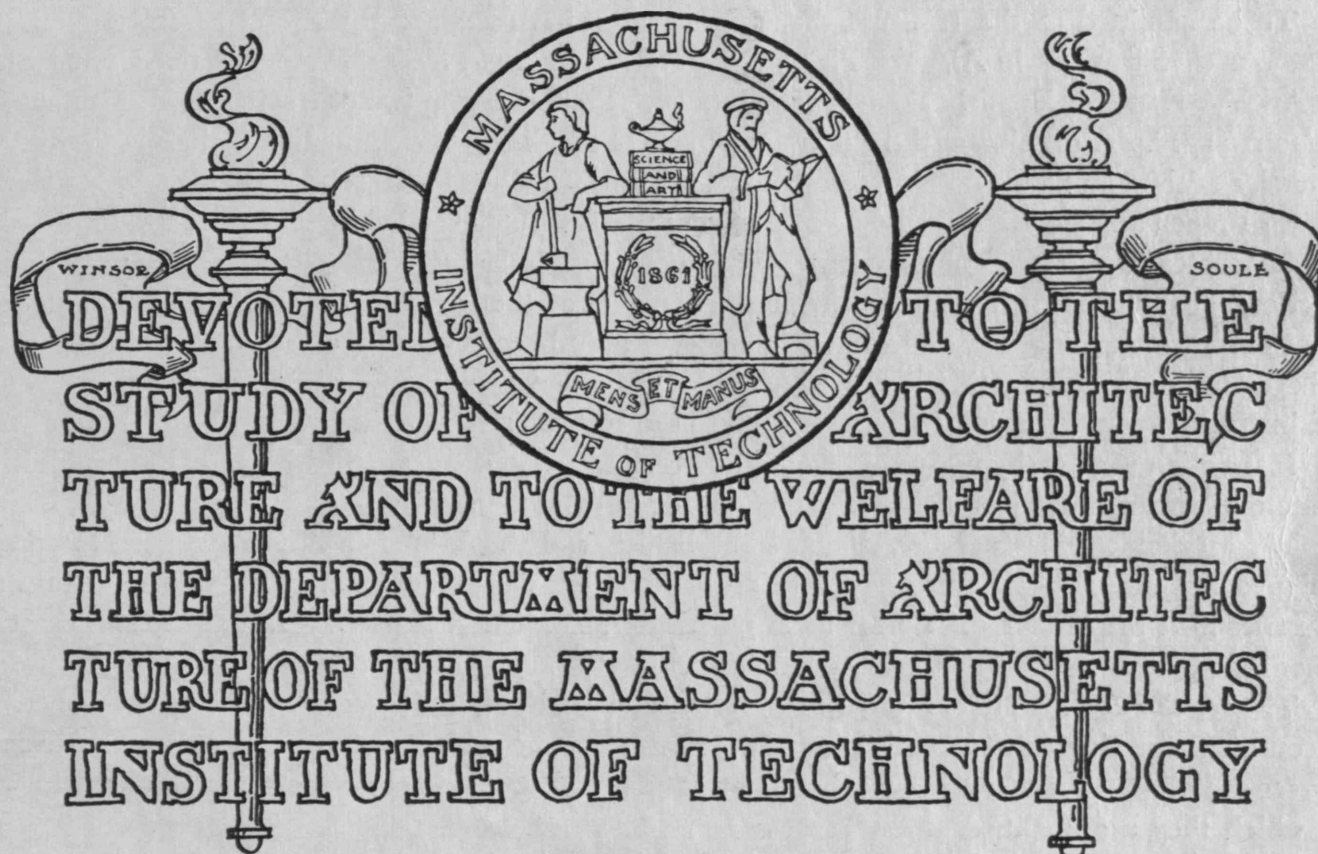


VOL 8

1915

THE TECHNOLOGY ARCHITECTURAL RECORD



PUBLISHED BY THE
DEPARTMENT OF ARCHITECTURE

THE
Massachusetts Institute of
Technology
BOSTON, MASS.

THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY aims to give thorough instruction in CIVIL, MECHANICAL, CHEMICAL, MINING, ELECTRICAL, and SANITARY ENGINEERING; in CHEMISTRY, ELECTRO-CHEMISTRY, ARCHITECTURE, PHYSICS, BIOLOGY, GEOLOGY, NAVAL ARCHITECTURE, and ENGINEERING ADMINISTRATION. The Graduate School of Engineering Research, leading to the degree of Doctor of Engineering, and the Research Laboratory of Physical Chemistry offer unusual opportunities for advanced students.

To be admitted to the Institute, the applicant must have attained the age of seventeen years, and must pass examinations in Algebra, Plane and Solid Geometry, Physics, History of the United States (or Ancient History), English, French, and German. Preparation in two of a series of elective subjects is also required. A division of these examinations between different examination periods is allowed. In general, a faithful student who has passed creditably through a good high school, having two years' study of both French and German, should be able to pass the Institute examinations.

Graduates of colleges, and in general all applicants presenting certificates representing work done at other colleges equivalent to that required in the first year at the Institute, or more, are excused from the usual entrance examinations and from any subjects already satisfactorily completed. Records of the College Entrance Examination Board, which holds examinations at many points throughout the country and in Europe, are also accepted for admission to the Institute.

Instruction is given by means of lectures and recitations, in connection with appropriate work in the laboratory, drawing-room, or field. To this end extensive laboratories of Chemistry, Physics, Biology, Mining, Mechanical Engineering, Applied Mechanics, and the Mechanic Arts have been thoroughly equipped, and unusual opportunities for field-work and for the examination of existing structures and industries have been secured. So far as is practicable, instruction is given personally to small sections rather than by lectures to large bodies of students.

The regular courses are of four years' duration and lead to the degree of Bachelor of Science. In all courses the work may also be distributed over five years by students who prefer to do so. Advanced degrees are given for resident study subsequent to graduation. Special students are admitted to work for which they are qualified.

The tuition fee, not including breakage in the laboratories, is \$250 a year. In addition, \$30 to \$35 per year is required for books and drawing-materials.

For catalogues and information address

PROFESSOR ALLYNE L. MERRILL, *Secretary,*
491 Boylston Street, Boston.

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Holder of the Rotch Traveling Scholarship, 1908-10	
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PROFESSOR OF STEAM ENGINEERING	CHARLES F. A. CURRIER, A.M.
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HARRY W. TYLER, Ph.D. PROFESSOR OF MATHEMATICS	PROFESSOR OF TOPOGRAPHICAL ENGINEERING

DEPARTMENT OF ARCHITECTURE

General Statement

The Course in Architecture. The curriculum is designed to supply the fundamental training required for the practice of architecture. The reputation of the course has been sustained by the strictest adherence to that high standard of efficiency for which the Institute of Technology is noted. It recognizes that architecture is a creative art, and requires more knowledge of liberal studies and less of pure science than the profession of the engineer. This condition has been met through specially prepared courses. Full appreciation of the value of the important study of design is shown by the fact that the instructors who have it in charge are not only highly trained men, but that they have the experience which comes from an active practice of their profession.

Advantages of Situation. The school is in the heart of the city,—a great museum of architecture,—in which one is in close touch with the work of the best architects of the day. Building-operations can be watched from beginning to end. The nearness to architects in their offices is such that they show their interest in the school through constant visits. The Museum of Fine Arts is within easy reach, where every opportunity is offered the student to make use of its splendid equipment. The Public Library offers the students the use of its choice architectural library without any annoying restrictions. The Art Club near at hand is an element of instruction, as well as other exhibitions of pictures and fine arts so generally opened to the public.

Equipment. The equipment of the Department consists of a gallery of drawings including original envois of the Prix de Rome, unequalled in this country; as fine a working library as can be desired, containing four thousand five hundred books, sixteen thousand photographs, fifteen thousand lantern-slides, and prints and casts of great value.

Four-Year Course. The regular course leading to the degree of Bachelor of Science is of four years' duration. It includes two Options,—one designed for those to whom the esthetic side of Architecture makes the strongest appeal; the other designed for those who prefer the Engineering branches of their profession. The two Options run very nearly parallel for the first two years, and each embraces the fundamentals essential to the education of all architects. At the beginning of the third year the line of demarcation becomes more marked, and in the fourth year it is very sharply defined; but general subjects common to both Options continue through the four years, and emphasize the close relation between the two and the interdependence of one upon the other in a complete architectural equipment.

General Architecture, Option I, lays its greatest stress upon Design and Art, with only enough training in Engineering to enable the student to understand the structural necessities of his design and to discuss intelligently the general engineering phases of his practice.

Architectural Engineering, Option II, lays its greatest stress upon Structural Design and Engineering, but includes enough training in General Architecture and Art to put the student into full sympathy with the ideals of his profession.

Graduate Courses. Opportunities are offered in each Option for a further year of advanced professional work leading to the degree of Master of Science to graduates of the Institute, and to others who have had a training substantially equivalent to that given in the undergraduate course. The value of this graduate work cannot be overestimated. The good results obtained through a year's uninterrupted study of subjects essential to the highest professional success, and for which the previous four years' training has prepared the student, are in extraordinary evidence.

Summer Courses. These courses, of eight weeks' duration, in second and third year Design and in Shades and Shadows, are open to students from other colleges, and to special students who have the required preparation and who desire to anticipate a portion of the professional work of the regular school year.

College Graduates. Students who have completed a college course before entering the Department will have covered much of the general work required and can usually obtain the degree of the Institute in two years and a summer course. College students who propose to enter the Department are advised to communicate with the Secretary of the Institute in order that in the arrangement of their college courses they may anticipate as far as possible the Institute requirements.

Special Students. Applicants must be college graduates or twenty-one years of age with not less than two years of experience in an architect's office or some equivalent and satisfactory preparation. They must give evidence of this preparation through personal conference, letters from former employers, and by the presentation of drawings covering their experience. They must pass the entrance examinations in English and Ancient History, or give other satisfactory evidence of their preparation in these subjects. They must take in their first year of residence the courses in Descriptive Geometry and Mechanical Drawing, unless these subjects have been passed at the September examinations for advanced standing or excuse from one or both has been obtained on the basis of equivalent work accomplished elsewhere. Entrance to these courses must be approved by the Department of Drawing, and satisfactory records must be obtained in order to continue architectural subjects. All special students must also register for second-year Freehand Drawing. The first week of this course will be considered a test period to determine the standing of the student. In general, special students in Option I will be expected to take, in addition to the subjects already mentioned, courses in Design, Shades and Shadows, Perspective, Applied Perspective, Archi-

tectural History, History of European Civilization and Art, and Philosophy of Architecture — the arrangement of subjects for each student to be approved by the Department. To become eligible for the Traveling Fellowship in Architecture a special student must obtain satisfactory records for full undergraduate requirements in all the subjects mentioned above, and a satisfactory record in graduate Design. Special students who desire

to take work in Architectural Engineering must pass or offer equivalents for entrance examinations in Mathematics and Physics, and courses in Mathematics, Physics, and Applied Mechanics required in the Option.

The Catalogue of the Institute, giving more detailed information, will be sent on application to the Secretary of the Institute, Professor A. L. Merrill.

Scholarships and Prizes

Scholarships and Fellowships. Certain funds are available for the assistance of well-qualified students for undergraduate and for postgraduate work.

Prizes. The Department offers the following annual prizes, which, with the exception of the Rotch Prizes, are awarded for competitions in Design:

Traveling Fellowship. One thousand dollars to be devoted to travel and study abroad for one year under the direction of the Department Faculty. The competition for this Fellowship is open to regular and special students who have passed two consecutive years in the school within the last three years, one of which must have been in the postgraduate class.

Student Medal of the American Institute of Architects. This medal is awarded on the recommendation of the Department to the member of the graduating class whose record for the course is the best.

Rotch Prizes. The gift of Mr. Arthur Rotch. Two prizes of two hundred dollars awarded at the end of the senior year to the regular and the special student having the best general records. The special student must have spent at least two years in residence to be eligible as a candidate.

The Boston Society of Architects' Prizes. The gift of the Society. Two prizes of fifty dollars awarded to a regular and a special student in the senior class.

The Chamberlin Prize. The gift of Mr. W. E. Chamberlin of the Class of 1877. Twenty-five dollars awarded to a student in the postgraduate class.

The F. W. Chandler Prizes. The gift of the alumni of the Department and of Professor Chandler's friends. Five prizes of ten dollars each awarded for sketch problems in the third, fourth, and postgraduate years.

The "Class of 1904" Prizes. The gift of the Class of 1904. Two prizes of ten dollars awarded to a regular and a special student in the junior class.

Architectural Society Scholarship Fund. This fund is the gift of the Architectural Society of the Institute. The income to be used for loans to such students of the Department as may be approved by the Trustees.

Graduates of the Department have special advantages:

The American Institute of Architects accepts them as candidates for membership without the examinations usually required.

The American Academy in Rome admits them to the preliminary competition for its Fellowship in Architecture.

The Rotch Traveling Scholarship Committee excuses them from the examinations preliminary to the competitions.

COURSES OF INSTRUCTION

OPTION I. ARCHITECTURE

FIRST YEAR

First Term

Chemistry
Descriptive Geometry
English
Freehand Drawing
French
Mathematics
Mechanical Drawing
Military Science
Physical Training
Trigonometry

Second Term

Descriptive Geometry
English
Freehand Drawing
French
History
Mathematics
Mechanical Drawing
Military Science
Perspective
Physical Training

SECOND YEAR

First Term

Applied Perspective
Design and Elements of Architecture
English Literature
European Civilization and Art
Freehand Drawing
History
Mathematics
Physics
Shades and Shadows

Second Term

Applied Perspective
Architectural History
Design and Elements of Architecture
English Literature
European Civilization and Art
Freehand Drawing
History of Ornament
Mathematics
Physics
Water Color

THIRD YEAR

First Term

Applied Mechanics
Applied Perspective
Architectural History
Design
European Civilization and Art
Freehand Drawing
General Study
Heating and Ventilation
Political Economy
Water Color

Second Term

Applied Mechanics
Applied Perspective
Architectural History
Business Law
Design
European Civilization and Art
Freehand Drawing
General Study
Specifications and Working Drawings

FOURTH YEAR

First Term

Acoustics
Architectural History
Color
Constructive Design
Design
European Civilization and Art
Life Class
Philosophy of Architecture
Professional Relations

Second Term

Constructive Design
Design (Thesis)
European Civilization and Art
Life Class
Philosophy of Architecture
Professional Relations
Sanitary Science and Public Health

OPTION II. ARCHITECTURAL ENGINEERING

FIRST YEAR

First Term

Chemistry
Descriptive Geometry
English
Freehand Drawing
French
Mathematics
Mechanical Drawing
Military Science
Physical Training
Trigonometry

Second Term

Descriptive Geometry
English
Freehand Drawing
French
History
Mathematics
Mechanical Drawing
Military Science
Perspective
Physical Training

SECOND YEAR

First Term

Design and Elements of Architecture
English Literature
European Civilization and Art
Freehand Drawing
History
Mathematics
Physics
Shades and Shadows
Surveying

Second Term

Architectural History
Design and Elements of Architecture
English Literature
European Civilization and Art
Freehand Drawing
History of Ornament
Mathematics
Physics
Sanitary Science and Public Health
Specifications and Working Drawings

THIRD YEAR

First Term

Applied Mechanics
Architectural History
Design
European Civilization and Art
General Study
Geology of Materials
Heating and Ventilation
Political Economy
Structural Drawing

Second Term

Applied Mechanics
Architectural History
Business Law
European Civilization and Art
General Study
Materials
Structural Design
Theory of Structures

FOURTH YEAR

First Term

Applied Mechanics
Architectural History
Concrete Laboratory
Electric Wiring and Lighting of Buildings
European Civilization and Art
Foundations
Philosophy of Architecture
Professional Relations
Structural Design
Testing Materials Laboratory
Theory of Structures

Second Term

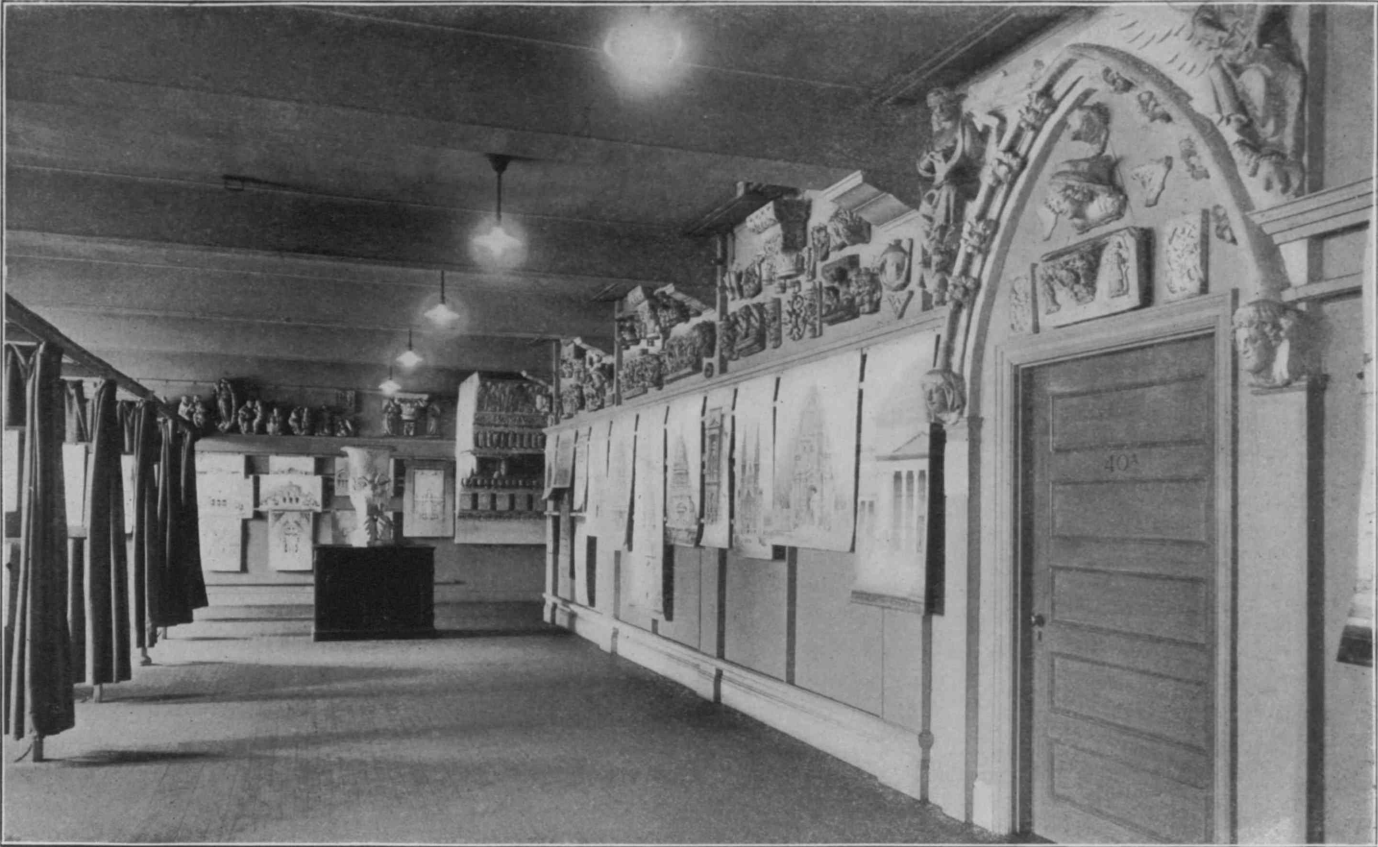
European Civilization and Art
Hydraulics
Philosophy of Architecture
Professional Relations
Steam and Mechanical Appliances for Buildings
Structural Design (Thesis)
Theory of Structures



DRAWING-ROOM OF SECOND-YEAR CLASS



DRAWING-ROOMS OF THIRD, FOURTH, AND FIFTH YEAR CLASSES



THE EXHIBITION HALL AND LOGES



LECTURE-ROOM WITH DRAWING-TABLES



THE STUDIO



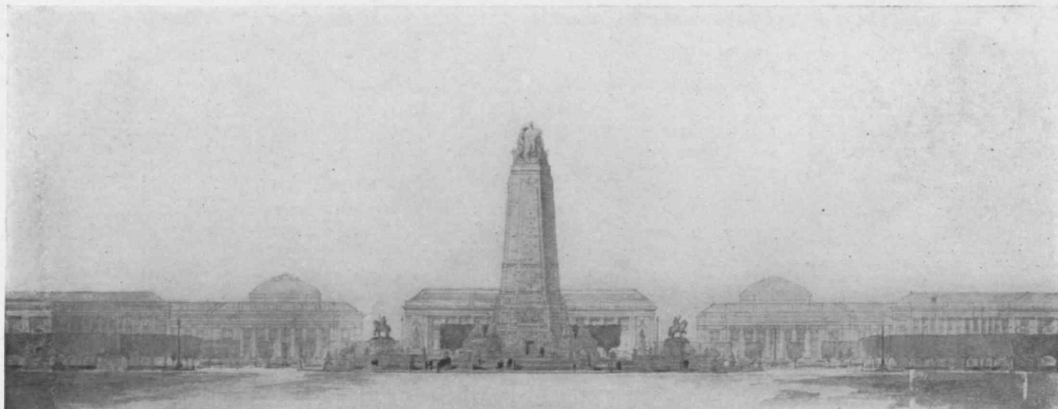
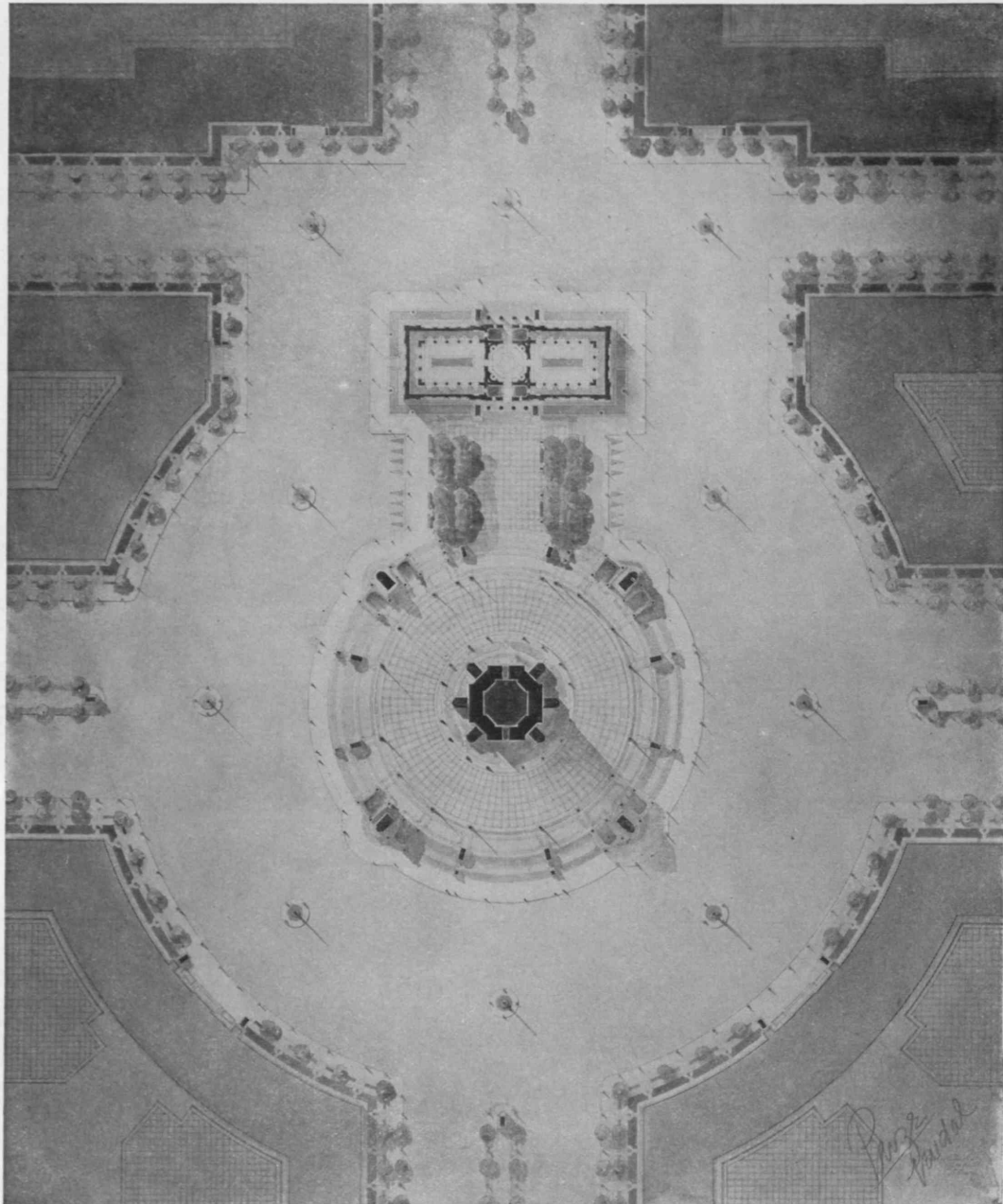
A LIFE-CLASS IN THE STUDIO



