads with rounded nosings, housed into $1\frac{1}{2}$ " strings with $1\frac{1}{2}$ " $\times$ $\frac{1}{4}$ " bead on top.
 4×4 " stop-chamfered Newels, $4 \times 2\frac{1}{2}$ "

on the hand the door
and

rounded handrail and 1" square balusters.

The door at top to be 1" matched beaded and ledged, hung with 18" T hinges to 4" x 2" frame with 5/8" stops fastened with T rim lock as before specified, and surrounded on front side with 3" back molds.

Cistern

in Tower.

Prepare and fix in the Tower a 1 1/2" deal dovetailed Cistern 13 ft x 6 ft and 2 ft deep, with two divisions. Tie with eight 3/4" iron screw bolts nuts and washers. see Detail Drawings.

Cistern

in Servants'

Bath Room

Prepare and fix over Servants' Bath Room a similar Cistern 5 ft x 4 ft 8 2 ft deep, with one division, and fastened with four 3/4" screw bolts nuts and washers. The joists to be 7 x 5" spaced at 13" centres.

Care the front and soffit of Cistern with 1/2" matched beaded boarding.

Ladder

to Tower.

✓ Ladder
to Tower

Provide and fix an approved Ladder from one Bath Room to Tower with 4x2 stringy bark sides, and 2 round iron rungs 10" apart.

The ladder to be 12" wide.

Windows

to Tower Windows.

✓ Windows
to Tower

To the Window openings in Tower provide 6"x2" framed with 5/8" stops, with 3" Singapore cedar sills, and hang to same on each Window on strong iron pivots three Venetian Shutters formed of 1" matched beaded boarding fastened with approved cords pulleys to and 6" tower bolts.

Casings
to Girders.

Line the soffits and sides of iron Girders in Dining Hall and Lecture Room with 3/4" beaded boarding. Plant a 12" girth molding each side at top of girder.

Lavatories.

Fit up the lavatories on ground and First floors, with 1 1/4" deal shelves, cut for Basins fixed on strong skeleton framed

bearers and $5\frac{1}{2} \times 2$ rails.

Sink in

Scully. Make and fix in the Scully a Sink the size shown 2 ft 9" high 2 ft wide and 9" deep. The Sink to be $1\frac{1}{2}$ " deal dovetailed together and fixed on 4×2 skeleton framing.

Dresser.

Provide and fix in Kitchen a deal framed Dresser 10 ft long and 2 ft 6" wide; the legs and bearers to be $2\frac{1}{2} \times 2$

Put to the front and ends $1\frac{1}{4}$ " beaded framing.

Supply four (4) strong dovetailed Drawers 7" deep with 1" fronts, $2\frac{1}{4}$ " sides and $\frac{1}{2}$ " bottoms, to run on flush brass rollers on $1\frac{1}{2}$ " runners, and fitted with brass drop handles.

The ends to be the full depth of Dresser and the back of Drawers 12" from the back.

The Dresser top to be $1\frac{1}{2}$ " secured with strong screws from underneath.

Supply four tiers of Shelves from 7" to 4"

in width, housed into $1\frac{1}{4}$ " standards.
The projecting top to be $1\frac{1}{4}$ " finished
all round with 3" moldings.

Shelving.

Prepare and fix in the Store Room
on strong skeleton framed bearers 1"
Bench 8 ft x 3 ft.

The Pantry to have four tiers of 11×1 "
shelving on two sides and a 1 inch
Bench 2 ft wide below; all on
skeleton framed bearers.

In Addition, prepare and fix on
strong bearers where directed 50 feet
of 9×1 " shelving.

All shelving to be wrought both
sides.

Hook rails. Fix in the Hat Room at Entrance
and in the Bath Rooms passage &
where directed 60 ft of $5\frac{1}{2} \times 1$ " double
beaded deal hook rail.

Fix to same 30 hat & cloak hooks, value
20/- per dozen, and 30 cast iron

japanned hat and cloak hooks.

Lecture

Theatre. The Platform to be raised to the height shown on Drawing.
 7×2 joists 2 ft apart, framed into 7×3 trimmer, resting on 4×4 corner posts.
 Floor with $1 \frac{1}{8}$ " ply flooring.
 The front and ends of Platform to have $2 \frac{1}{4}$ " matched boardings jointed.

Put stops at ends and in doorway as shown.

Construct the Gallery and Stairs to same as shown on the Detail drawing.

Pump Stands

Mounting
fixed to wall
by means of
screws

Prepare and fix where directed two proper Jarrah Stands for Pumps securely fixed to a 6×4 Jarrah sill 5 ft long, sunk 12" in the ground and earthed over.

Cover for Copper Boilers

Provide a proper Cover for Boilers of 1 inch deal.

W.Closets. Five in number.

Roof the Closets with $4\frac{1}{2} \times 1\frac{1}{2}$ rafters spaced at 17" centres, nailed to $4\frac{1}{2} \times 2$ plates top and bottom. To both ends of rafters nail 7×1 stop chamfered fascia. On the rafters nail 3×2 battens 2 ft apart.

The Doors to be 1" matched, beaded and ledged, cut at top for ventilation, and hung with 18" T hinges to $4\frac{1}{2} \times 2$ frames with $5\frac{1}{8}$ " stops. The frames to be tenoned into 9×3 red gum sills with rounded nosings and nailed to plugs in centre and at top. Fasten each door with approved latches. The entrance door to Urinal to be $1\frac{1}{2}$ " skeleton framed, covered with 1" matched beaded boards, hung with 4" butts to $5\frac{1}{2} \times 3$ rebated and beaded frame, and fastened with approved American latch.

The frame to be secured at foot with 4 iron studs as before specified, and well nailed to plugs in centre and at top.

Prepare & fix on strong bearers $1\frac{1}{4}$ " seats and 1" plain risers.

On the top of each seat put 1" beaded flush frame, and hang to same with 3" bolts 1" clamped lid with rounded projecting nosing.

Put $4\frac{1}{2} \times \frac{3}{4}$ beaded skirting round seats. The floors to have 4×3 red gum joists $1\frac{1}{8}$ " boarding and $4\frac{1}{2} \times 1$ beaded skirting.

Put behind each river in Men's Closets a galv'd iron drip plate 12 ^{wide.} ~~by 12~~.

Cover the Soil pits outside with $1\frac{1}{2}$ " red gum planks on 6×3 gum bearers. Put 3×1 gum fillets over joints and cover with earth.

Number 42

Plumber Galv Ironworker Co.

Roof Covering.

Cover all the roofs with corrugated galv'd iron No 24 gauge, of approved brand laid with an end lap of 6 inches and a flute and a half side lap, and screwed to the timber every other flute with 2 1/4" galv'd iron screws.

Note.

The Hammer must not be used in putting in the screws, but all are to be turned in with a proper screw-driver.

~~Form Ventilating Gables in roofs where shown.
The Gables to have zinc sides perforated, zinc
fronts and zinc valleys all of No. 13.~~

Flashing.

Chase 2" into walls, to be properly stepped where required round Chimney stacks abutting roofs and wherever else required for sound construction No. 10 zinc flashings, to average 12" wide, turned down at least 6" and well dressed into flutes of iron covering, and where stepped up against walls not less than 6", and lapped over 4" at joinings.

All the flashings to be fixed with proper wall hooks or zinc wedges, and stopped with cement.

Gutters. Line the box and valley gutters with No. 12 zinc with 6" laps, the valley zinc to be 15" wide.
The zinc in box gutters to be turned up each side to top edge of pole plate left quite free without nails, and flashed with No. 10 zinc to go 3" under roof covering.

Capping. Cover the Ridges and Ribs with 18" galv'd iron Capping No. 24 gauge, well secured to the rolls with galv'd iron screws and washers, and scribed and dressed into the flutes of covering.

Note. The Contractor to include in his Tender the sum of Twenty Pounds (£20) for wrought iron Finales and ridge to Tower Roof, including the Finales to Wing Gables.

Air Bricks. Provide fortytwo (42) cast iron Air-bricks 9 x 6, to be built in by Mason.

44
Eaves

Gutters.

Put to the eaves of Main roof and Tower 6" galv'd iron guttering No. 24 gauge, made to

Detail drawing to be supplied, secured to fascia with straps and screws working in slotted holes.

Every joint to be double rivetted with turned rivets and well soldered inside and out.

Put to the lower roofs 5" Oly galv iron guttering 24 gauge as above described.

The connection with the Down pipes to be properly soldered.

The cut aprons on Lower roof under Capping to be 5 lbs lead, scribed & dressed into the flutes of iron covering.

Down-
Pipes.

Provide and fix where directed 500ft of 3" galv iron Down pipes 24 gauge with proper swan necks, clips &c complete, and properly connect with the eaves gutters and Drain pipes.

The lowest 6 ft lengths of all pipes with the bends and shoes are to be of cast-iron.

The rain water from Lower Roof to be conveyed into the Cistern in Tower.

Part of the rain water of lower roof at back to be taken into Cistern of servants' Bath Room.

Put 2" 6" galv iron waste pipes outside where directed, to take overflow from Cistern and waste water from Baths and Lavatories.

Cisterns. Line the Cisterns with No. 13 zinc turned over the top edges 1 inch. Put a 4 inch galv'd iron overflow pipe to each that to the Lower Cistern to be carried into the 6" waste pipe in angle, and that to the Servants, into Drain.

Baths. Supply and fix in Bath Rooms three (3) approved galv'd iron Baths No. 20 gauge, with $\frac{3}{4}$ " service from Cisterns above ~~above~~, and $\frac{3}{4}$ " brass bib-cocks.

Provide and fix over each a 15 inch galv'd iron Shower 8 ft high, with $\frac{5}{8}$ " service, ball cock and ball and brass chain pull the required length.

Each Bath to have a 3" brass plug and washer with 2 ft of strong brass chain and 2" lead waste pipe with  trap, connected with 6" galv'd iron waste pipes in external angles attached to waste drain.

Lavatories. Provide and fix in the Lavatories 14 cast iron enamelled Basins with $\frac{3}{4}$ " brass plug and washer to each & brass chain.
The Lavatories on first floor to have $\frac{3}{4}$ "

Service on each side and $\frac{1}{2}$ " branches and brass bib-cocks to each Basin.

The waste water to be carried in a galv'd iron Trough 4" square through the Bath Rooms into the waste pipes of Baths.

When the Basins are fixed, cover the shelves with 5lb lead, turned 9" against walls and over the nosing.

Cover the floors of Lavatories & Bathrooms with 5lb lead, turned up 9" against walls. Put a 4 lb lead flashing over chased into walls.

Kitchen

Range. Supply for the Kitchen fireplace a ~~Cooking~~ Range of approved design, cost price in Adelaide Twenty Pounds (£20)

Copper. Provide for the Scullery a 30 gallon Copper ^{Boiler} with furnace bars door &c complete.

Cover the top of brickwork with 6lb lead turned 6" against wall and lapping over at the joint 2 inches, and 1" inside the Boiler.

Sink. Line the Sink in Scullery with 6 lbs lead turned over edges and fastened with copper nails $1\frac{1}{2}$ " apart. Fix in Sink a 2" copper plug and washer, and 2 feet of $2\frac{1}{2}$ " lead waste pipe under, trapped and taken through wall.

Ventilators in Roofs Provide and fix in roofs fifteen (15) approved galv'd iron Ventilators. The Ventilators can be obtained in Adelaide for 75/- each.

Supply and fix all the vertical pipes from Ceilings to communicate with Ventilators of diameter, and with 24" funnel mouths at Ceiling line.

Also supply & fix fifteen (15) Dormer Ventilators in roofs without tubes, value in Adelaide 25/- each.

Ventilators in Window boards Provide for the Window boards of Dining Hall, Lecture Theatre and front rooms on Ground Floor, 9×14 " zinc terminals 3" deep, finished with $\frac{3}{8}$ " lead, & covered with fine galv'd iron wire or fine perforated zinc.

Vertical Ventilators in Provide and fix in two angles of Dining Hall and 2 of Lecture Theatre 12" x 6" galv'd iron tubes, N. 24 gauge; those on floors to be 5 ft high at those at back of Lecture Hall 5 ft above top platform; each to have fixed perforated zinc grating on top, and communicating with the air flues provided by Mason.

Ventilators Fix internally in one angle of in. W. closets each 11" closet a 14" galv'd iron Air pipe, flush with the underside of seat, and going 2 ft above eaves of roof, finished with conical cap.

Iron girders. Supply six (6) double girders 30 ft long and one single girder 20 ft long over Bay in library.
The double girders composed of two 8" x 14" Wallace's malleable iron beams, rivetted together with $\frac{1}{2}$ " rivets every 4 inches.
The single girder to be one 8" x 14" S.
Each girder to have one coat of boiled linseed oil laid on hot.

Stairs. Provide the cast iron balusters required for the main staircase.

Iron
railing Provide and run into slate steps
 to outside with lead three 2" cast iron
Staircase of ards.
Cellar Room. On these fix 2" wrought iron pipe
 rail, with all proper screwed joints
 couplings and scroll end.
 Area with 2" steps
 steps shall not be charged for

Area

Grids. Supply the cast iron grids for Cellar
 areas.

Pumps. Provide and fix from Underground Tank
 a force pump to force the water into
 Cistern in Tower with 1 1/2" wrought
 iron suction pipe, and all necessary
 piping.

Provide and fix a similar Pump
 to supply Cistern over Servants' Bath
 room.

Bell. Provide the sum of Ten pounds (£10)
 for an approved Bell and pull
 where directed.

Note.

The Clock will not
be included in this
Contract.

Supply all hoop iron arch
bars, bolts & required by
"Mason".

Plasterer.

Plasterer.

Lath, lay, float and set all the Ceilings and Quarterpartitions unless otherwise specified.

The laths to be stout, Colonial made, put on with cut nails, to break joint frequently and not overlap.

The finishing up coat to be well lath scratched, and both first and second coats to have plenty of clean hair thoroughly intermixed.

Lather lay float and whiten the Cellar ceilings.

Walls. Render, float and set (unless otherwise specified) all the walls internally including W.C. closets.

Push out fair with mortar, and limewhite the Cellar walls internally.

Cornices. Run plaster Cornices 12 inches girth round Ceilings of Dining and Lecture rooms, and 20 inches girth in library and in outer Hall. Continue sunk head at foot of jirals lining in Dining & Lecture rooms.

Cementing Tank.

Render in cement the inside of Tank $\frac{3}{4}$ " thick in two coats. The first coat to be one cement to two sand, the second coat one to one. The second coat to be put on the day after the first, and to finish with a smooth trowelled surface. Before commencing, thoroughly rake out all the joints in the walling not left open by the mason.

Soil pits &c. Render in cement $\frac{3}{4}$ " thick in one coat the sides of soil pits, Areas to Cellar windows, Urinal walls and coping to fence walls of W closets and Urinals.

Render in cement internally the walls of Dining and Lecture rooms to the height of 3 ft from floor, finishing with a 2" bead.

Render in cement the walls of Bath rooms and lavatories to the height of 5 ft from the floor.

Put 6" x $\frac{3}{4}$ " chamfered cement Skirting

round all slate floors except Cellar.

Externally the portions not colored or tinted are to be ^{rendered} ~~run~~ in cement, viz, Copings on gables, the necking and the space between necking and eaves, all strings, hood moldings and water tables to window sills, the Clock Gable complete &c.

Internally the following must be run in Keene's cement viz: the external angles of fireplaces, stop chamfered and showing $1\frac{1}{4}$ " face; the pilasters and arch between outer and inner Hall; the Arches in Corridor, the linings and soffits to Windows of Dining and Lecture Rooms Windows of front rooms on ground floor and the arches & panels, jambs, mullions &c of Staircase Window. All Keene's cement to be brought out in rough Keene's and not on Portland. All the external cement work visible to be washed to a uniform tint.

All cement moldings and dressings to be worked to detail drawings to be supplied.

Cement. The Cement (where not otherwise specified) to be best Portland of approved brands.

and to be used generally in the proportion of one to one of sand.

The Sand must be good & sharp, the best procurable within ten miles, well washed to remove loam and foreign matters and run through a sieve with a fine mesh.

The Lime used in plastering is to be best quality and fresh burnt, and the sand to be clean coarse and sharp the best procurable as before specified.

All Water used, must be fresh and pure.

Glazier.

Glaze all the Windows, fanlights and Sash doors throughout (excepting front door) with the best 26 oz sheet glass, free from waves and blotches & properly bedded and stopped in oil putty.

Glaze the Front door & fanlights with Cathedral tinted rough glass.

Glaze the Screens in Bath Room with Harber's patent rough plate.

All bedded in & stopped as above.

Painter.

Knot stop and paint four coats all the woodwork usually painted, including Shelving, Kitchen Dresser, Sink, partitions in outer Hall and upper Bath rooms, casings to Girders &c, and finish in two shades of color as directed.

The handrails to main Staircase to be French Polished.

The Blackwood of staircase with the exception of handrails and treads to have two coats Varnish.

The Finials and Ridge of Tower and all other finials to have 2 coats of paint as directed, and to be picked out in gold and colors as shall be directed.

Paint the eaves gutters down pipes, waste pipes, air tubes, ventilating pipes in angles of Dining and lecture rooms &c two coats stone color or as directed.

Paint the slate Mantel pieces 2 coats as directed.

Paint the brick hobs and hearths, and the sides and backs of fireplaces as high as seen 2 coats Brunswick black.

The paint used to be Champion's white lead and oil color.

The varnish used to be Mander's best Coach varnish.

Leave all glass and paint clean and perfect at completion.

Sweep and clean all floors and leave the premises clean and ready for occupation.

Contractors must state in their Tenders the time they require for completion of works.

Edward J. Woods
Architect in Chief

Witness

Sarah Durman
Contractor

Witness.
J. H. Middleton

12 : 6 : 83

12 : 6 : 83

Please note the following alterations and additions to Specification of Agricultural College to be built at Roseworthy.
on Pages 6, 9, 34, 43, 47, 48 and 55: 9 May 7th 1883.

- Pages.
6. Mason &c. - The building stone to be the best procurable from Tarlee.
9. Air Bricks, = And provide and build in 25 earthenware ventilators 9" x 6".
34. Main Staircase = After the words: The soffits of stairs to be 1 1/4" framed panelled & milled.
Add: The panels filled in with 1/2" matched boards.
- 43 Air Bricks after Cappings:
Provide 42 cast iron Air bricks 9x6 to be built in by Masons.
47. Ventilators in roofs }
@ 75/- each } Fifteen⁽¹⁵⁾ to be provided & fixed instead of ~~five~~ specified in roofs of Dining Hall & Lecture room.
50. also 15 Dormer Ventilators in roofs, but without tubes, value 25/- each.
48. Iron girders.
First clause reads: Supply Six double girders 30 ft long, and one single girder 20 ft long, Add over Bay in Library.
55. Glazier. reads. Glaze all the Windows &c, Add (excepting Front Door) with best 26 oz sheet glass &c. Glaze front door & fanlights with Cathedral tinted rough glass.
Glaze the Sereled in Bath Room with Hawks patent

**Original Specification for two additional rooms to
Principal's Residence, Agricultural College Roseworthy
(now Roseworthy Campus, The University of Adelaide)
(Department for Building Management (SACON) Records:
Historic Document)**

Call for tenders dated
Tenders rec^d till noon of

Specification of works to be done in
building additional two rooms -
Cellar, and alterations to sundry
outbuildings at the Government
Experimental Farm
Roseworthy

Memo -

Contractors are requested to read
the foregoing Conditions of Contract as a
portion of this Specification with
special reference to Clauses numbered 2 -
5. 6. 16. 22 & 25 respectively

Insurance &c

The Contractor shall repair all damages
happening to the works or any part of
them from whatever cause; shall at his
own expense effect a policy of Insurance
against fire in the name and for the
benefit of the Honorable the Commissioner
of Public Works to the full amount of
money advanced, and shall continue
such policy, and be liable for all risks
until the final completion of the works,
and till the Certificate of the Architect in
Chief in writing to that effect shall have

been obtained, and shall lodge the receipt of such Insurance with the Architect-in-Chief, and in default of his so lodging the same, the Hon: Commissioner may effect such Policy, and deduct the amount of the premium from any moneys due or becoming due to the Contractor

Contingencies

The Contractor to include in his Tender and Contract a provision of Twenty Pounds (£20) for contingent works over and above those specified or shown on the drawings, that may be ordered by the Architect-in-Chief, to be by him deducted wholly or in part as the case may be for the benefit of the Commissioner of Public Works if not so ordered

Excavator & Laborer

Excavate the ground for the foundations Trenches, Cellar &c to the depths and widths shown and figured on the drawings, unless otherwise directed at the time.

The Trenches to be stepped if necessary, taken out to the exact sizes, left quite square, plumb and level, and clear of all loose earth or material when the foundations are put in

Excavate for Steeper Walls

Excavate under wood floors so as to leave a clear space of 12 inches under floors.

Pump or bale out any water that may accumulate in the trenches or around the building during the progress of the works

Fill up holes and cut surface drains to conduct the water from the building

Remove all stumps or other obstructions to the excavations, or that may come within the area of the building

Form a slope round the building by raising the surface to the height shown on the drawings with the excavated or other material to the extent of 12 feet from the walls, and evenly ram the same

Cart away all superfluous earth, soil or rubbish, and at the completion of the work leave the Premises free from refuse and useless material.

Concrete. Fill in the trenches to the surface with good concrete, composed of well-burnt lime, and clean coarse gravel, or limestone broken to $1\frac{1}{2}$ gauge, and sand mixed in the proportion of one part lime, to (5) five parts of gravel, or broken limestone, and

stand all thoroughly turned over before it is thrown into the trenches or post holes

The Contractor must erect a suitable shed for the protection of the lime, the floor being raised high enough to guard against the effects of heavy rains

When the Concrete in the foundations has become sufficiently firm it is to be well and evenly rammed over the whole surface, care must however be taken that the concrete has not set before the ramming is commenced

Rains

Form where directed on a 6" bed of concrete to a proper fall, forty feet of 3 brick drain, bricks to be well grouted with cement.

Mason and Bricklayer

Build all walls with approved slate building stone from Gawler in good sound rubble masonry with level beds, the best stones being picked for the faces, all thoroughly bonded and flushed up with good mortar in every part

The footings are to be put in with the longest and flattest stones procurable

All stones are to be laid on their natural

beds, and the walls to be carried up regularly proportion to rise more than scaffold high above the adjoining work,

Build sleeper walls where required or thrown, well flushed with mortar on both sides

Great care will have to be taken in bonding the new and old walls - which must be done by taking out stones from the old and inserting long and good stones passing well into both walls

Damp At the level of the plate of the floor roofcourse joists put a course of hot tar and sand $\frac{3}{4}$ " thick spread evenly over the whole width of the walls - The sand must be sharp and free from loam, perfectly dry a sufficiency of the boiling tar being added to form a solid body

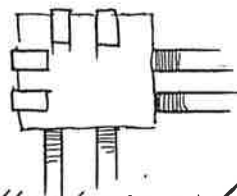
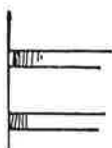
Pointing The external joints of walls are to be raked out, and flushed with mortar tinted to match the color of the stone as near as possible, struck with a ruled sunk joint, and when dry drawn out with thick oil paint, black or white as may be directed

Plinth The plinth is to be formed with splayed

10

bucks set on a course of stretchers -
joints to be left open until completion of the
walls when they are to be neatly browl
pointed with fine mortar.

of Ron Build in all the walls two tiers of
Bond 2" hoop iron No 13 wire gauge two rows
in each tier; build in H.I to secure all plates,
The iron must be new and clean and
the joints carefully made by clipping
round a transverse piece of Hoop iron
as per sketch in margin, and at the
angles the ends to be turned round a
hard squared stone thus,
and not lapped round the
other iron - and where the
old and new walls join the Hoop iron to
be taken as far as possible into the old
wall and turned over the bonding stones
before mentioned



The walls must be levelled up for the
bond in all cases, and after the ends of
the hoop iron are well secured the whole
must be strained tight by removing small
thin stones from the under side of the
iron.

In the internal walls the hoop iron
must be put immediately over the lintels
of the doorways

Note. No hoop iron to be built over until inspected by Clerk of Works.
Quoins Main quoins to be 18" x 9" rising three

7

Courses each block, window and door dressings 14×9 also rising three courses each block.

The Arches over doors and windows are to be gauged and rubbed for all, carefully joint with a putty joint

The string course and eaves to be in brick as per detail drawing.

Turn 9" relieving arches over all openings, a good skewback must be formed in all cases and a rise of at least one inch to the foot given, the springing of arches to start from ends of lintels

Lintels Provide and build in to all openings 3" deal lintels with a bearing of 3" at each end and of the necessary width

Bolts - Build in the front and side walls at 5 feet apart, $\frac{5}{8}$ " screw bolts with nuts and washers to go 9" into wall and turn down 6" for 2" patching piece of verandah

Air Bricks Provide and build in (13) thirteen air bricks size 9×6 - six to go under the floors, and the remainder to ventilate the rooms and passage, set in the walls between the string course and eaves - all air bricks to be set in cement

Cupled 3 Build in coupled bricks at the proper height
B. . . . 3

for plugging for skirting - say 18" apart

Hobs Build proper hobs to each fireplace, with good bricks - Leave an opening in front of hearth for passage of air. 9" x 3" air brick over mouth

Hearths To the fireplaces provide and set in Mortar upon solid masonry $1\frac{1}{2}$ " slate hearths with smooth surface and sawn edges, length 4.6 by 1.6 in width.

Mantel Pieces To the two fireplaces provide and fix approved enamelled slate Mantel pieces value in Adelaide 80/- each

Provide all necessary cramps & required for the proper execution of the work

Bricks All bricks used on the works must be hard and well burnt of good shape and color - and immediately before using to be well wetted with fresh water

Generally Bed all plates, point round door and window frames with Cement or have Mortar, screed in box frames - and generally attend upon other trades when required

Mortar All Mortar must be made with fresh burnt lime and clean sharp sand, free from loam or salt - mixed one part lime to $2\frac{1}{2}$ parts sand and thoroughly beaten

up before it is taken to the Mason

The sand must be the best procurable within five miles

Mortar allowed to become dry in the heap will be absolutely condemned and must not be used in any part of the buildings

Water All water used must be fresh & pure

Carpenter and Joiner

All the timber used in the building unless otherwise mentioned is to be the best well seasoned yellow Baltic deal, free from sap, bad shakes, large or loose knots or other serious imperfections and must hold the full specified dimensions, except the ordinary allowance for sawing and working

All timbers showing are to be wrought and all woodwork intended to be painted must be primed before being fixed this applies to outside work particularly

The joints of all framing to be put together with white lead paint

Roofing The roof to be formed as shown on the drawings

Note All gun timber required must be ordered within 2 weeks

after signing the contract + stacked on 10' the ground within 6 weeks after the date of the contract.

$4\frac{1}{2} \times 1\frac{1}{2}$ Ceiling joists at 17" centres, on $4\frac{1}{2} \times 1\frac{1}{2}$ plates, tied up to Purlins every 4 feet with $1\frac{1}{2}$ hoop iron, and backed by 3×2 battens 4 ft apart.

On every third joist which must project to receive fascia, fix $4\frac{1}{2} \times 1\frac{1}{2}$ rafters, collar ties and hanging pieces, the rafters to be notched at foot and nailed to $3 \times 1\frac{1}{2}$ batten nailed on ceiling joists, where the ceiling joists run parallel with the eaves frame into them $4\frac{1}{2} \times 1\frac{1}{2}$ cantilevers 2 ft apart to carry fascia; $7 \times 1\frac{1}{2}$ ridge pieces (~~care to be taken that the ridge pieces of the new roof are well scarfed and secured to the ridges of the old roof~~) and $9 \times 1\frac{1}{2}$ hip rafters, with $1\frac{1}{2}$ rounded rolls on top, and fillets nailed on each side to receive iron covering; $4\frac{1}{2} \times 3$ angle ties, and dragon pieces, $9 \times 1\frac{1}{2}$ valley pieces bracketted each side to receive $5\frac{1}{2} \times 1$ valley boards, $3\frac{1}{2} \times 2$ purlins spaced as shown, with angle fillets under nailed on rafters, $9 \times 1\frac{1}{2}$ chamfered fascia nailed to ends of ceiling joists and cantilevers, with $1\frac{1}{2} \times 1\frac{1}{2}$ hollowed fillet planted on to carry the eaves gutters.

Form the soffit of Eaves with $1\frac{1}{2} \times 1$ battens spaced 1" apart. Timbers of old roof.

NOTE. Purlins of new roof to be carried on to and secured to

udaki

Fix to the bolts built in front and side walls $4\frac{1}{2} \times 2$ chamfered pitching

piece for Verandah roof

The posts to be Jarrah 5×5 stop chamfered let into the ground as shown, and the holes filled in with concrete. Cut the top of posts for fascia

The fascia to be 9×2 stop chamfered and fastened to each post with two $\frac{1}{2}$ " screw bolts nuts and washers, plant on the fascia $1\frac{1}{2} \times 1\frac{1}{2}$ hollowed fillet to support eaves gutters

At each end of the Verandah put a $4\frac{1}{2} \times 1\frac{1}{2}$ rafter nailed to pitching piece and bolted to posts. Fascia also to be returned, finish with $4\frac{1}{2} \times 2\frac{1}{2}$ weathered and throated capping screwed to the rafter with $2\frac{1}{2}$ galvan. iron screws.

Floors

Lay the floors with $1\frac{1}{8}$ prepared J. & S. flooring boards, well dogged up and nailed to 4×3 red gum joists, spaced at 16" centres; the joists to be skew nailed to $3\frac{1}{2} \times 1\frac{1}{2}$ red gum plates

Put mitred margins to hearths and clean off floors at completion

Parting

Put 9×1 Torus skirting to all the floors grooved and scribed at the internal

angles, mitred at external angles, scribed to the floors and strongly nailed to fillets on floors, and plugs in walls

Doors

The external door to be 2" framed four panellled, with raised molds & panels on outside and molded inside, hung with 5" butts to $5\frac{1}{2} \times 3$ solid rebated and beaded frame with solid rebated and beaded transom - the lower portion of the side lights to have panels & molds as above, the upper portion to be left for glass -

The frame to be secured at foot with four (one to each panel) $\frac{1}{2}$ " iron studs let into slate step and to be well nailed to plugs fixed in the walls at centre & top

Hang with 3" butts over the centre of door 2" ovolo molded faulight, and fasten with approved latch (brass)

Fasten the door with Carpenters' best 7" rim lock, with solid brass handles as per sample in the Architect in Chiefs office, and two 10" Tower bolts

Surround the frame inside with 1" tongued linings and soffit and 6" architraves

The internal doors to be $1\frac{3}{4}$ " framed four panelled, moulded both sides, hung with 4" butt to $3 \times 1\frac{1}{2}$ " skeleton framed jambs and soffits with $\frac{5}{8}$ " stops and fastened with Carpenters 7" rim locks and solid brass handles as above.

