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THE PARLIAMENTARY STANDING COMMITTEE ON PUBLIC WORKS.

REPORT

relating to the proposed

EXTENSIONS TO THE

SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICINE,

S Y D N E Y.

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THE PARLIAME TARY STARDING COMMITTEE ON PUBLIC WORKS.

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EXTENSION: TO THE SCHOOL OF PUBLIC HEALTH AND TROPICAL MEDICIVE,

S Y D N E Y.

REPORT.

The Parliamentary Standing Committee on Public Yorks, to which the House of Representatives referred for investigation and report the question of Extensions to the School of Public Health and Tropical Nedicine, Sydney, has the honour to report as follows:

SECTION I. - INTRODUCTORY.

THE ORIGINAL BUILDING.

- The building which is at present being used for the work of the School of Public Health and Tropical Medicine was erected following the recommendations of the Parliamentary Standing Committee on Public Yorks in 1928, and the structure was built on land set apart by the Sydney University in accordance with the terms of an Agreement between the Commonwealth of Australia and the Sydney University.
- 2. Reasons advanced in 1923 to explain the urgent necessity for the building at that time included -
 - (a) the rapid development in the field of public health;
 - (b) the fact that it was necessary for graduates to proceed abroad to obtain proper training in public health; and
 - (c) the very great importance of a proper scientific centre in Australia for tropical medicine, and the growing importance of this in association with Australia's tropical possessions. The estimated cost of the original building was £30,000,

and maintenance was expected to cost approximately 19,000 per annum.

PROPOSAL FOR EXTENSIONS.

3. In 1944 the House of Representatives referred to the Committee a proposal for extensions to the original building, and the Committee's report to Parliament finally recommended the extensions at an estimated figure of £77,881.

- 4. The structure proposed envisaged extensions to the present building in continuation of the original architectural design, and were arranged so that, when completed, the new wings would be formed round a central quadrangle. The height of all four sides to the building would conform to the present building which is comprised of Lower Ground Floor, Upper Ground Floor, and First Floor. The extensions, providing 36,000 square feet of space, would represent one and a half times the accommodation originally provided in the present building.
- 5. In addition to extra accommodation in the main building it was also proposed to add a complete floor to the Animal House in which space was urgently required.
- 6. After taking exhaustive evidence on all phases of the requirements of the School, the suitability of the proposed structure for the purpose, and other considerations, including availability of materials and labour at the time, the Committee recommended that the building was necessary, and that the proposal, with certain slight modifications should be proceeded with as soon as interials and labour could be allocated to the project.

SECTION II. - THE PRESENT PROPOSAL. GENERAL.

- 7. Owing to the great shortage of materials and lebour, and the urgent necessity to press on with housing projects in the period following the Committee's recommendations in 1945, building of the proposed extensions was not commenced. With a view to pushing ahead with the work the matter has now been further considered, and fresh estimates, based on later cost figures were prepared.
- figure which was twice that of the previous estimate for practically the same building it was decided to refer the matter again to the Parliamentary Standing Committee on Public Works, especially as a new Director had been appointed to the School and certain alterations were desired in the internal planning. Development of the Jork

requiring to be carried out at the School hed also provided urgent grounds for some variation to the School curriculum and the research work planned some years ago. Alteration of the method proposed to be used in constructing the building, so that a saving of bricks could be made, added a further factor towards the decision to investigate the scheme again. The proposal was therefore referred to the Committee on 27th April, 1950.

THE BUILDINGS.

Wain Building.

- 9. The extensions to the main building are to comprise the erection of three-storied wings to the East, West and Forth of the present building, forming an enclosed quadrangle, and an additional floor on the two-storey rear portion of the present building. The completed final scheme will then present a uniform three-storied structure, giving an additional space of 36,000 square feet.
- In addition to the construction of the new wings and the extra floor over the rear of the present building there are some alterations to the arrangement of rooms in the present building, including the lecture room and museum, dependent upon the recent developments in the type of problems being dealt with at the 3chool.
- 11. Provision is also to be made for additional lavatory accommodation and a lift, as recommended by the Committee in its former report.

Animal House.

Adjacent to the Main Building on the Southern side is the Animal House, where various types of animals are kept for experimental purposes in connection with the research being conducted at the institution. The present proposal plans to place a complete new floor over the existing one to give much needed accommodation for the work.

ESTIMATED COST.

13. The estimated cost submitted by the Minister in explanation of the project referred to the Committee was £145,310, of which £81,000 would be required for the first stage planned to proceed immediately.

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accordingly.

SECTION III. - THE COMMITTEE'S I VESTIGATIONS. GENERAL.