AN ALCOVE IN THE LIBRARY



AN ALCOVE IN THE LIBRARY

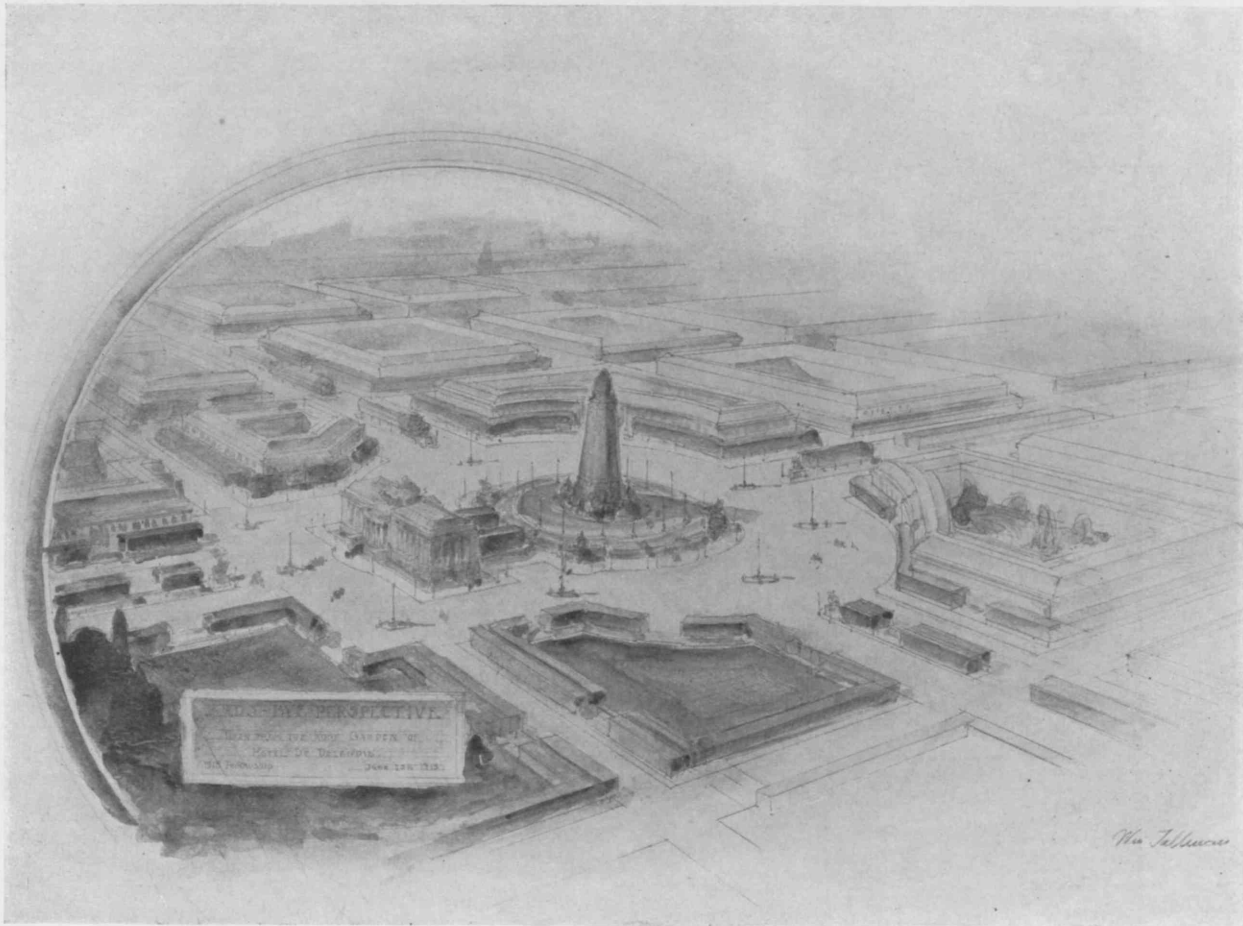


A CIVIC CENTER OF A STATE CAPITAL

WILLIAM TALLMAN

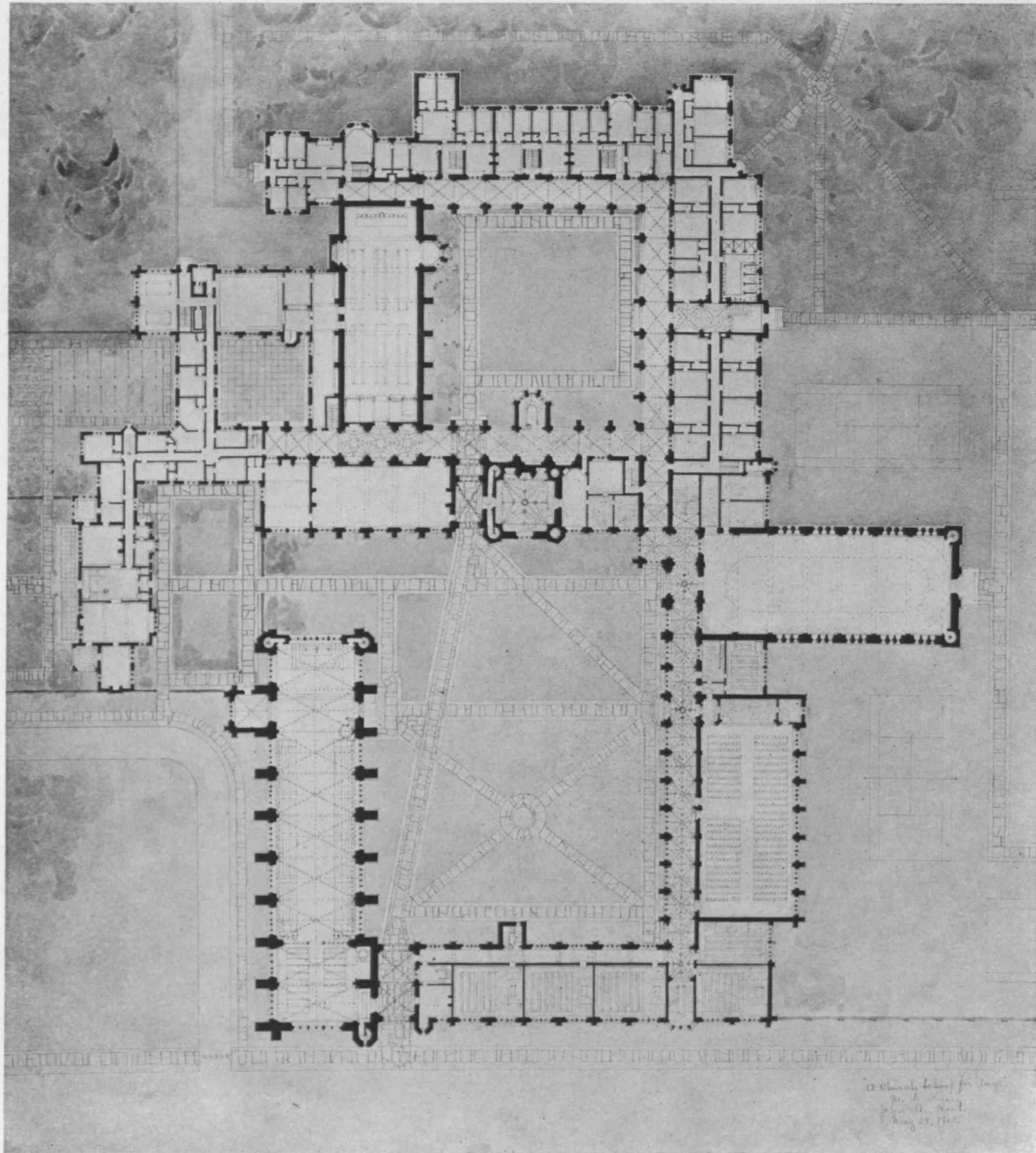
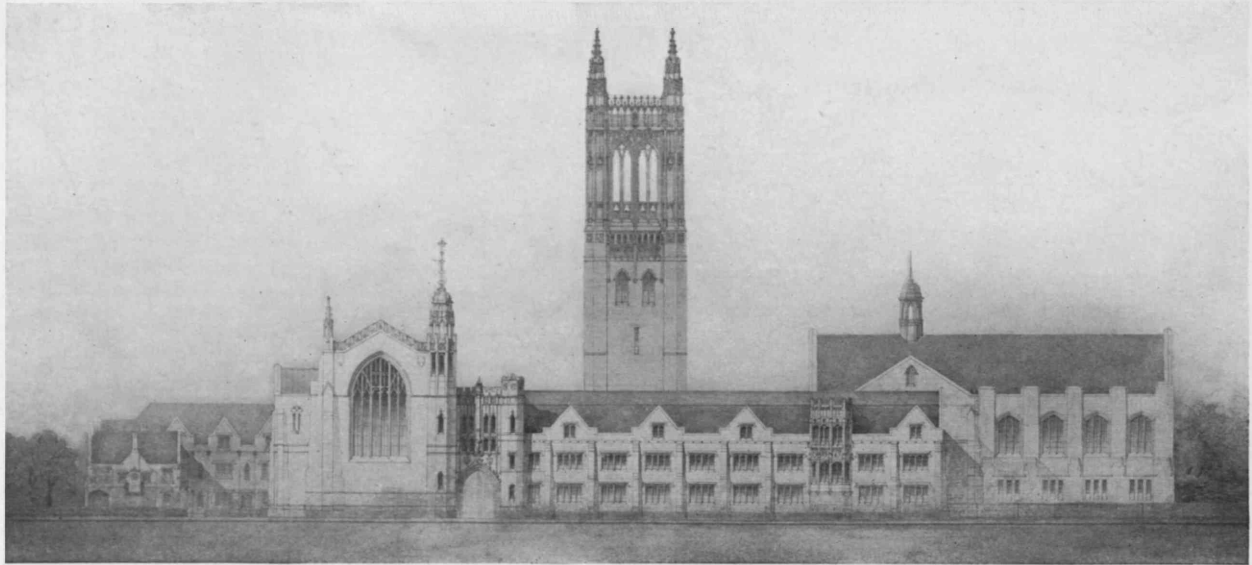
1915 TRAVELING FELLOWSHIP COMPETITION

PRIZE DESIGN



A CIVIC CENTER OF A STATE CAPITAL

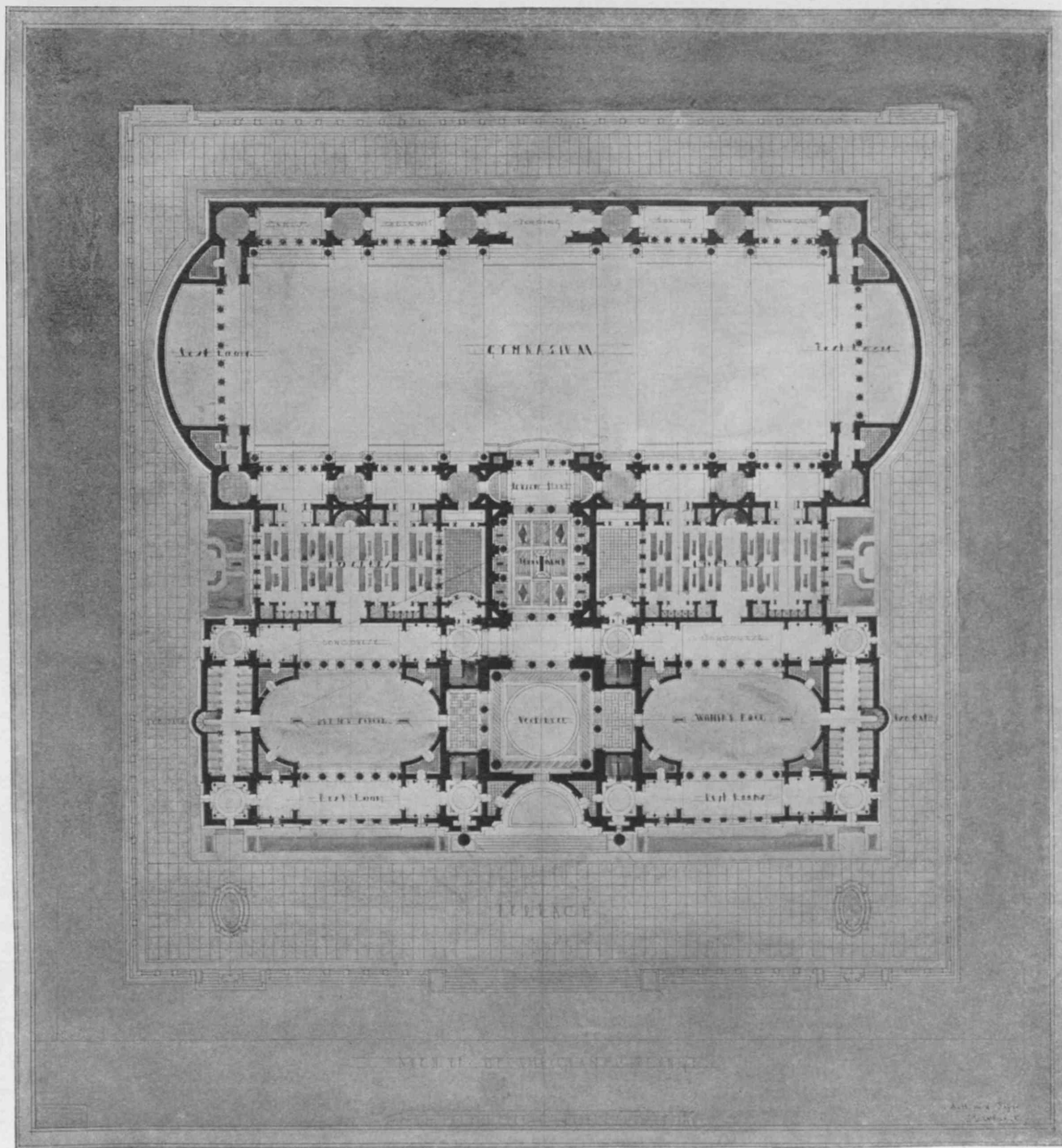
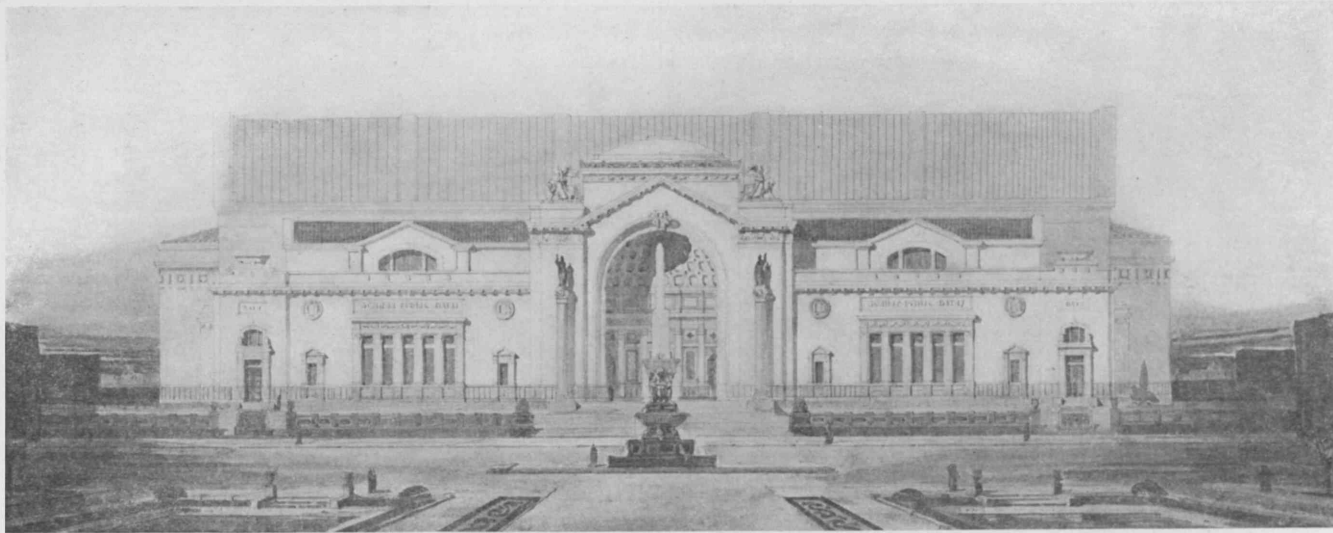
WILLIAM TALLMAN