Provide and fix approved porcelain furniture to internal doors (both sides) of the value of 4/6 per set in Adelaide

Surround both sides of these doors with 6" Architraves

Windows. Provide and fix to all the window openings proper deal cased sash frames with $3\frac{1}{2}$ " Singapore cedar double sunk weathered and throated sills, 2" heads $1\frac{1}{4}$ " pulley styles with properly fitted pocket pieces, $\frac{3}{4}$ " square edge outside and inside linings, $1\frac{1}{4} \times \frac{5}{8}$ " mitred inside beads, $\frac{3}{8}$ " parting beads, slit deal parting slips and back linings, and best brass faced axle pulleys to suit chains

Prepare and double hang to same 2" Ovolo sashes with copper chains (as per sample in the Office of Architect in Chief) and cast iron weights, and fasten with approved brass spring sash fasteners

Fix to each lower sash two brass fall sash lifters

Surround the windows with 1" splayed
tongued linings and soffits, and $1\frac{1}{2}$ "
rounded window boards with returned
ends of sufficient length and width
for Architraves to rest on

Put $1\frac{1}{2} \times 1\frac{1}{2}$ " hollowed fillet under window
boards with returned ends

Put 5" architraves to all the windows
internally

Provide and fix to each window a set
of approved American Blind fittings
complete, including roller and lath, price
 $2\frac{1}{6}$ per set in Adelaide

Note all architraves to be $1\frac{1}{2}$ " thick

Internal Provide and fix close to the Ceilings
ventilators internally and opposite the external
air bricks $5\frac{1}{8}$ " beaded deal frames 9×6
and 3" deep, filled in with fine perforated
Zinc

Plumber and Galvan^e Ironworker

Zinc Line the Valley gutters with No 13 zinc
15" wide, left quite free without nails -
properly connect these gutters with

the box gutter on the existing roof.

Flash and step flash round the Chimney stacks with No 10 Zinc

Roof

Covering

Take up so much of the iron on old roofs as may be necessary to form neat junction with the new. and cover the roofs with galvanized corrugated iron 24 gauge, of approved brand laid with a horizontal lap of 6", and a flute and a half side lap, and screwed to the timber every other flute with $2\frac{1}{4}$ galv^d iron screws

The Verandah roof to have the side joints rivetted with galv^d iron rivets and burrs 18" apart

Form the hips with No 20 gauge galvanized iron

Capping

Cover the ridges and hips with 18" galv^d iron capping 24 gauge, well screwed to the rolls with galvanized iron screws and washers, and scribed and dressed into the flutes of iron covering ~ Cover the hips of Verandah with 5lb. lead, 9" wide dressed into flutes

Eaves

Gutters

Put to all the eaves of main roof 5" O.G. 24 gauge galv^d iron guttering, secured with straps and screws working in slotted holes - Every joint to be double rivetted with turned rivets and well soldered inside and out; arrange the slope of these gutters

so that they may discharge into the gutters on present roof.

To the eaves of Verandah put 5" O.G. secured, rivetted &c as above specified

Ironpipes Provide and fix where directed two 3" galvanized iron downpipes to convey the rain water from roof of Verandah

Provide proper clips, shoes &c complete and properly connect with the eaves gutters

Plasterer

Lath, lay, float and set the ceilings, the laths to be stout Colonial made, put on with cut nails, to break joint frequently and not overlap. The picking up coat to be well lath scratched, and both first and second coats to have plenty of clean hair thoroughly intermixed

Render, float and set the walls of rooms and passage

Chamfer all the external angles internally of fireplaces, showing $1\frac{1}{4}$ face, finished with plaster of Paris

Render in Cement and properly weather the tops of window sills, but kept below the bottom of wood sill so as not to obstruct the throat under

The cement to be the best Portland of approved brand, and to be used generally in the proportion of $1\frac{1}{2}$ sand to 1 cement

The sand must be good and sharp the best procurable, well washed to remove loam and foreign matters, and run through a fine mesh

The lime used in plastering is to be of the best quality and fresh burnt.

All water must be fresh and pure

Glazier

Glaze the windows and Fanlights with the best 26 oz sheet glass, free from waves and blotches and properly bedded and stopped in oil putty.

Fill in the side lights of front door with similar quality glass.

Painter

Knot stop and paint four coats - the last coat prepared for graining -

Grain the whole of the internal wood work. (to correspond with painting in the other parts of the building) and the outside of Front door and windows - Varnish with 2 coats of the best Copal Varnish

The Verandah posts and fascias to have four coats, in two shades as directed

Paint the Eaves gutters and downpipes two coats stone color

Paint the hobs and sides of fireplaces two coats Brunswicks black.

The paint used is to be "Champions" best oil and lead color

Leave all glass and paint clean and perfect at completion

Wash floors and leave premises clean, and ready for occupation -

Cellar -

Excavate to the widths and depths figured on the drawings

Note. All materials used are to be equal in quality to those specified for Residence

Build the walls & footings with stone similar to that specified for Residence - walls to be thoroughly flushed up and lime-washed, two coats at completion.

Provide and build in (2) two $1\frac{1}{4}$ " round iron tie bars as shown, washers $6 \times 6 \times \frac{1}{4}$ with screws and nuts at each end.

Coping to end walls built on edge.

Build the arch roof as shown with best hard bricks 9" deep, and to be formed on a proper centre, arch to have good skewbacks - soffit to be rendered and floated with good Mortar - exterior of arch, also tops of copings, to be grouted, weathered, and plastered with cement. (mixed 2 sand to cement) $\frac{3}{4}$ " thick in one coat well worked and finished floated

At the ground level fill in around the whole of the walls with concrete, 1 foot wide and 9" inches deep. weather up to walls as shown -

Lay 6" of concrete for the floors - all to be well rammed and brought to a level and smooth surface

~~worked and finished floated~~

Provide and build in 3" deal lintel over the doorway, having a bearing of 3" at each end and of the full width of wall

Door to be $1\frac{1}{8}$ " ledged, hung with 14" T hinges to a 4" x 3" solid rebated frame, the frame to be knotted into a 6" x 3" gum sill. The door to be perforated for ventilation as shown. and painted 4 coats good oil and lead color. fasten with an 8" stock lock door to be lined at back with perforated zinc over the perforations

Flap covers over steps to be of 12" matched boarding, covers will be in 3 pieces arranged to overlap at the edges to prevent rain penetrating - see sketch - boarding to be screwed to framing 4" x 2" - to each leaf put 2. 14" T hinges and hang to a 4" x 3" solid rebated pitching piece built into wall as shown and secured by strong galvanized iron holdfasts. on the hand wall of steps put a 6" x $1\frac{1}{2}$ " piece of red gum ^{with dippers and nails} secured to wall by $\frac{1}{2}$ " bolts, built in.

These flaps must be made with thoroughly seasoned timber - to be painted both sides 4 coats good oil and lead color

Put a 9" galvanized iron Ventilation tube in the centre of the roof - as shown
_{put a cap on top}

Buggy Shed. Chaff Store - Stable Mason.

Take down so much as may be necessary of the present back & side walls of the shed, level same and lay a course of 2" H.I. in two rows and raise the walls to the heights figured on the drawings using stone similar to that specified for the Residence - the walls to be thoroughly flashed up on both sides with good Mortar - tops rounded as shown and rendered in Cement $3/4$ thick, carried down to the vision covering -

Form apertures for Ventilation to each stall as per sketch in Margin -

Internal faces of walls to have 2 coats of lime wash

The floor of the Stable to be pitch paved with approved large pebbles, on concrete 4" deep well rammed, - lay paving to slope for drainage as may be directed, and to be well grouted with liquid Mortar -

The floor of Chaff shed to be $3/4$ cement in one coat, (mixed in the proportion of two to one cement) resting on 4" concrete well rammed -

The floor of Buggy shed to be of limestone metal broken to an $1\frac{1}{2}$ gauge - in a layer 6" thick, rammed with heavy rammers, ~~to~~ and properly finished with fine gravel

Concrete to be of good fresh burnt lime, sand, gravel or broken limestone $1\frac{1}{2}$ gauge - in the proportion of one lime to five of the latter combined

Put in each post hole a large flat stone, and when the posts are set in their proper position fill in the holes with concrete & well rammed

22

Carpenter-

The front posts (No 3) to be 6" x 6" red gum or farrah
lft from the saw. fixed 2 ft in the ground and cut
at top to receive fascias & rafters; the heel post
5" x 5" set 2 ft in the ground, to go to the roof, cut at
top to receive rafter.

Fix 4" x 2" gum plate on back wall for rafters
Rafter to be 7" x 3" deal, skew nailed to plate at
top & fastened to posts (cut to receive) with 2 screw bolts
Fascia to be 5" x 3" deal, fixed on the posts (cut to
receive) and fastened to same with 1/2" screw bolts
nuts & washers, 2 to each post - 1 1/2" hollow under gutter
Roofing to be 3" x 2" as shown deal, nailed to
rafters and to have angle blocks to each

Intermediate posts in Chaff store to be 6" x 4"
fixed in concrete same as the other posts -
Posts to Chaff store to be notched to receive the rails
The rails (No 3) to be 3" x 2" deal set into the posts
& fastened to same with 4" wood screws -

The stall rails to be 4" x 3" - top rail rounded,
all framed into the heel post, well wedged & to
be fixed 6" into wall at back

The Mangers to have 4" x 3" grooved & rounded
strongy bark rail at top and bottom, and 1 1/2"
matched boards front and bottom set into rails
and strongly filleted, bottom of Manger 1 1/4" boards
supported on and nailed to (6" x 2") eight red gum
sleepers to keep the Manger clear of the floor -

Make a vertical hole in each top rail for
water to pass through

Provide and fix in each Manger a corn box 12"
deep, the top edges to be covered with stout hoop iron
well screwed down and the ends filed

Provide two (2) approved cast iron harness brackets, and properly fix same to posts

Between the Stable and Buggy shed erect the Chaff store - by partitions as follows -

Fix in the ground as before specified 6. 8"x4" posts, each post to go up to roof - In the front hang with 18 T hinges a ledged door, fastened with 7" dead lock - thumb latch - put a 6x3 frame sill - framing to be 4x2
Iron worker -

Cover the roof with galvanized corrugated iron No 24 gauge of approved brand - laid with a horizontal lap of 6" and a flute and a half side lap, the side joints to be rivetted 18" apart with galvanized iron rivets and burrs, the iron to be screwed to the timbers every other flute with 2 1/4" galvaⁿ - iron screws

Cover the sides and front, also the ledged door - of the Chaff house from ground to roof - with similar iron, secured to the rails by 2 1/4" iron screws - put 4 galvaⁿ iron rivets in each side lap -

Fix to the eaves 4 O.G. galvaⁿ iron guttering secured with straps and nails working in slotted holes - every joint to be double rivetted with turned rivets and well soldered inside and out - provide and fix a stack of 3" galvaⁿ iron downpipe with proper clips shoe & complete and properly connect with the eaves gutter - the lowest length of 6 ft. to be of cast iron

Painter

Knot stop and paint, four coats the fascias. Eaves gutters & downpipe two coats with the best lead and oil color

Manure Shed

Floor. to be $3\frac{1}{4}$ cement in one coat (mixed in the proportion of $1\frac{1}{2}$ sand to 1 cement) resting on 4" good concrete, which has been well rammed

Carpenter

Fix along the entire length of the front of the shed a 6×3 red gum curb spiked to the posts, this curb is to retain the flooring, into it run the intermediate posts $1\frac{1}{2}$ " deep. (6×3) placed as shown on the drawings, the tops of posts to be secured to the fascia by strong spikes. Notch the posts at present in position also the intermediate for 3 rails each 3×2 . rails to be of deal. Turn for and hang to strong 18" T hinges the two flap shutters as shown. framing to be of $3 \times 1\frac{1}{2}$. secure inside with 6" bolt to each. Also hang the 2 ledged doors. framing 4×2 with 16 T hinges, fasten each with 7" dead lock & thumb latch

Put a scotia under the gutters

Ironworker

Fix to the Eaves 4" O.G. guttering, and 3" downpipe - bottom length Cast iron same as specified for stable

Cover the front including doors and flap shutters with 24" galv. corrug. iron, secured to rails and framing with $2\frac{1}{4}$ galv. iron screws & 4 rivets in each side cap

Paint Fascia 4 coats - gutters & downpipes 2 coats

Implement Shed

Laborer.

Excavate for the end walls and posts to the widths & depths shown, to be taken out plumb & square and clear of all loose earth &c.

Fill in the trenches to ground level with good concrete as before specified - and when sufficiently dry well ram the same.

Put in each post hole a large flat stone & when the posts are set in their proper position fill in the holes with concrete well rammed.

Mason.

Build the two end walls with stone similar to that specified for the Residence, walls to be well flushed up on both sides with good mortar - put 2 courses of 2" H.I. in each wall - 2 rows in each course.

Take off all the old coping from the walls, removing all loose substances & properly levelling the wall to receive the new masonry, tops of walls to be rounded and rendered in cement $\frac{3}{4}$ " thick, carried down to the iron on both sides.

The floor of this shed to be of limestone, metal, broken to a gauge of $1\frac{1}{2}$ - in a layer 9 (nine) inches thick, properly bladed with good gravel & well rolled or rammed.

Carpenter

The posts (5) to be 6" x 6" red gum or jarrah left from the saw fixed 2 ft in the ground & cut at top to receive fascias & rafters.

Rafters to be 7" x 3" deal, let into wall at one end fully 12" and fastened to post with 2 $\frac{1}{2}$ " screw bolts nuts & washer

Fascia to be 5" x 3" deal; fixed on the posts and fastened to same with $\frac{1}{2}$ " screw bolts nuts & washers, 2 to each post.

Put an $1\frac{1}{2}$ " hollow under gutter

Burlins to be 3" x 2" spaced about 3 feet apart nailed to rafters and to have angle blocks to each

Iron work

Cover the roof with galvan. corrug. iron No 24, gauge. horizontal lap 6", flute & a half side lap. side joints jointed every 18" - iron screws to burlins with $2\frac{1}{4}$ " galv. iron screws as before specified

Fix to the eaves 4 o.g. galv. iron guttering as before specified

provide and fix 2 stacks of 3" downpipes, lowest lengths cast iron, clips &c as before specified -

Painter

Knock stop and paint four coats the fascia, eaves gutters & downpipes two coats, with the best oil and lead color

The whole of the works mentioned in this Specification are to be carried out to the satisfaction of the Architect in Chief -

Contractors are particularly requested to state in their Tenders the time required for completion of all the works

Contractors are hereby notified that the first portion of this contract to be taken in hand will be the alterations to the out-buildings, which it is desirable to have completed in as short a period of time as possible.

Edward J. Woods

Architect-in-Chief

E. L. Randall
Witness

John Giff
Contractor
6th : 5th mo : 82

Witness
A. P. Middleton
6th : 5th mo : 82

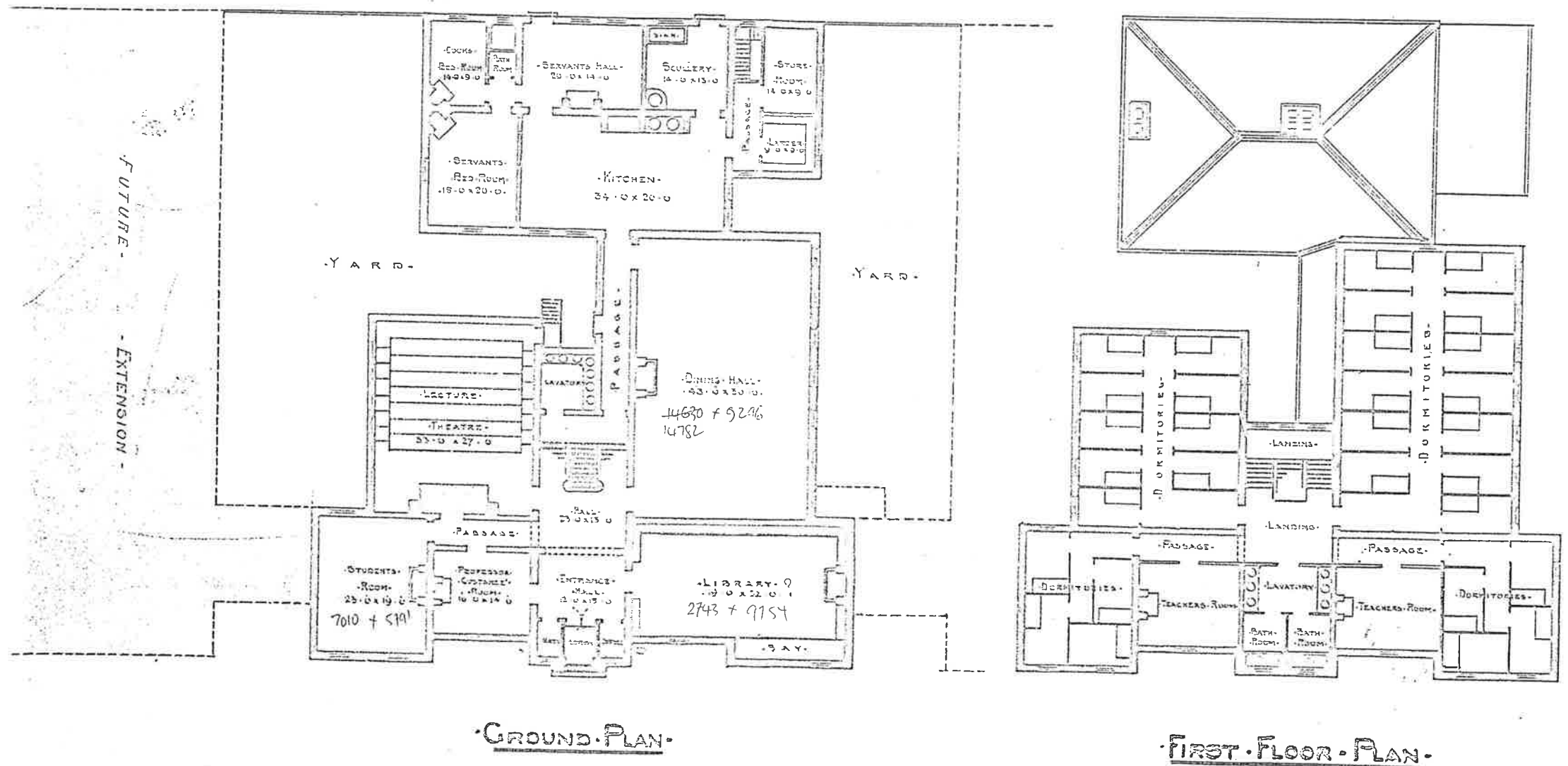
**Photographs of original drawings, 1883
Former Agricultural College Roseworthy:
Main Building
(State Records: Historic Drawings.)**

· SKETCH - PLAN - FOR · AGRICULTURAL · COLLEGE ·

H D
48.

· NEAR · ROSEWORTHY ·

22. W. II
32.



· GROUND PLAN ·

· FIRST FLOOR PLAN ·

· SCALE · 16 FEET TO AN INCH ·

AGRICULTURAL COLLEGE ROSEWORTHY.

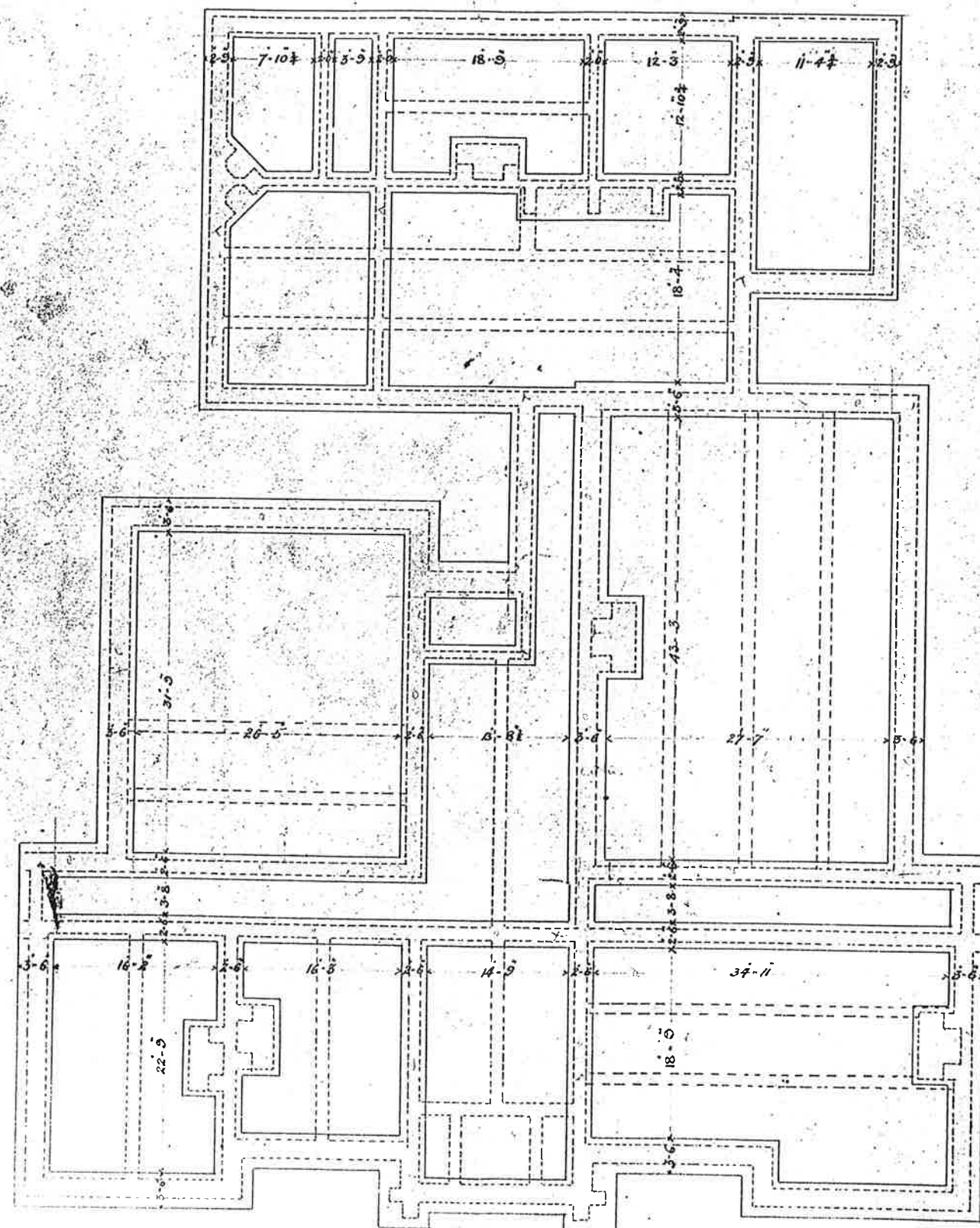
Scale Eight Feet to an Inch.

19.3.82

Nº 1.

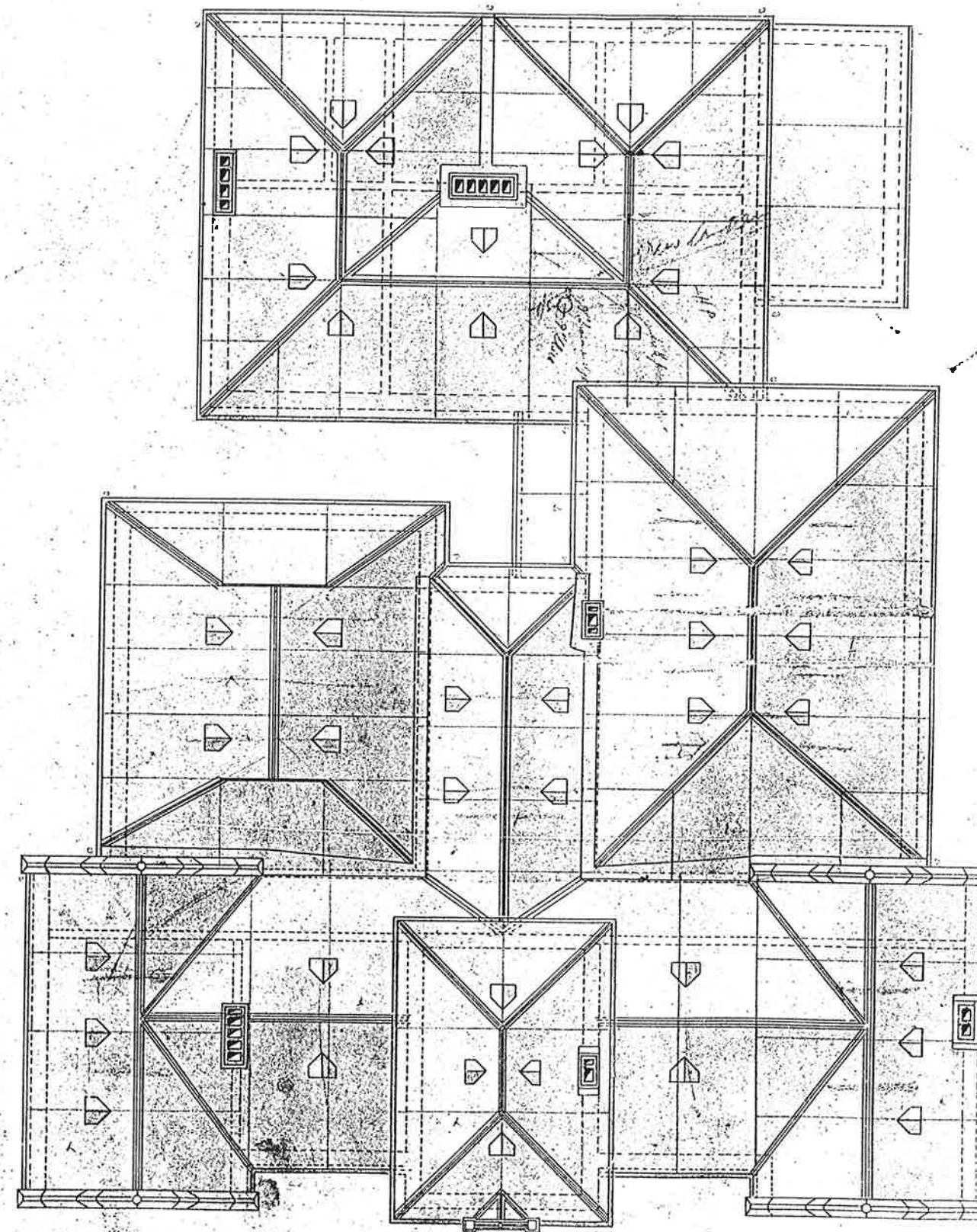
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Trench Plan.

Sumat



Roof Plan.

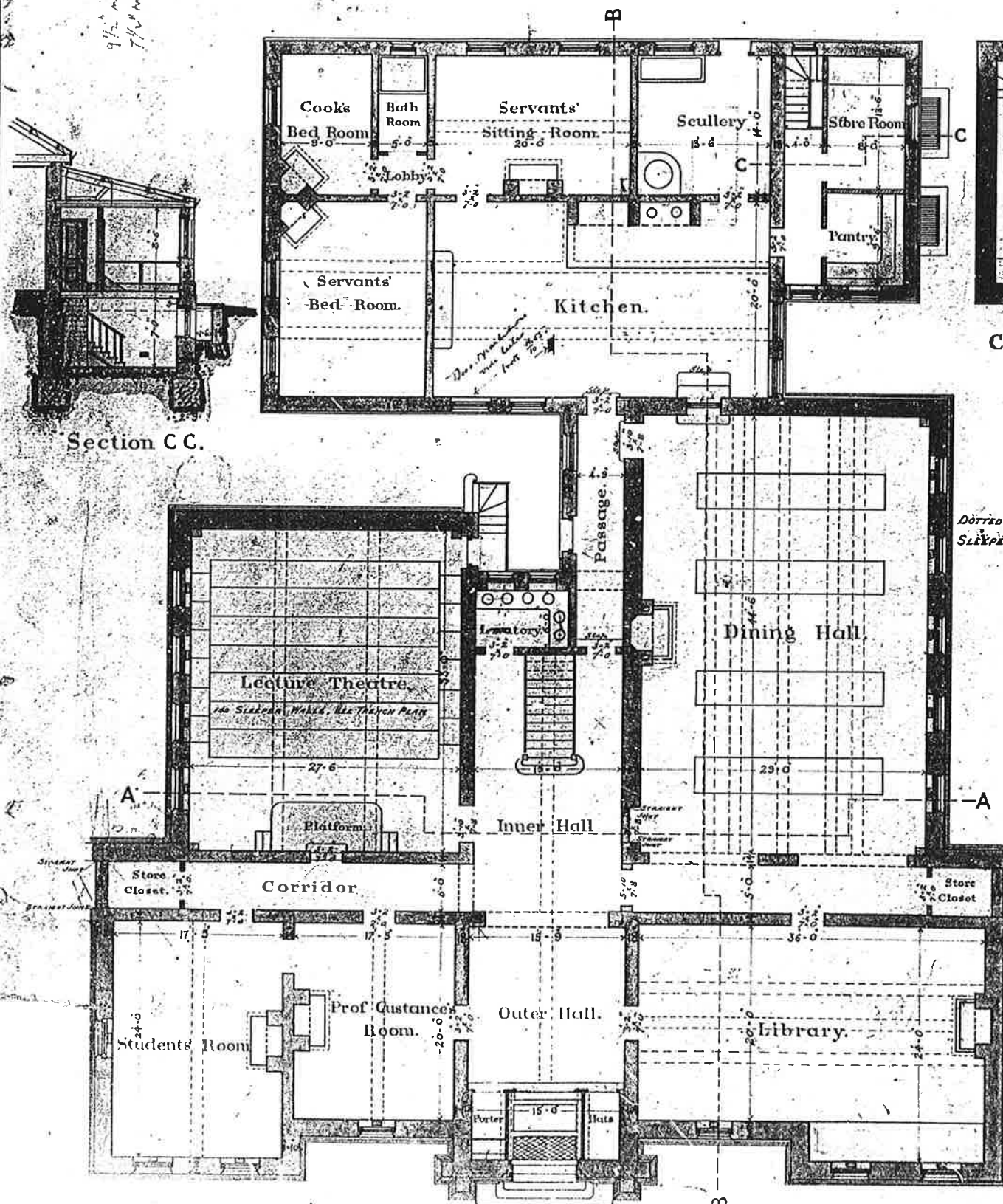
Witness J. M. Middlebow

AGRICULTURAL COLLEGE, ROSEWORTHY.