- 14. The Committee studied the plans and all the evidence taken in the previous inquiry, together with the detils of the present proposal, and it was realised that, apart from internal alterations to suit the changes which had been rendered necessary through devilements in the main objects of the institution, this investigation resolved itself principally into consideration of the renders for the great increase in cost, and study of essentials for the present and future work of the School. In consideration of the wealth of evidence already taken on the matter the Committee limited its invairies
- 15. // the above principal objects in mind the Committee visited Sydney to inspect the present building and site for the extensions; took evidence from the Director of the School of Public Health and Tropical Medicine, officials of the Department of orks of Housing concerned with the planning of the project, and independent specialists interested in work of the type dealt with at the School, and carefully considered the whole of the evidence, with a view to reporting to Parliament on the advisability of proceeding with the work.

REASONS FOR THE EXTENSIONS.

established by the evidence taken in the former invest process, while the library, that museum, and the accommodation that inquiry, that, as a result of concentrated efforts towards assistance in the vor effort, increase had been made of the facilities of the institution in training and diploma courses, while the field of research was constantly growing wider and the need for accommodation to carry out the work more pressing. At that time, though the main amphasis as locused upon the tropical side of the work, a considerable amount of out that on

was paid to tuition and research work connected with local health and industrial health problems, and this side of the work was expected to grow.

- In the present investigation the Committee sought evidence to support the views expressed five years ago, thin the proposal for the extensions was first considered by the Committee. A weelth of very important and interesting information was submitted by the Director of the School and other professional vitnesses, and the Committee was impressed with the value of the work being varied out at the institution, and with its significance in connection with the health of the community and the nation at large.
- Details of the evidence adduced indicated a tr nd in the development of problems affecting the School's work, though the direction of it was somewhat different from that previously anticipated. It has been found that, wher as major d velopments werto be expected in the field of tropical medicine, it has now become apparent that problems of industrial hygiene and public health have become increasingly pressing, and special attention has to be concentrated in this direction to meet immediate demands in this field.
- as a consequence of the growth demand. In the public health side of the work some alteration and re-arrangement has become necessary in the original plans for the additions. The appointment of a new director has also resulted in a desire for certain internal changes in the plans, and these have now been incorporated in the scheme under consideration.
- 20. From its inspection of the present School and the evidence obtained the Committee is convinced that there is an urg at necessity for the extensions, and that the work on problems of immediate importance so the public will be hampered and delayed unless additional accommodation is made available at an early date.
- 21. On the tropical medicine side of the institution's work a large veriety of problems is being dealt with, and the School is a recognised authority for tuition and instruction in all phases of tropical medicine and hygiene. Research is also carried out in this

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sphere by staff at the School, as well'ss by officers visiting various localities where the problems have to be investigated, and a very valuable work is proceeding.

- At the present time special importance is being given to problems of public health and industrial hygiene, and the evidence shows that a great deal of research is being conducted into curstions connected with industrial discuss, design of inquitrial buildings, and local and general public health problems, while a special section has recently been established to investigate urgent problems of child health at present affecting the community.
- 23. The Committee was impressed with the importance of dury ney of the work, and recognises that the development of the institute along lines emphasizing industrial hygithe and child health problems is most satisfactory and essential at the present time. It also appreciates the value of the wider, national questions on the tropical medicine side, already producing results of importance to Australia, and it is of opinion that this aspect of the work should not be alleded to recede, while ample accommodation for such activities should be preserved in the building activities now envisaged.

ALTERED REQUIREMENTS.

- 24. One of the main factors affecting the Committee's comparison of the present proposal with the original one we the extent to which the original plans differed from those under scrutiny, and evidence was sou at on this aspect of the metter.
- 15. The alterations to the original plan comprised three main groups the provision of the items suggested in the Committee's last report, elteration of the form of construction to conserve tricks; and re-arrangement of part of the present Upper Ground Floor to conform to the arrangement on the work of the School.

Committee's Previous Recommendations.

as a result of the suggestions contained in the Committee's a part in 1945 provision is made in the present plans for a passenger and goods lift to be installed to serve the three fleors. It is to be located hear the stairs at the main entrance and will be included in the

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third stage of the proposed schedule of construction. There was a certain amount of doubt expressed in some quarters as to the necessity for the lift, but, after further consider tion, the Committe: is of opinion that the lift should be installed, and its inclusion in the third stage should ensure that it will not be provided at a time: "An all efforts are required for the more urgent works on hand.

- 27. Additional levatory accommodation is to be built in a block attached to the "estern end of the existing building, and sufficient toilet facilities should then be available for the use of all those likely to require them.
- 28. It was suggested to the Committee that the bresk in the Eestern facade, recommended in the previous Report, should not be effected, and, after considerin, the opinions submitted, the Committee is prepared to accept the Departmental viewpoint in this regard, leaving this part of the plan as originally submitted.