A CHURCH SCHOOL FOR BOYS

M. S. THESIS

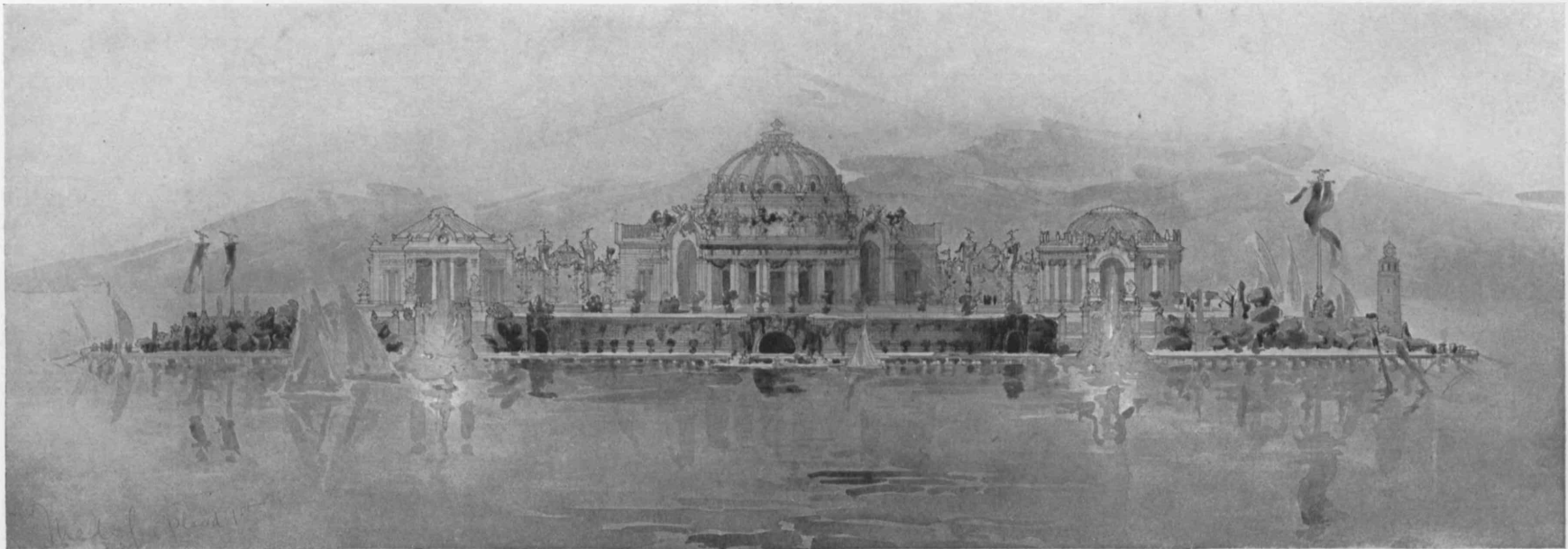
J. A. ROOT



A GYMNASIUM AND BATH ESTABLISHMENT

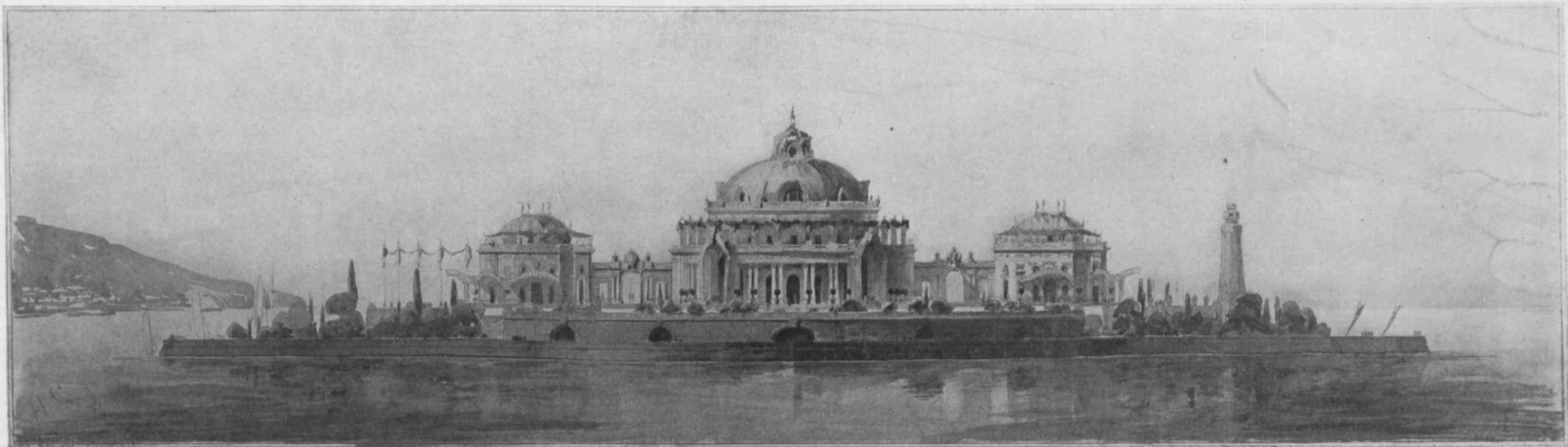
ADVANCED DESIGN. MEDAL

F. S. WHEARTY



MEDAL

J. A. ROOT

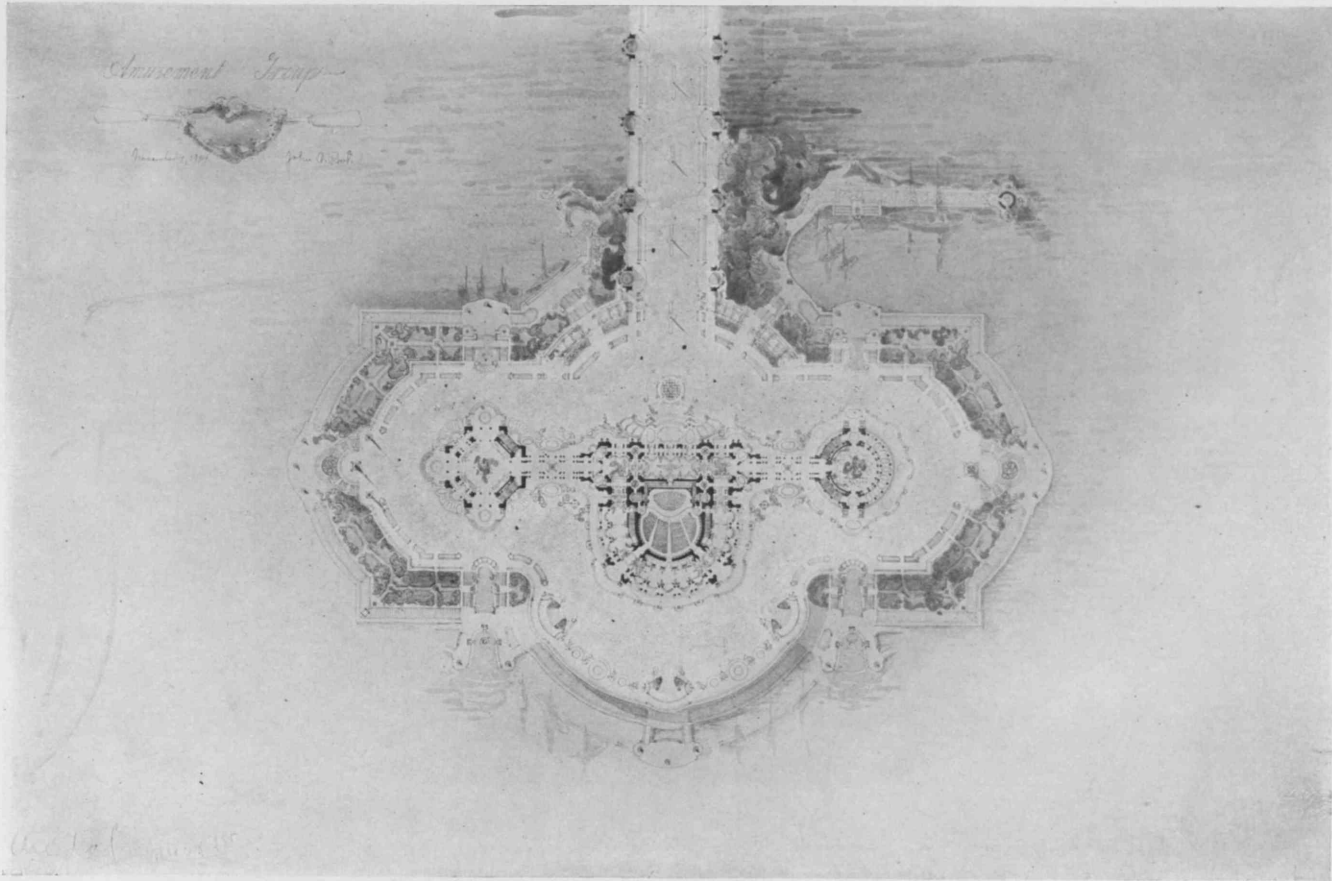


HORS CONCOURS

W. TALLMAN

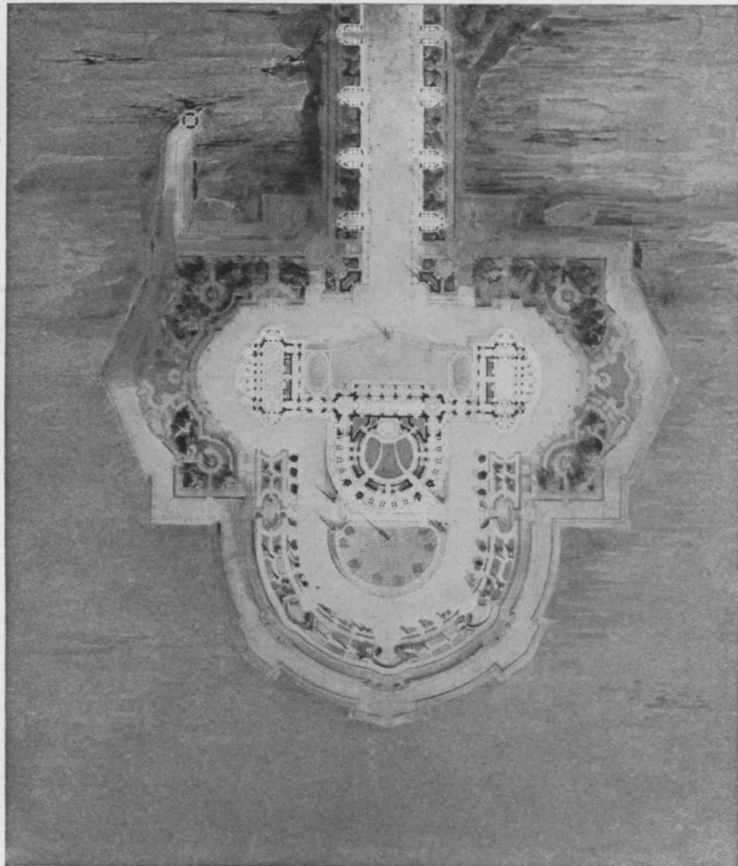
A RECREATION GROUP FOR AN ISLAND

ADVANCED DESIGN



MEDAL

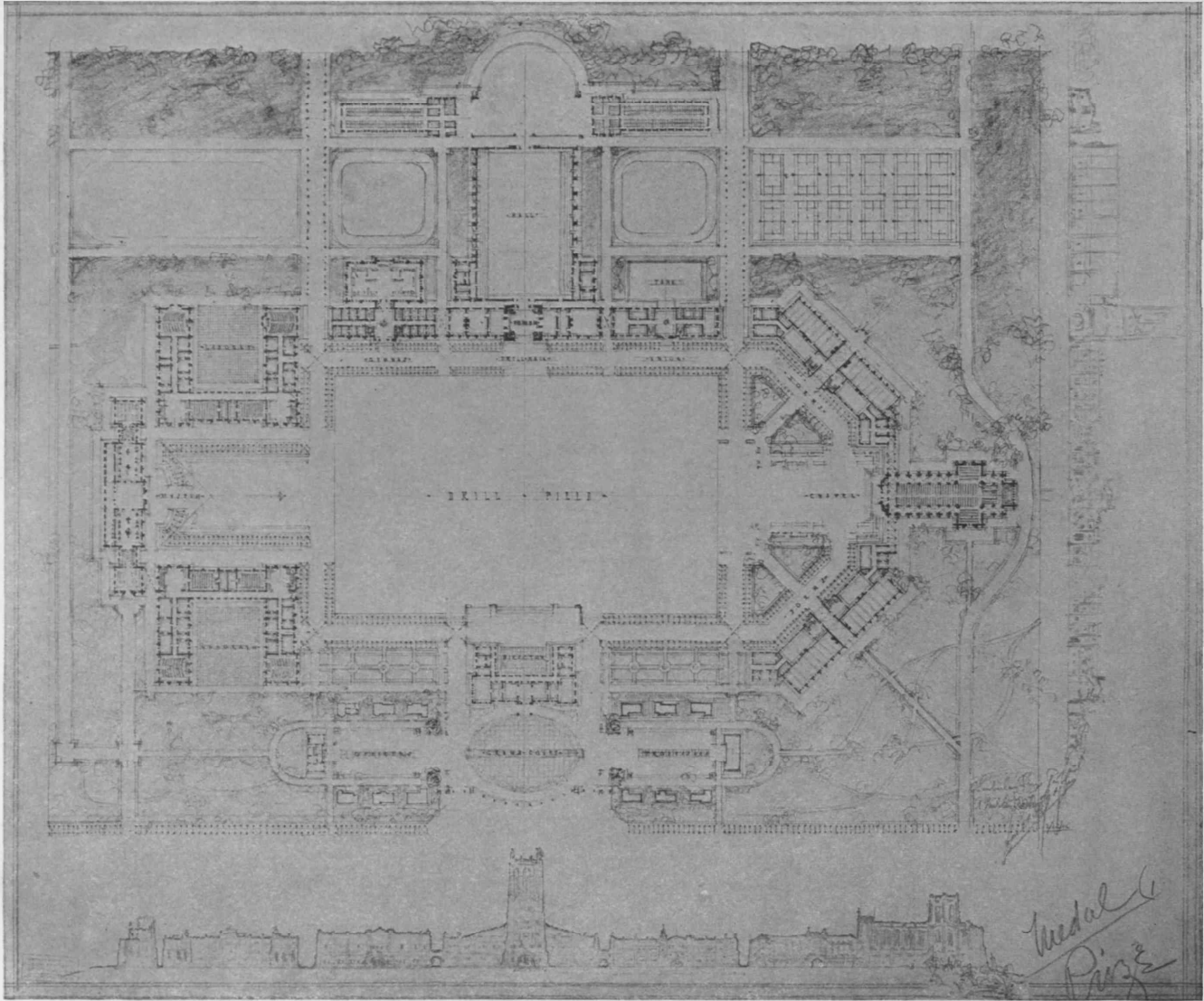
J. A. ROOT



HORS CONCOURS

W. TALLMAN

A RECREATION GROUP FOR AN ISLAND

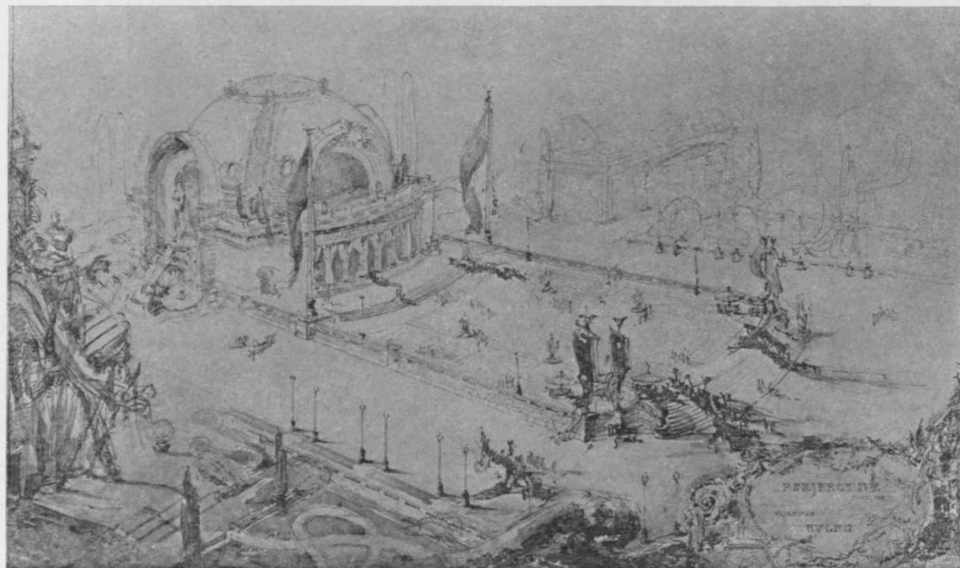


A MILITARY ACADEMY

PRIZE

D. DES GRANGES

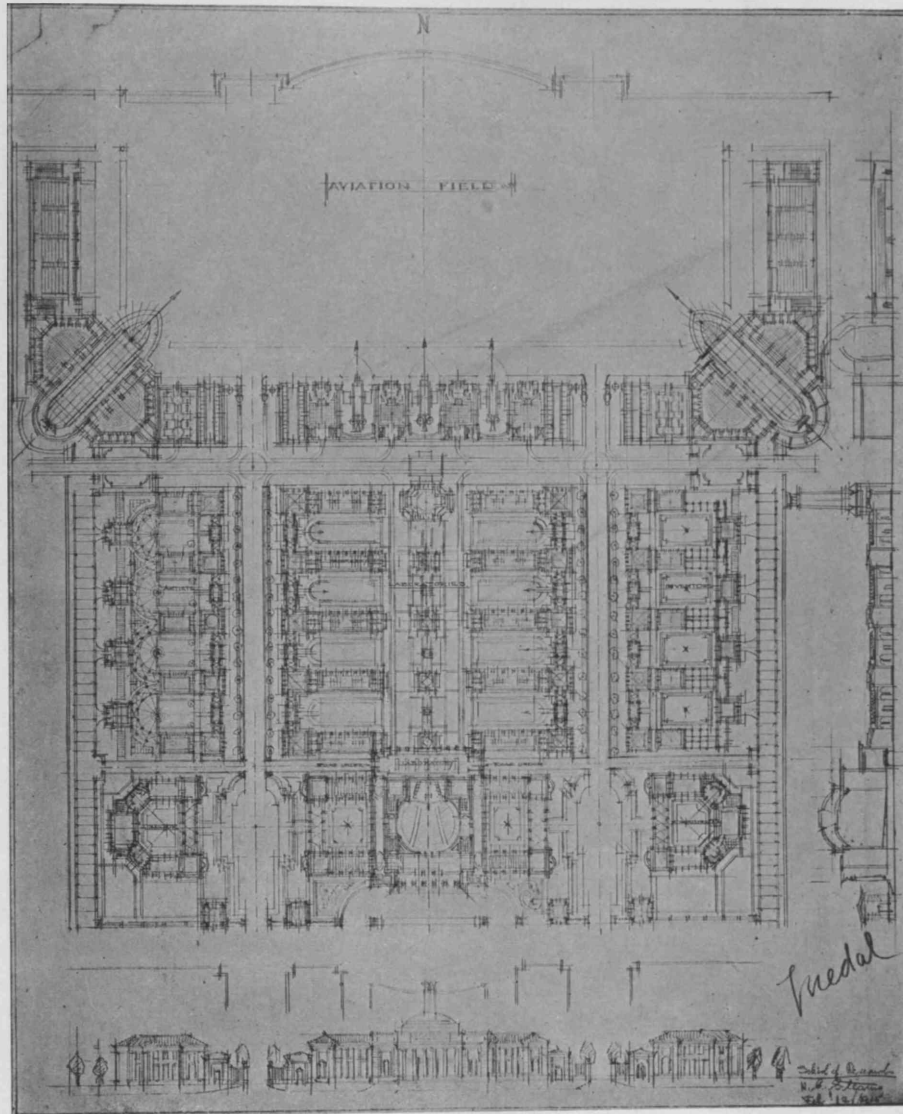
WILLIAM E. CHAMBERLIN PRIZE COMPETITION. ADVANCED DESIGN



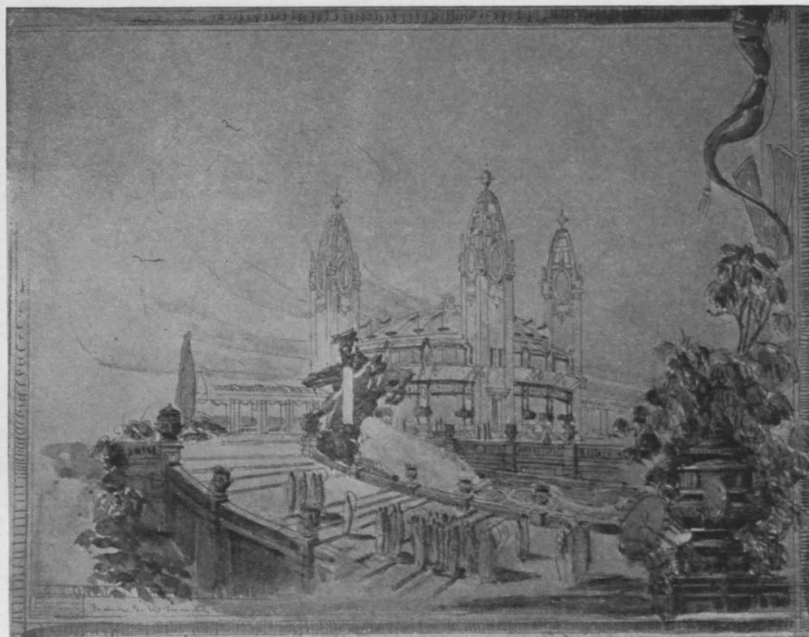
PERSPECTIVE OF MAIN BUILDING OF RECREATION GROUP

D. DES GRANGES

ADVANCED DESIGN. 12-HOUR SKETCH. MEDAL



A LABORATORY FOR RESEARCH PRIZE H. C. STEARNS
COMPETITION FOR THE F. W. CHANDLER PRIZE. ADVANCED DESIGN



PERSPECTIVE OF MAIN BUILDING OF RECREATION GROUP F. S. WHEARTY
ADVANCED DESIGN. 12-HOUR SKETCH. MEDAL



A NATIONAL PANTHEON

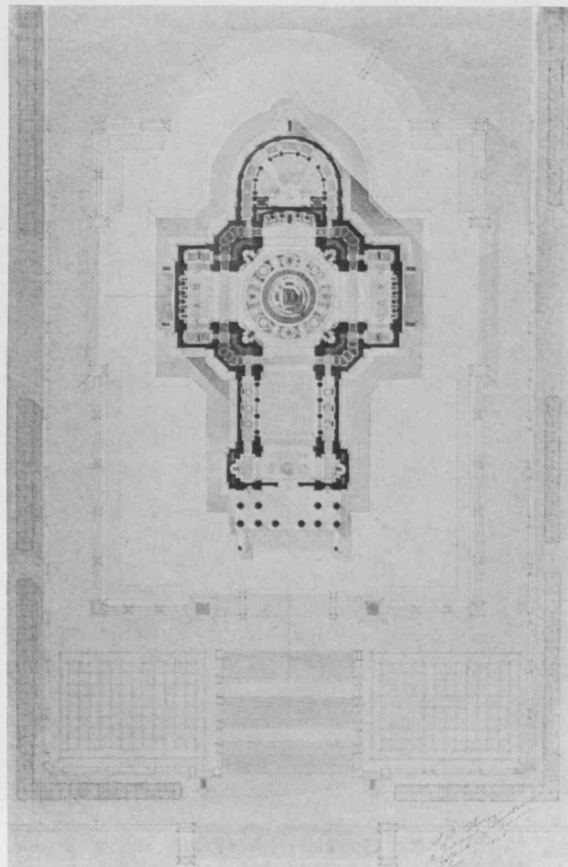
A NATIONAL PANTHEON

B. S. THESIS

R. W. BALDREY



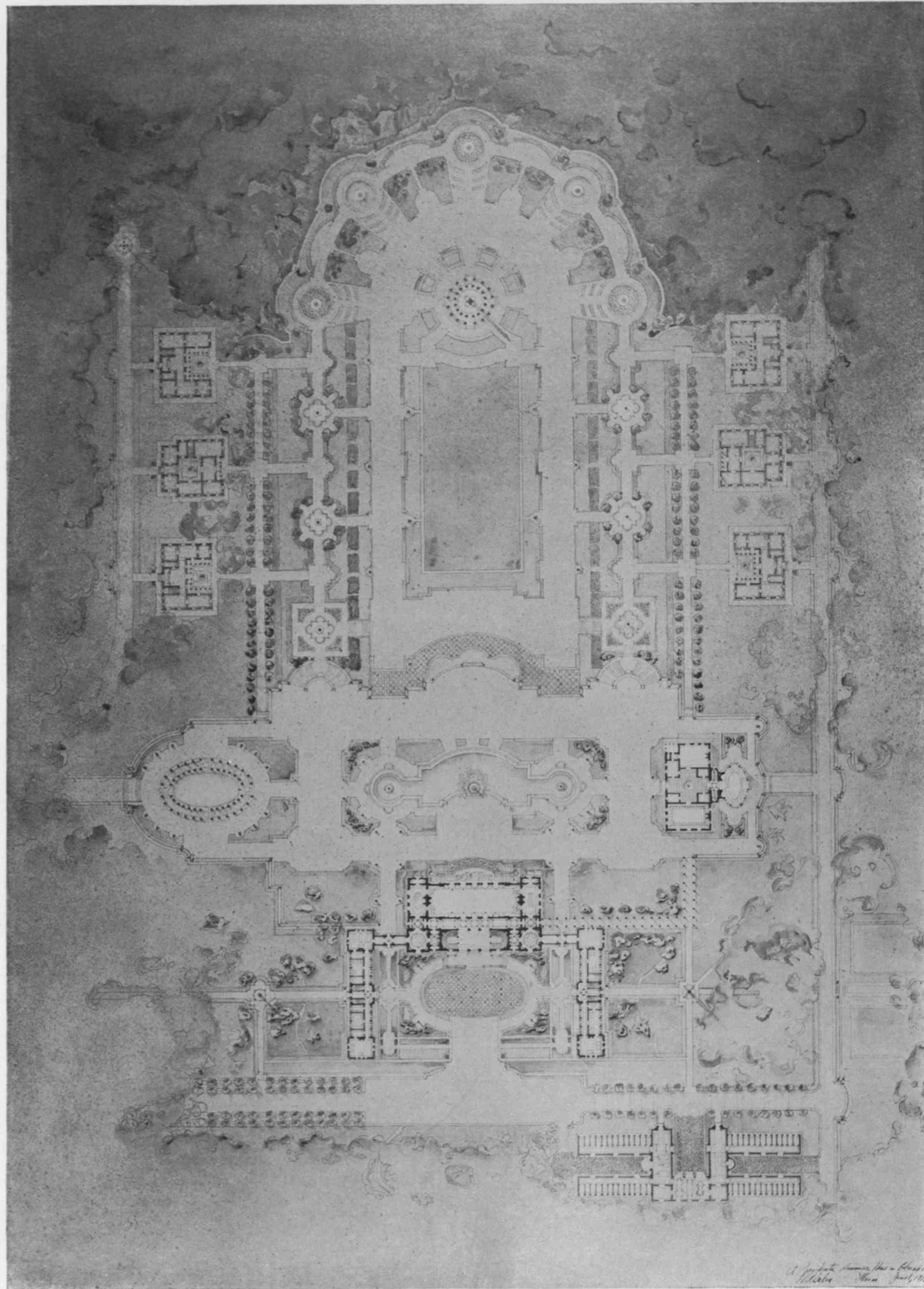
*J. B. Long
National Pantheon
R. W. Baldrey
April 1, 1911*