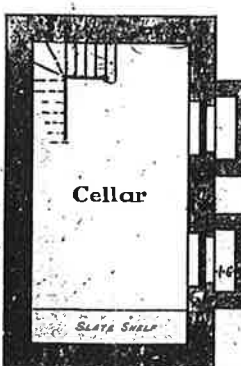
No 2

Scale Eight Feet to an Inch.

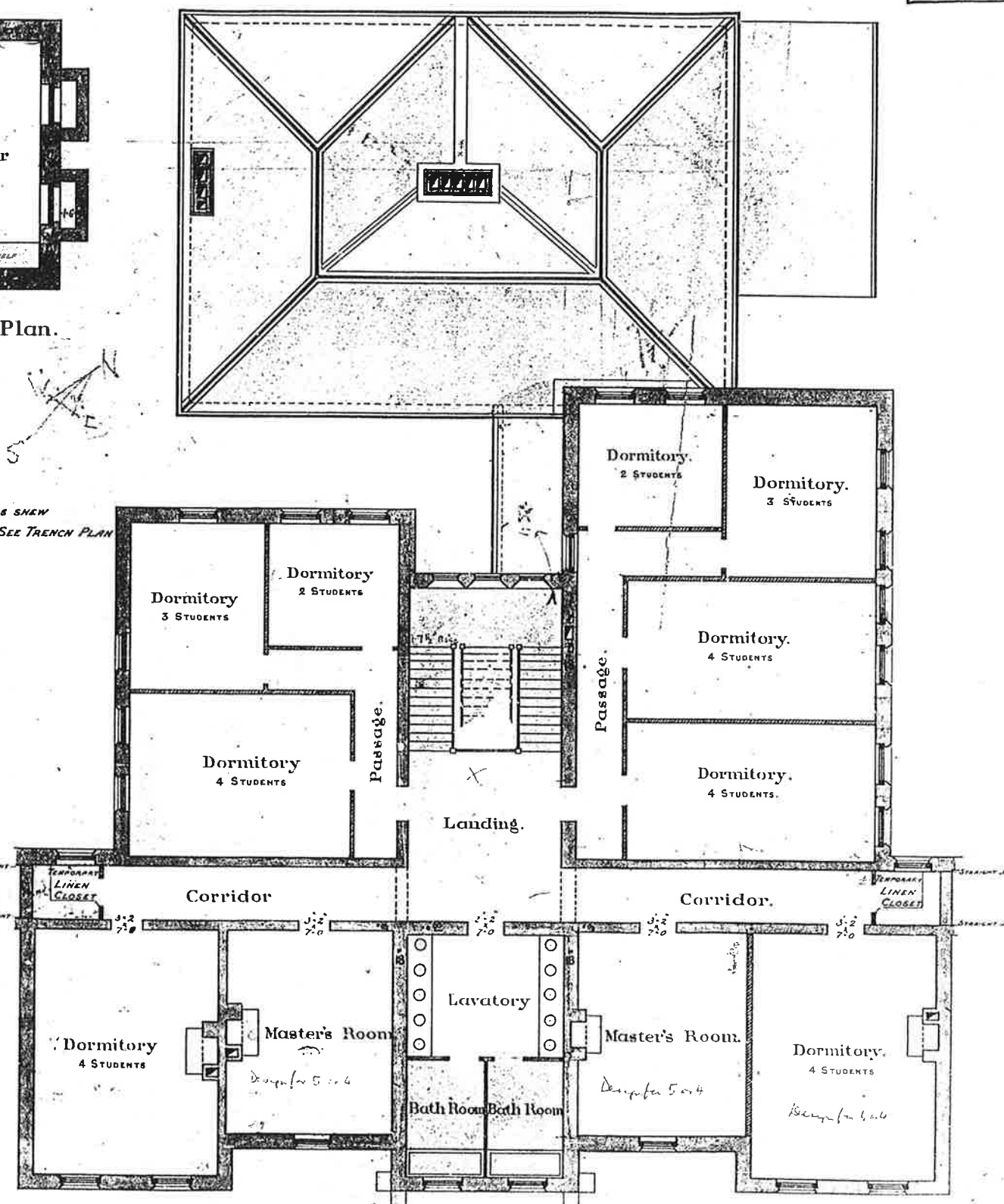
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Ground Floor Plan.



Cellar Plan.

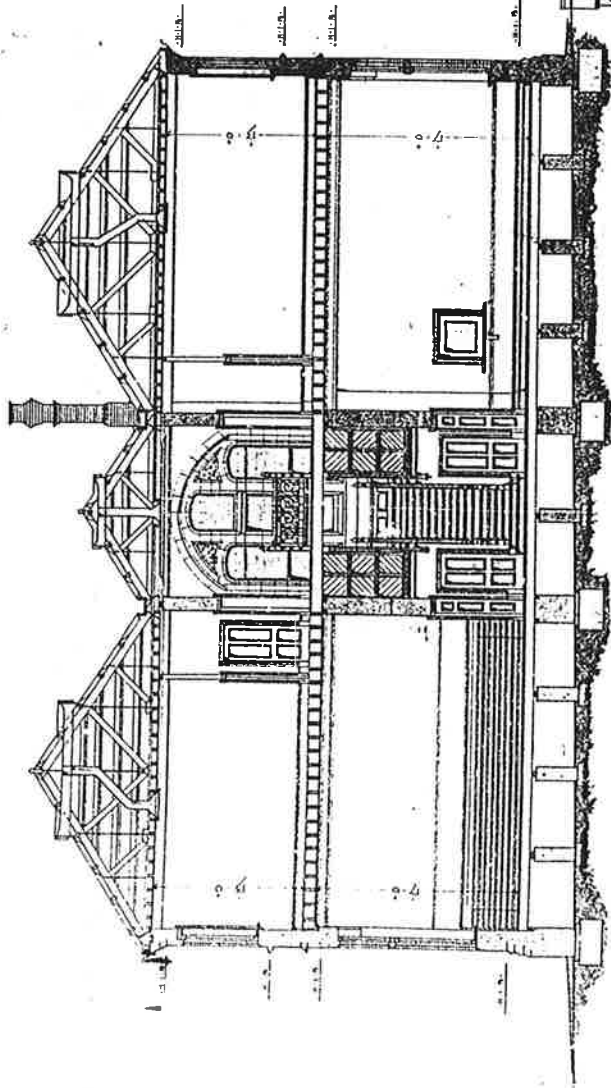


First Floor Plan.

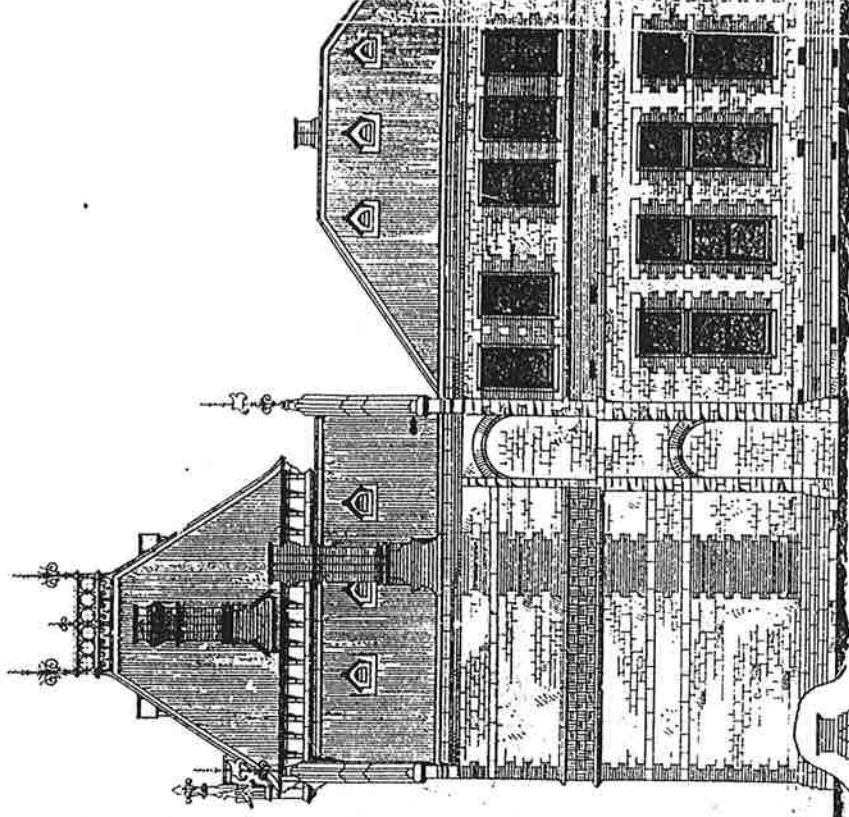
AGRICULTURAL COLLEGE ROSEWORTH

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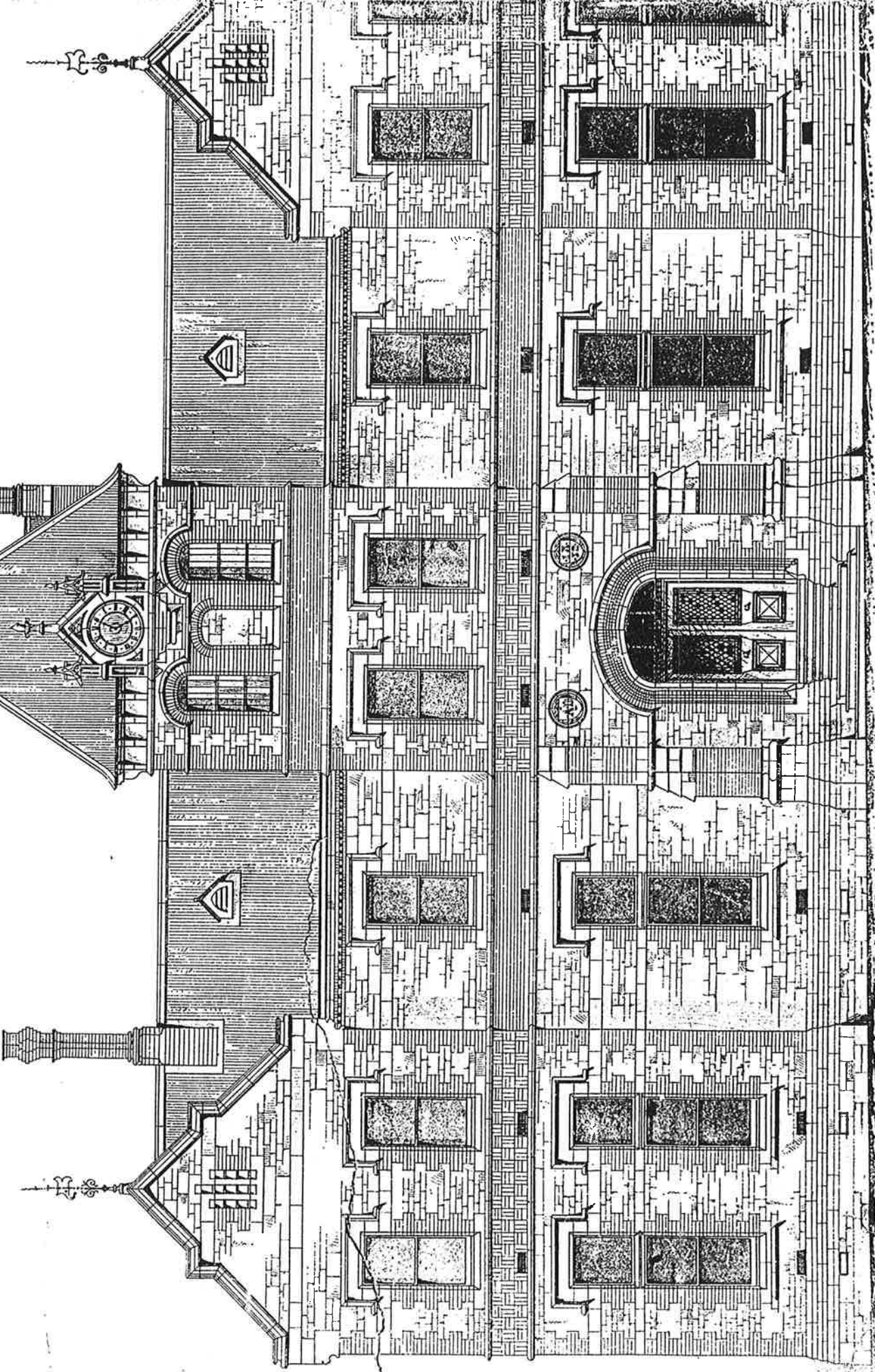
SCALE 8 FEET TO 1 INCH



Section A-A



Side Elevation



Front Elevation

SCALE 4 FEET TO 1 INCH

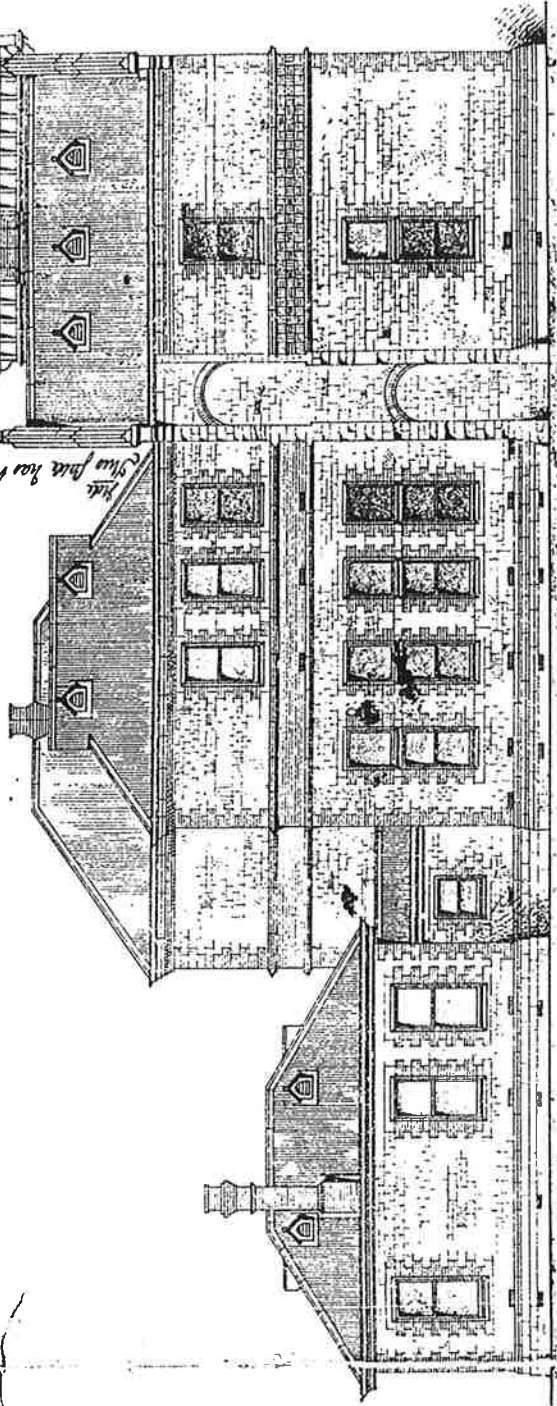
Witness of Muddelson

12. 1 1/2 83

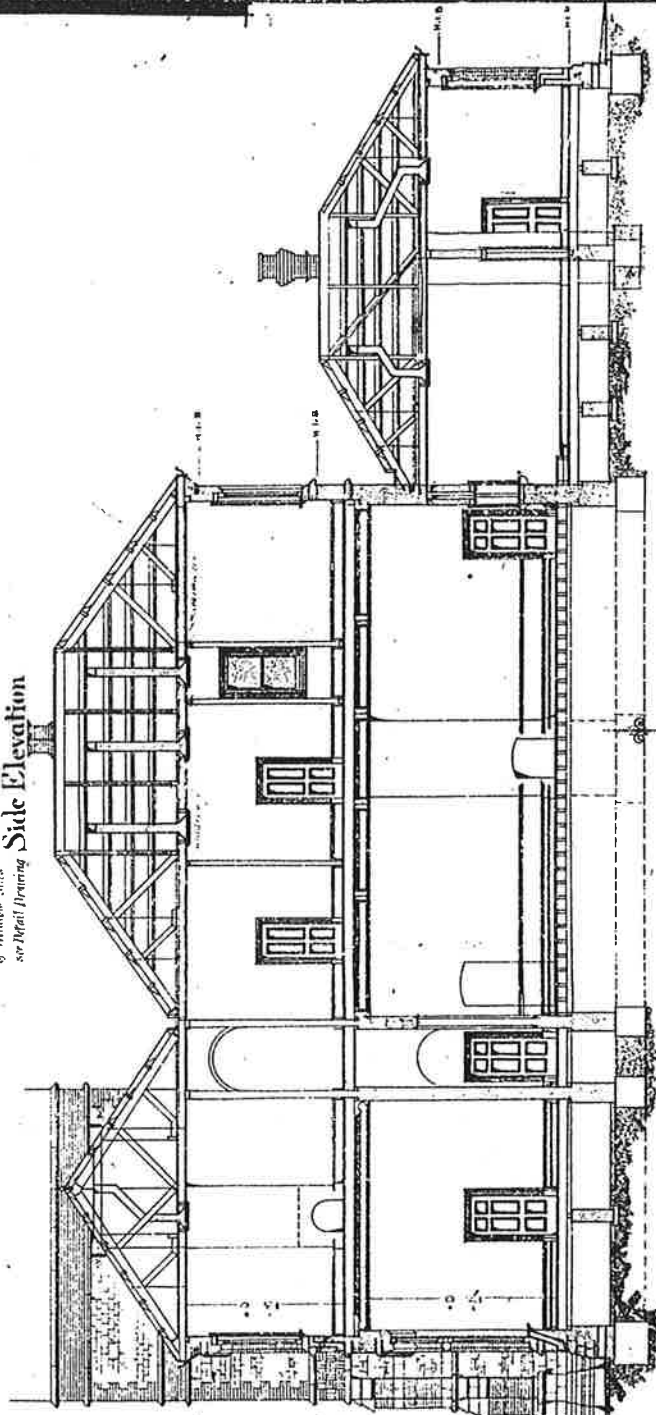
No 5

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*This part has been omitted in
drawing.*

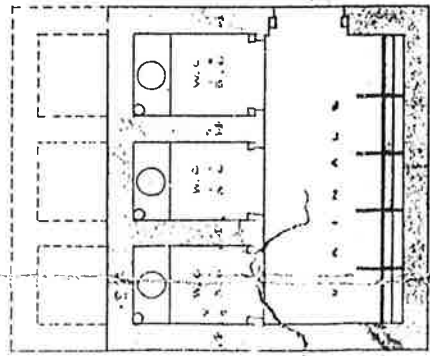


Side Elevation
*Note: For proper height
of Window Sills
see Detail Drawing*

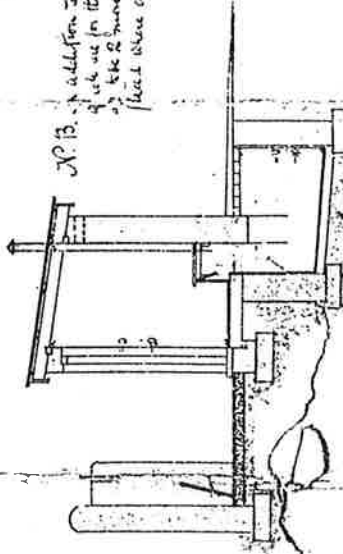


Section B.B.

*N.B. In addition to those shown
of use in the Standard Plan
the 2 more for the servants
bed were omitted.*



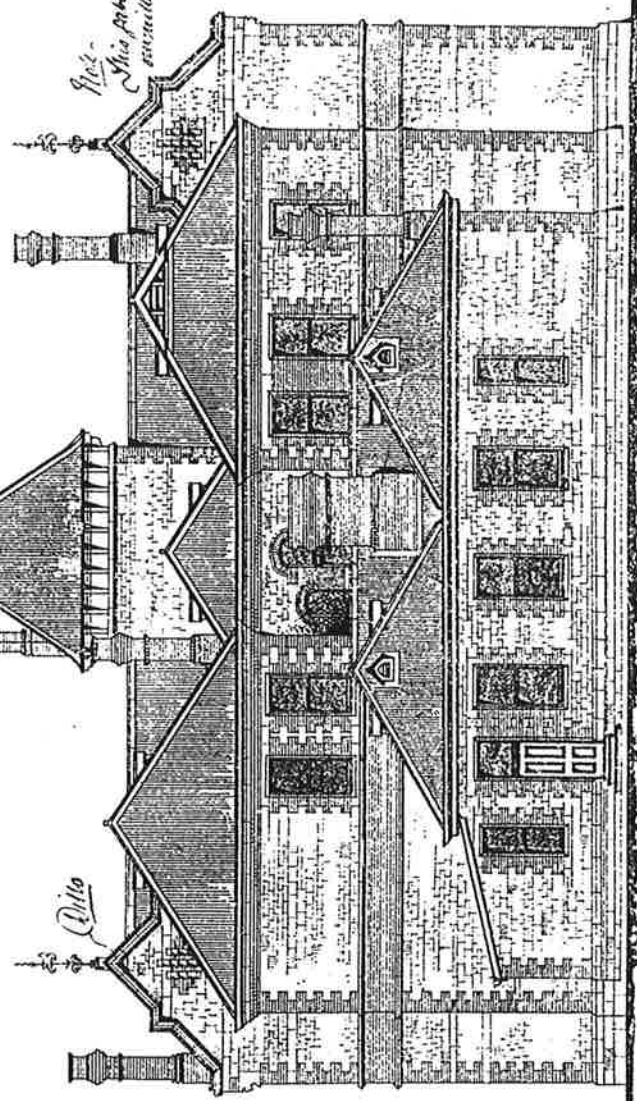
Plan.



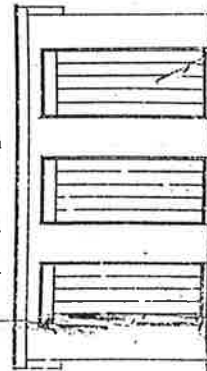
Section C.D.

Chimney

*Note: This part has been
omitted in drawing*



Back Elevation



Elevation.

AGRICULTURAL COLLEGE ROSEWORTHY.

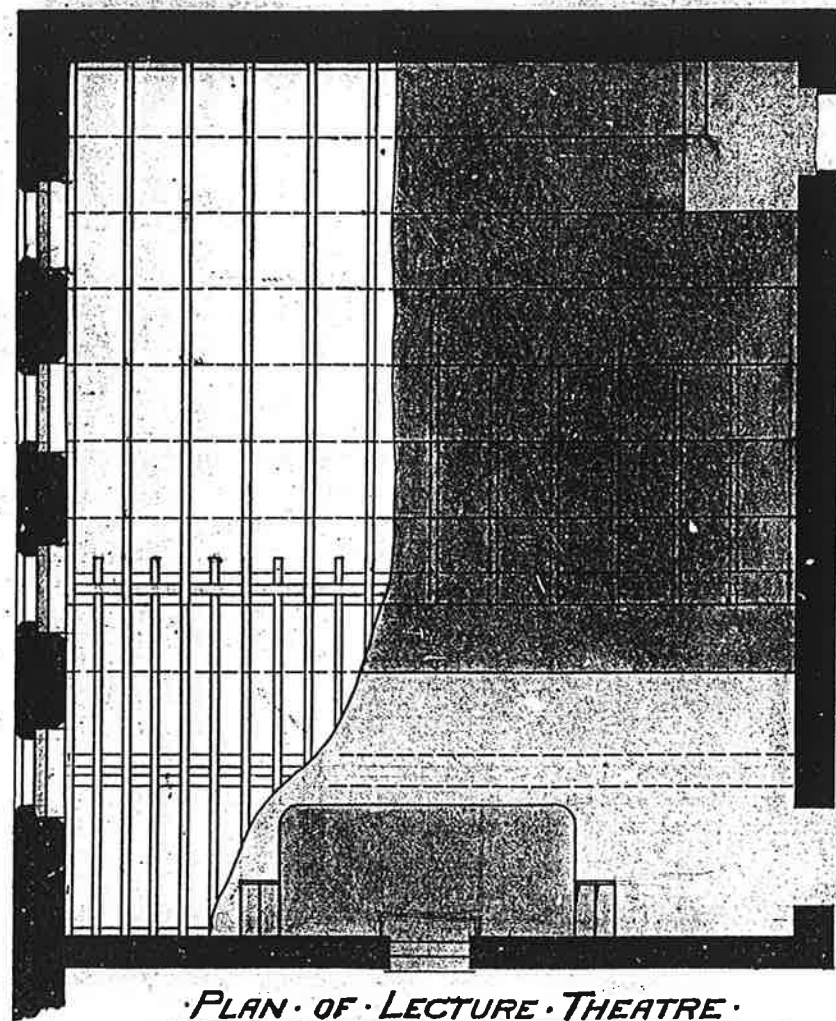
Details of Tower &c.

$\frac{1}{4}$ Scale.

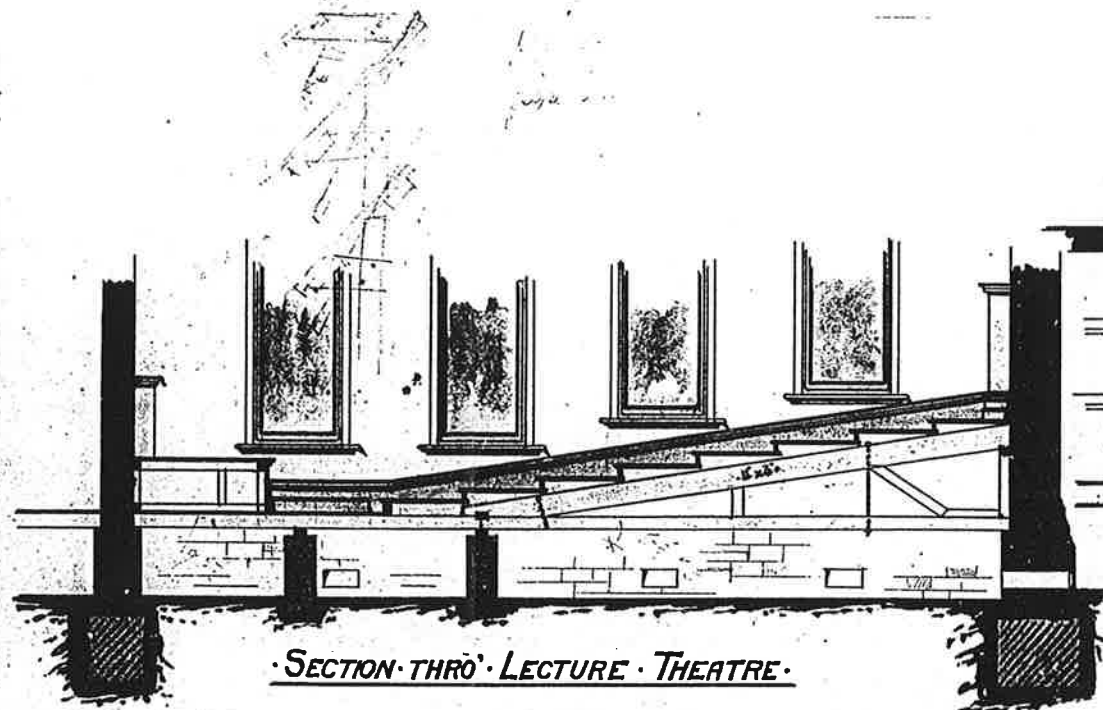
N^o 4

HD

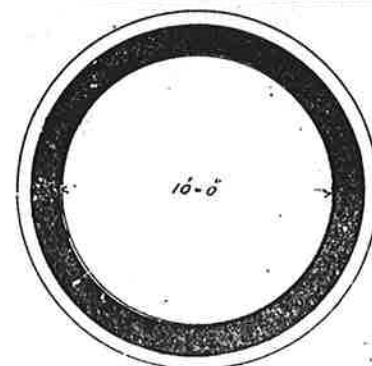
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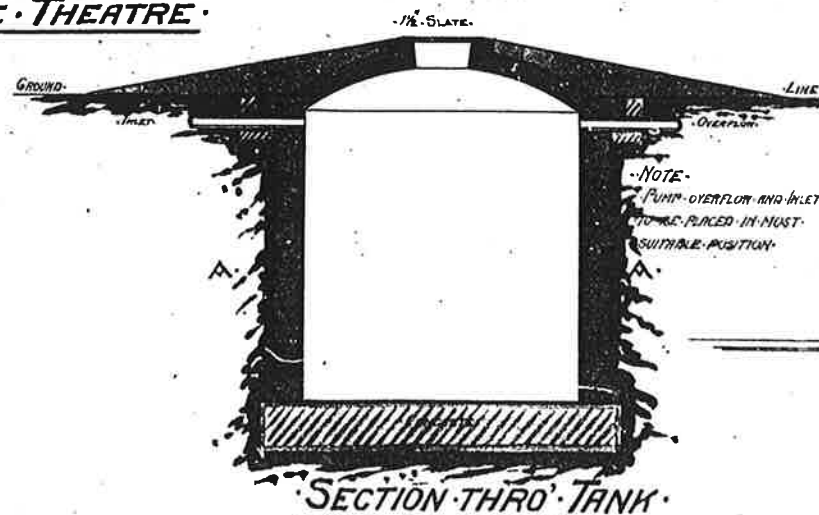
PLAN OF LECTURE THEATRE.



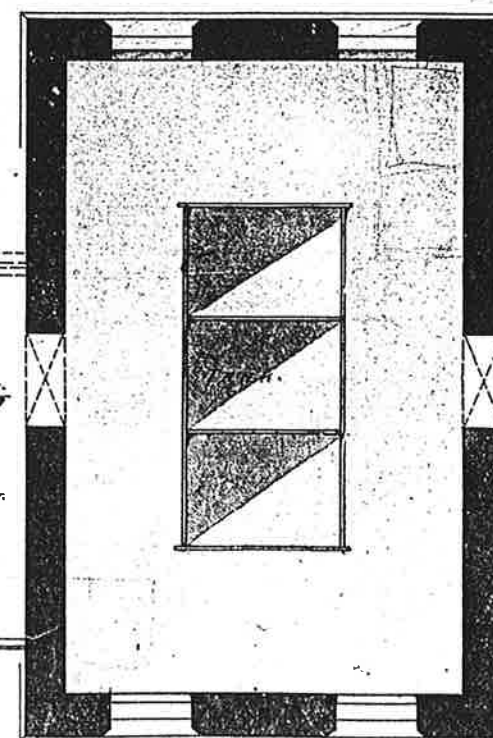
SECTION THRO' LECTURE THEATRE.