Form of Construction.

The building was originally plenned to be of brick construction, but, in order to save as many brick as possible with the housing programme for the State, it is now proposed that the extensions be a steel frame structure, with only a 4½ inch common brick external skin wall, and 6 inch terracetta or concrete block internal skin wall, as well as terracetta blocks for internal partition walls. It was shown that this call, in construction would save approximately 350,000 bricks, and the houser of bricks still required under the new plans would only be so licing to build about 4½ average cottages.

Internal Re-arrangement.

30. The amendments rendered necessary by the recent developm ats in the School's activities consist mainly of the retention and extension of the present lecture room, instead of locating it in the new wing as previously intended, alteration of the position and size of the museum; and provision of a number of individual rooms in the space saved by the re-arrangement, thus making it possible to give accommodation to staff required for the special work being undertaken.

31. These alterations in plans as compared with the original ones will suit the requirements of the present work and appear most desirable.

BUILDINGS.

Main Extensions.

- 32. The plans of the exterior of the building remain practically the same as those previously referred to the Committee, the dimensions of the additions being 75 feet 9 inches facing East, 154 feet. Forth frontage and 93 feet facing West, leaving a courtyerd in the centre 39 feet by 50 feet. The architecture of the new wings will be a continuation of that adopted for the present building, and the external finish will be of cement render to match the existing structure.
- 33. The present building has become grimy and neglected in appearance, but it is understood that the exterior will be renovated to conform in appearance with the new extensions. A settin frount of treatment to the bank in front of the building, at present needing attention, should present no difficulty to improvement, by means of rockeries, gardens, or some other method.

The Animal House.

The Animal House is a separate, small single-storey building at the Southern side of the present School building, and extensions to it are proposed, exactly similar to the former plans. It is 98 rest in length by 35 feet on the Eastern end and 22 feet on the leatern end. The additions comprise a complete extra floor over the present one, and they will allow the work to be carried on much more set, actorily then is possible at present. Inquiries reveal that alread some important work has to be refused owing to lack of space preventing the necessary isolation of animals concerned in the tests to be carried out on them. The materials in the present roof of this building will be used again when the new floor is audid.

STAGES OF CONSTRUCTION.

35. The original plans submitted to the Committee in the previous reservice did not provide for construction of the building in stages, but envisaged a complete contract for the whole of the extensions.

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Subsequently in view of the increasing difficult, is getting buildings of this character erected without interference with building works of higher priority, the possibility of erecting the addition in three stages was considered, and the present drawings prepared on this basis.

Stage 1.

36. The first stage consists of extension to the East of the existing three-storey building, and a section of the forthern ring of the same height; additional floor to the Animal House; and provision of K-Ray room in the existing building; alterations to rooms to provide new laboratories, minor alterations of Jim...om and toilets, offices, etc. This stage will give much needed additional laboratory accommodation, library and book stacks.

Stage 2.

37. This stage comprises the remainder of the three-storey Northern wing together with the Western three-storey wing. These extensions include storage space, additional laboratories, including air-conditioning Test Room etc., Museum, Offices, subsidiary Lecture Room, the new main stair and the parking area.

Stage 2A.

38. This stage comprises erection of two floors of 1.v tory block on the Western end of the existing building, extendion of the existing Lecture Room to provide additional scating accountdition, transfer of the old Museum to the new area, and subdivision of the old museum for offices.

Stage 3.

39. Stage three includes the construction of an additional floor above the rear, two-storey portion of the existing dulling, raising this section to the height of the remainder of the Luilling. It also includes an additional floor to the lawstory block, extension of the existing rear fire stair, and installation of the lint.

Method of Construction.

40. Although the plans were drawn with the intention of submitting only the first stage for immediate construction, farther consideration and discussion with the Director, in the light of and

problems to be dealt with, forced the conclusion that it would be advisable that Stages 1, 2 and 2A should be carried out under the one contract. The reasons given for this conclusion were that such a procedure would reduce the cost of erection as against individual stages and separate contracts; it would assist in ecuring of materials, particularly from overseas, as the contractor would be enabled to place advance orders; and it would simplify drawing required, supervision and co-ordination of services.

41. The Committee gave a good deal of consideration to this aspect of the inquiry, realising that the advisability of constructing the building must be balanced against the necessity for housing and other ungent works. As a result of its study of the whole of the evidence the Committee recommends that Stages 1, 2 and 2A should be constructed, with only Stage 3 of the schedule delayed for further contract. The estimated cost of these Stages totals £141,312.