A NATIONAL PANTHEON

B. S. THESIS

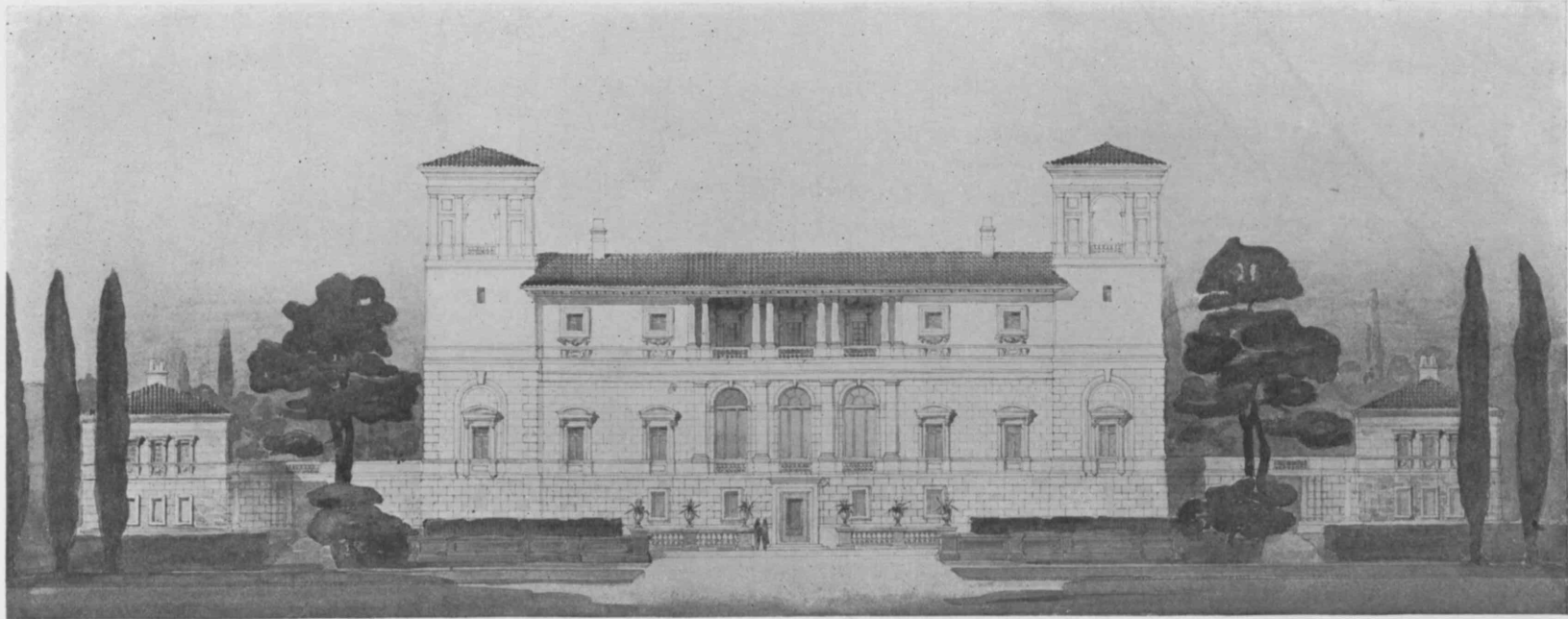
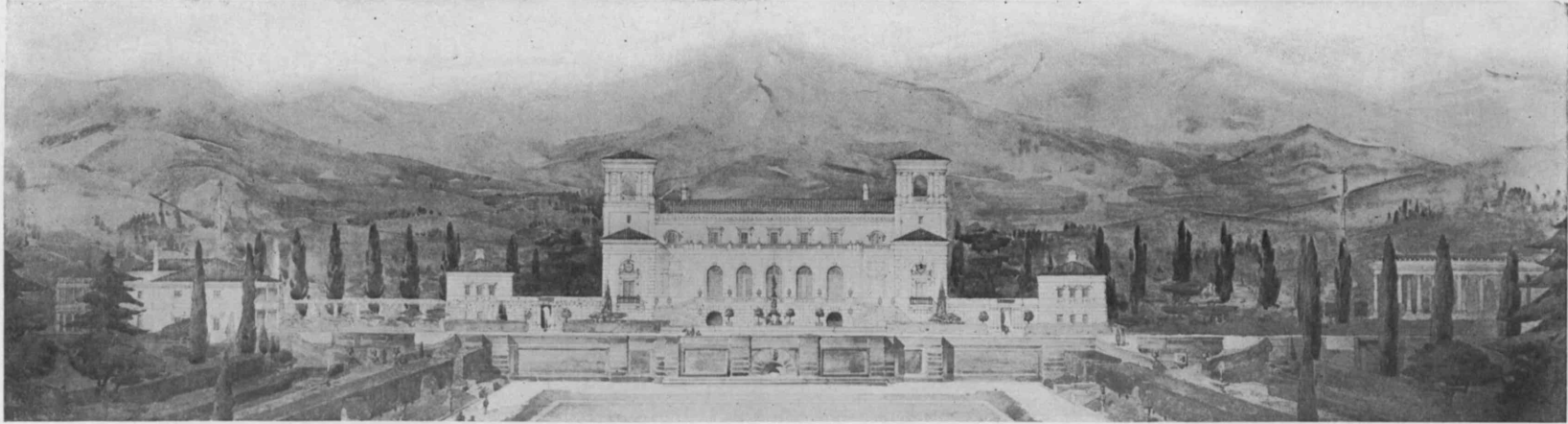
R. W. BALDREY



A SUMMER HOME FOR THE PRESIDENT OF THE UNITED STATES

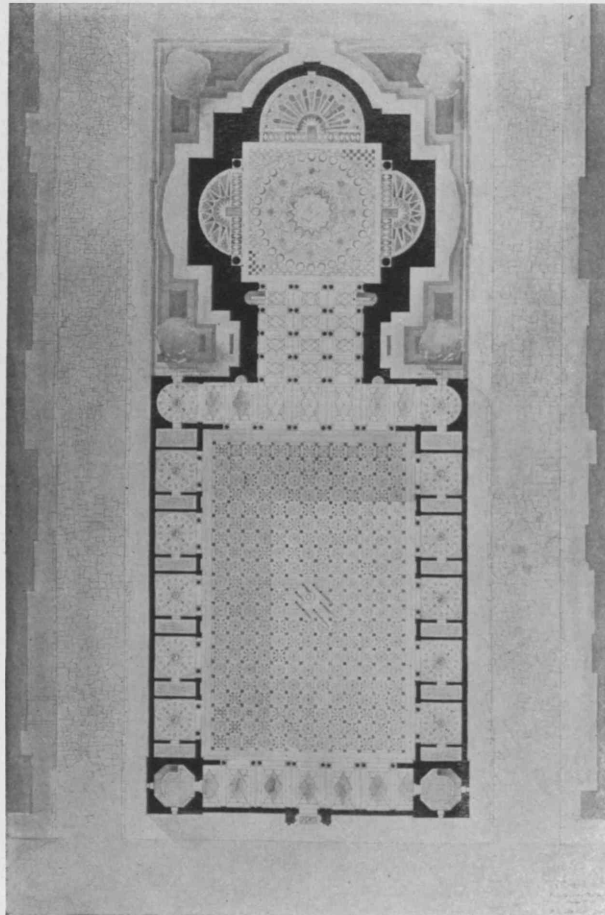
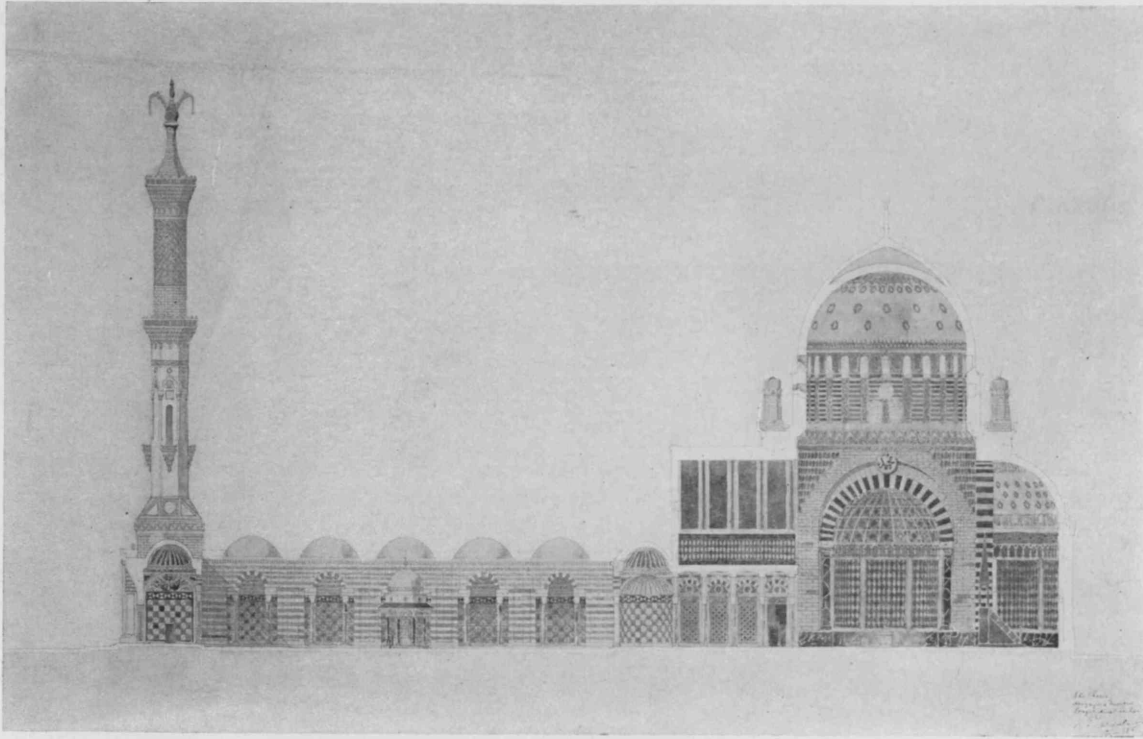
H. P. SABIN

B. S. THESIS



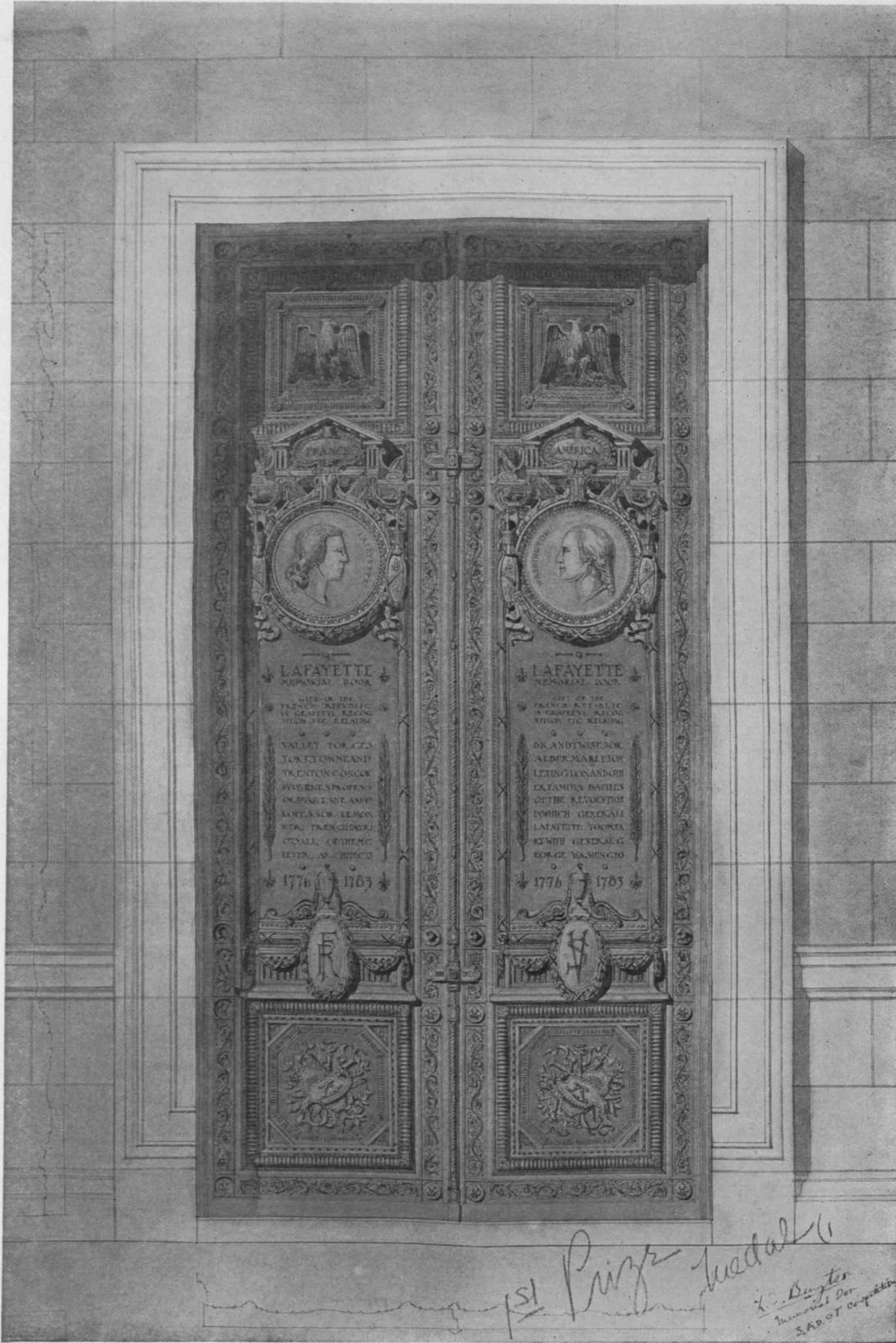
A SUMMER HOME FOR THE PRESIDENT OF THE UNITED STATES