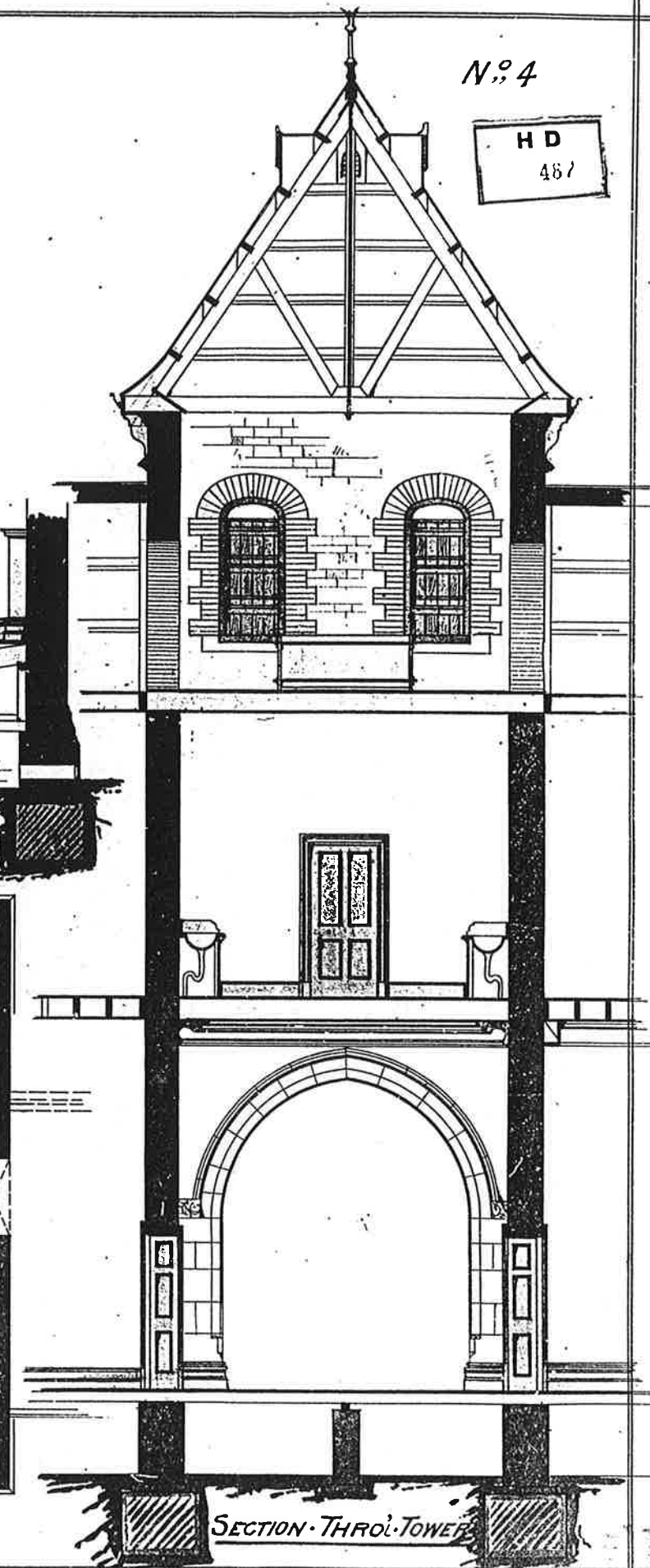
PLAN OF TANK.



SECTION THRO' TANK.



PLAN OF UPPER STAGE
OF TOWER.



SECTION THRO' TOWER.

Witness H. J. Middleton

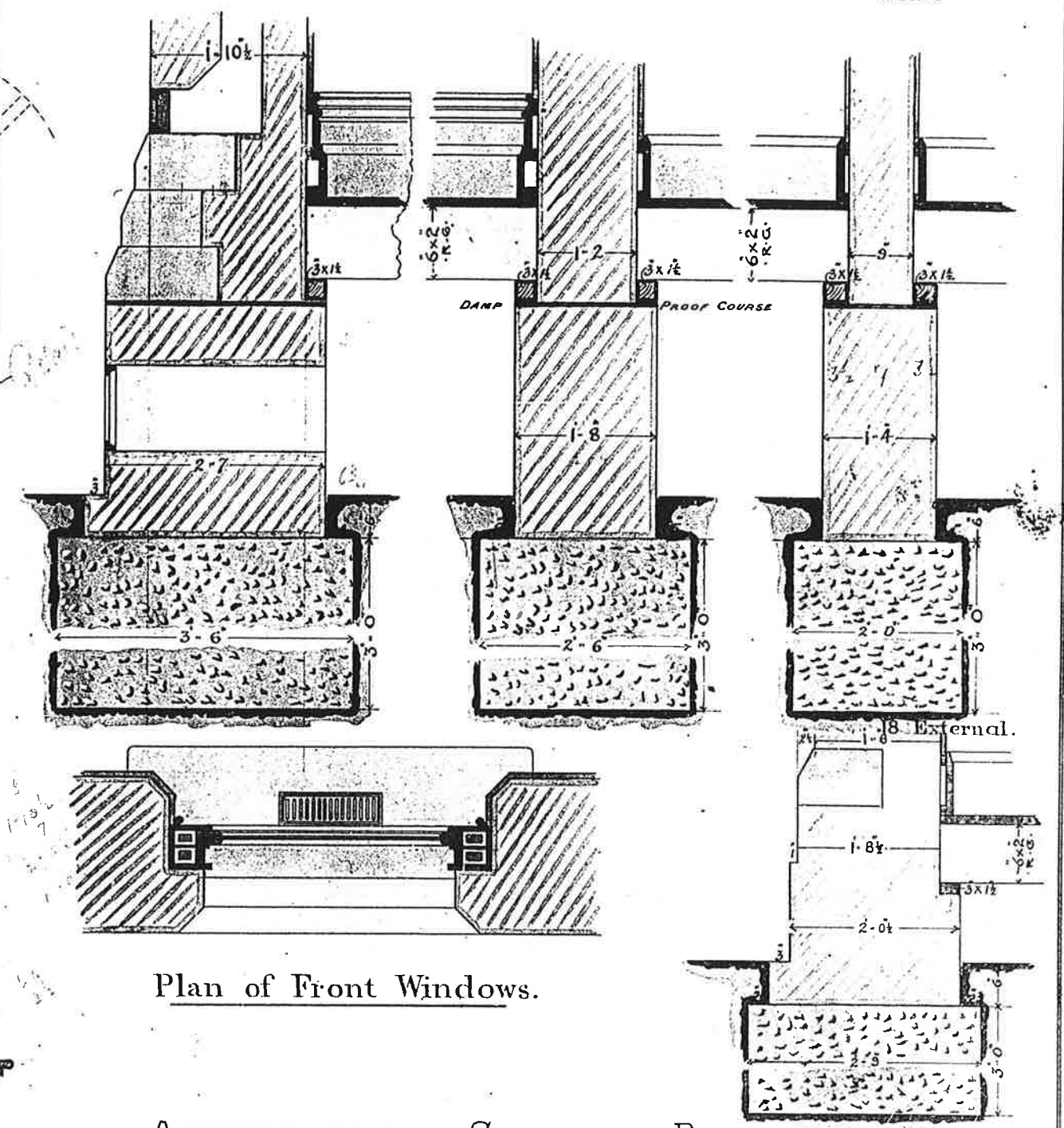
12 - 6 - 83

Sections of Footings to Walls.

1-10½ External

14 Internal

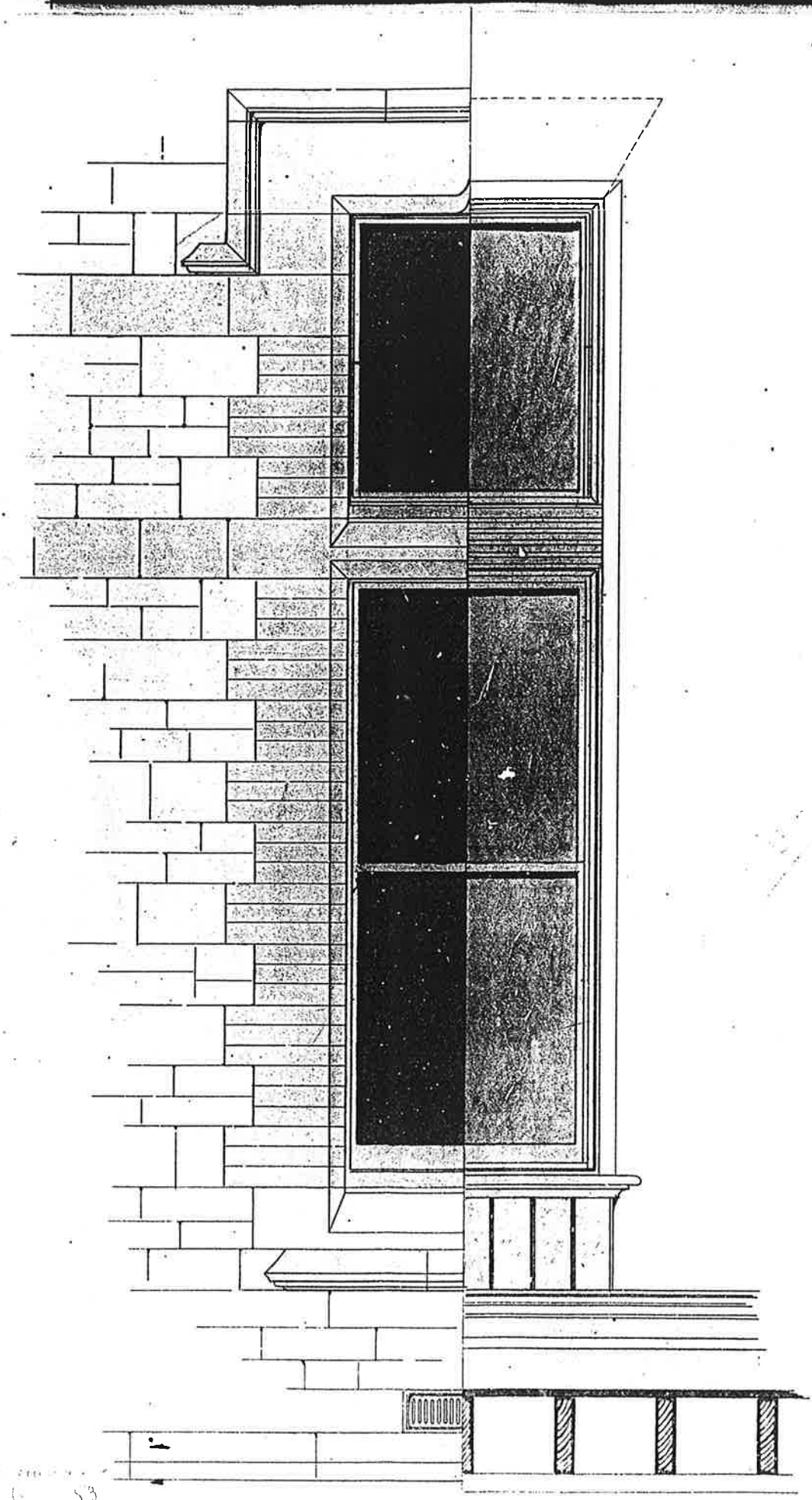
9 Internal



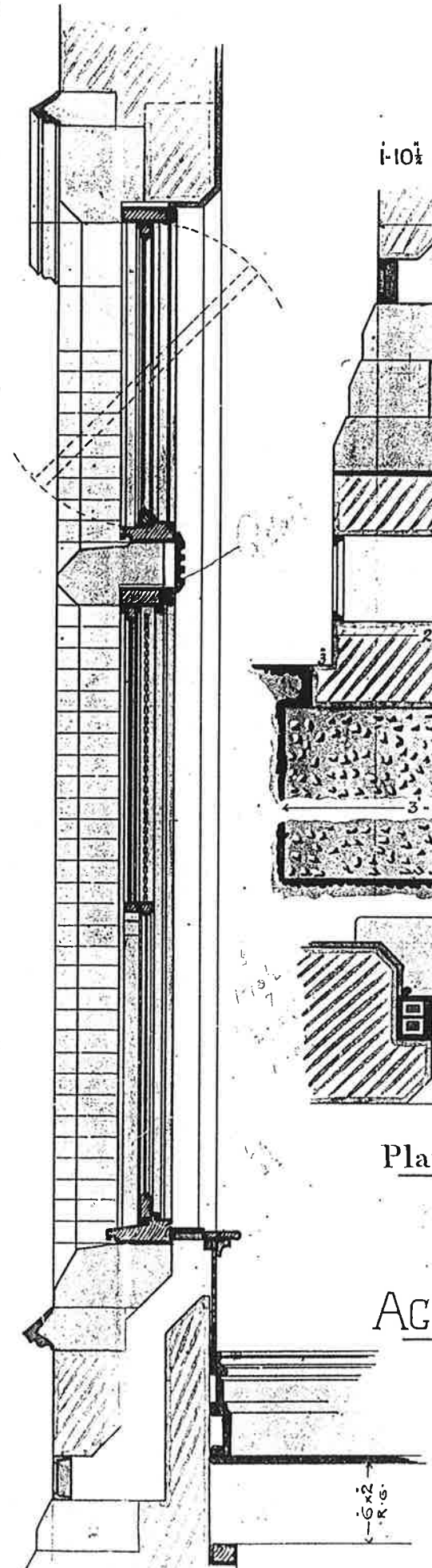
Plan of Front Windows.

AGRICULTURAL COLLEGE, ROSEWORTHY.

Details, Inch Scale.



Half Outside. Half Inside.
Elevation of Front Windows.



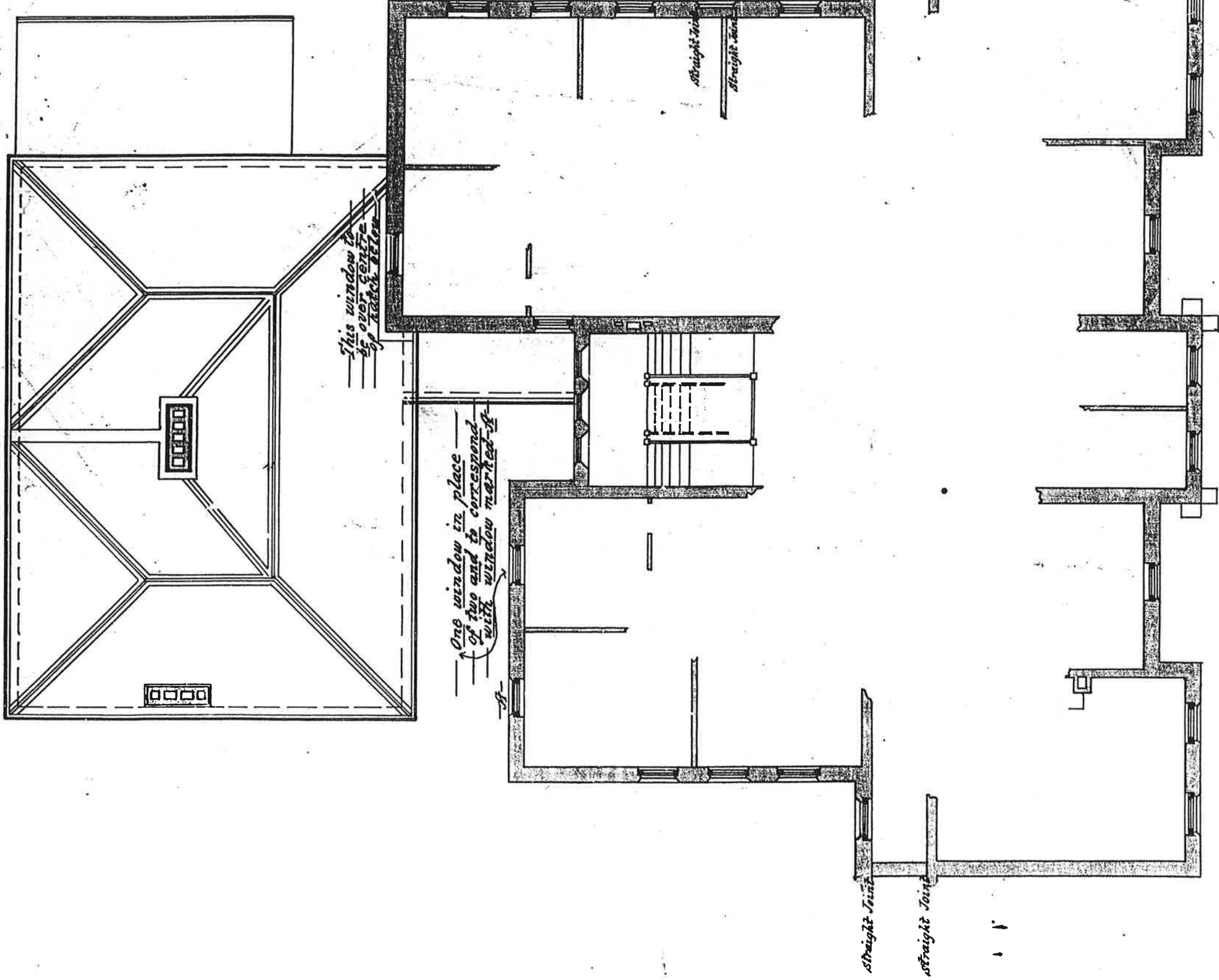
Section.

First Floor Plan — ~~Agarwal~~ Natural College Roseworthy

— showing correct position of windows —



11.12.83
23/3



K 026

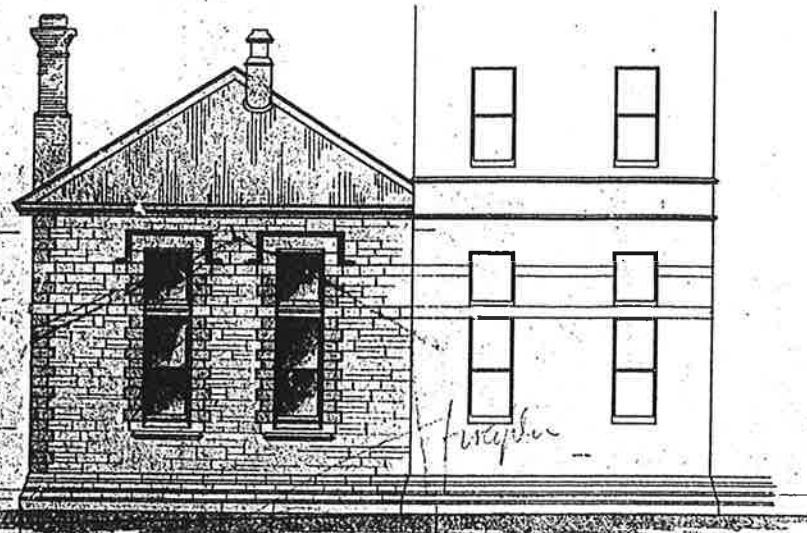
Roseworthy

Agricultural College Laboratory

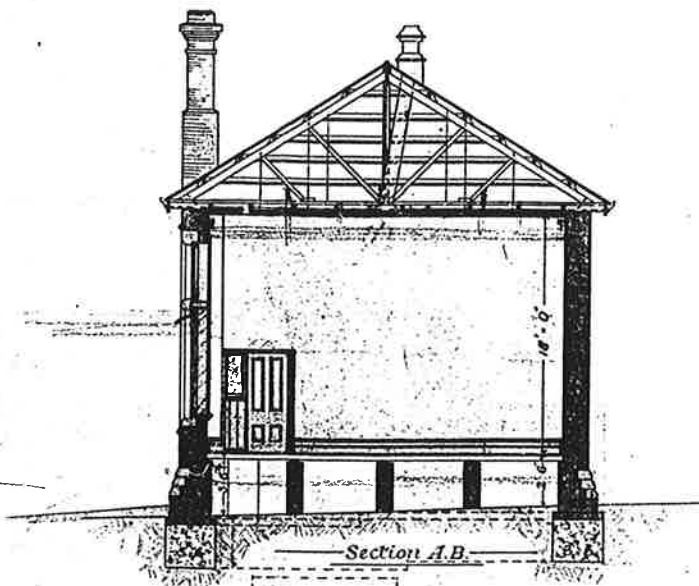
Scale 8 Feet to an Inch

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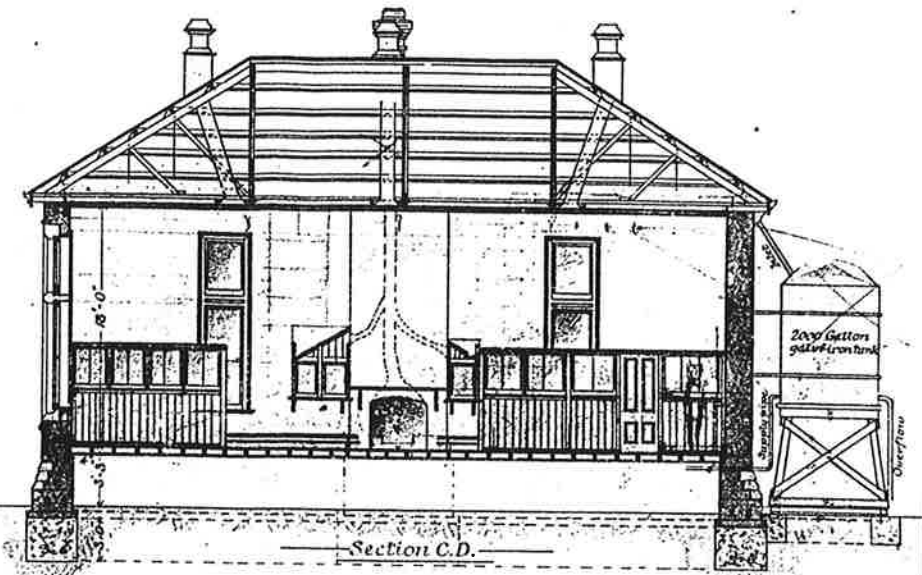
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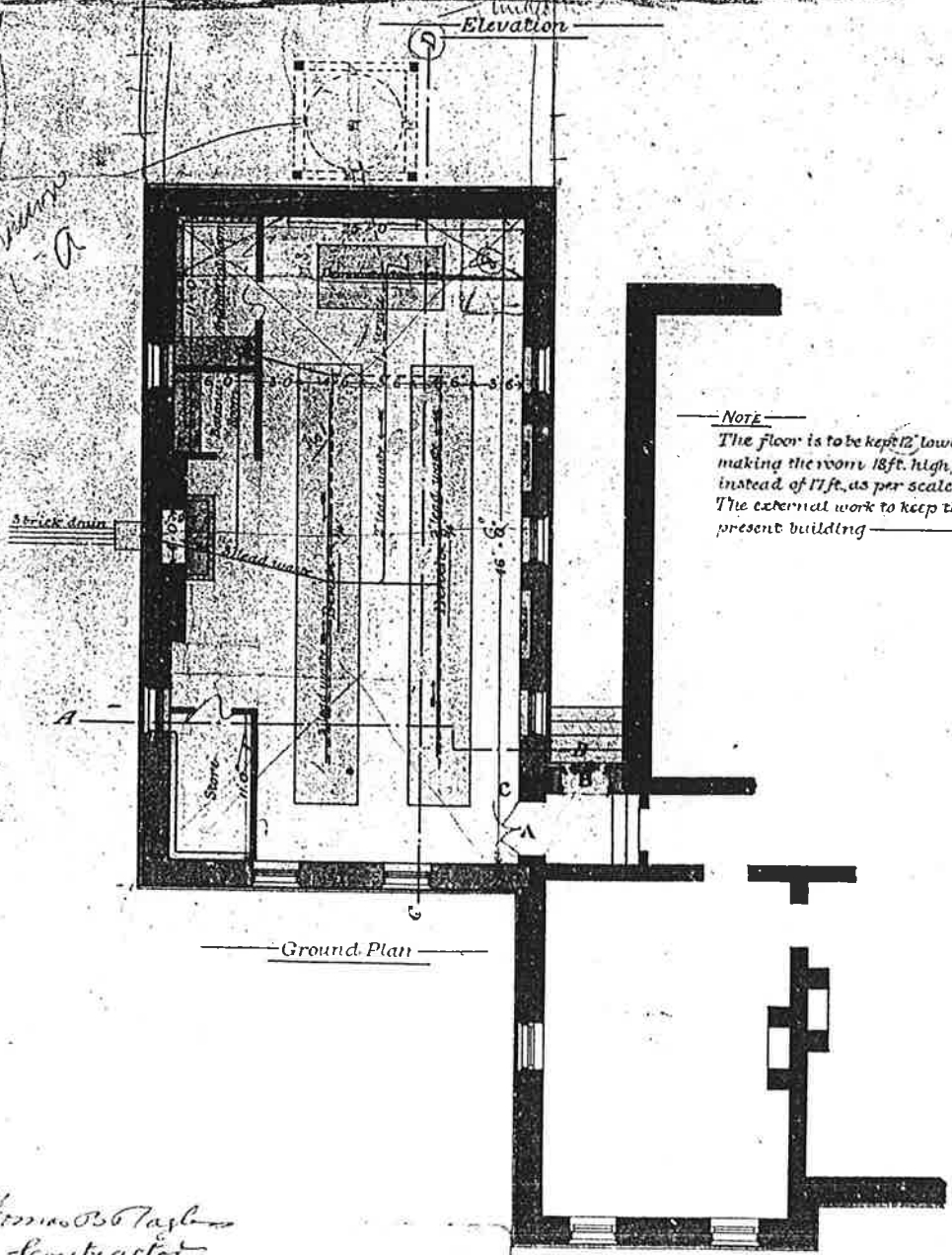
Elevation



Section A.B.



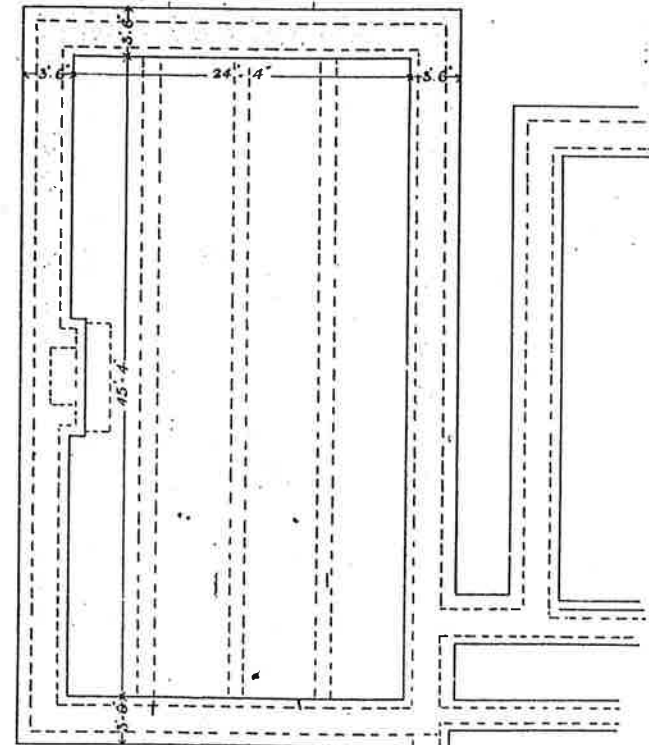
Section C.D.



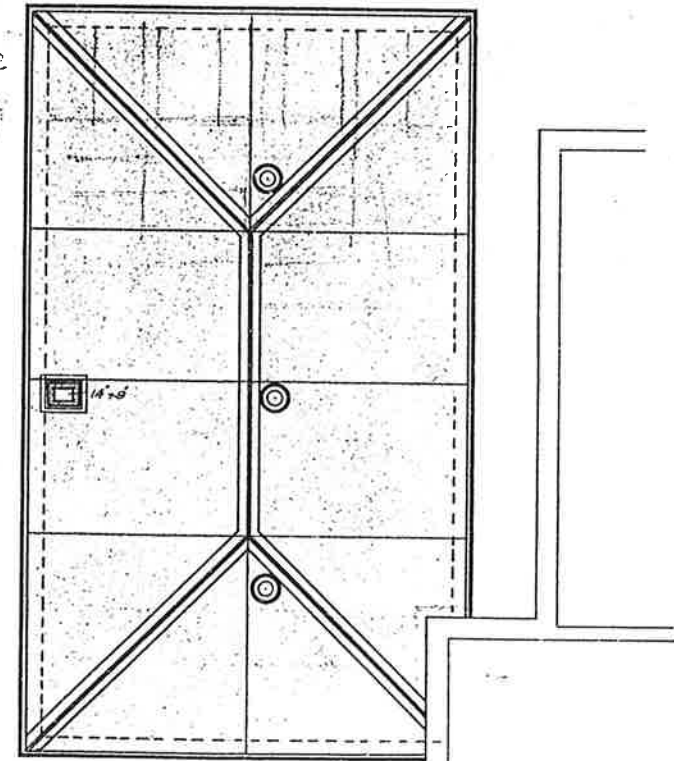
Ground Plan

NOTE

The floor is to be kept 12' lower than shown, making the room 18ft. high, as figured, instead of 17ft. as per scale. The external work to keep the lines of present building



Foundation Plan



Roof Plan

Ch. W. Smith
Architect

Thomas B. Taylor
Contractor
25th 8th mo. 91

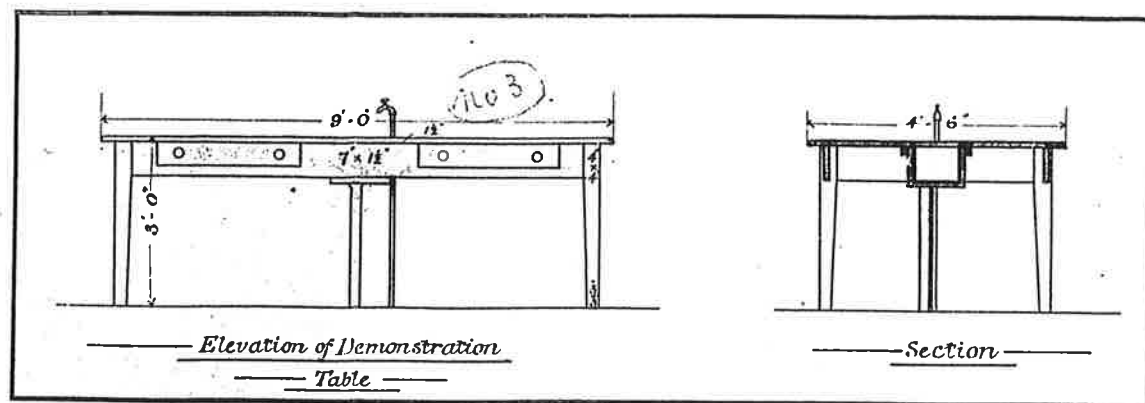
Wm. Middleton
Chief Clerk

Roseworthy

Agricultural College, Laboratory Fittings.