THE HOUSING PROGRAMME.

- Special attention was given to the possibility of competition for materials and labour causing serious interference with home building within the State, and evidence was sought concerning the materials to be used and the type of labour which tould be absorbed during construction of these extensions. The Departmental evidence showed that every effort had been made to use materials which are not in normal demand for house construction. A very considerable saving has been effected in the use of bricks by changing the type of construction to a steel frame building, and the amount of bricks now required for the work is stated to be only equal to the number required to build 4% normal cottages.
- 43. Most of the other materials to be used heve been selected from items which are not in particularly short supply, and generally of a type not usually required in housing construction.
- 44. It was admitted that a certain amount of labour would inevitably be drawn from that available for general use, but it was pointed out that most of the labour was of a skilled type, used in the construction of large structures and not available for house

building. In addition, it is confidently expected that tenders will be obtained for the erection of the building from contractors for this type of building, whose staff would not normally be used on anything but major works in any case.

45. "The these facts in mind, and in view of the important and urgent nature of the work, the Committee is of the op'nion that it is desirable to proceed with the work, using the labour an materials suggested to reduce competition with housing to the minimum.

ESTIMATES OF COST.

- 46. Probably the most important requirement in the Committee's investigation was the necessity to obtain reasons for the very great increase in the estimated cost of the proposal as compared with the figures given for the same work when the Committee dealt with the matter five years ago.
- The evidence obtained by 'he Committee indicated a consistent 47. and rapid increase in costs during the period concerned, and, indeed, it was pointed out that costs are still rising and the figures calculated for this purpose are slready low. The Committee made searching inquiries into the various estimates made dari the region and the methods used for the purpose, and it is satisfied that separate and independent checks give confirmation of the results shown, as accurately as is possible in the present circumstance. .. It is emphasized that, even after most careful and accurate calculation. based on actual ruling costs, tender prices have been received on occasions up to 50 per cent greater than the estimate, and in extreme cases even higher. The difficulty in estimating what the building will actually cost is therefore serious, but the Cornitte was assured that the proposed work had been costed in detail, and the present estimate was as close as it is humanly possible to get it.
- 48. The following statement gives details of the estimated cost for the various stages of the proposal :-

Stage 1.

<u>Wain Building</u> :	Building £51,727 Electrical 4,266 Plumber & Drainage 3,100 Mechanical Engineer 1,100 Civil Engineer 1,394 Furniture 6,858	
	Total £68,345	
Animal House :	Building \$7,130 Electrical Plumber & Drainage Wechanical Engineer \$1,490	
	Total 29,60?	
	Total Stage 1.	£77,947
	Stage 2.	
	Building £45,936 Electrical 1,365 Plumber & Drainage Mechanical Engineer Civil Engineer 306 Furniture 2,286	
	Total £54,383	
	fotal Stage 2.	54,383
	Stage 2A.	
	Building	
	Total £8,982	
	Total Stage 2A.	8,982
	Stage 3.	
	Building £20,4£ ? Electrical 1.12. Plumber & Droinage licchanical Engineer furniture £28,529	
	Total Stage 3.	28,529
·	GRAND TOTAL	£169,841.

THE AGREEMENT.

In its previous inquiry the Committee found hat the Agreement regarding the lease of the land from the University of Sydney would expire in 1952, and it was recommended that steps should be taken to renew the lease before substantial additions were made to the building. In its present inquiry the Committee was informed that no finality had been reached regarding an extersion of the lethough the land up to the present time. Although amicable relations have existed for many years between the parties concerned in the owners. It of the building and the land, the Committee still considers renewel of the present lease as important to safeguard Common realth interests in the future, and the matter should be finalised at an early date.

SECTION IV. - SUMMARY OF CONCLUSIONS.

50. The following is a list of the recommendations made by the Committee after study of the plans and evidence:

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in Report. (1) There is an urgent necessity for the extensions. 20 (2) Development of the institute along lines emphasizing work concerned with industriel hygiene and child health problems is most satisfactory and urgently necessary at the present time, but the importance of work on the national questions of tropical medicine, already being undertaken, should not be allowed to recede. 23 (3) Materials used will not seriously affect the housing problem. 43 (4) wiost of the labour required is of a special skilled type not used extensively in housing, and the urgent nature of this work makes it desirable to proceed with the building. 45 Stages 1, 2 and 2A are recommended to be constructed, with only Stage 3 of the schedule delayed for a further contract. 41 The provision of the lift in the Third Stage as suggested is satisfactory for the purpose. 26 The Committee still regards the renewal of the present lease of the land as important. (7) 49.

> G. J. RANKIN, Chairman.

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