H. P. SABIN



A MOSQUE IN THE ARABIC STYLE

B. A. ABDULNOUR



A MEMORIAL DOOR IN BRONZE

L. T. BENGTON

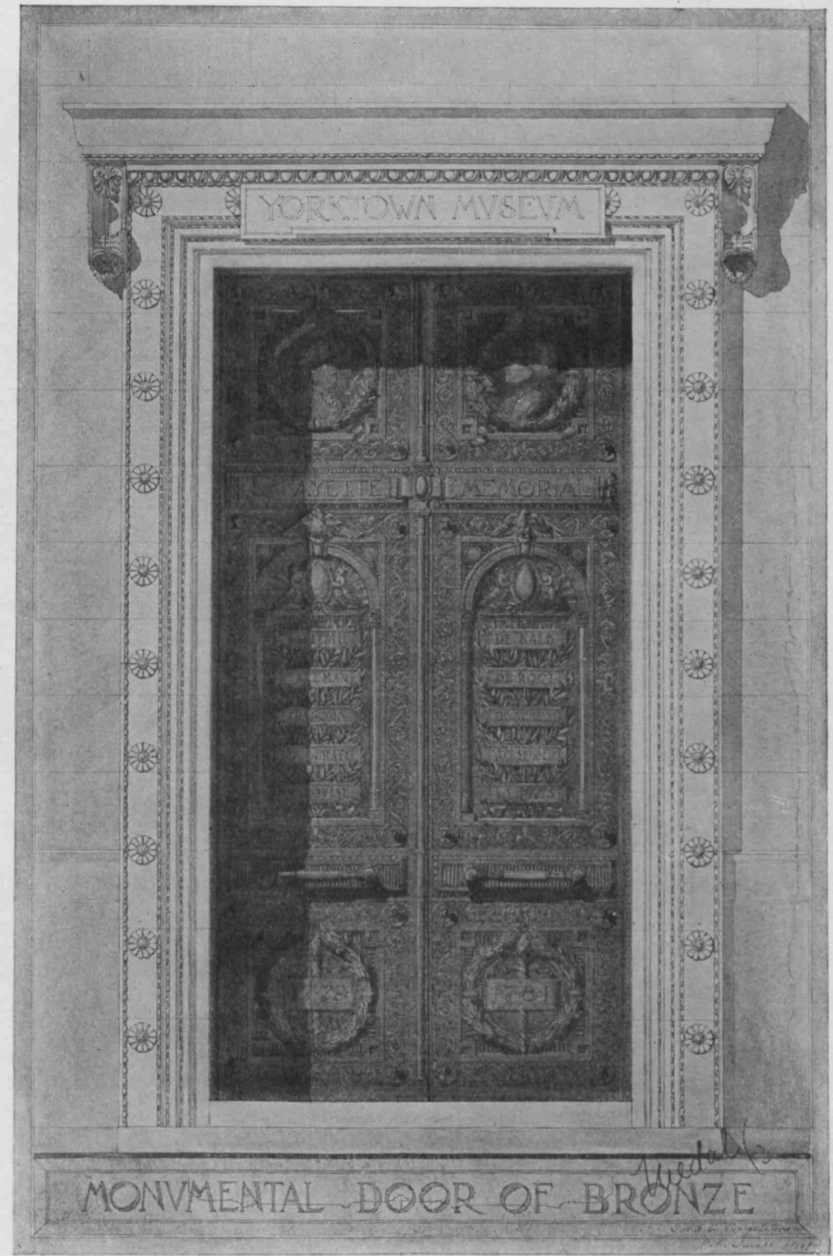
COMPETITION FOR A SPECIAL PRIZE

PRIZE DESIGN

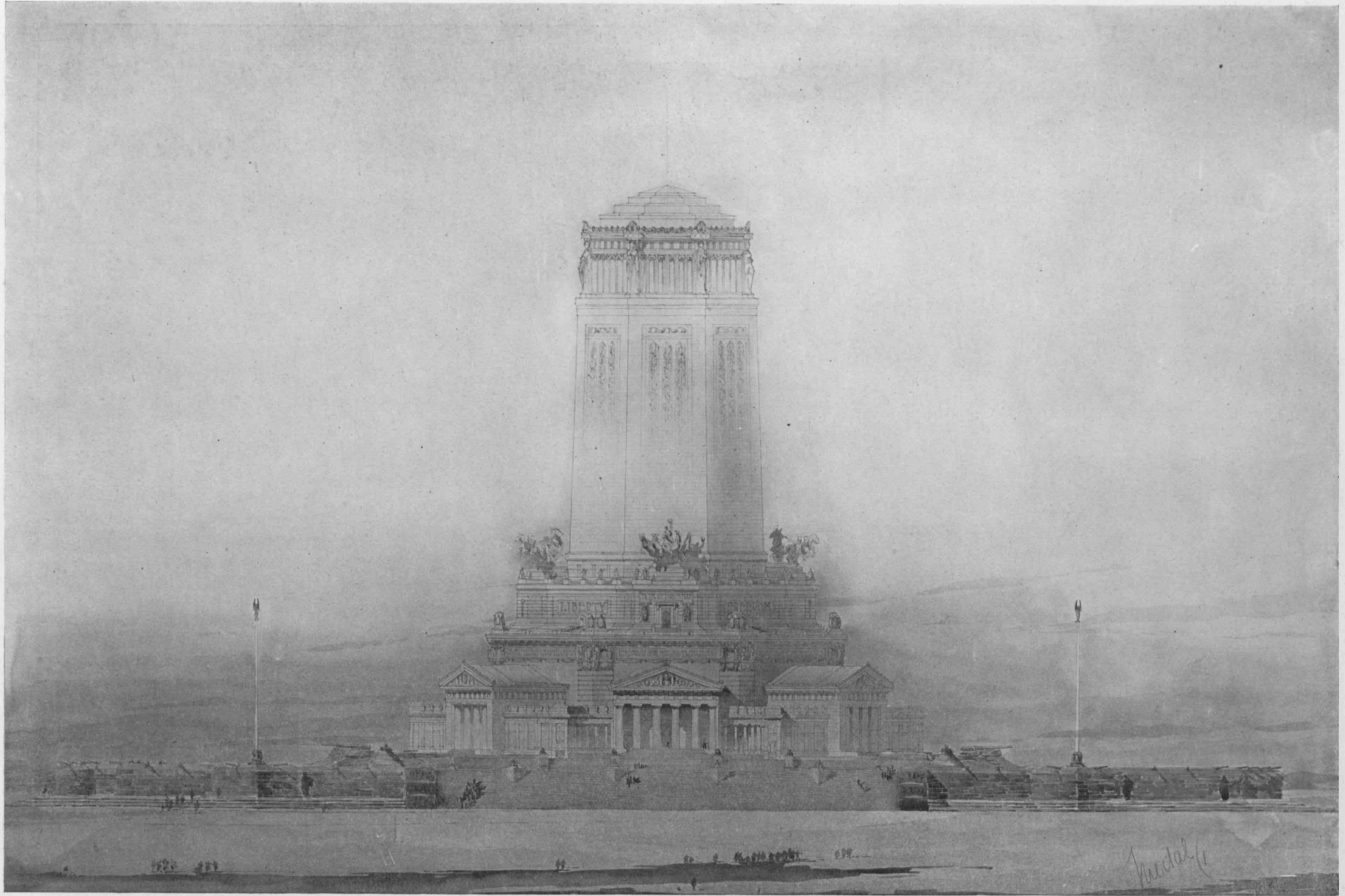


J. A. ROOT

A MEMORIAL DOOR IN BRONZE



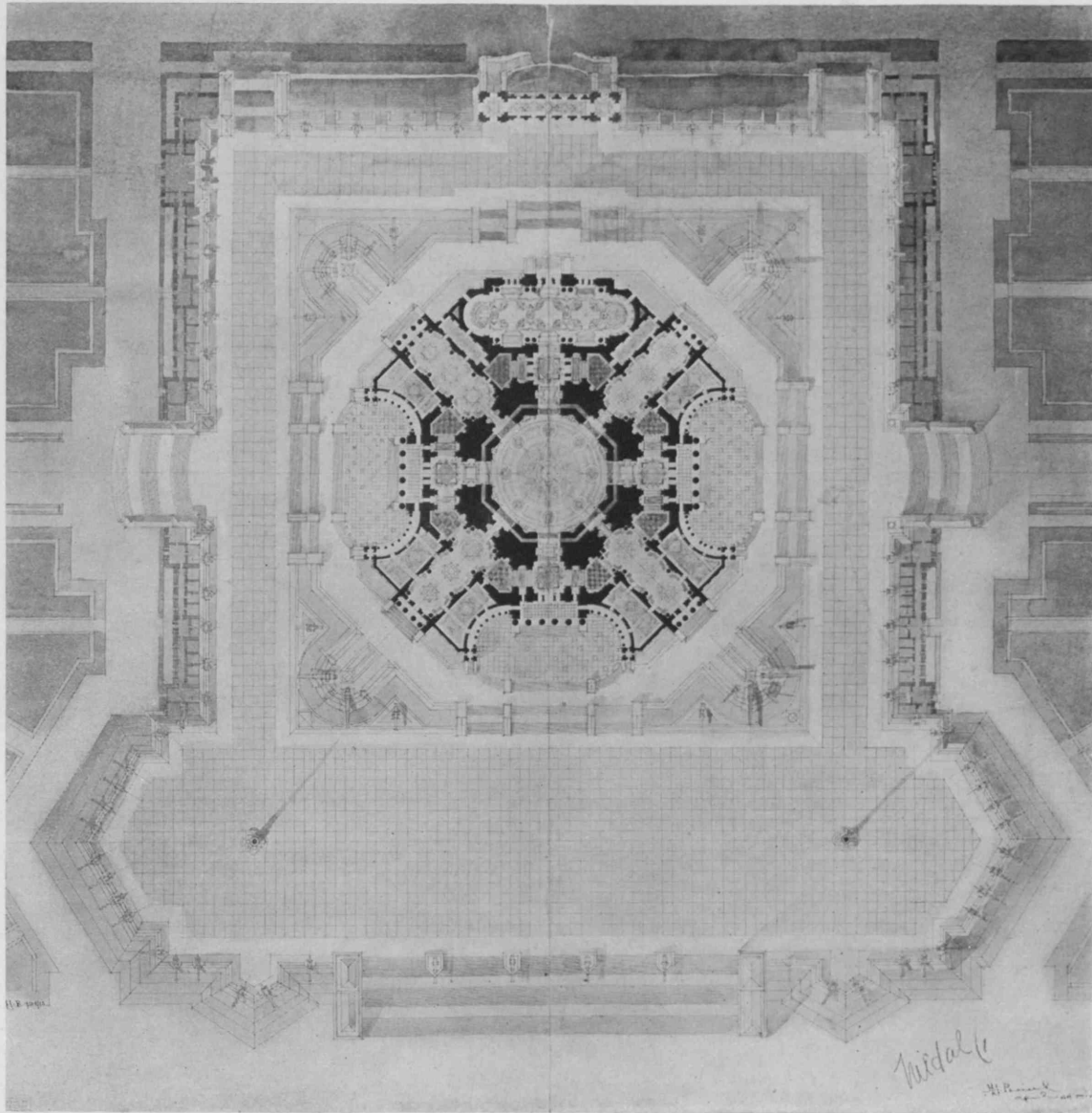
P. L. SMALL



A MEMORIAL BUILDING

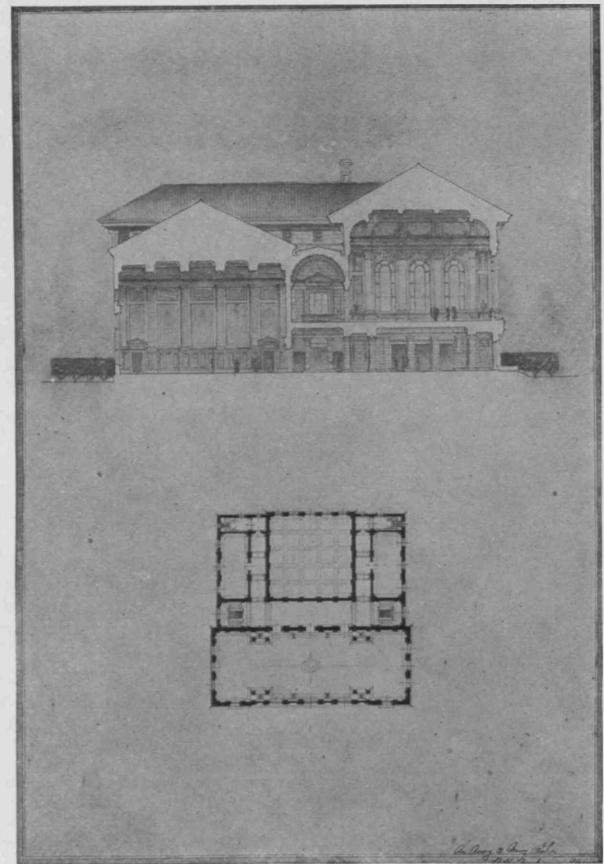
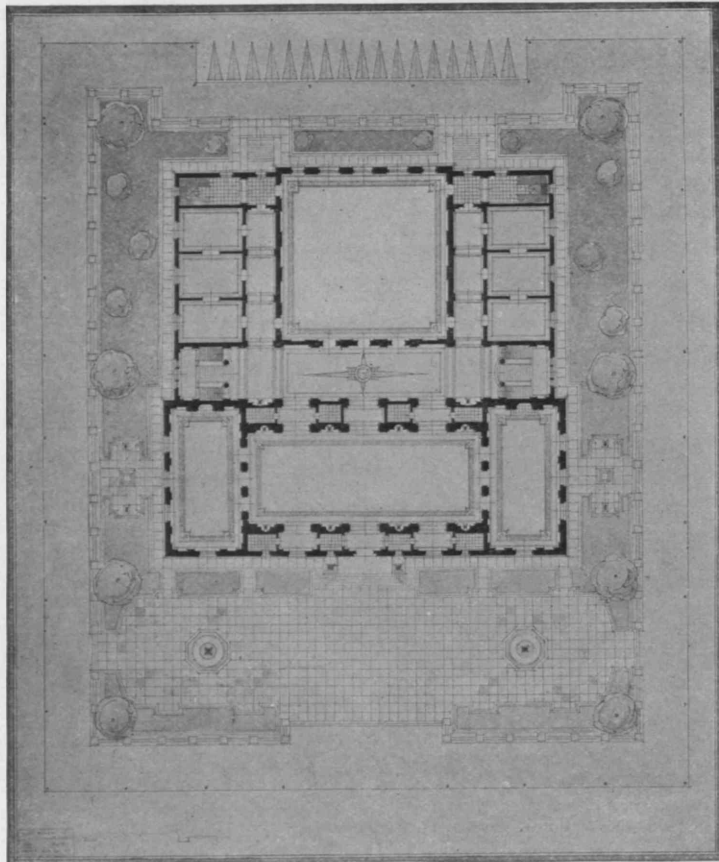
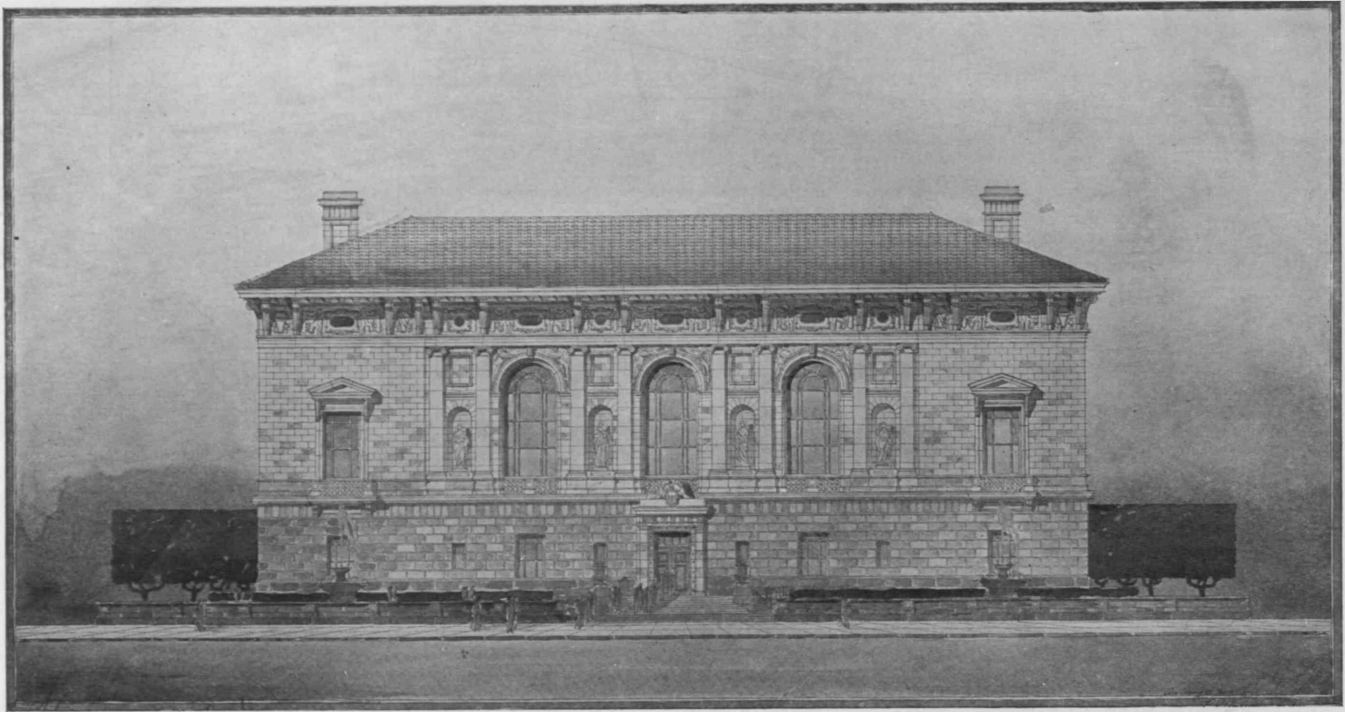
THIRD YEAR OF DESIGN. MEDAL

H. S. BEIERL



A MEMORIAL BUILDING

H. S. BEIERL



AN ARMY AND NAVY CLUB

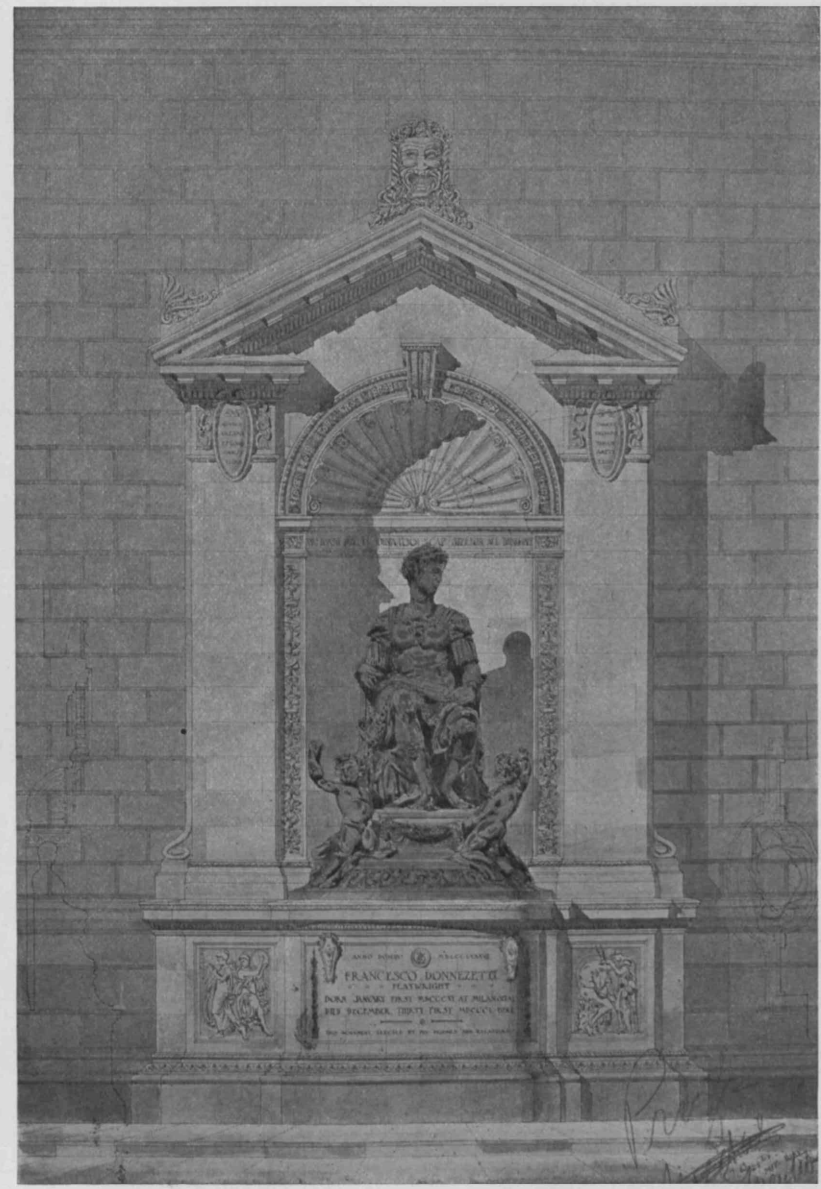
THIRD YEAR OF DESIGN. MEDAL

P. K. ANDREWS



PRIZE FOR REGULAR STUDENT

E. P. NORBERG



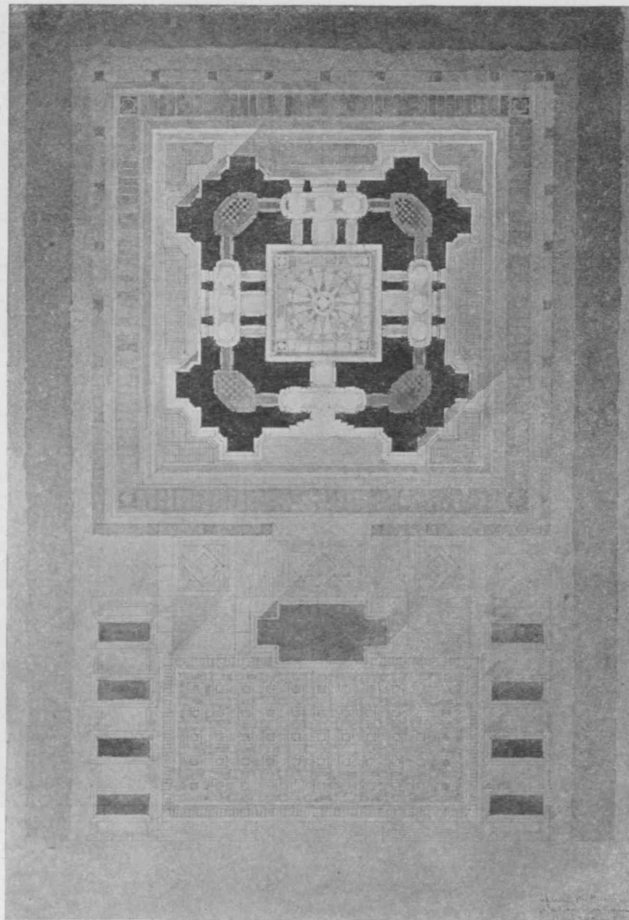
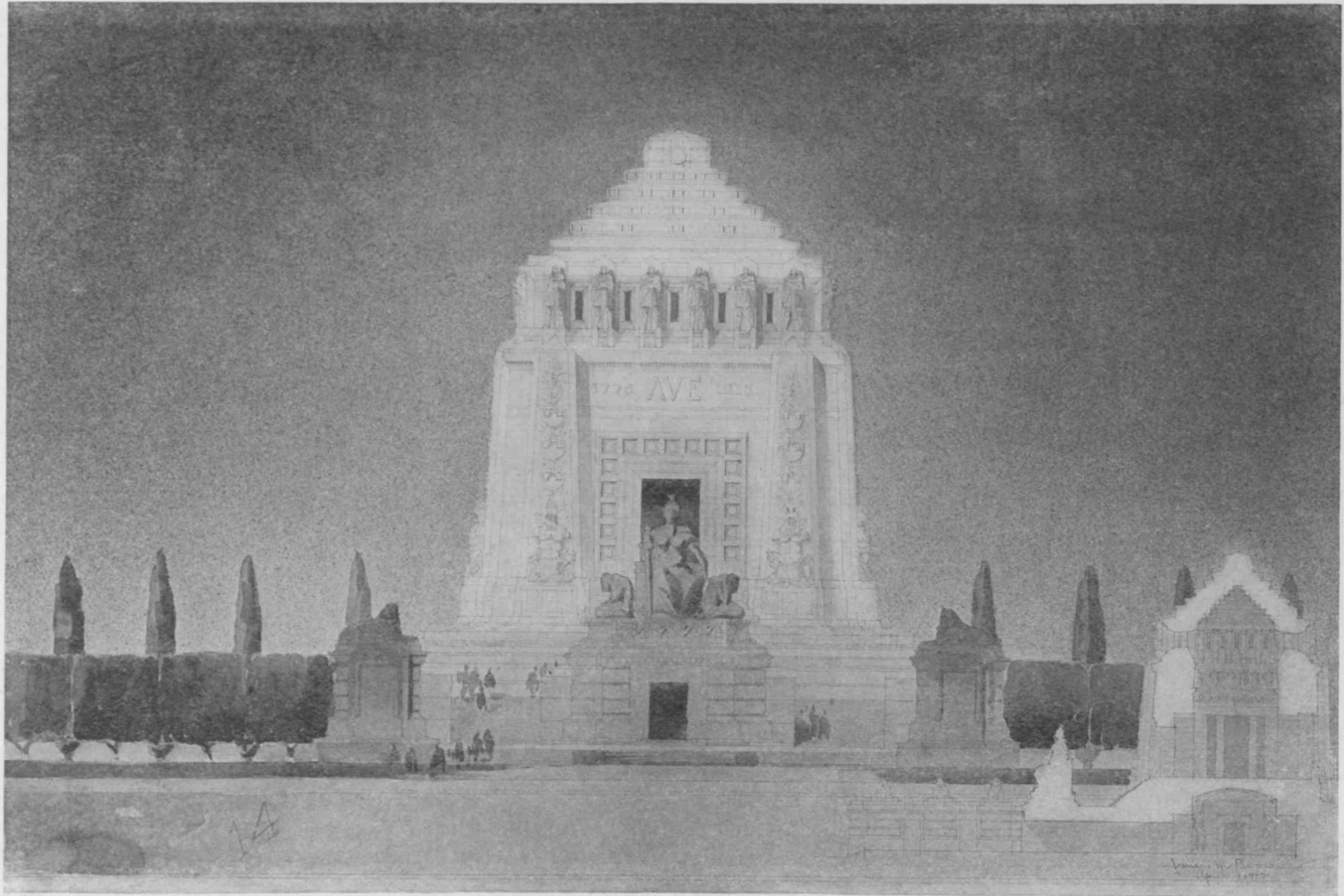
PRIZE FOR SPECIAL STUDENT

L. T. BENGSTON

A MONUMENT TO A PLAYWRIGHT

COMPETITION FOR THE BOSTON SOCIETY OF ARCHITECTS' PRIZES

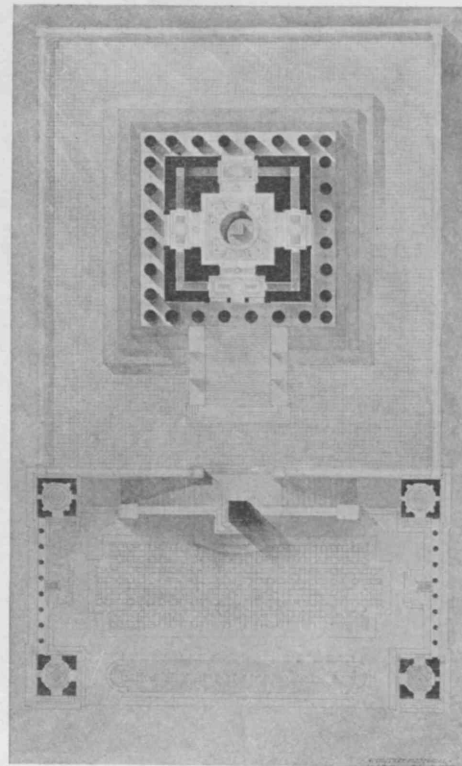
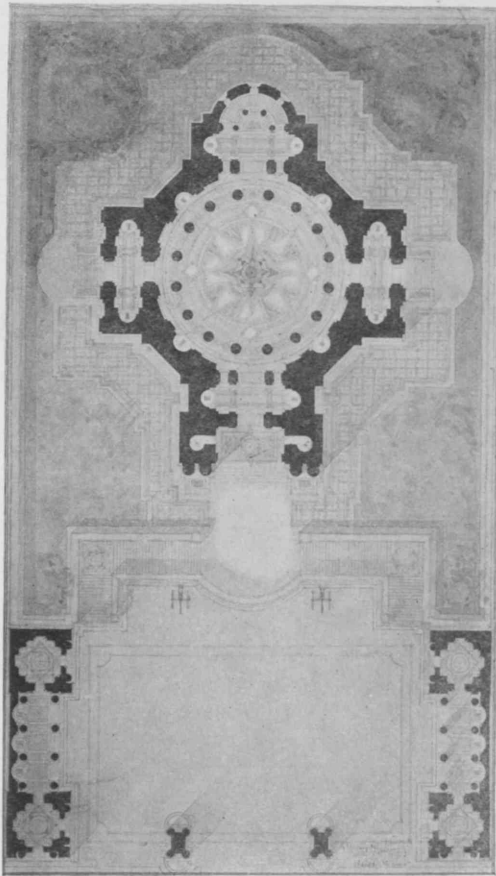
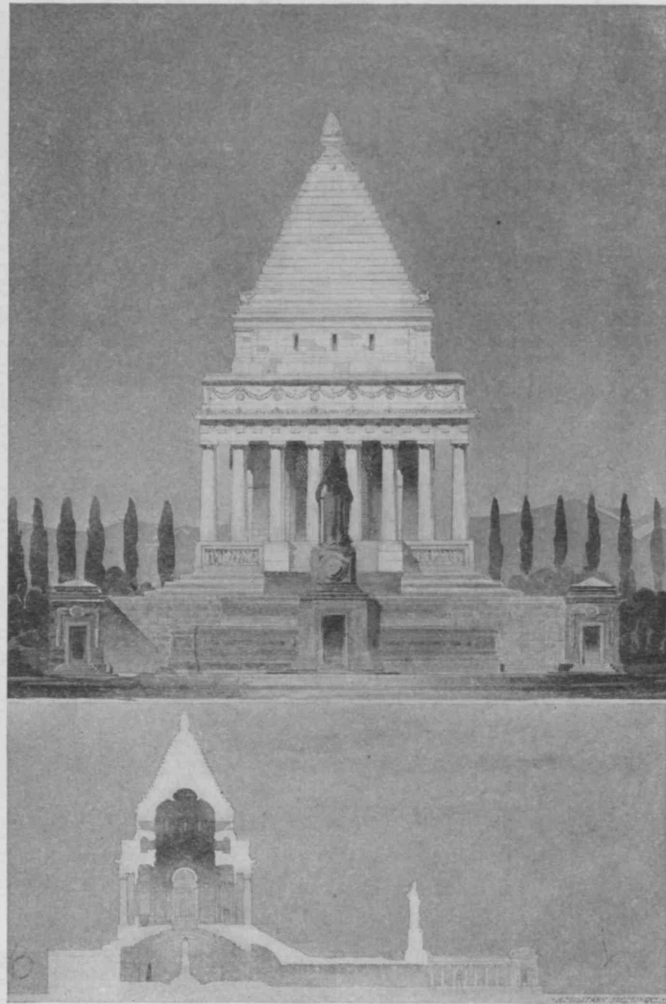
THIRD YEAR OF DESIGN