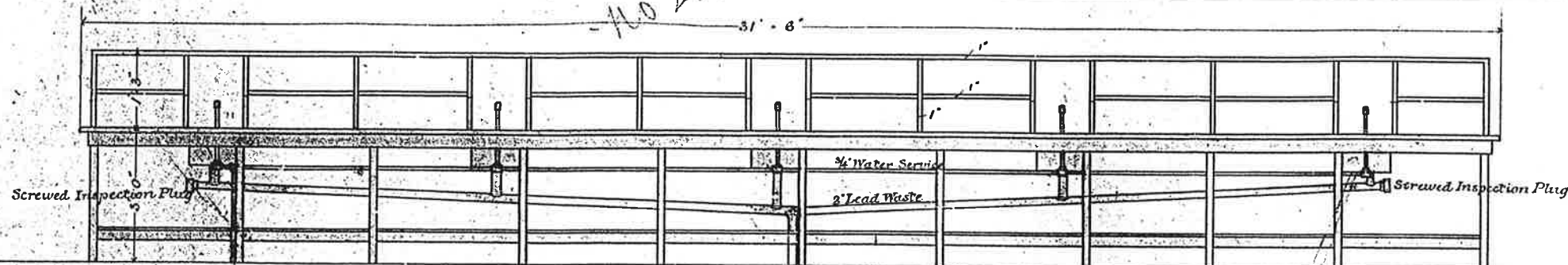
Scale 2 Feet to an Inch

24 7 91

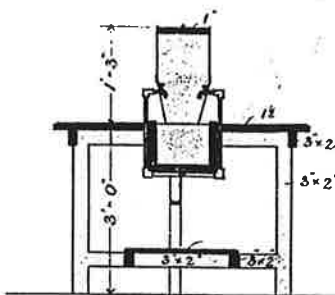


Elevation of Demonstration Table

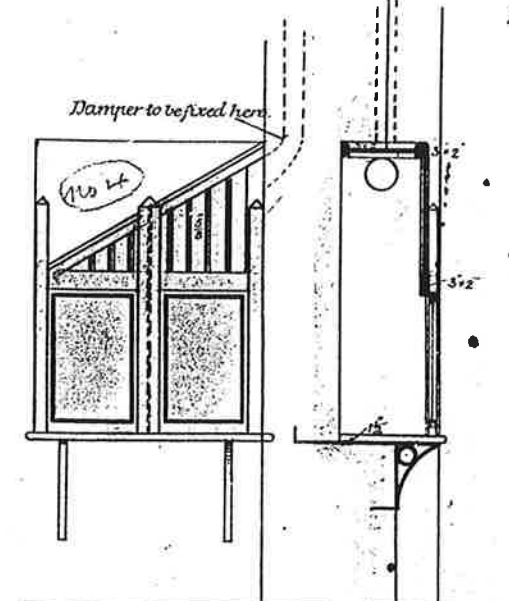
Section



Elevation of Bench without Cupboards

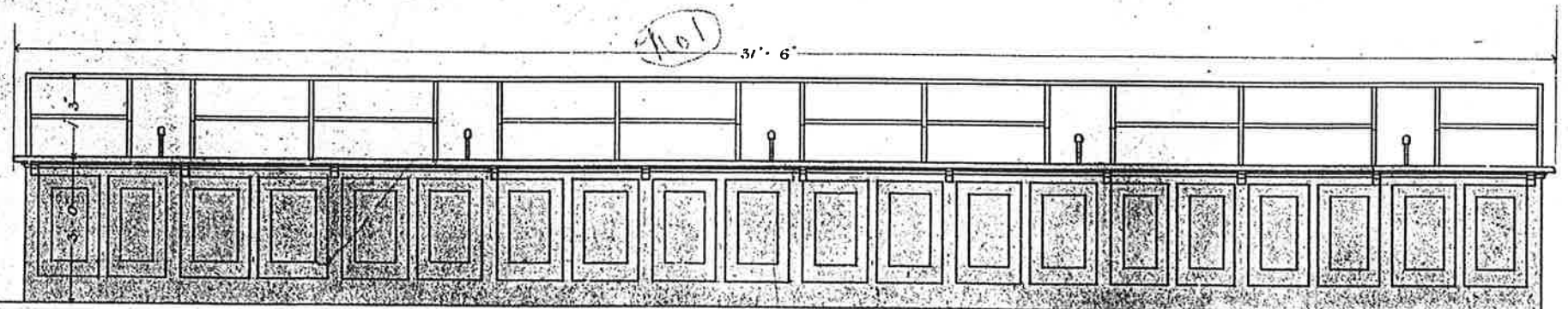


Section

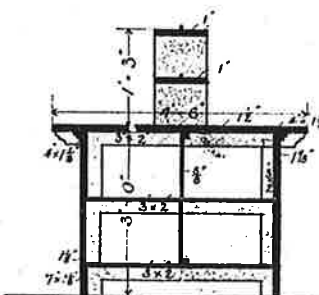


Elevation of Sink Cupboard

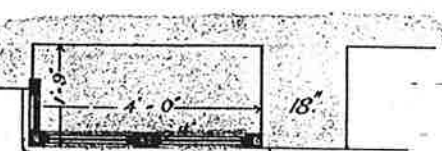
Section



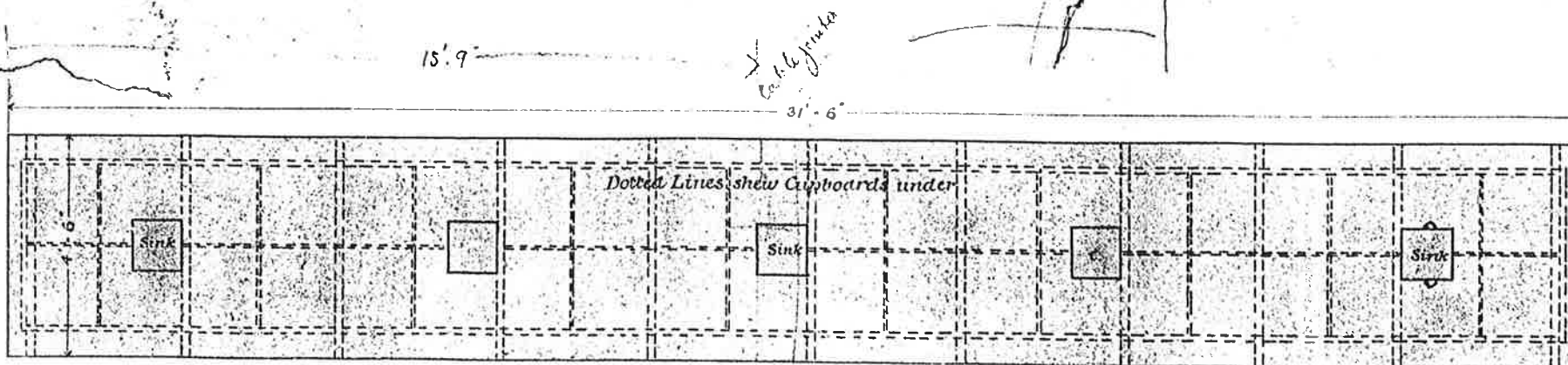
Elevation of Bench with Cupboards



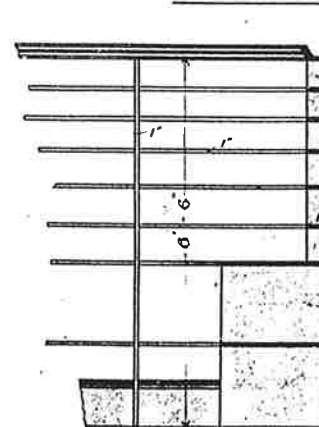
Section



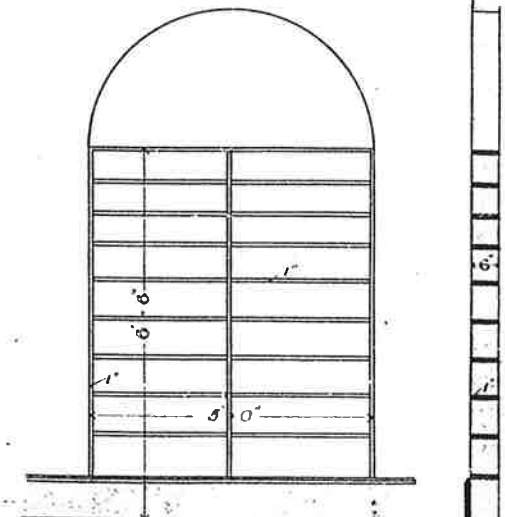
Plan of Sink Cupboard



Plan of Benches



Part Elevation of Shelving



Elevation of Shelving in Recesses

Section

Contractor

Witness H.B. Middleton
Clay Clerk

Contractors
15th Nov 1902

Witness H.B. Middleton
Clay Clerk

Superintendent of Public Buildings

Agricultural College

H D

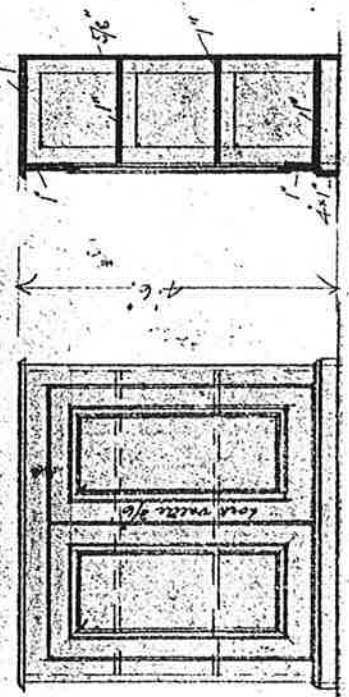
492

Roseworthy

Furniture Sitting Room

Half Inch Scale

To be made in approved American style
whole to be sized and painted two coats of
best Morden Veneer copal varnish
To be delivered at ~~the~~ Railway Station

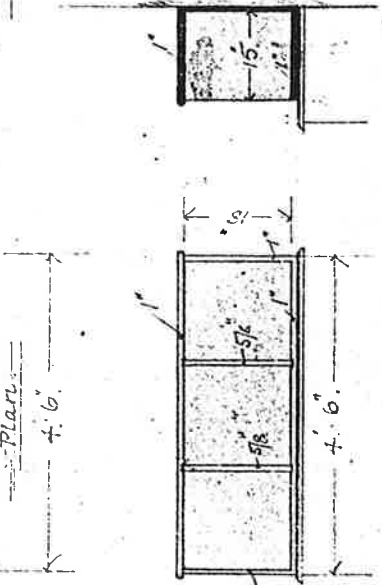


Section

Elevation

Cupboards

Two required

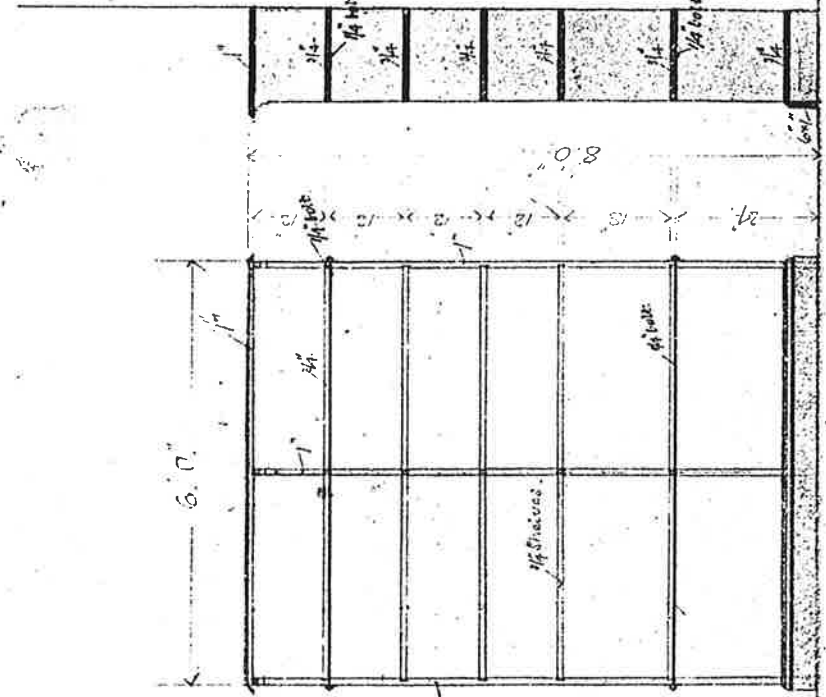


Section

Elevation

Pigeonholes

Two Required



Section

Elevation

Bookshelves

W. P. Richardson

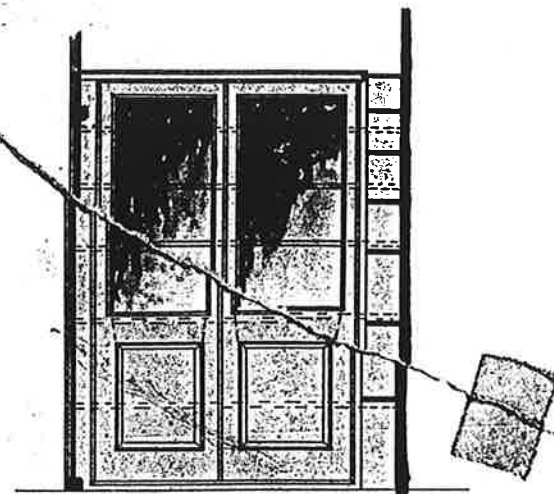
Contractor

17th 9^{mo} 92

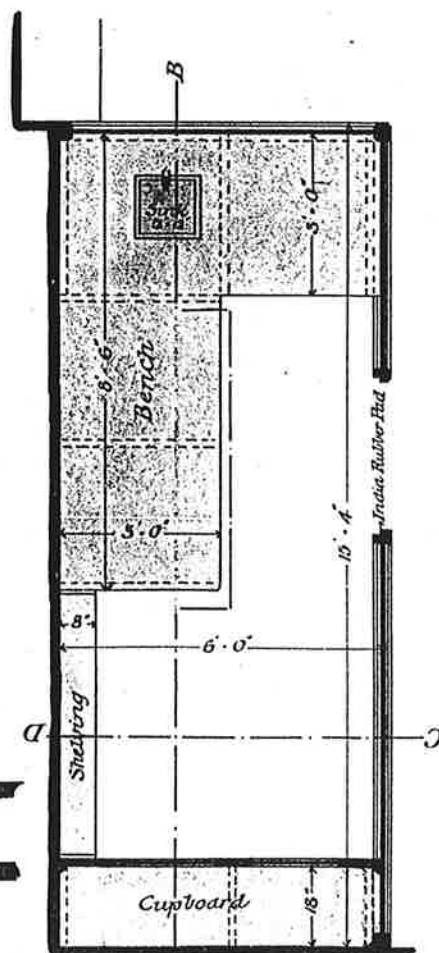
Wm. H. Middleton

Chief Clerk

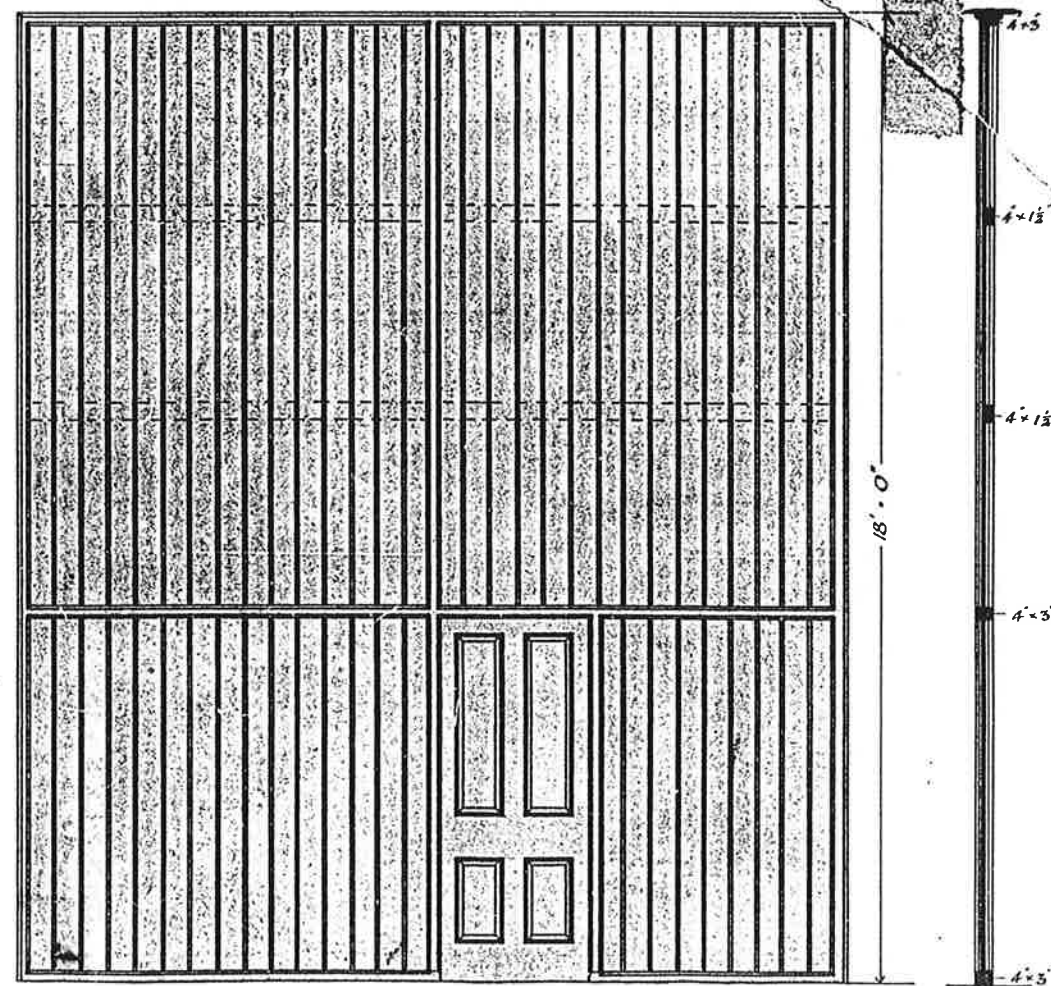
W. C. R.
SECRETARY OF THE
INDEPENDENT CO.
CHICAGO, ILL.
AUG. 1910.



-Section C.D.



—Plan



-Section

Section
C. M. S. L. M. Y. T.
SUPERINTENDENT OF PORTS & ELL.

क्र ०-७६

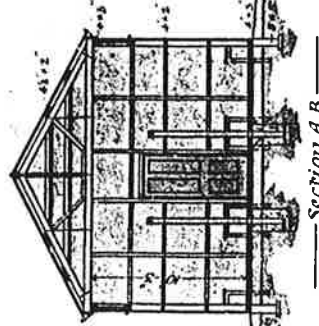
Roseworthy Agricultural College

Change Room, Bath, Dormitories etc.

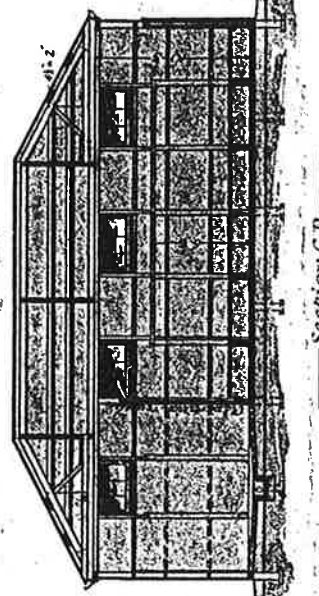
Scale 8 Feet to an Inch

20 34-7-36

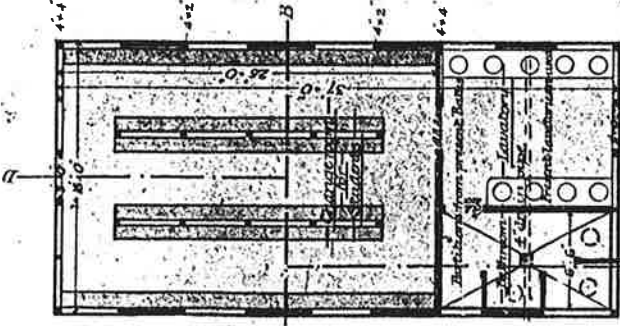
H D
434



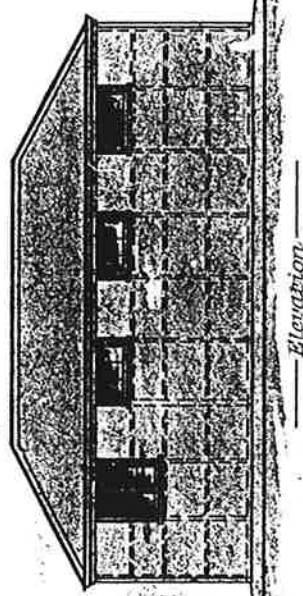
Section A.B.



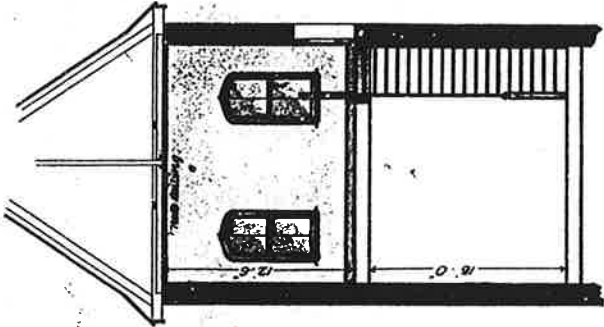
Section C.D.



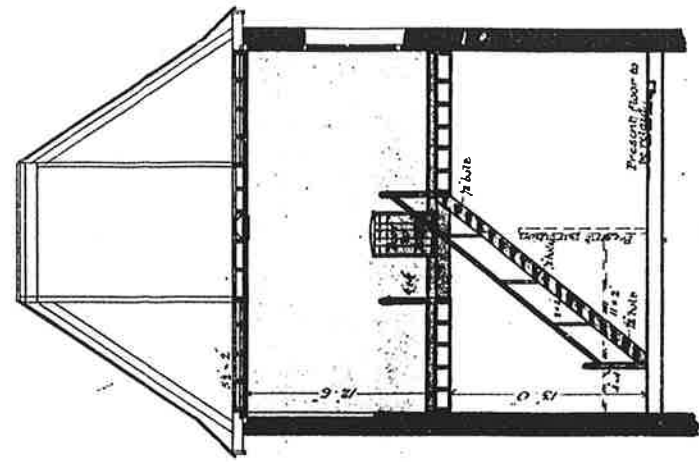
Ground Plan of Change Room



Elevation



Section A.B.



Section C.D.

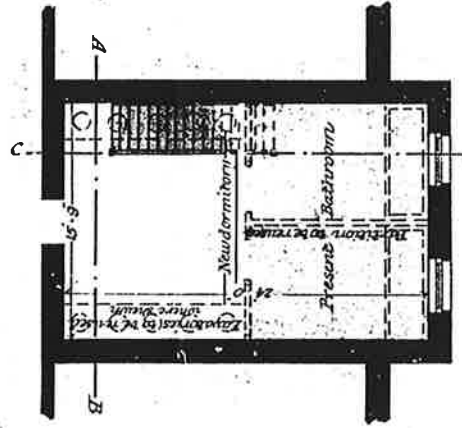
Underground Tank

Cold Water Tank on Stand

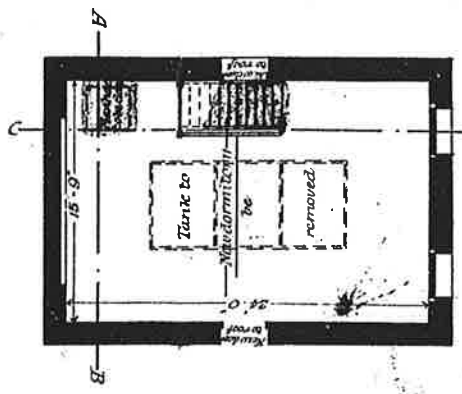
Single for 1000 Gallons per Hour

Laboratory

Back Entrance to main Building



First Floor Plan



Second Floor Plan

J. J. Pickers
Contractor

Witness

21st : 8th : 96

H. H. Macalister
Chief Clerk

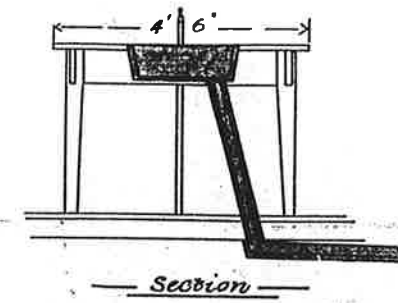
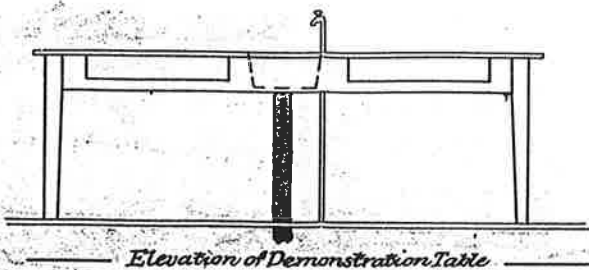
Ormond
SUPERINTENDENT OF BUILDINGS

K.P.

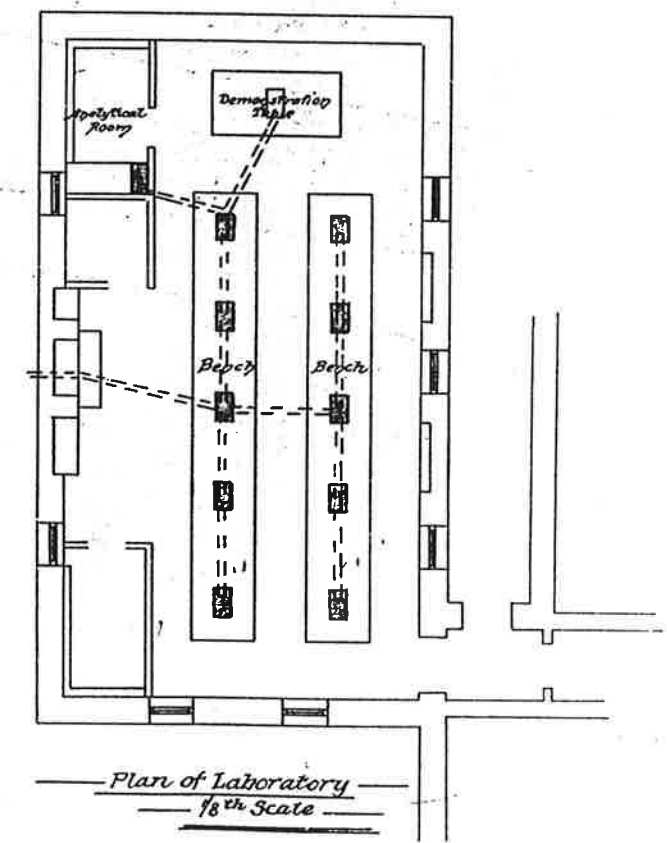
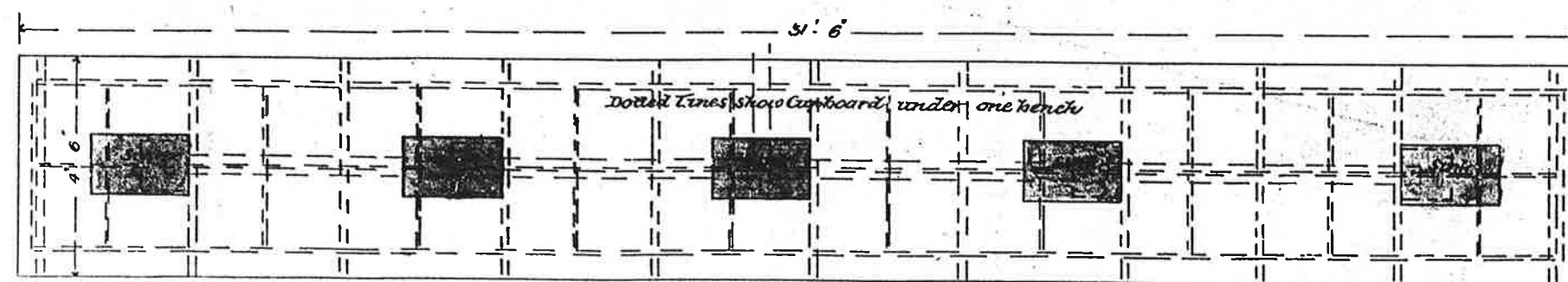
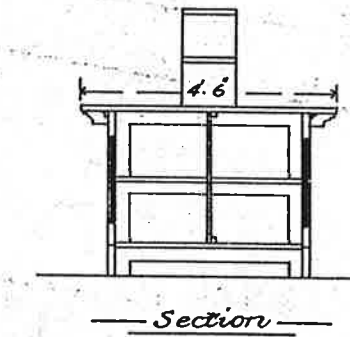
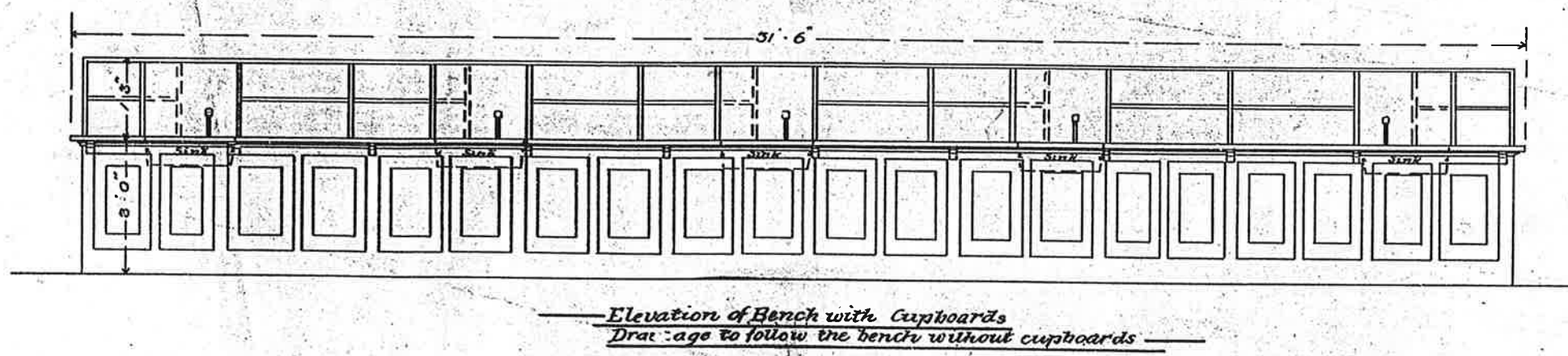
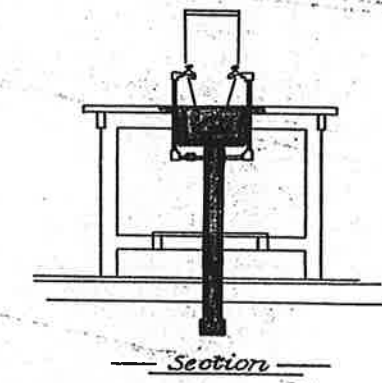
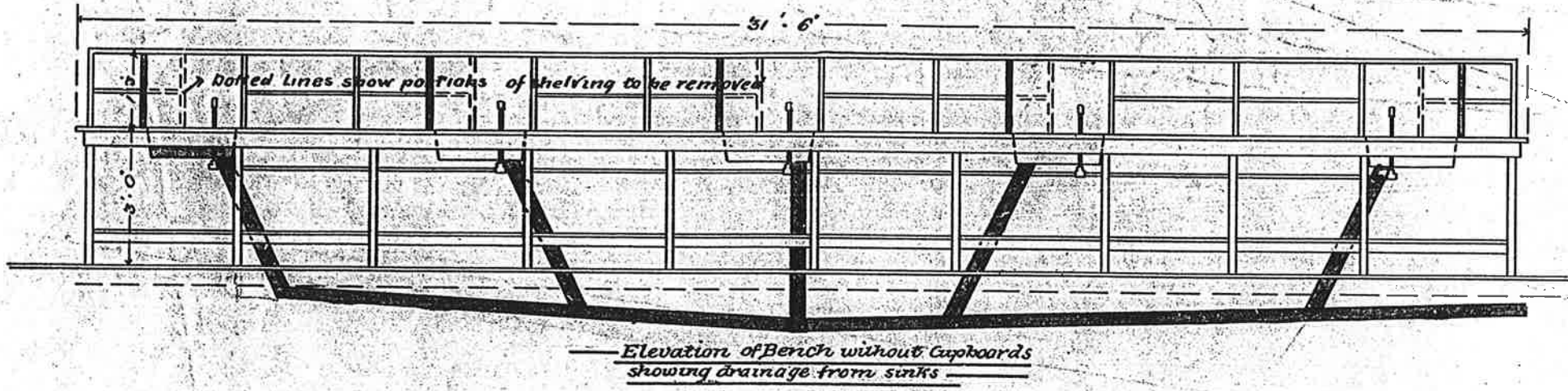
ROSEWORTHY

Agricultural College Drainage from Laboratory Fittings

Scale 2 1/2 Feet to an Inch.



HD
495



W. G. Gougeon
Contractor
Witness *W. M. Maclellan*
Blue Clerk
8-10-1902

KP76

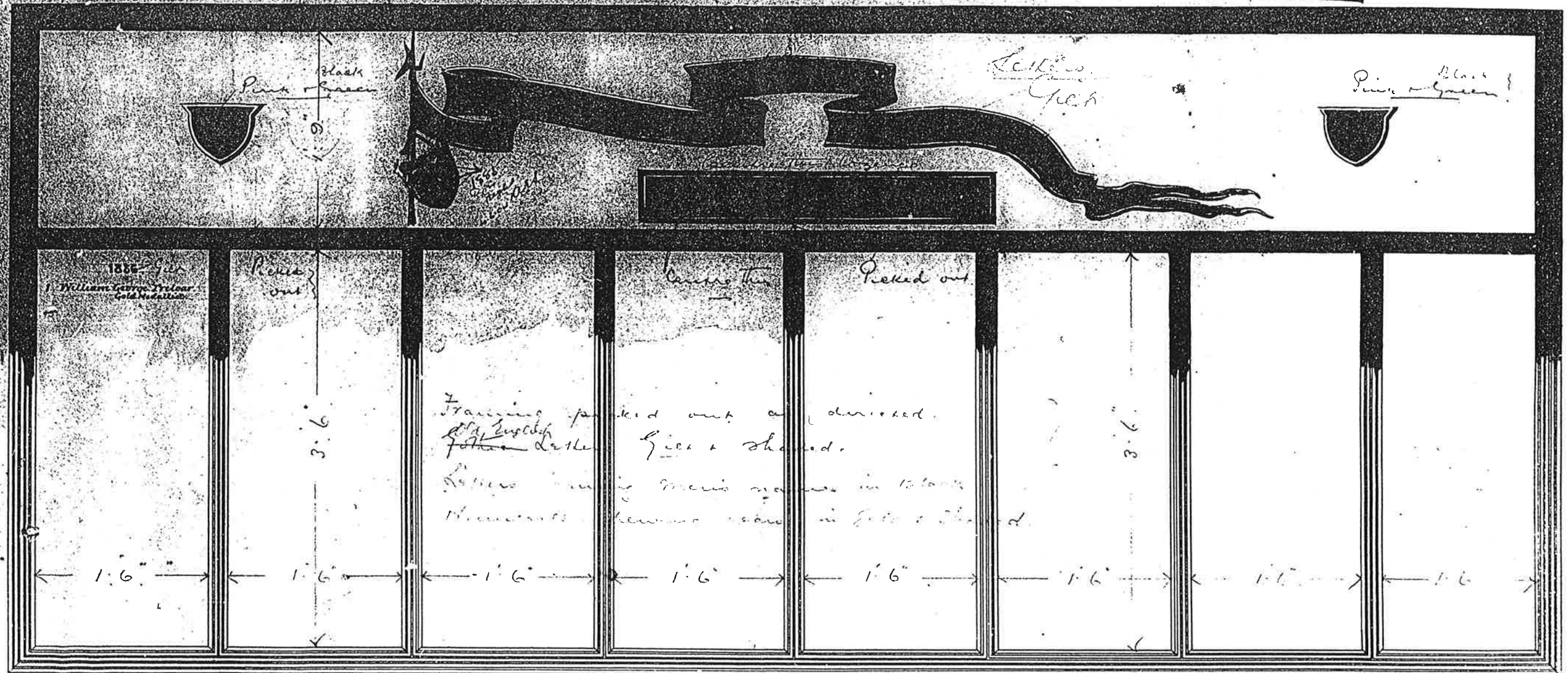
Sketch for Mural Tablets, Evening Room

Agriculture $\frac{.518}{.03}$

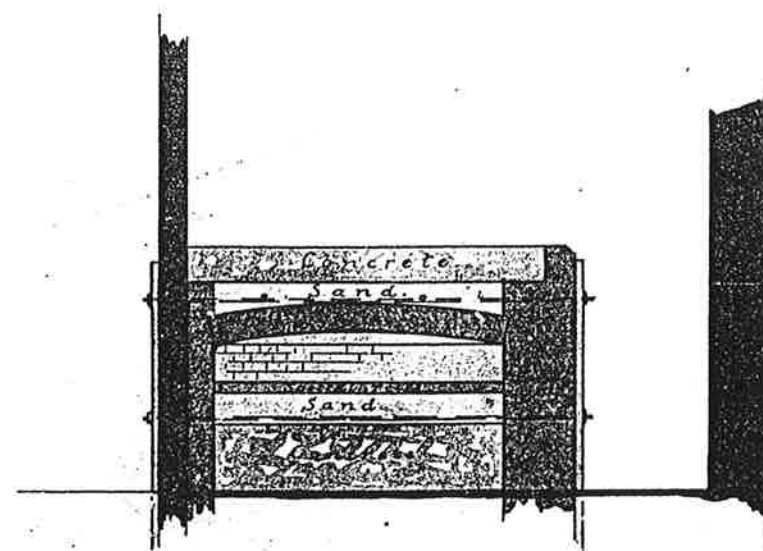
The Walls are painted Green at present

H D

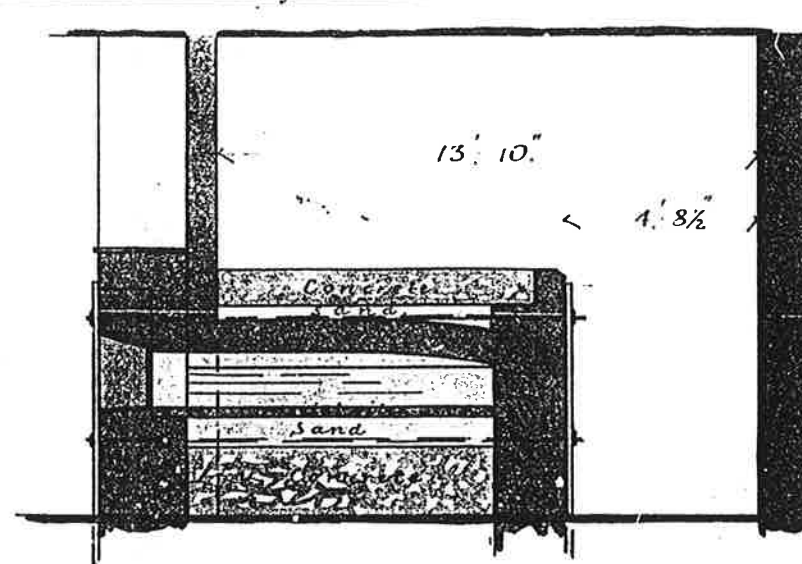
496

$$\frac{22}{3} \text{ or } 7\frac{1}{3}$$


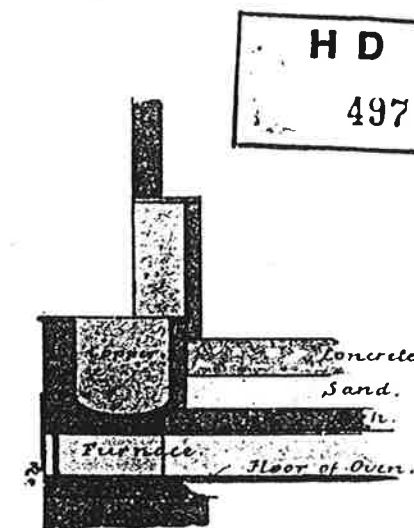
Scheme of building for the guidance of Foreman Mattingly.



Section AB



Section C.D.



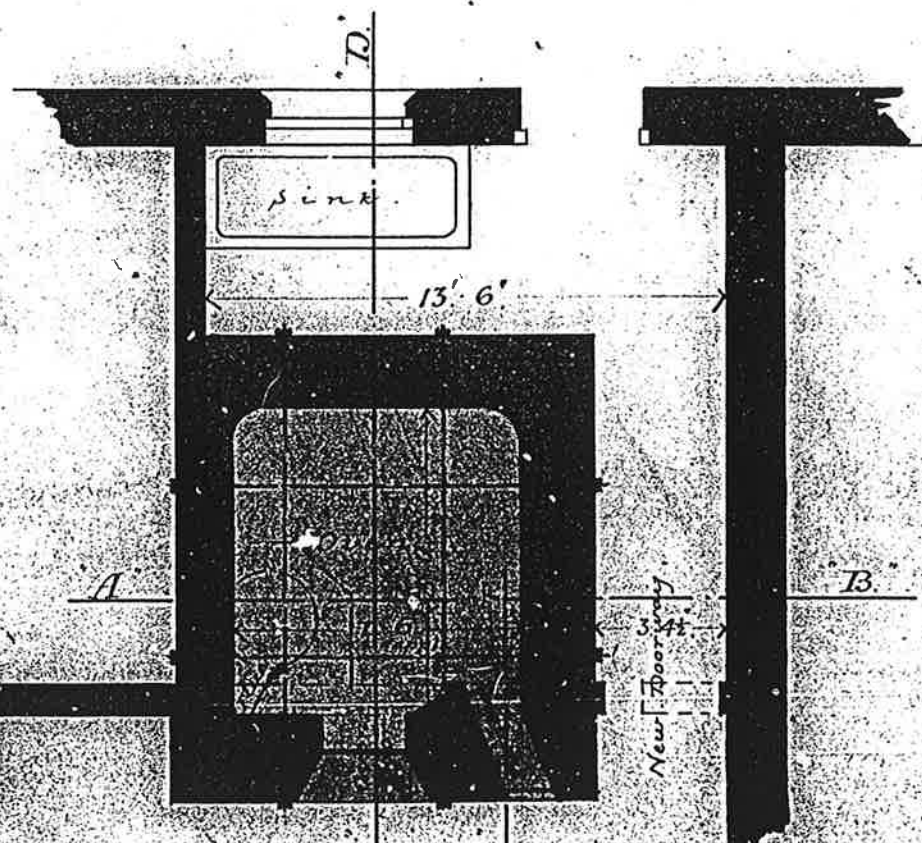
Part Section EF

NOTE All work in connection with Hot Water System is to be omitted

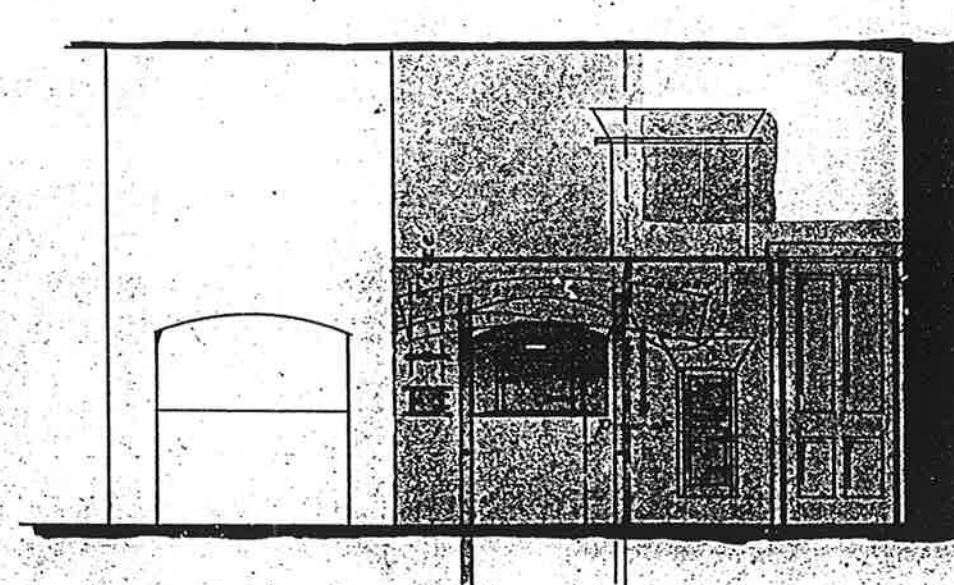
Roseworthy Agricultural College

Bakers Oven etc

1/4" Scale.



Plan



Elevation

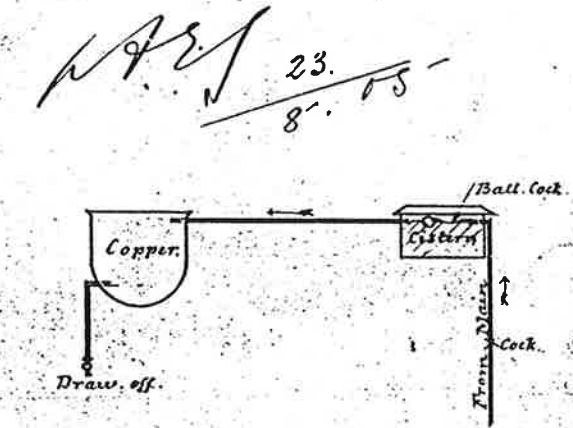


Diagram. Hot Water System.

KP26

Roseworthy Agricultural College

Technological Museum

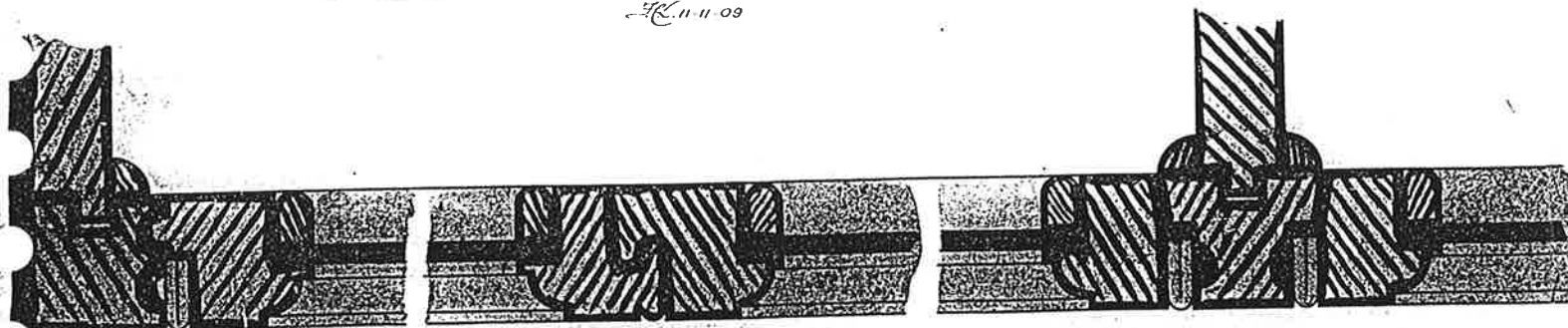
1/3rd & 1/2 Inch Scale

27.11.11.09

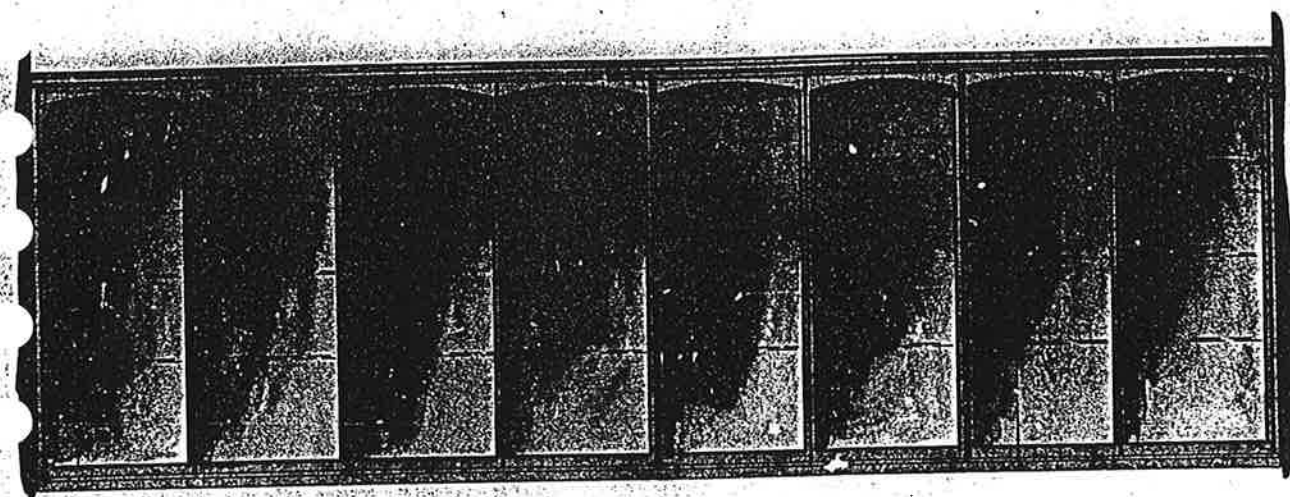
E. P.
OFFICE OF THE
SUPERINTENDENT
PUBLIC BUILDINGS
ADELAIDE.

H D

498



Plan of Doors to glass fronted Cupboards

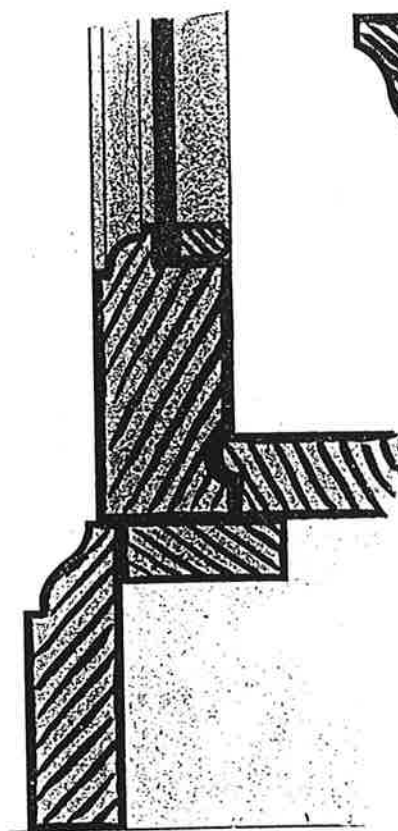


Elevation of glass fronted Cupboards

Half Inch Scale

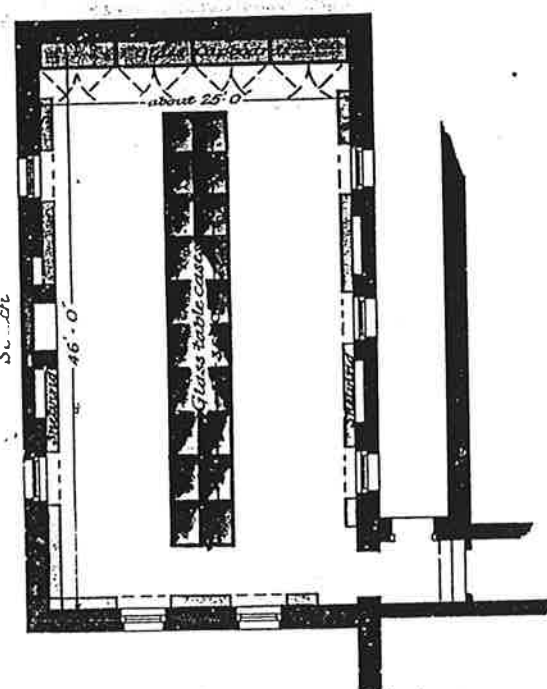
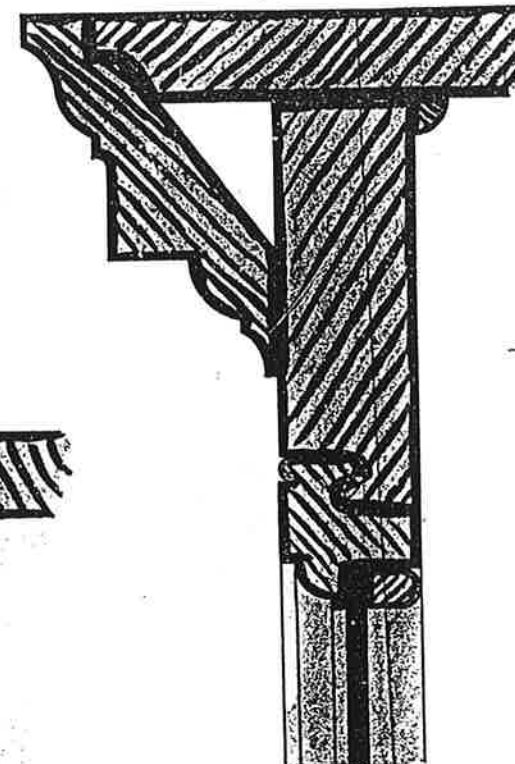


Section



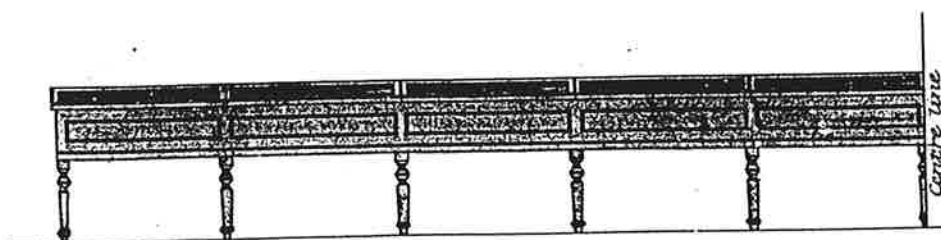
Section thro' glass doors, base & cornice of Cupboards

Details, Full Size



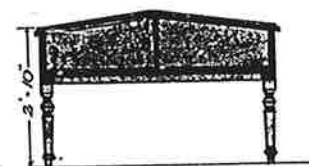
Ground Plan of Technological Museum

1/8th Scale

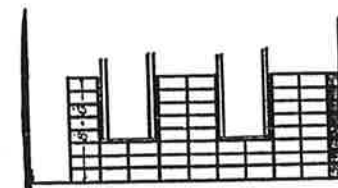


Half Elevation of glass table cases

Half Inch Scale

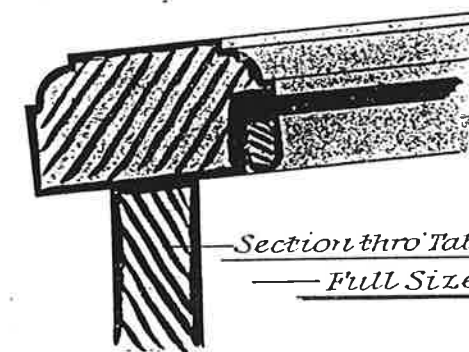


Section



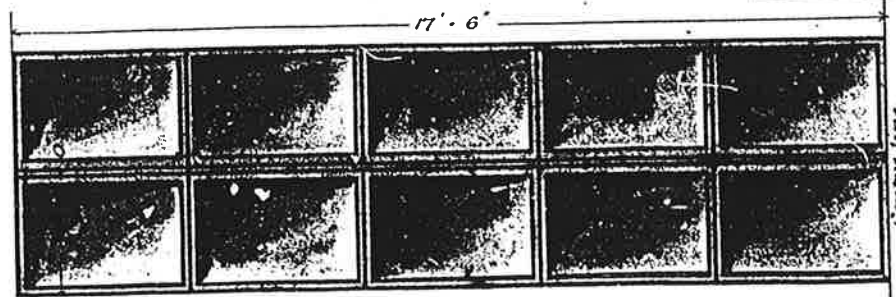
Shelving east Wall

1/8th Scale

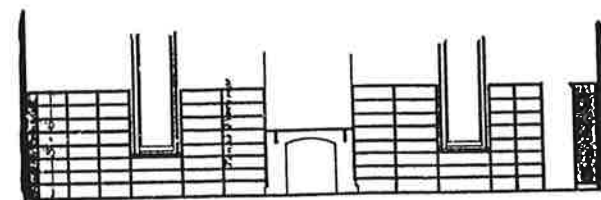


Section thro' Table Cases

Full Size

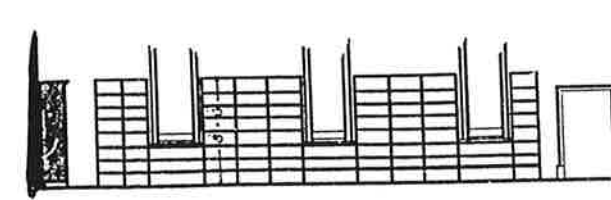


Half Plan of glass table cases



Shelving south Wall

1/8th Scale



Shelving north Wall

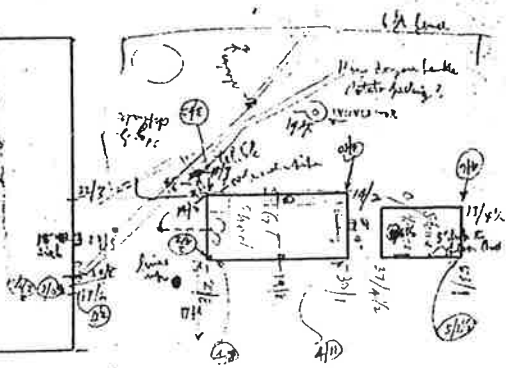
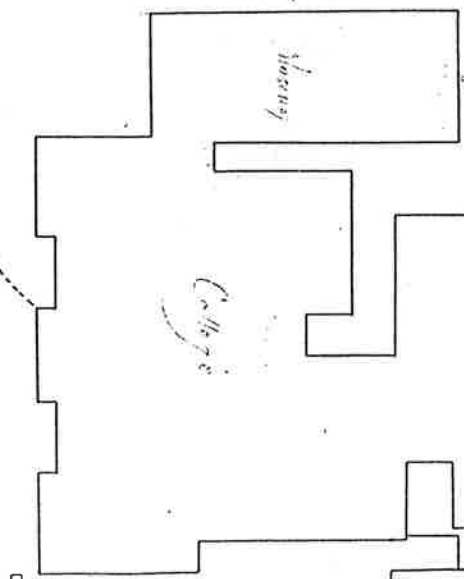
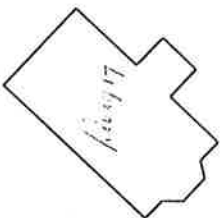
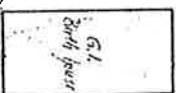
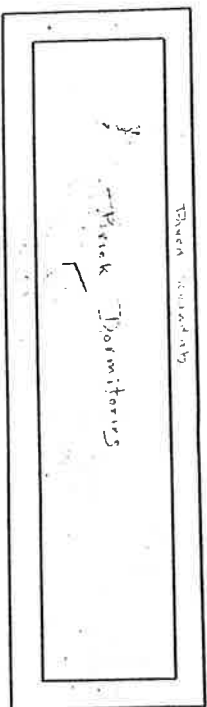
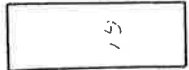
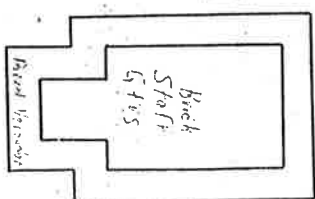
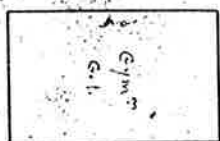
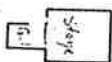
Clayton & Co.
Superintendent of Public Buildings

KP 20

ROSEWORTHY AGRICULTURAL COLLEGE

C. R.
ARCHITECTS
DEPT. OF
AGRICULTURE
ADULTS

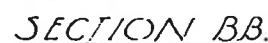
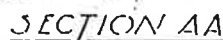
H D
499



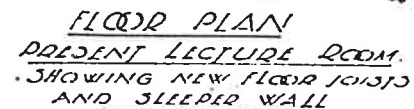
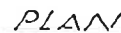
1" = 10' SCALE

FROM SURVEY BY LANDS DEPT 1934

K 26



THROUGH COMMON ROOM (NEW BILLIARD ROOM)



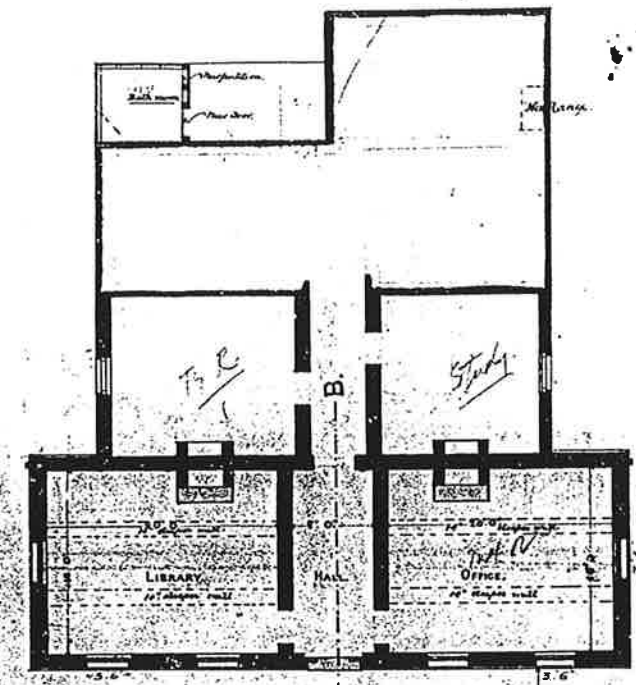
SCALE 8.7. 10 1 INCH

ROSEWORTHY
ADDITIONS TO AGRICULTURAL-FARM.
NEAR GAWLER.