A MILITARY MEMORIAL

SECOND YEAR OF DESIGN. MEDAL

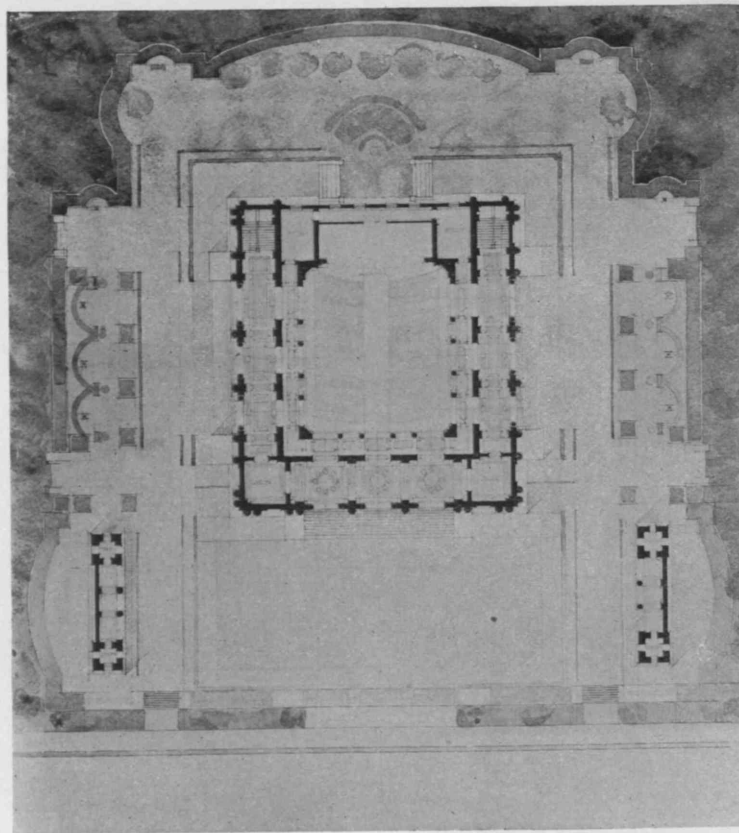
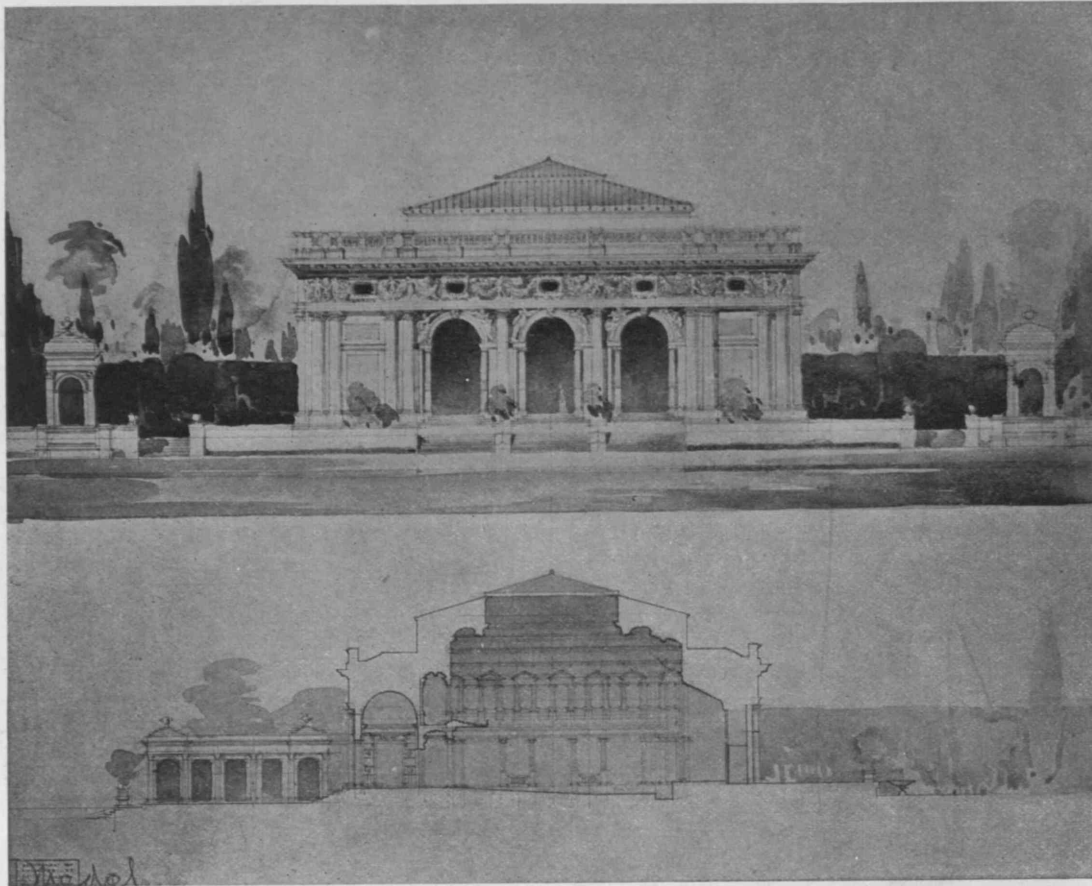
J. M. BROWN



H. STERNER

A MILITARY MEMORIAL
SECOND YEAR OF DESIGN. MEDALS

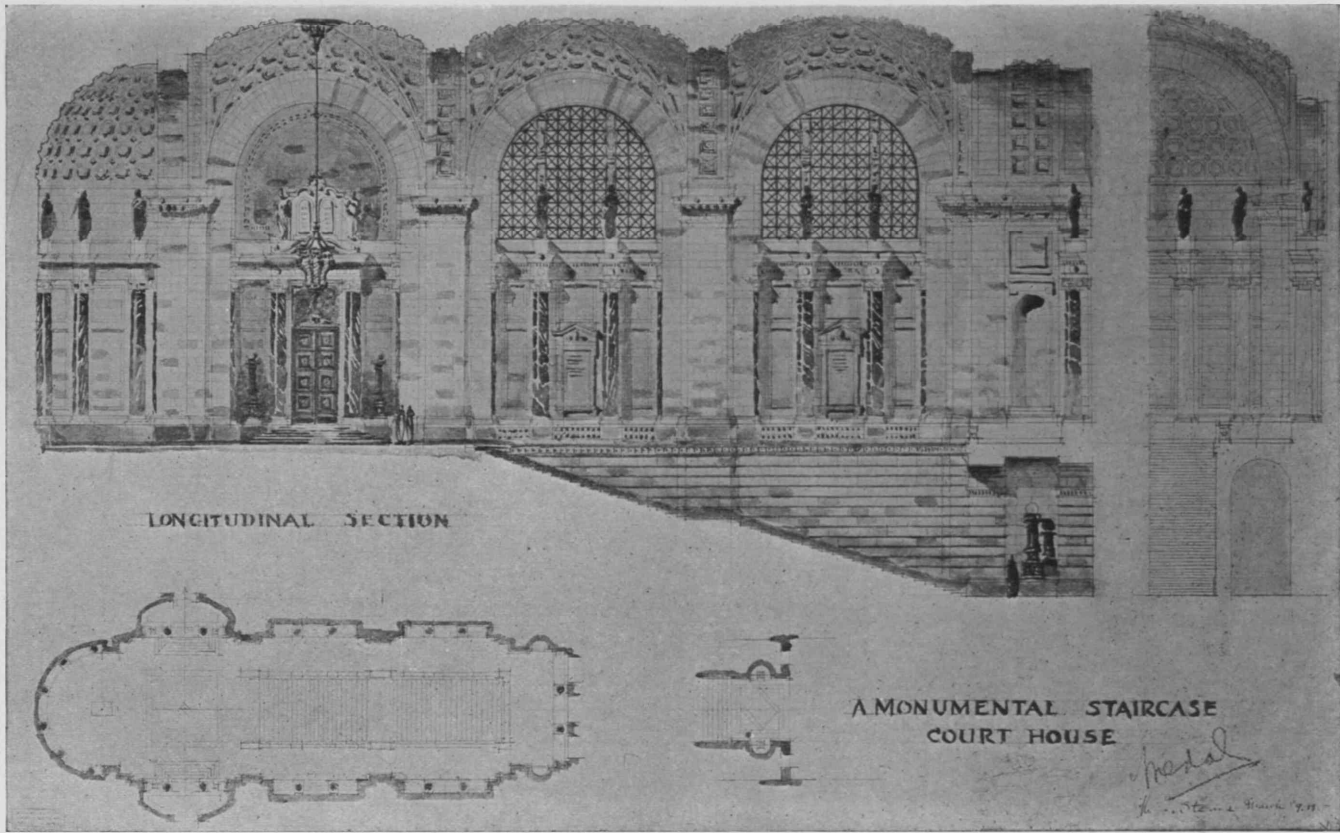
G. A. SPOONER



A SMALL THEATER

SECOND YEAR OF DESIGN. MEDAL

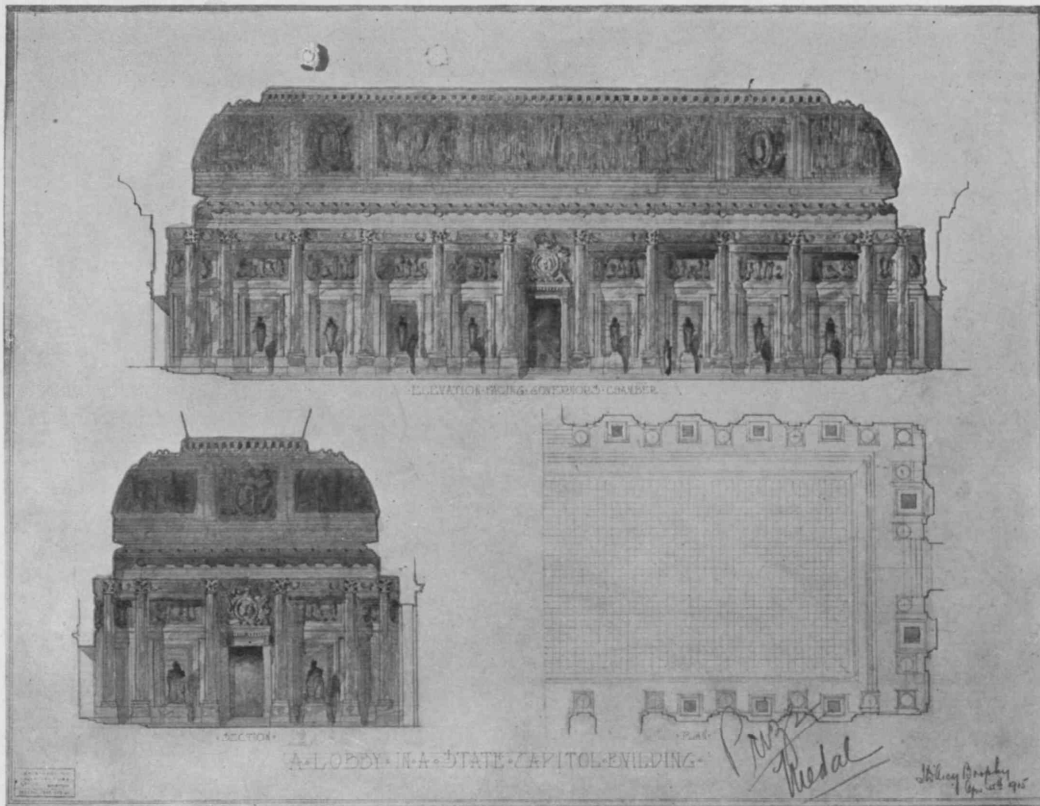
A. T. WYMAN



A MONUMENTAL STAIRCASE

THIRD YEAR OF DESIGN. 5-DAY SKETCH. MEDAL

H. C. STEARNS

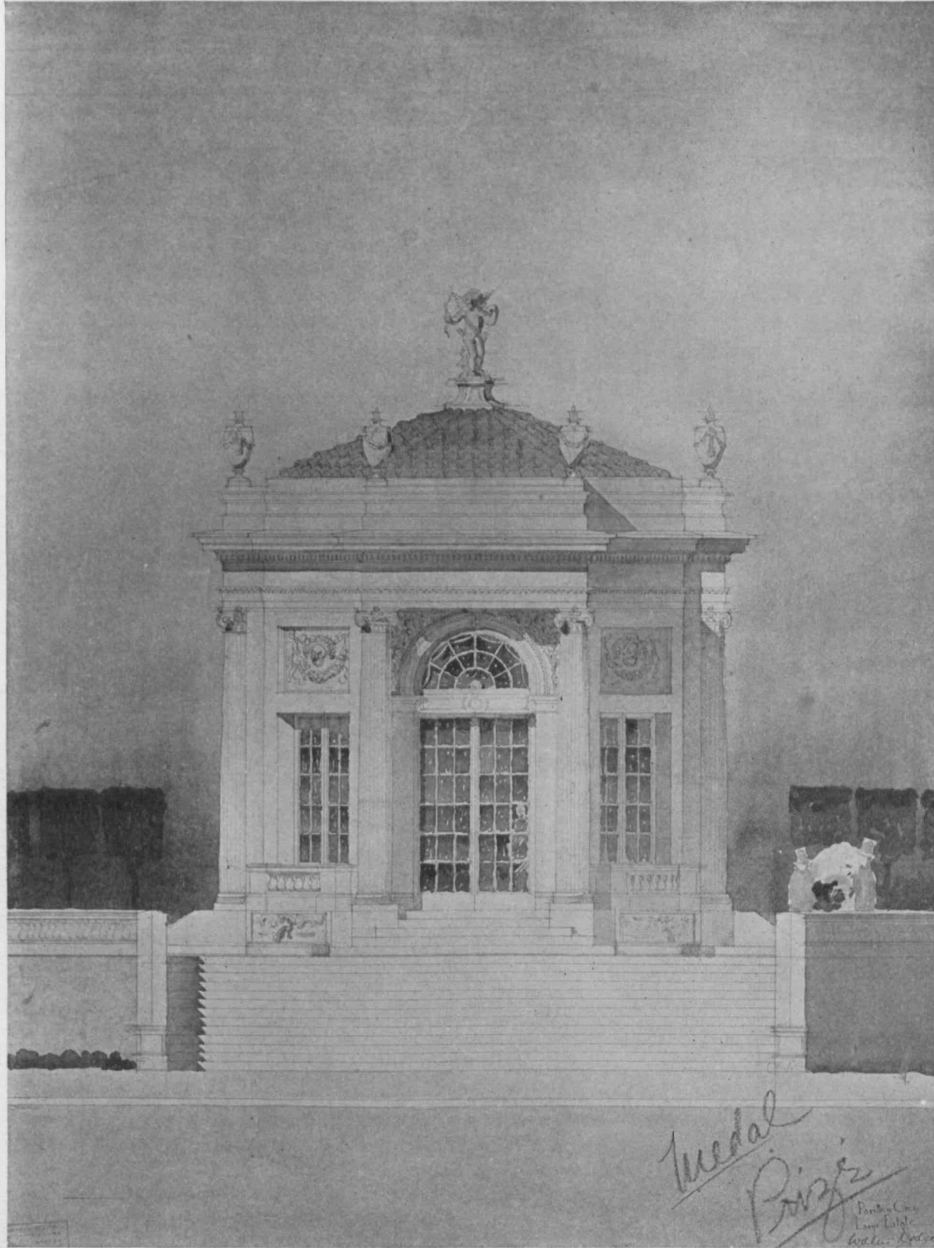


A LOBBY IN A STATE CAPITAL BUILDING

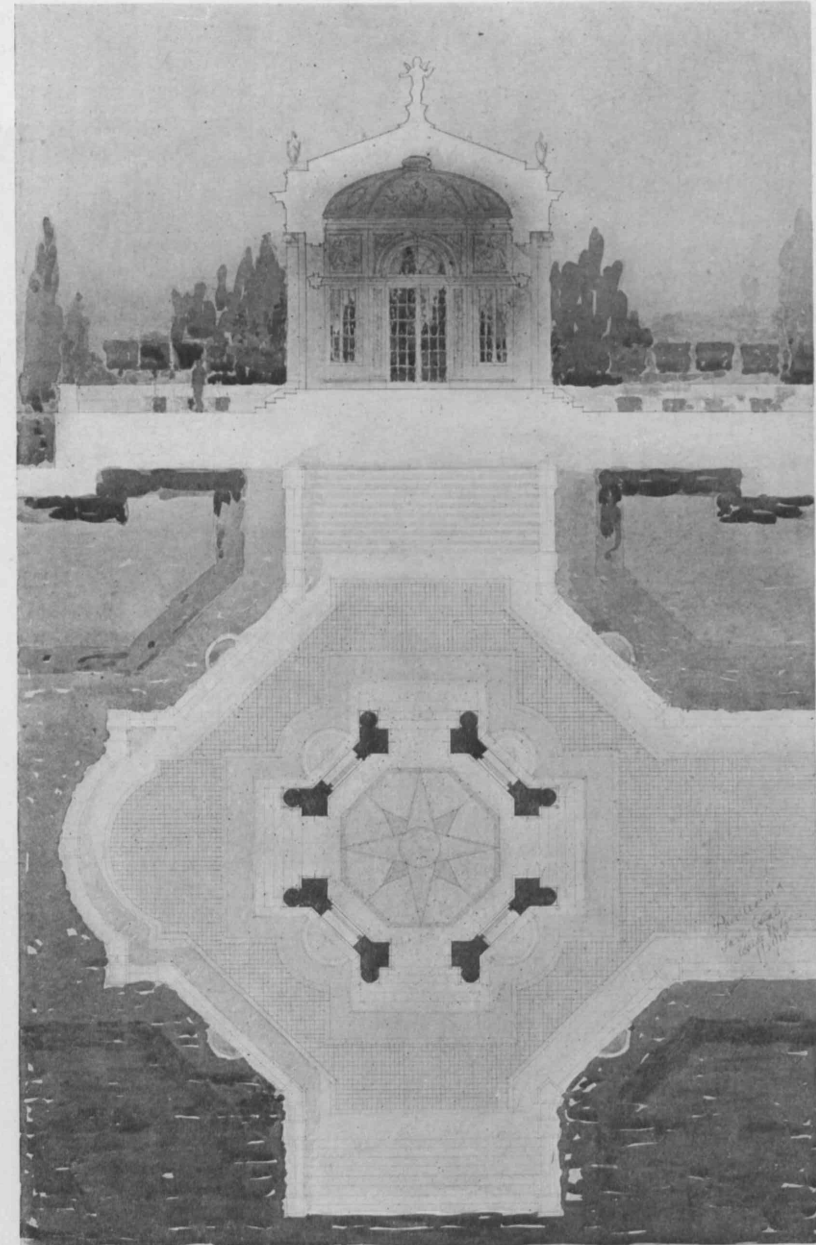
COMPETITION FOR THE F. W. CHANDLER PRIZE