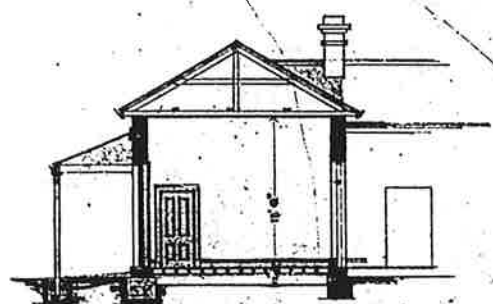
PRINCIPALS RES
K.P. 3

SCALE - 8 FEET TO 1 INCH.

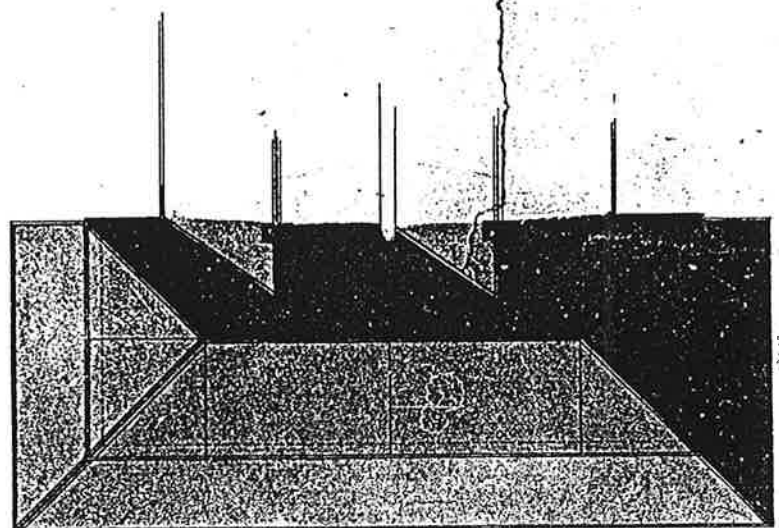
Reference - Old Work shaded in Indian Ink.
New Work is Colored.



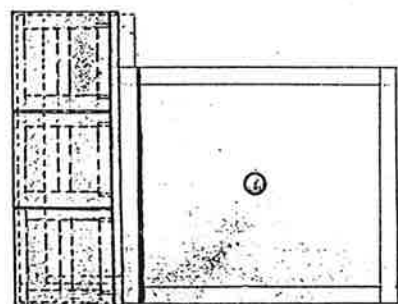
PLAN.



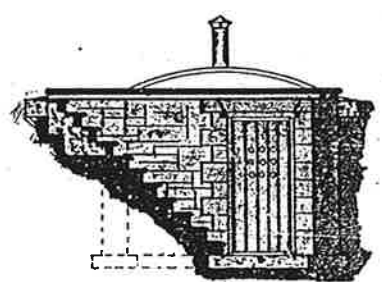
SECTION.



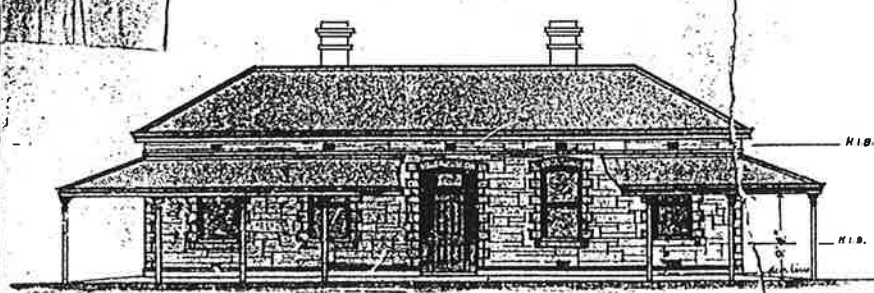
ROOF PLAN.



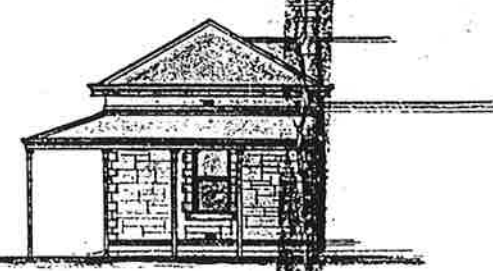
ROOF PLAN.



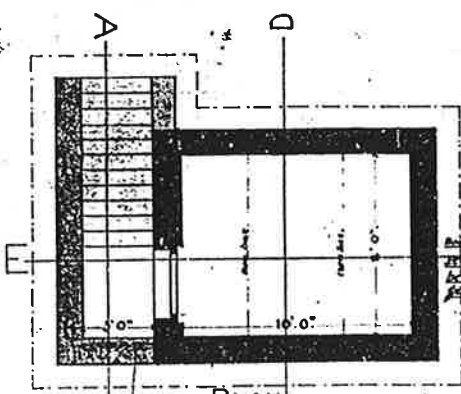
SECTION-AB.



FRONT ELEVATION.

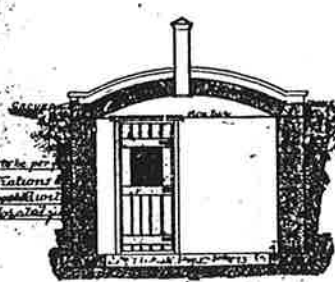


SIDE ELEVATION.

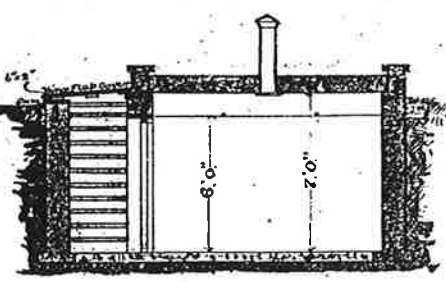


PLAN.

CELLAR PLAN - 1/4" SCALE



SECTION-C-D.

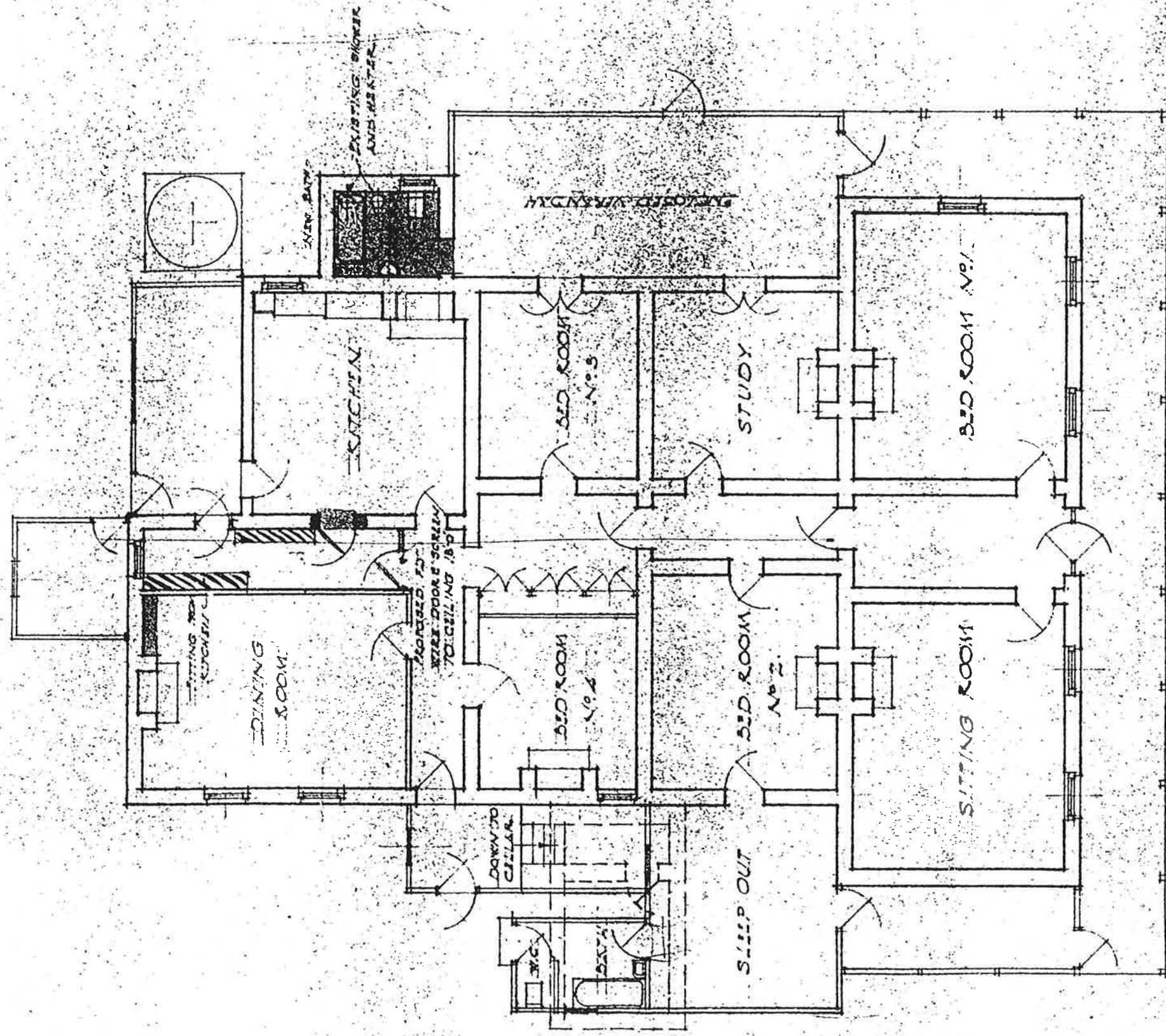


SECTION-E-F.

W. Grigg
Contractor
Willesby Middleton

K.P. 3

HD
510



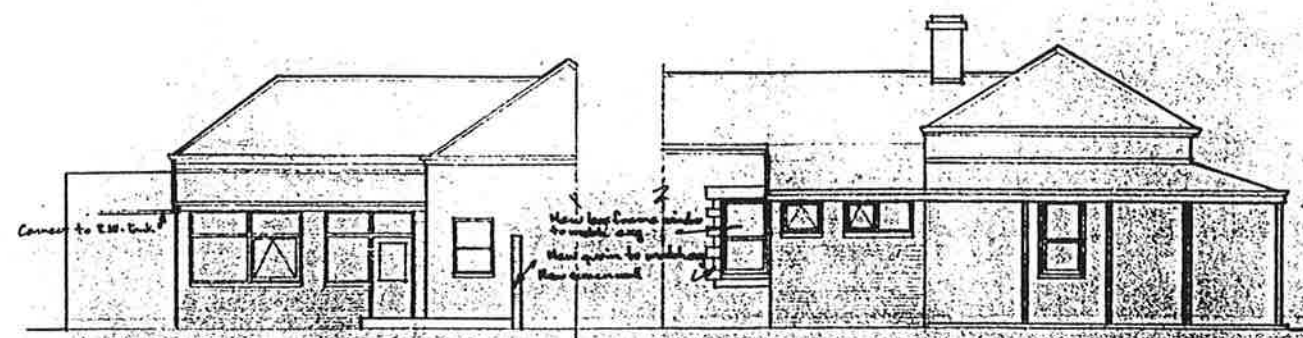
ROSWORTH AGRICULTURAL COLLEGE
PRINCIPALS RESIDENCE

SCALE 8" = 1' TO ONE INCH 1943

U-3

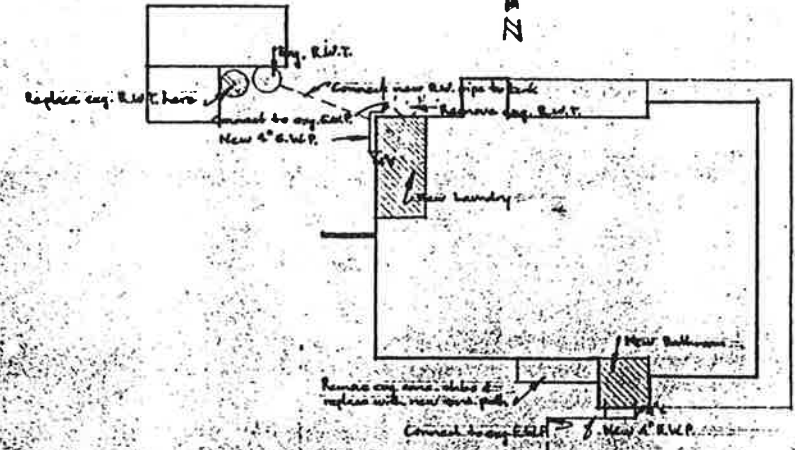
13X15 7927

HD
513

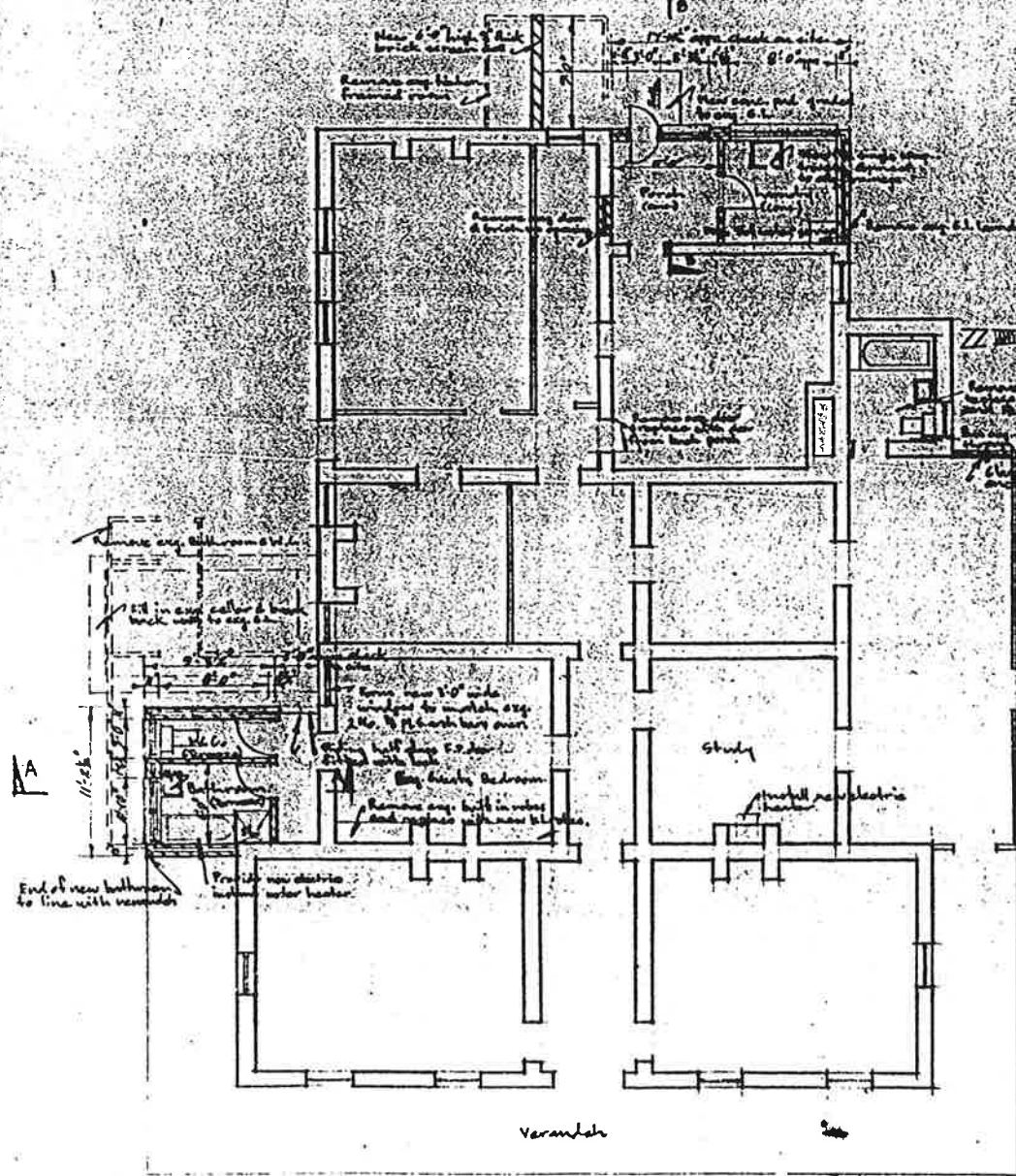


LAUNDRY (East Elevation)
Scale: 1/8" to 1'-0"

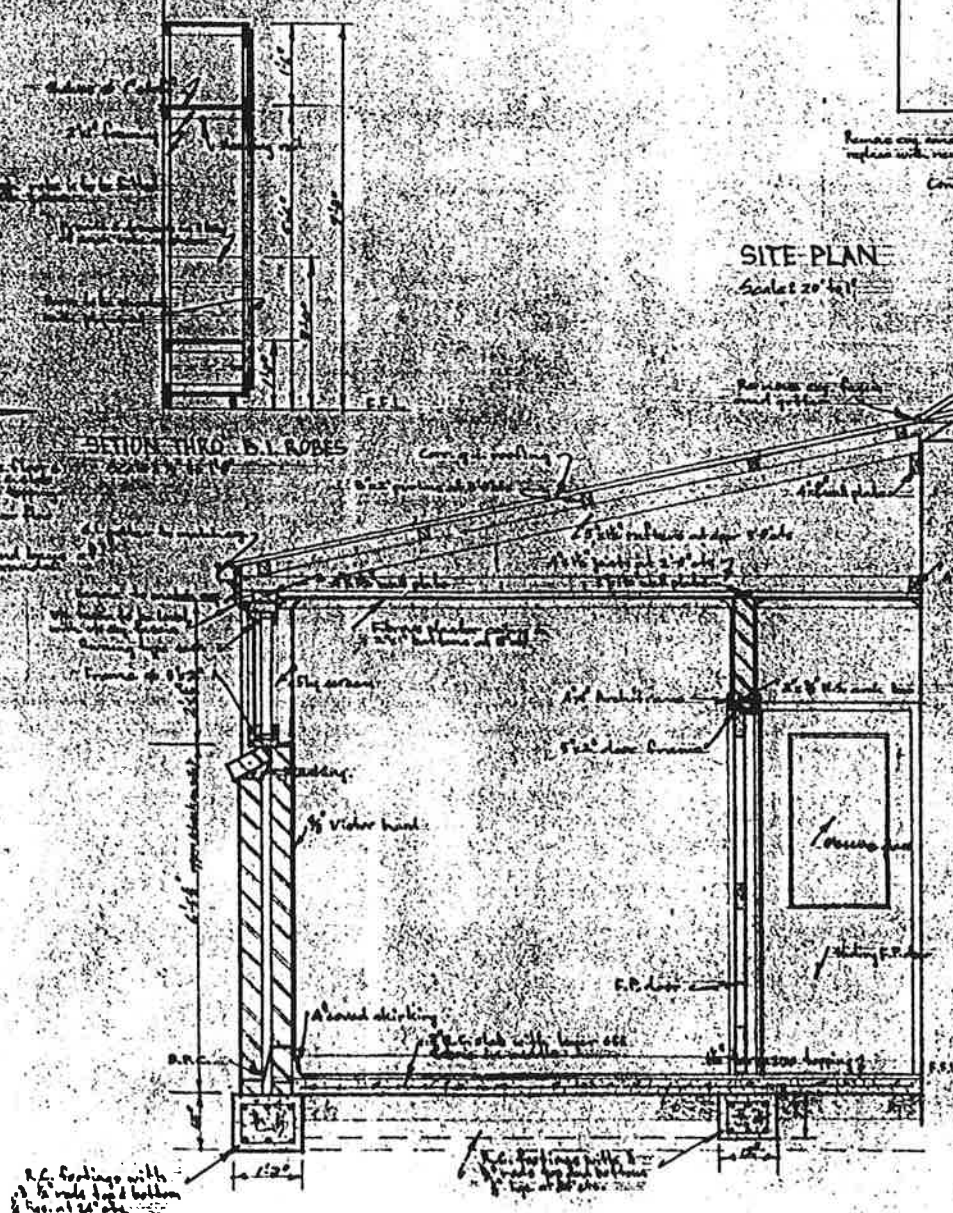
BATHROOM (South Elevation)
Scale: 1/8" to 1'-0"



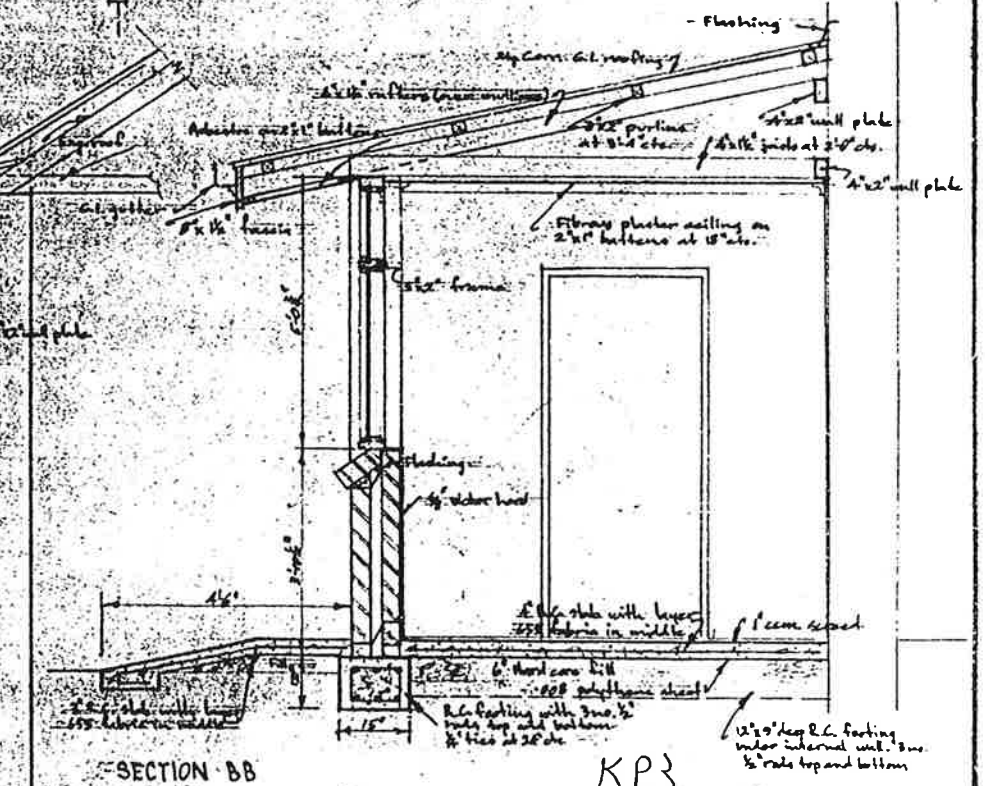
SITE PLAN
Scale: 20' to 1"



PLAN
Scale: 1/8" to 1'-0"



SECTION AA
Scale: 1/8" to 1'-0"

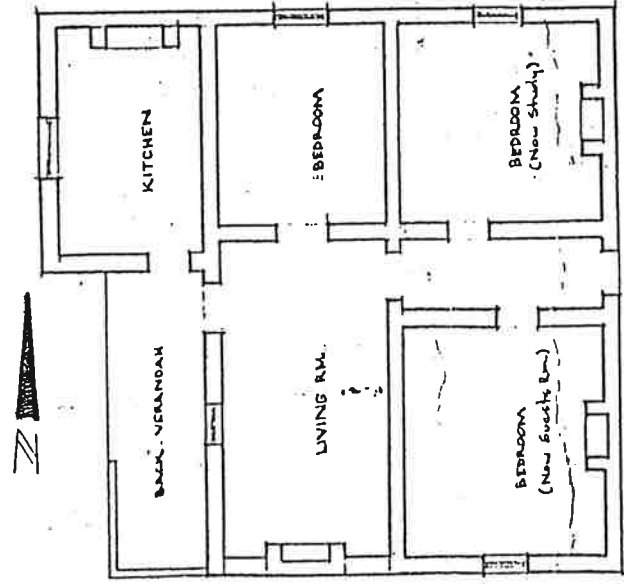


SECTION BB
Scale: 1/8" to 1'-0"

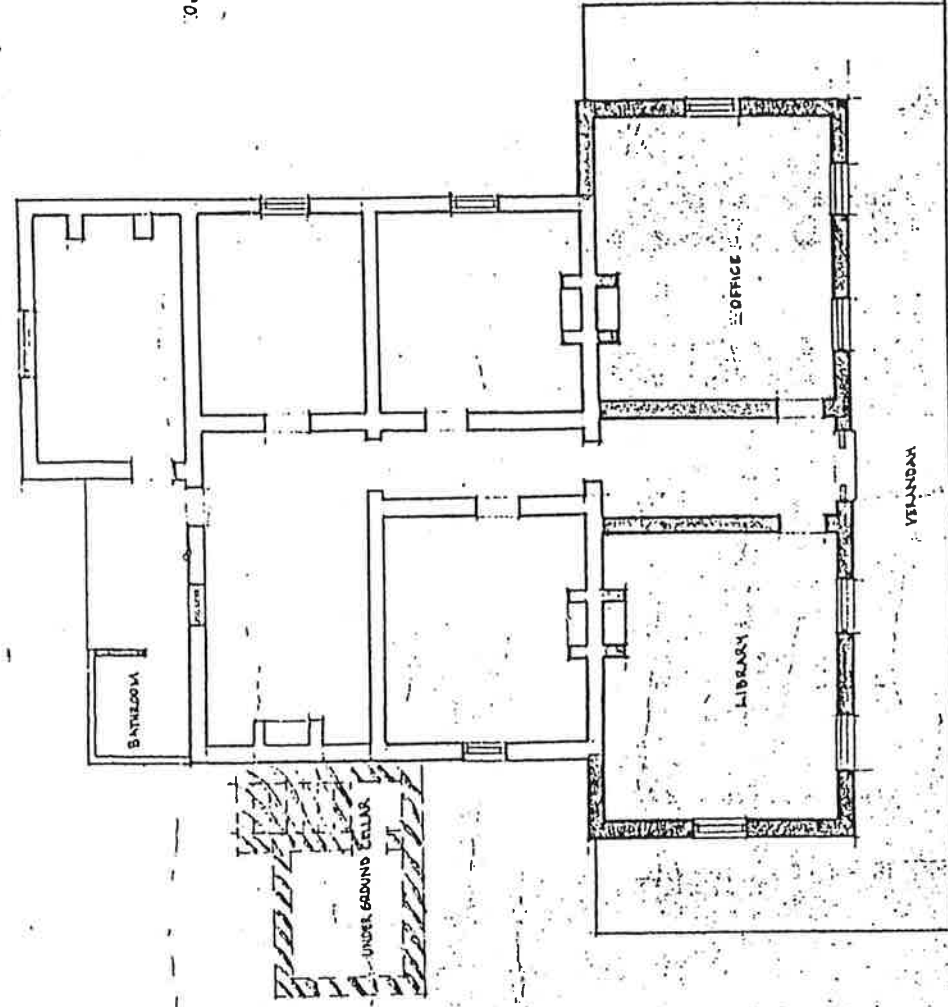
ORIGINAL

SHEETS IN SET 7		Sheet No. 1	
ROSEWORTHY AGRICULTURAL COLLEGE - IMPROVEMENTS TO PRINCIPAL'S RESIDENCE			
Scale: As Shown		R. BARRON & SON PTY. LTD.	
APPROVED BY	DATE	14/1/64	
MECHANICAL	19/1/64	14/1/64	
ELECTRICAL	1/7/64	14/1/64	
EQUIPMENT			
AIR COND			
SURVEY			
STRUCTURAL			
DESIGN BY			
CH. OF ARCH.			
PUBLIC BUILDINGS DEPARTMENT		459563	