SECOND YEAR OF DESIGN. PRIZE

T. D. BROPHY



A PAVILION

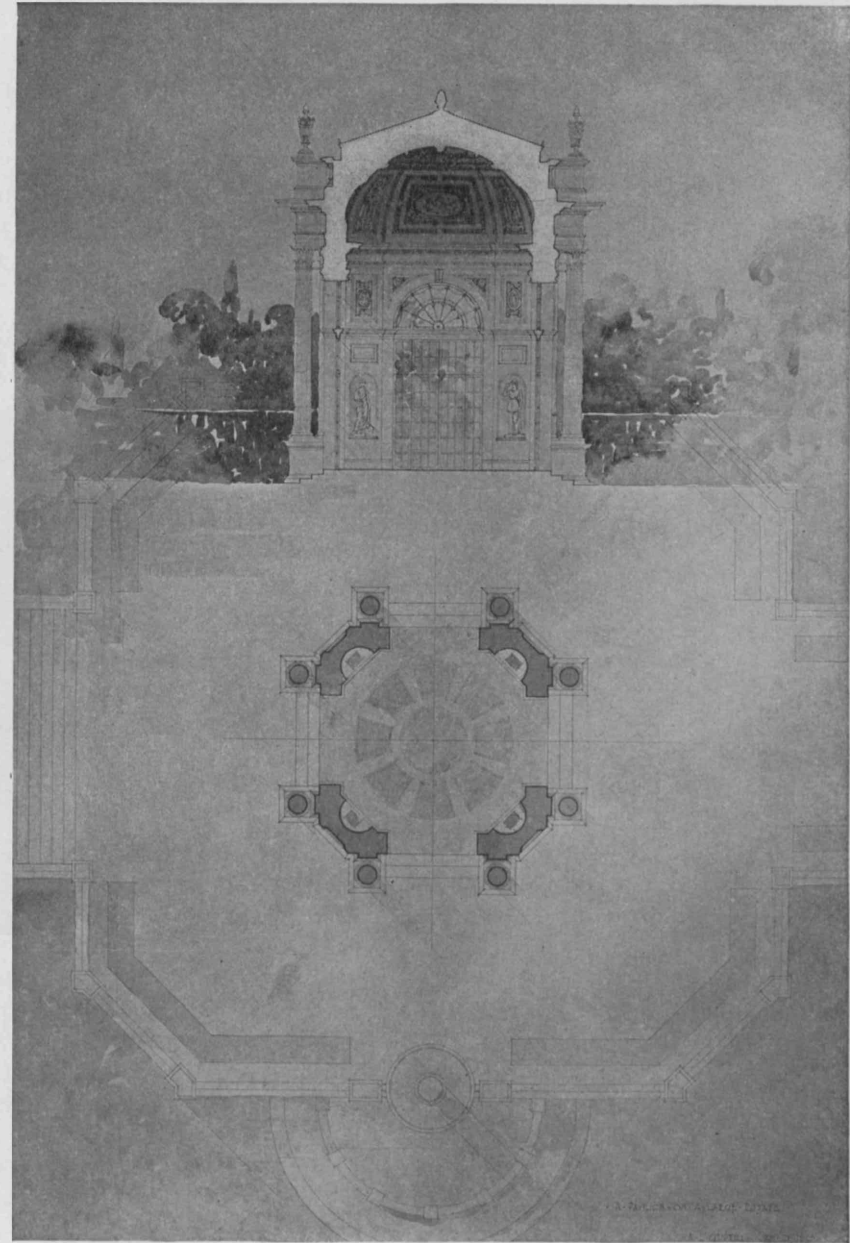


W. W. DODGE, JR.

COMPETITION FOR THE "CLASS OF 1904" PRIZES
SECOND YEAR OF DESIGN. PRIZE FOR REGULAR STUDENT

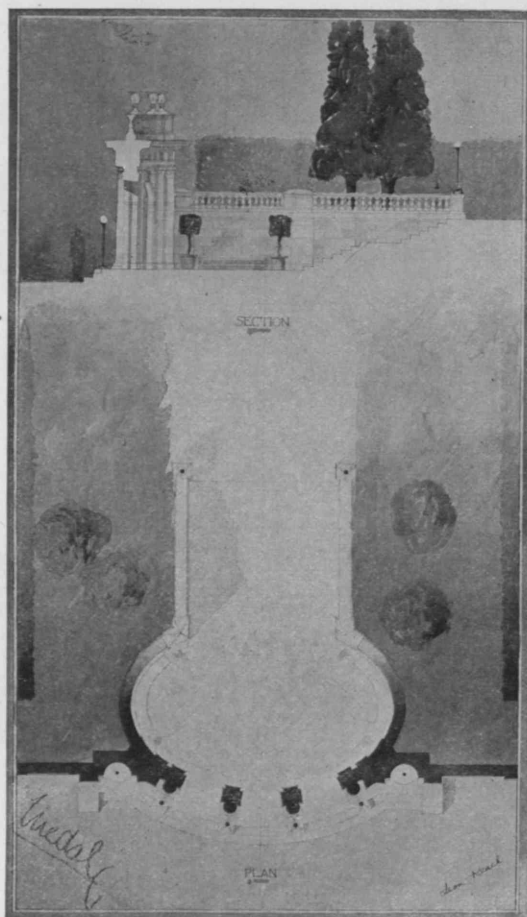
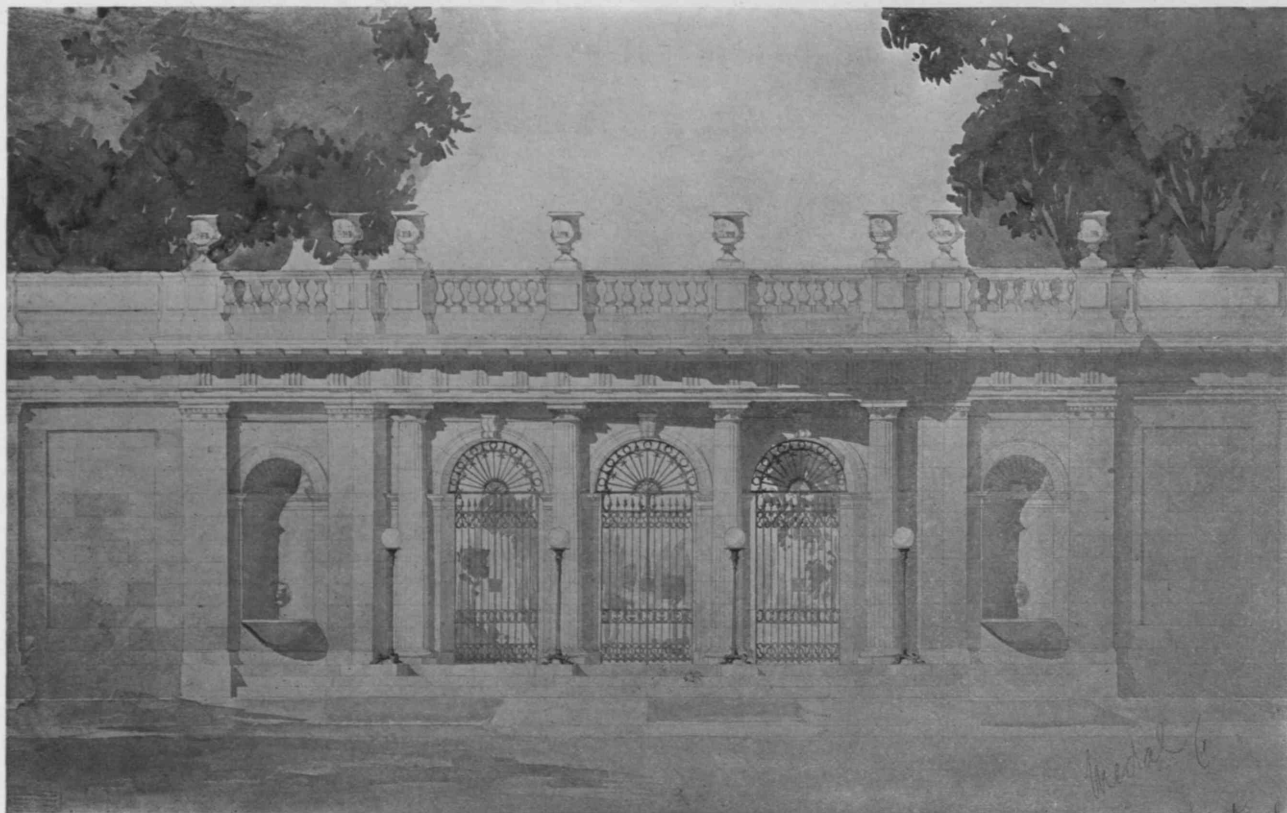


A PAVILION



A. L. GUPTILLI

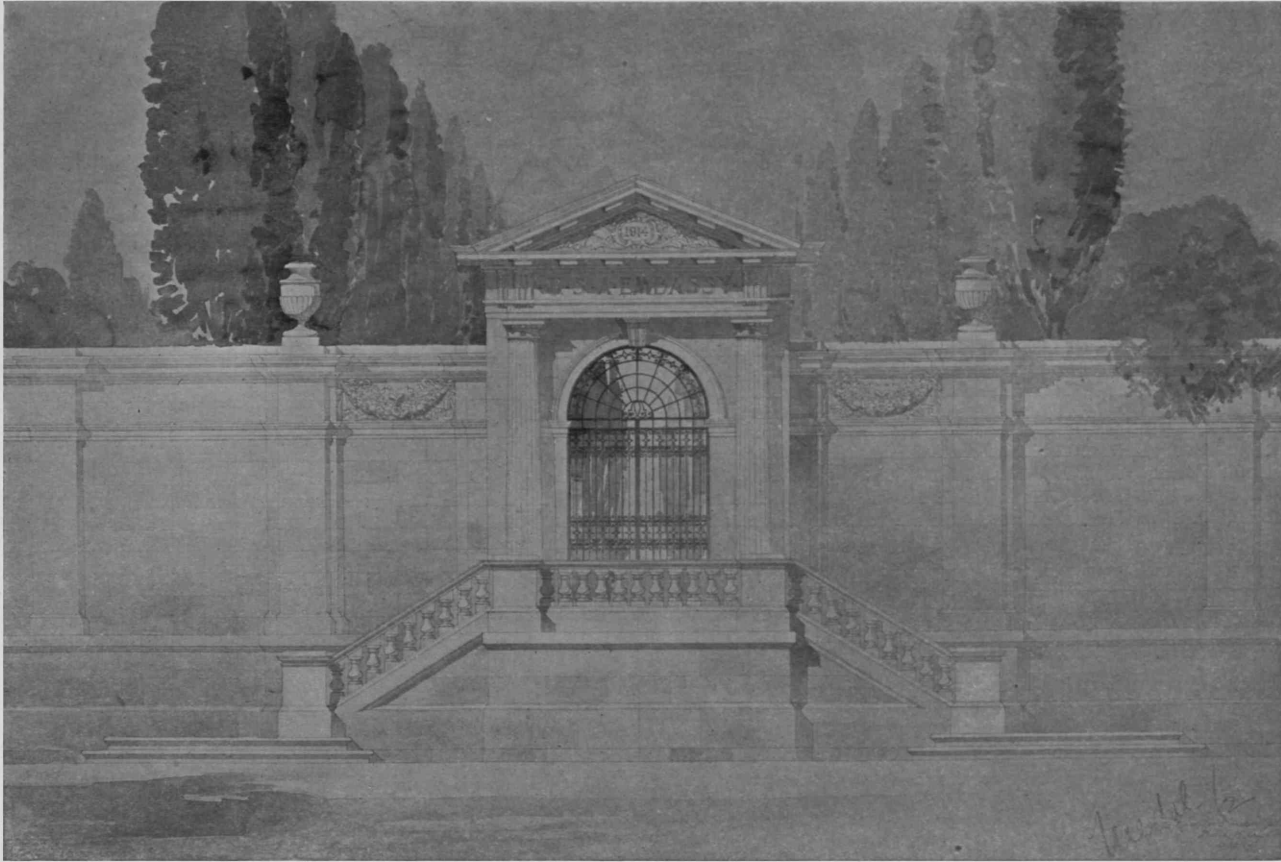
COMPETITION FOR THE "CLASS OF 1904" PRIZES
 SECOND YEAR OF DESIGN, PRIZE FOR SPECIAL STUDENT



STUDY OF THE DORIC ORDER: AN ENTRANCE TO AN EMBASSY

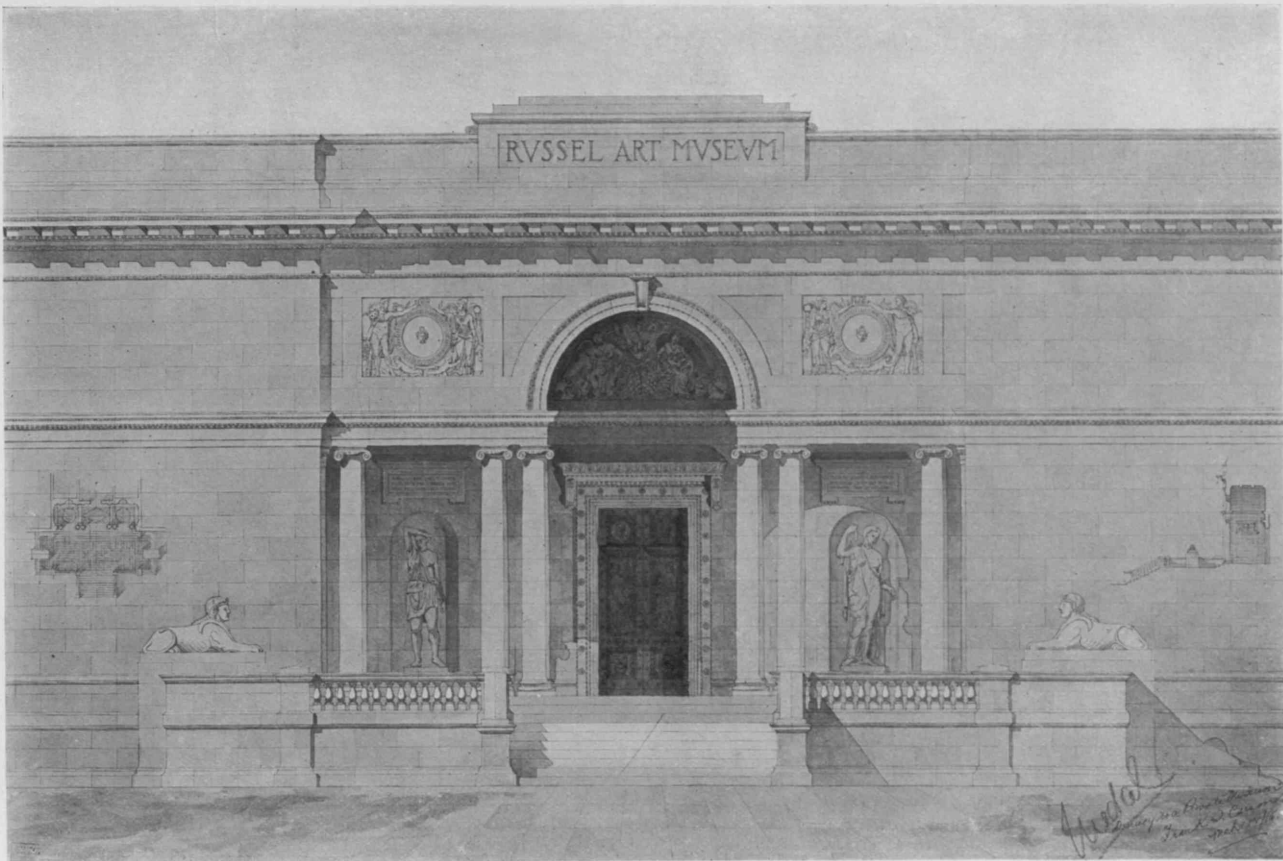
L. KEACH

FIRST YEAR OF DESIGN. MEDAL



STUDY OF THE DORIC ORDER: ENTRANCE TO AN EMBASSY
FIRST YEAR OF DESIGN. MEDAL

W. P. BEALER



STUDY OF THE IONIC ORDER: ENTRANCE TO A PRIVATE MUSEUM
FIRST YEAR OF DESIGN. MEDAL

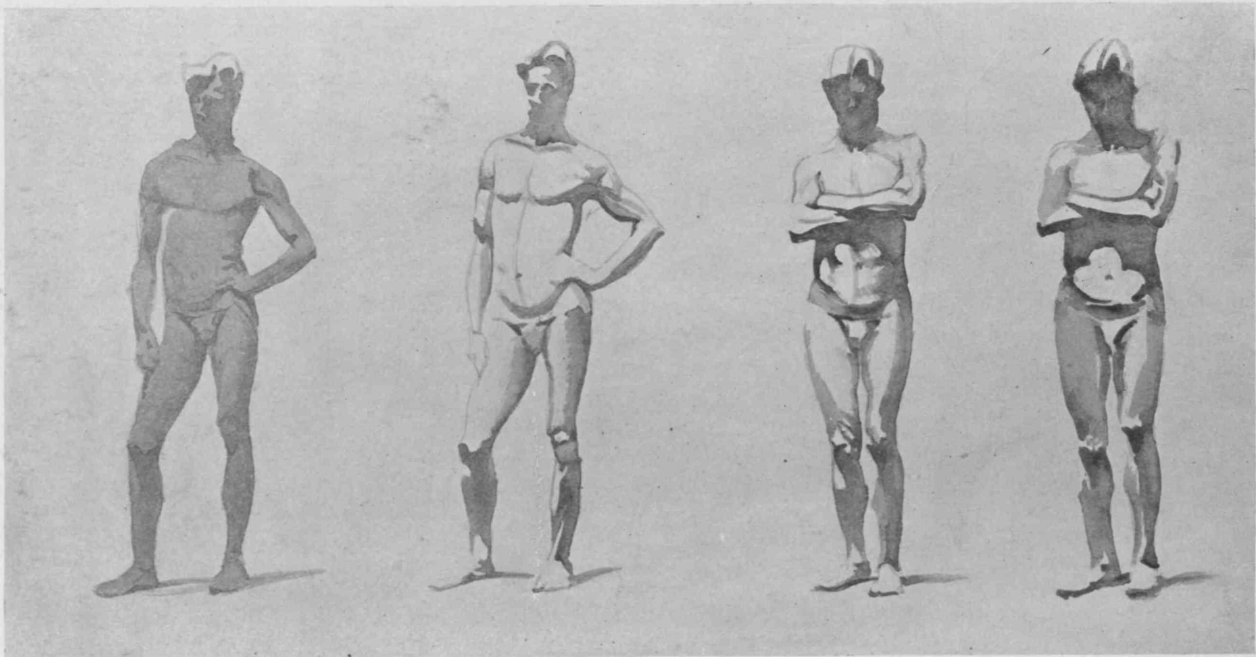
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F. S. WHEARTY



J. A. ROOT



W. J. HAUSER

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H. STERNER

WATER-COLOR

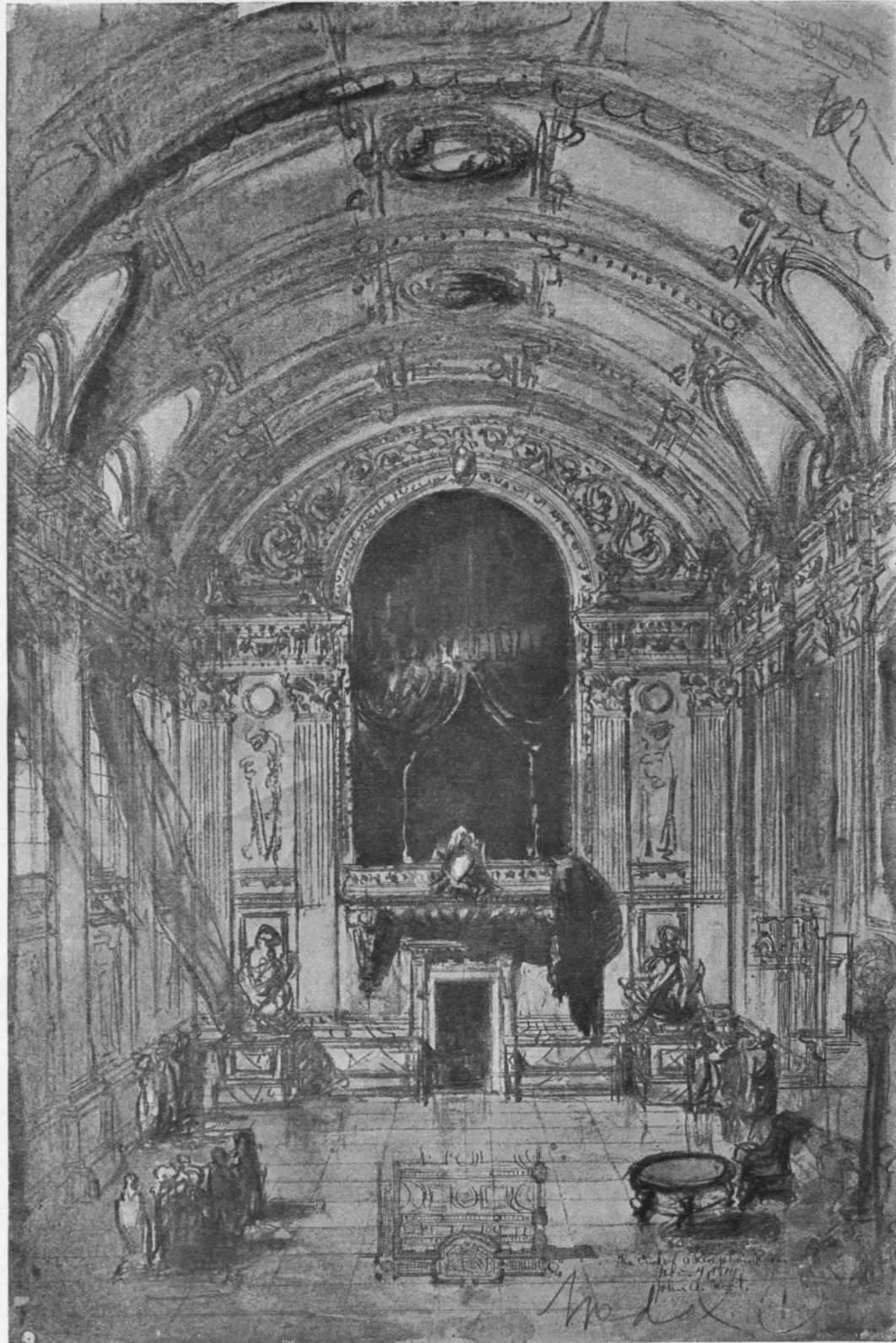


A. L. GUPTILL



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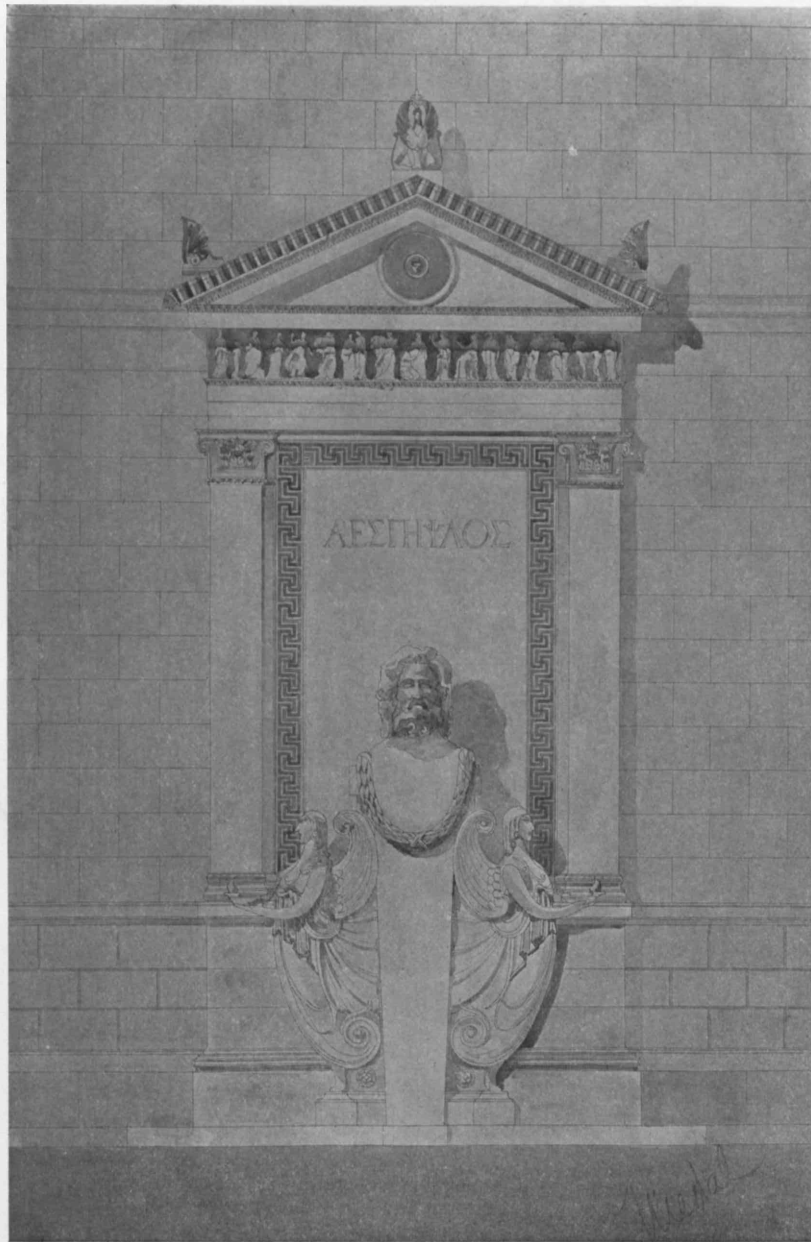
FIG. 1

How accurately Mr. Taylor foresaw the future is attested to by the rapidity with which Architects took up the Eye Comfort System *once they understood that the*

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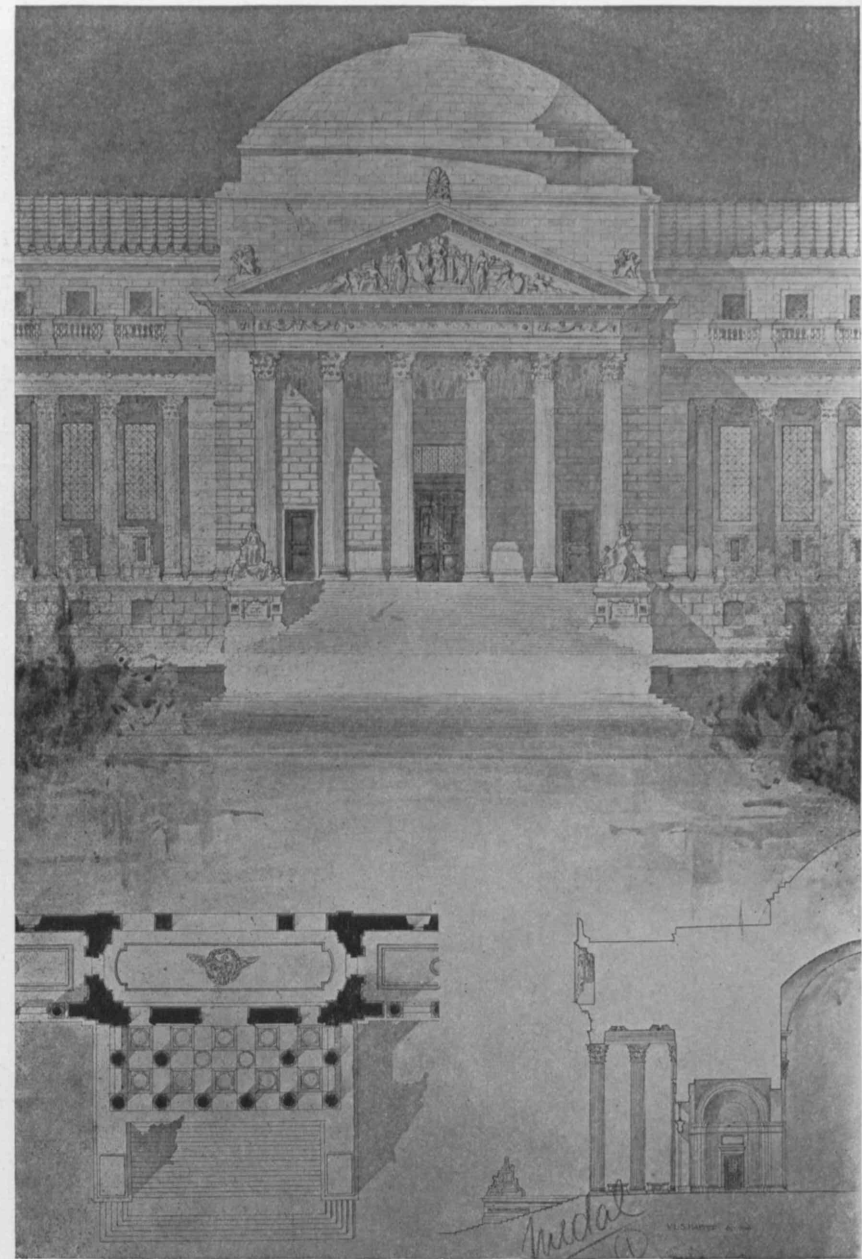
FIG. 2



A MONUMENT TO A PLAYWRIGHT

E. B. GOODELL, JR.

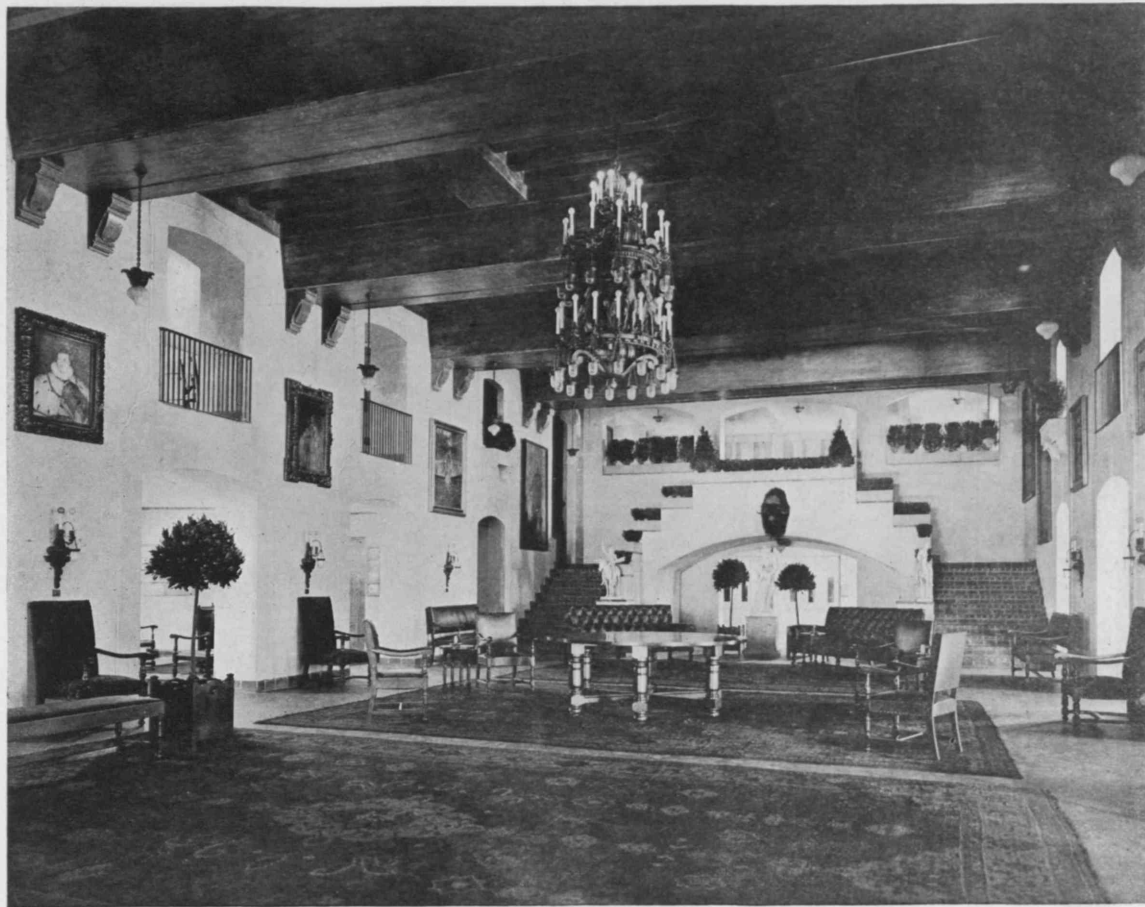
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V. L. S. HAFNER

SECOND YEAR OF DESIGN. MEDAL



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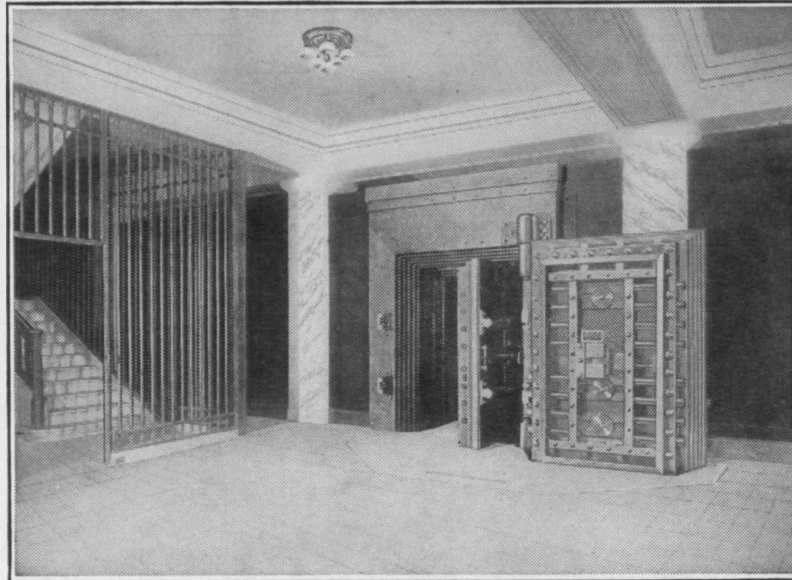
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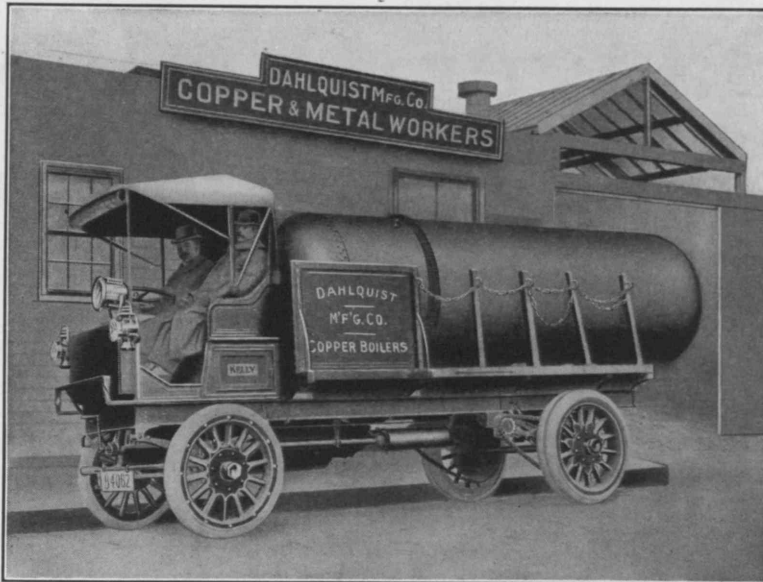
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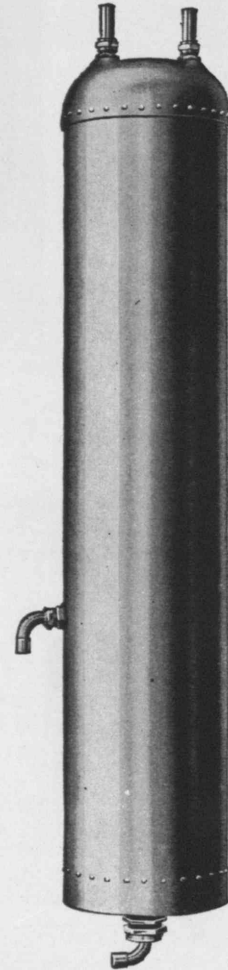


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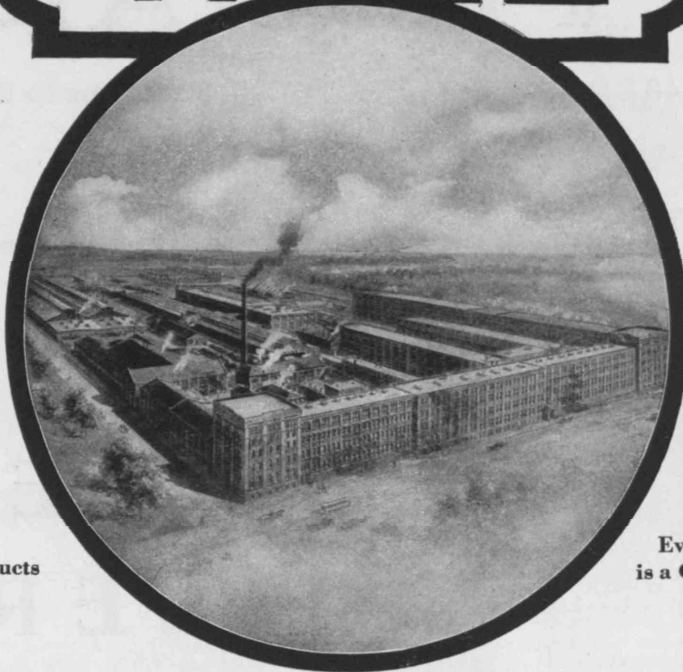
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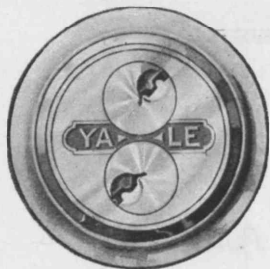
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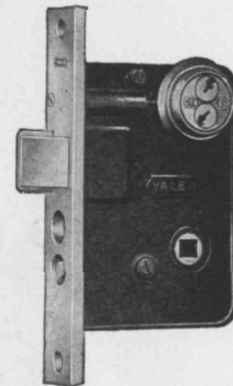
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Yale "Bicentric" Cylinder

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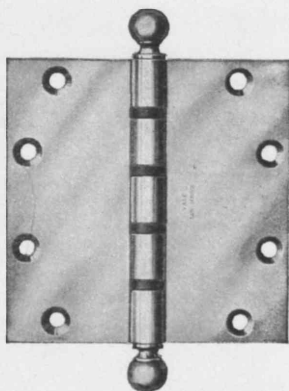
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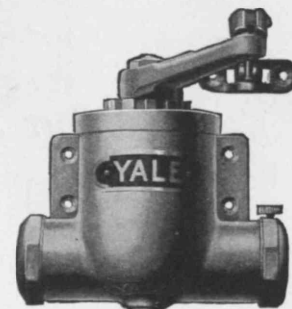
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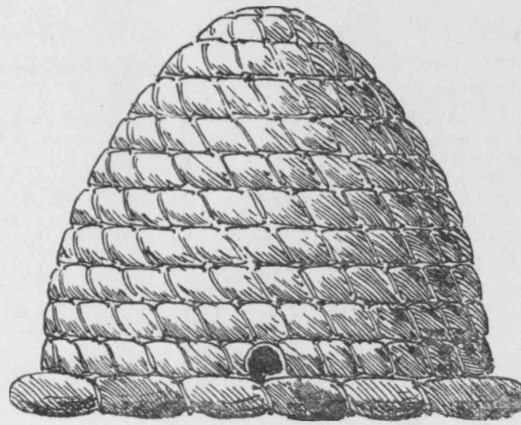
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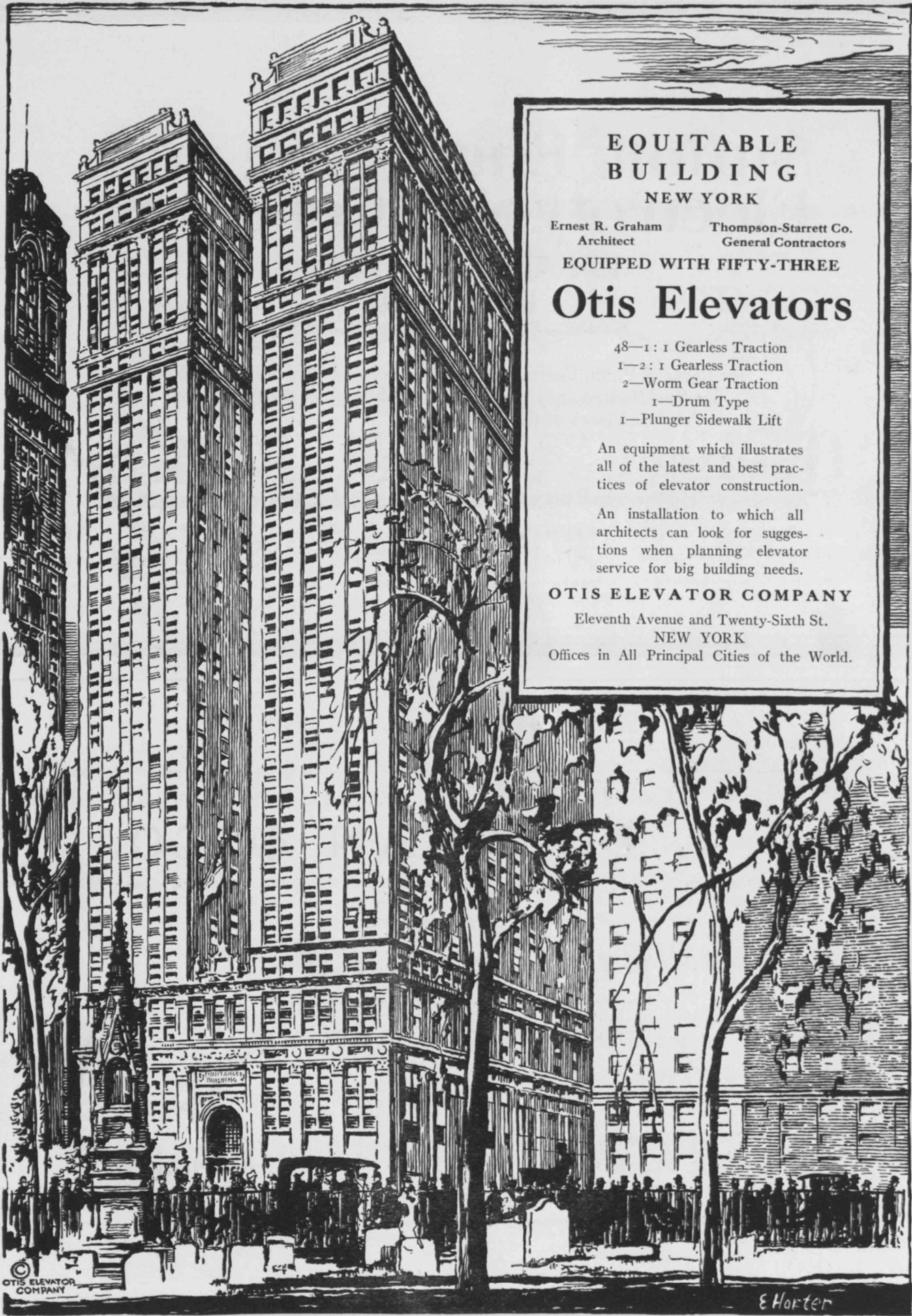
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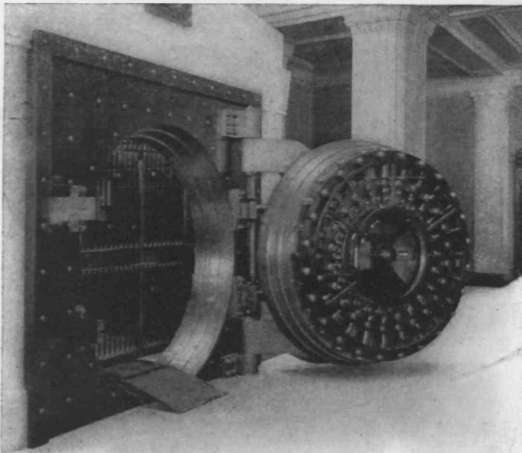
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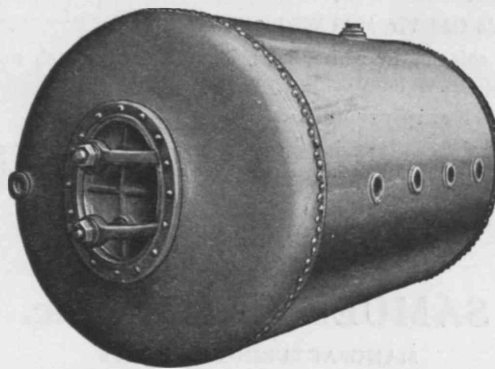
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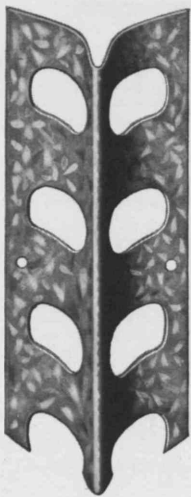
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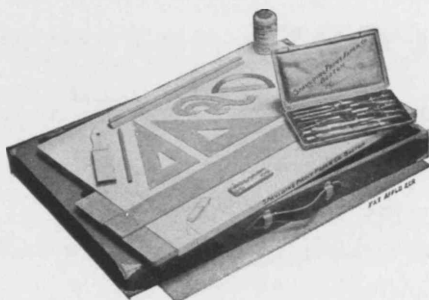
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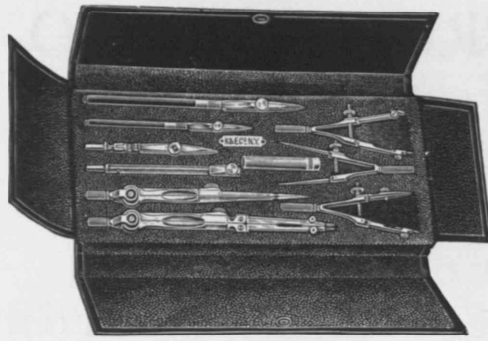
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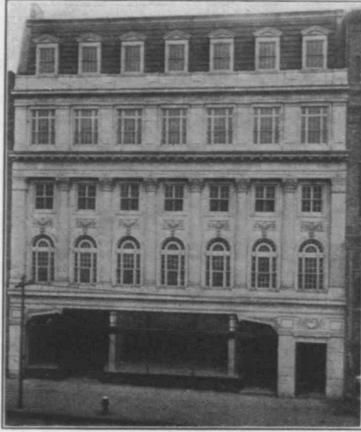
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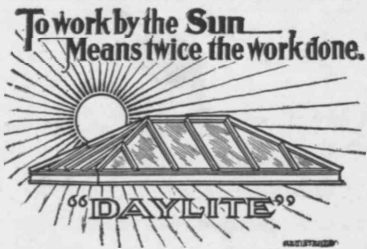
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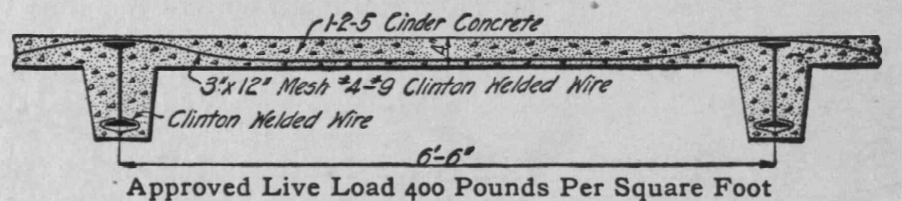
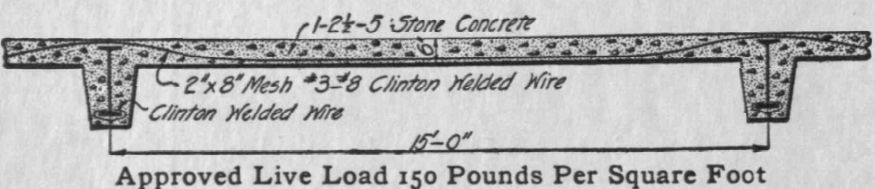
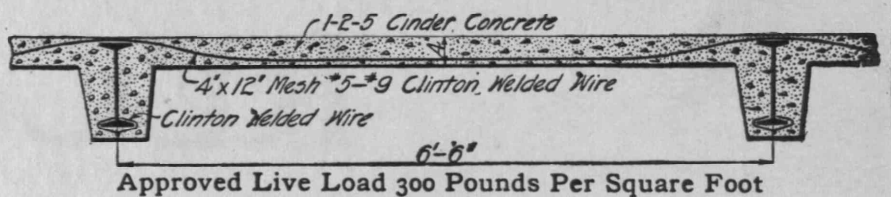
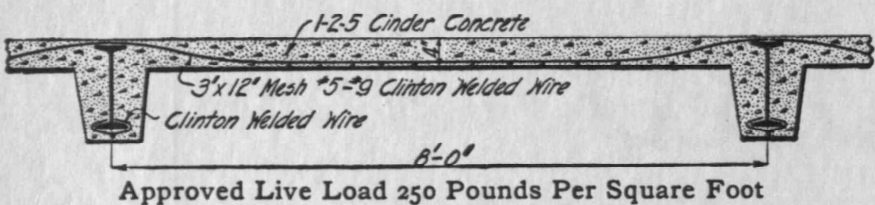
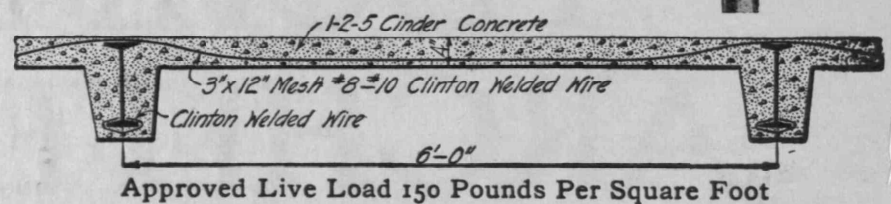
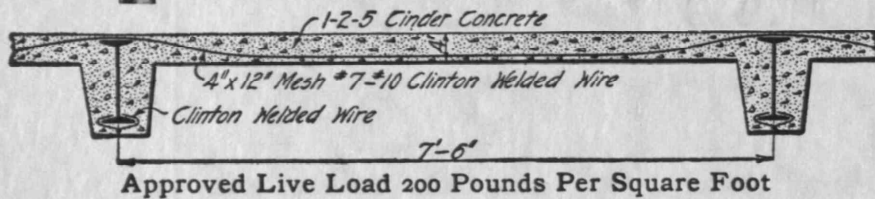
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