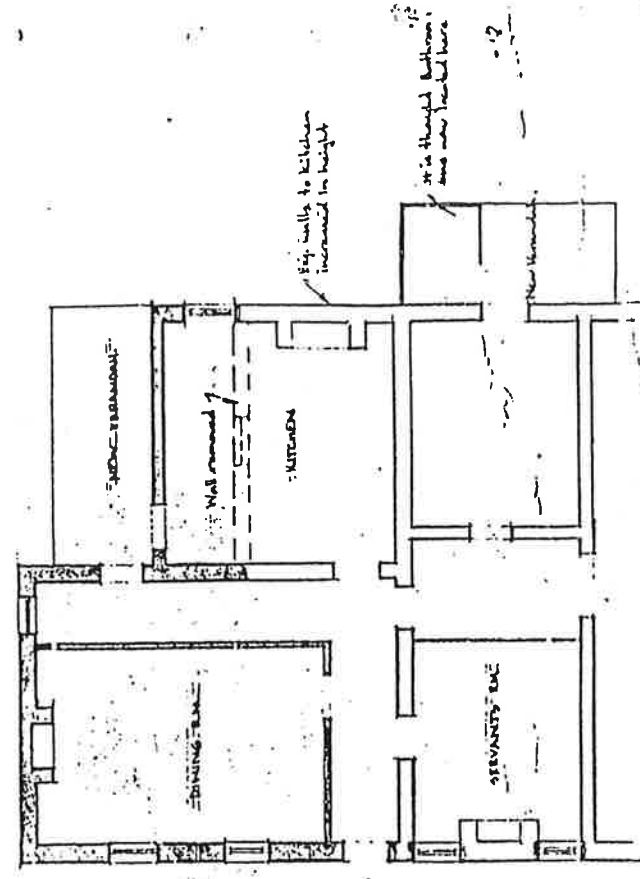
ROSEWORTHY AGRICULTURAL COLLEGE PRINCIPAL'S RESIDENCE - SHOWING DEVELOPMENT



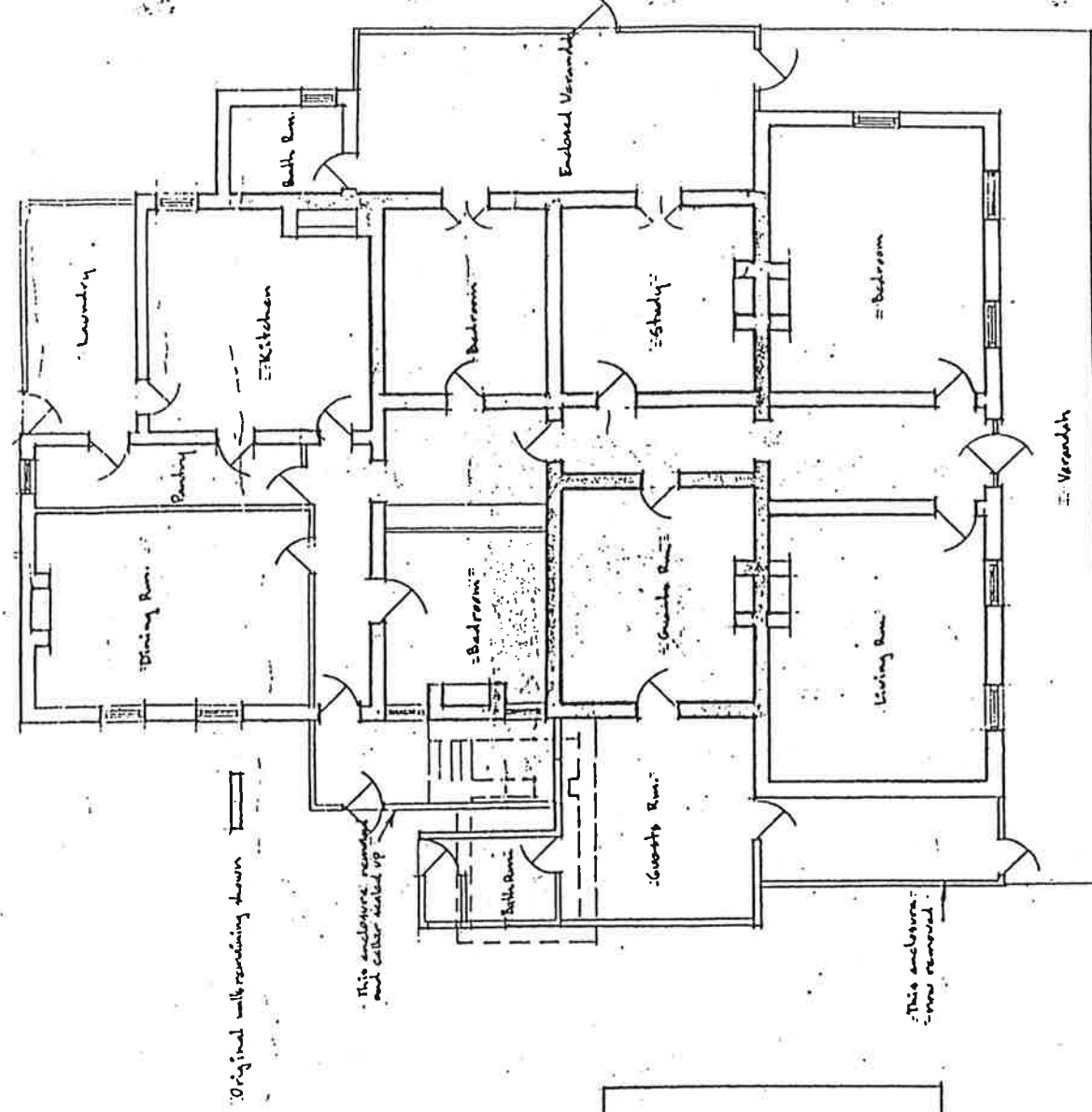
1. PLAN (as assumed to be originally)
Scale: 1/8" to 1'-0"



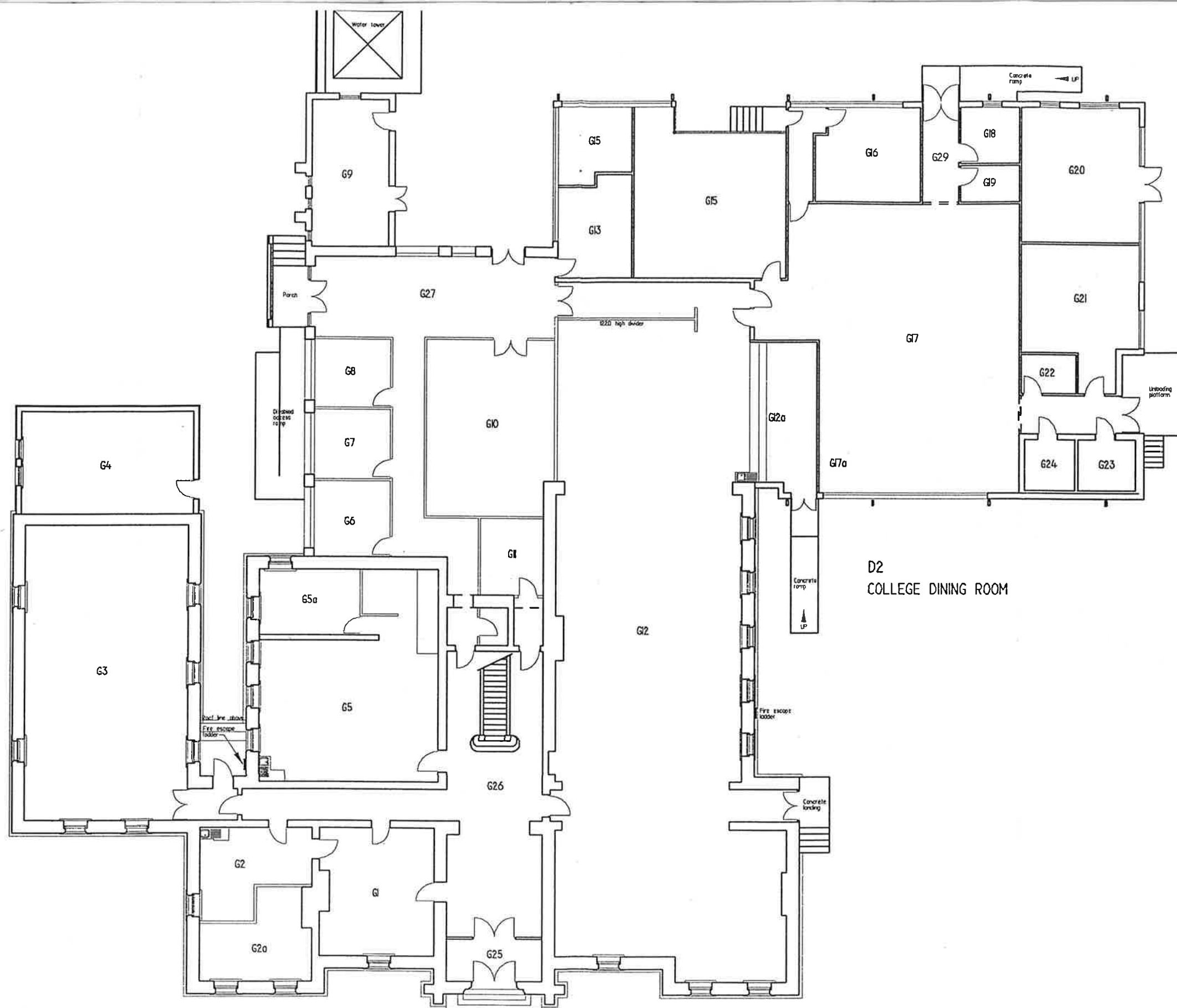
2. PLAN (showing additions made in 1892)
Scale: 1/8" to 1'-0"



3. PLAN (showing alterations made in 1904)
Scale: 1/8" to 1'-0"



4. PLAN (as surveyed in 1923 and remains almost the same now)
Scale: 1/8" to 1'-0"



D2
COLLEGE DINING ROOM

D1
ADMINISTRATION BUILDING

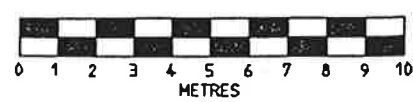
THE UNIVERSITY OF ADELAIDE
BUILDINGS
BRANCH
Adelaide 5005
Tel: 08 363 5701
Fax: 08 363 4264

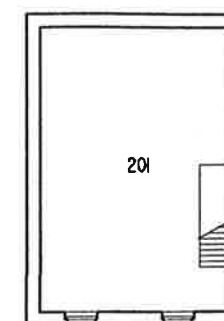
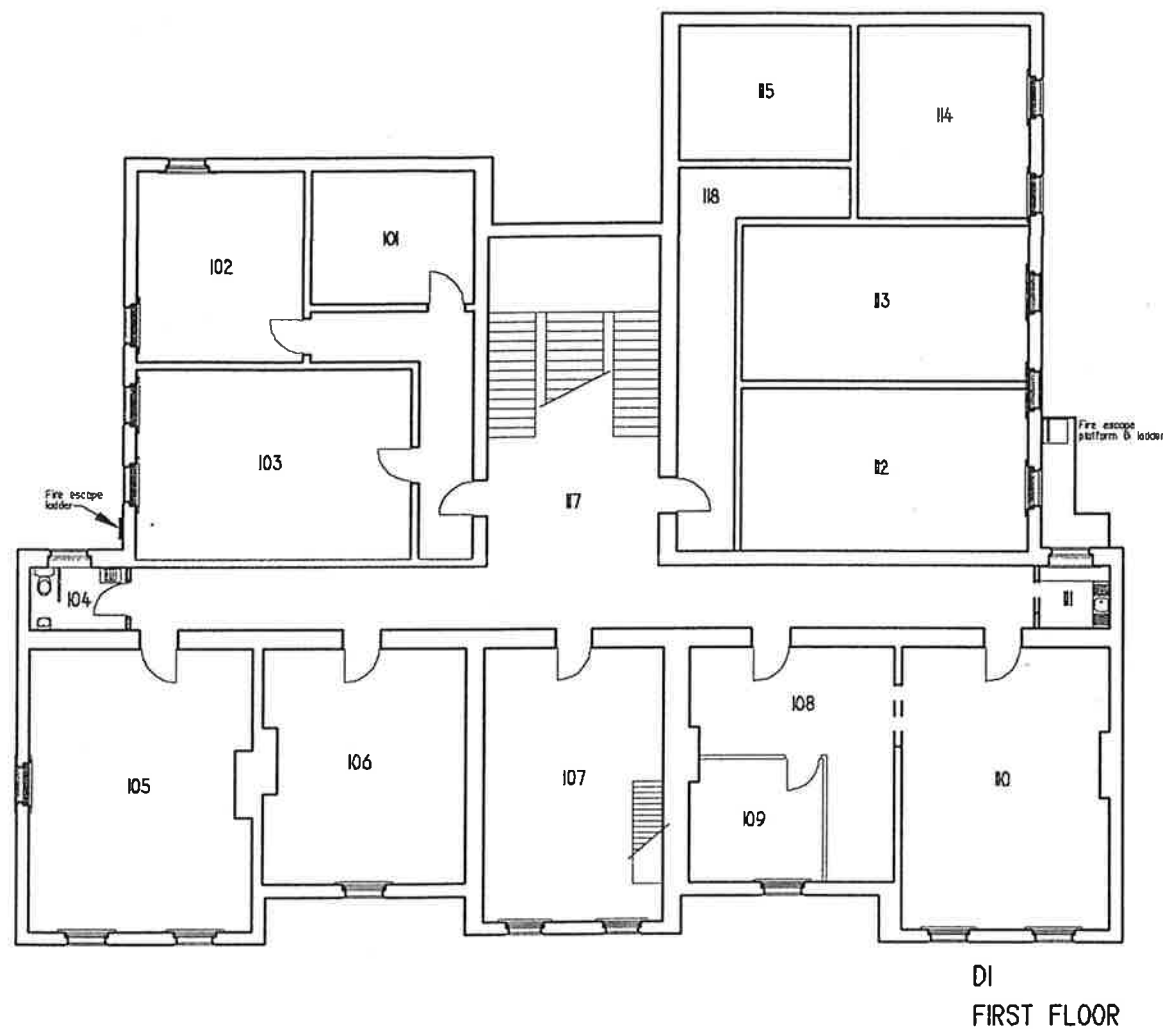
ROSEWORTHY
SPACE PLAN
GROUND FLOOR
ADMINISTRATION D1

Drawn K.P.S.
Date 7/06/93
Checked R.L.
Date
Sheet No. Drawing No.

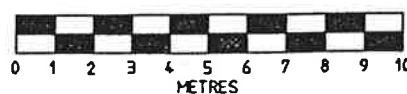
R.D1.01

Contractors must verify all
appropriate site dimensions
before commencing work.
All shop drawings must be
approved by Buildings Branch.
Scale 1 : 200





The contractors must verify all
appropriate site dimensions
before commencing work.
All shop drawings must be
approved by Buildings Branch.



Scales 1 : 200

THE UNIVERSITY OF ADELAIDE
**BUILDINGS
BRANCH**
Adelaide 5005
Tel (08) 303 5701
Fax (08) 232 4504

**ROSEWORTHY
SPACE PLAN FIRST AND
SECOND FLOORS
ADMINISTRATION D1**

Drawn	K.P.S.	Area
Date	8/6/93	R.L.
Checked		Job. No.
Date		Drawing No.
Sheet No.		

R.D1.02

Map of M. L. O. plan
J. R. 16. 3. 83

MUDLA WIRRA

Experimental Farm

Total area: 824 acres

684

Secs. 686, 687, 690, 691, 693, 694 are vested in The Commissioner
for AGRICULTURAL ENDOWMENTS. C. of T. Vol. 510, fo. 150, vide CL 8, 1/158/82.
* Sec. 704. Never Granted, but added to College area vide CL 8, 1/158/82
Mata 756/18 & 15/19

685

678

Open

4
147.3.17

Plain, under cultivation.

5
143.1.20

6
A. R. P
146.0.0

688

Soil red, and dark

C. of T. Vol. 130

Loam.

Mallee Scrub

689

705

Under Cultivation

SECTN. AREA
14 2.002 ha. 08.40/177
15 4.654 ha

Mallee Scrub

706

Mallee Scrub

704

695

Gandy Loam, Surface Limestone

703

702

701

700

For Field notes, levels 8:
N. F. B. 395

N. F. B.
F. J. B.

For survey of stone res
in 704 vide page 49

5.3.83

CHAINS 10 20 30 40 CHAINS
Scale

Plotted and Drawn by S.H. Macgeorge.

Total area of farm 824 acres.
11.2.84.

116 67

1400 C.L.1
82

63-0.500
82

47

For enlargement of Improvements, vide page 48

For plan prepared for Photo-lithograph, vide Rack 370

For Original Survey, vide pages 38 & 41

14670
724
T 3 6

Ø PT Sec 689 transferred to Commissioner for Agricultural Endowments,
Vide PBD 171662, for data P.M. plan B.3475.

AD

Ø Road closed 28.2.50 Vide Rd. Plan D.C.
Mudla Wirra 10. O.L. 5712/1949
S Arm BK 376
P104

MUDLA-WIRRA.

Surveyed in Dec 1863 by J.E.D. Packard -

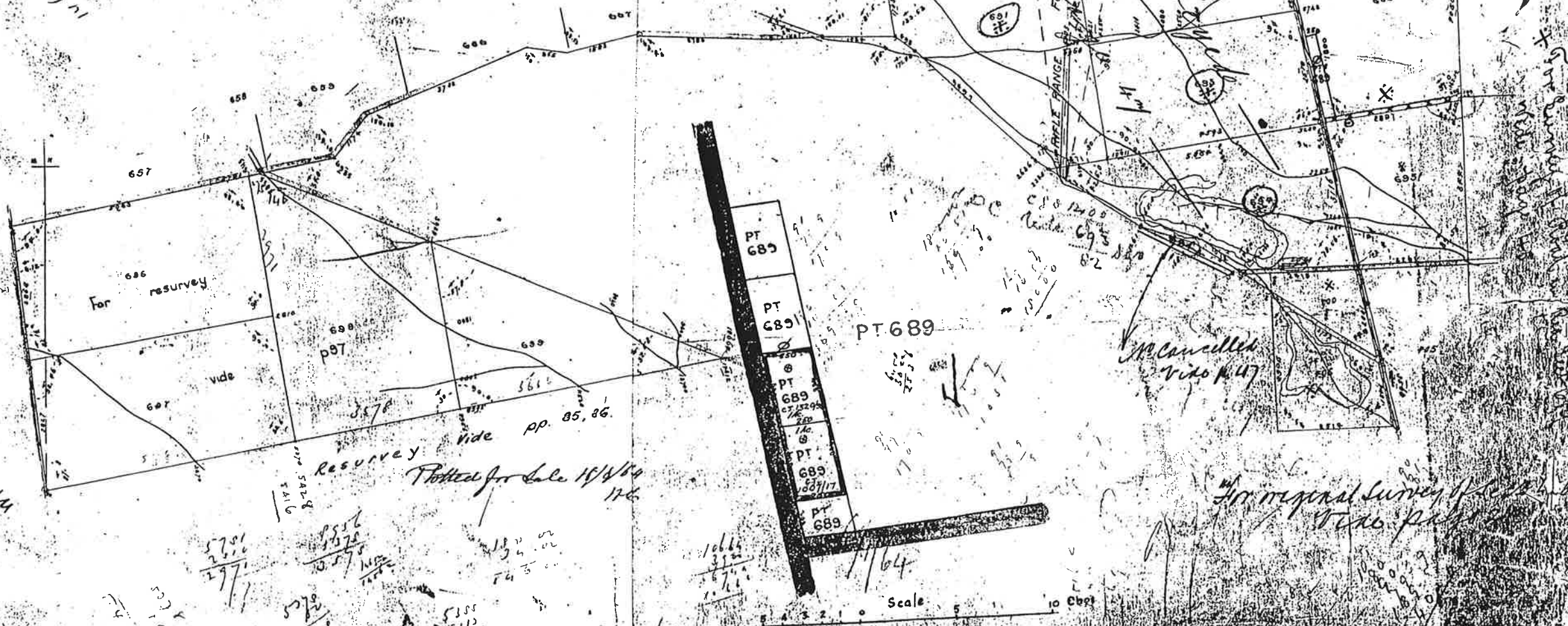
* Secs 406, 684, 685, 686, 687, 688, 690, 691, 693, 694, & 700 are vested in The
Commissioner for Agricultural Endowments vide C.L. & I. 1158/82. Col. T. Vol. 510. Fo. 130.
Col. T. Vol. 111. Fo. 142. Col. T. Vol. 58. Fo. 244. Col. T. Vol. 58. Fo. 245. Col. T. Vol. 222. Fo. 226.
Part Sec. 689 & Sec. 695 have been transferred to the Commissioner for Agricultural Endowments vide Col. T. Vol. 1320. Fo. 99, Vol. 746. Fo. 46 respectively, D.R. 180/28.

* Sections 686, 687, 690, 691, 693, & 694
Purchased by the Govt for Experimental Farm
and College. Vide Cite 9. 1990/81

INDEX				
F.B. 585 Pages 18. to 25				
No.	Area	Area	Total	Description of Country
684	129			Submarine Land.
685	129			Highly covered with
686	124			low bushes and mallee
687	105			Low - mallee
688	109			
689	105			
690	155			
691	112			
692	124			
693	84			
694	129	up 37		
695	129	up 37		
696	129	up 37		
697	129	up 37		
698	129	up 37		
699	129	up 37		
700	129	up 37		
701	129	up 37		
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791	129	up 37		
792	129	up 37		
793	129	up 37		
794	129	up 37		
795	129	up 37		
796	129	up 37		
797	129	up 37		
798	129	up 37		
799	129	up 37		
800	129	up 37		

I have personally examined
the above lines and have found them properly pegged
and numbered and the country correctly numbered.
J.E.D. Packard
1864

Open 18th August 1864
J.E.D. Packard



Ø PT 689 (CT 1007/174 1320/28) Transferred to
Commissioner for Agricultural Endowments A.G. 215/1944

ROSEWORTHY AGRICULTURAL COLLEGE HD. MUDLA WIRRA

Scale 0 10 20 40 Chains
To Wesley's



Copy of Field Notes of Survey of
 Cont Experiments to Farm (about
 3 1/2 miles westerly from Roseworthy)

Surveyed between 18th and 28th Apr. 1882

Chas. J. J. J. J.

2nd Oct 1882

From the farm to Roseworthy Station
 the Angle of Elevation = $25^{\circ} 0'$

From Roseworthy Station to the farm
 the Angle of Depression = $24^{\circ} 30'$

Distance Scaled off plan = $3^m 46 ch$

$3^m 46 ch = 18876 \text{ feet}$

log. 18876	4. 275910
log tan 25°	7. 861674
	2. 137584
	137. 28

log dist $\times 2 =$	8. 533404
Cent AC of Earth's Dia	2. 378860
Curvature	
	0. 912264 = 8. 17

Refract $\frac{1}{7}$ of Curvature	145. 45
	1. 17
Diff ^e of Height	
	144. 28

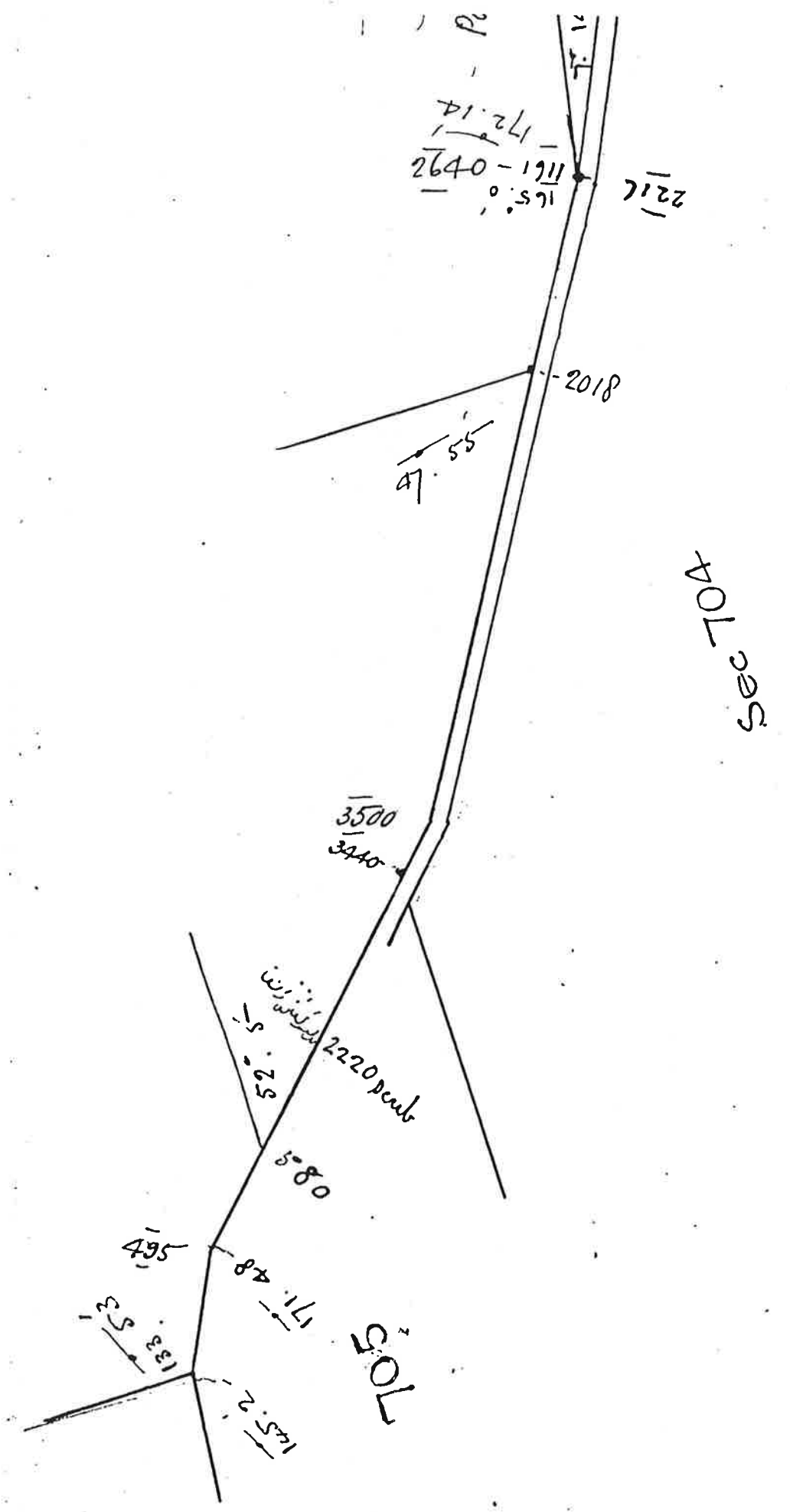
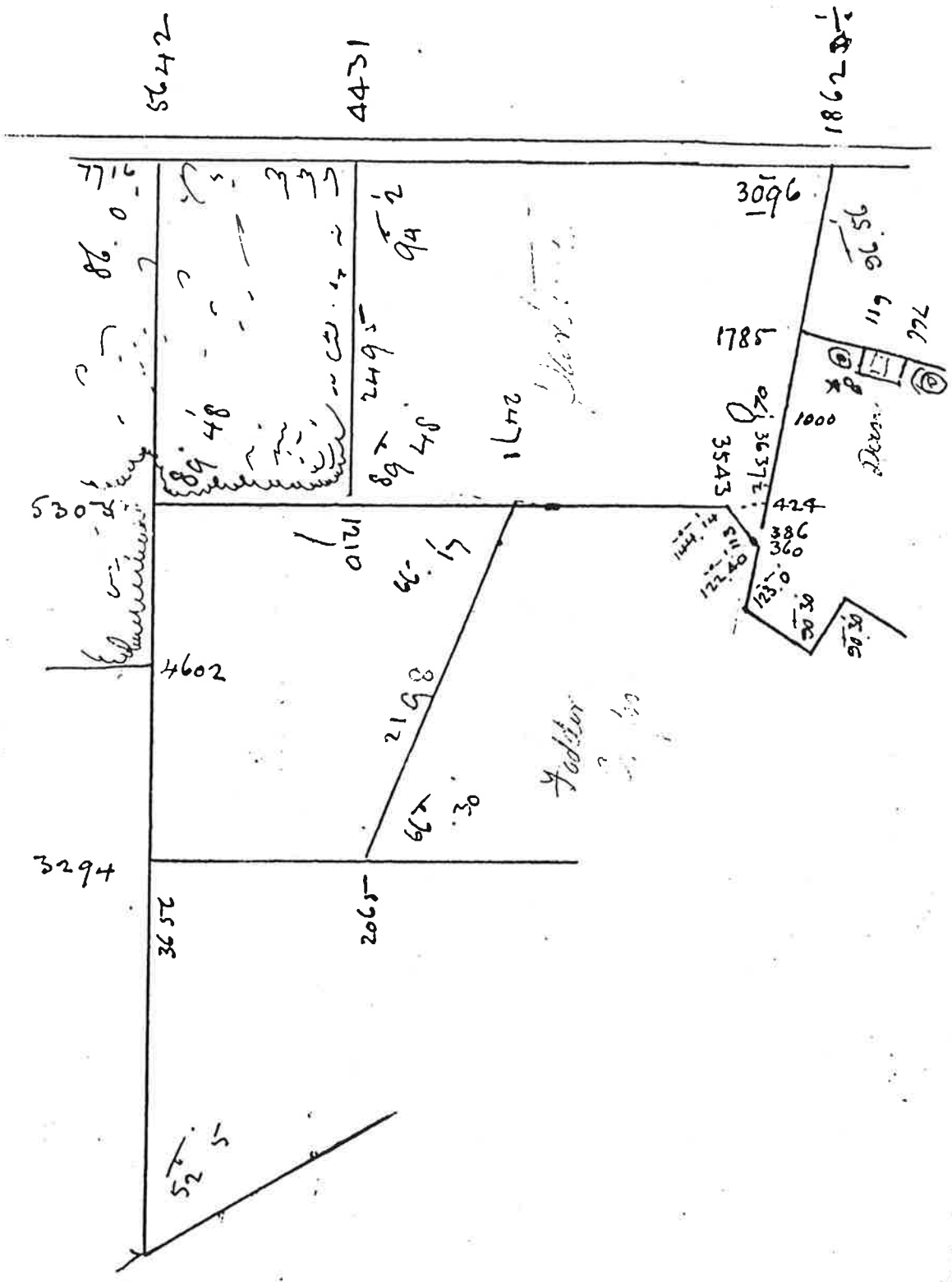
Levels from Platform of Railway Station at Roseworth to Govt Experimental Farm

BACK	FORE	REDUCED
		374 above sea B.M.
0.0	15.7	
0.1	10.9	
0.4	14.6	
0.0	8.7	
6.1	11.1	
2.0	8.0	313.6 opposite Dam BM
3.0	8.9	
1.7	7.5	
1.3	10.9	292.3 opposite Dam BM
1.2	11.4	
1.1	9.1	
2.2	10.6	
0.0	10.7	259.0 opposite Dam
0.8	10.3	
0.1	9.9	
1.5	7.7	
2.0	9.3	
1.8	9.5	
1.2	9.3	
2.3	8.4	
3.0	6.0	
2.6	4.6	
4.2	4.8	B.M. Ground at 194.7 Entrance gate

BACK	FORE	REDUCED	
		194.7	Entrance gate.
5.5	3.3	196.9	Well.
	4.5	195.7	Dam old by Road.
	5.0	195.2	Corner post.
7.3	5.2	197.3	Dam on Right hand.
8.9	4.0	202.2	White gate on track to House
5.7	3.2	204.7	
9.6	3.6	200.7	
11.3	3.3	218.7	gate.
	12.0	209.8	post on flat
	17.	194.8	Excavation just begun.
14.1	4.6	228.3	Concrete at back of Dwelling
	4.6	228.3	Ground front of Dwelling.
6.0	7.1	227.2	S.W. Cor of garden.
	12.5	223.7	221.7 Back Entrance gate.
3.5	14.0	215.7	S.E. Cor of garden.
8.0	1.8	221.3	on rise at bottom of garden
	8.8	214.3	N.E. cor of garden
	6.1	217.0	Round post of fence top of Ridge
0.0	13.3	202.5	W end of Reservoir in middle
	8.6	207.2	Cor of fence N.W. Bound of dam
	11.0	202.2	fence S.W. B. of dam
	8.3	207.5	Intersection of fences.
again	8.6	207.2	
3.6	8.6	204.2	N.E. Cor of End of Dam
5.7	4.3	204.5	on rise.
3.6	3.3	200.1	
3.4	7.8	200.1	
0.9	6.3	194.7	Entrance gate (CHECK.)

Diff^e of Level. 145.7

Dwelling House 228.3 above sea
adopting Railway platform
at 374 feet.



$$\frac{2}{2}$$
