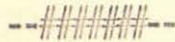


O. K. - Wallis

SPECIFICATIONS FOR PUBLIC LIBRARY.



by

Senior Architect,

E. E. Beighle.

Kansas State Agricultural College,

Manhattan, Kansas.

Class of '08.



E. E. Beighle.

Architect.

S P E C I F I C A T I O N

for

P U B L I C L I B R A R Y .

Specifications of material and workmanship required,
and to be furnished, for the erection and completion of a
Public Library for the City of ----- in accordance
with drawings and this specification of Architect E. E.
Beighle, and under the supervision of a competent Structural
Engineer to be appointed by the Building Committee of the
City Council.

GENERAL CONDITIONS

Contractors wishing to bid shall follow the following
form:--

Manhattan, Kansas, June ----, 1908.

Building Committee,

Dear Sirs:--

I propose to erect and complete the Public Library
in accordance with the drawings and specifications of Architect
E. E. Beighle for the sum of ----- dollars (\$----); the
building to be delivered complete six months from the formal
acceptance of this bid.

John Smith,

Contractor.

OBLIGATIONS OF CONTRACTOR:

The Contractor shall give his personal superintendence to the work of erection, and furnish all material, transportation, labor, scaffolding and appliances required for the full performance of the work herein specified. He shall obtain all necessary permits, paying the lawful price charged for such; shall give the requisite notice to the proper authorities relative to the work in his charge; shall be liable for all accidents, or damage to property, traceable to the negligence of himself or his employes; and shall be responsible for any violation of local laws or ordinances. He shall duly and adequately protect his work during the process of construction, and shall insure the building as soon as the work has progressed far enough to warrant it.

The Contractor shall, during the progress of the work, keep the premises free from all debris, shall remove all rubbish when the work is completed, and shall repair all damages done to the work resulting from any cause, (except damage by fire) at the termination of his work.

The Contractor shall in no way interfere with the superintendence of the Structural Engineer, appointed by the Building Committee, who shall at all times have access to, and power of inspection over the works; to accept materials or workmanship in his judgement satisfactory, or reject such not in accordance with drawings and specifications. Any material rejected by the superintendent shall be immediately removed from the premises. In case of misunderstanding in regard to the interpretation of the drawings the Architect's decisions shall be final and binding on all parties concerned.

The Contractor shall lay out the building in accordance with the drawings and oral directions of the Structural Engineer, and shall be responsible for any damage to adjoining property or any error that may occur in the laying out of the work.

The time required by the builders for the completion of the work, from the date of the acceptance of the proposal, shall be stated in the bids, and this date will be incorporated in the contract. In case this limit is exceeded the Superintendent shall deduct and retain out of the payments the sum of twenty five dollars (\$25.00), for each and every day beyond the time limit as specified in the contract.

The Contractor shall be required to give security in form to be approved, to the amount of one-half of the contract price.

DRAWINGS:

The drawings illustrating the work consist of plans, elevations, and details; and give the scheme, design, and general details to be followed, and are numbered consecutively from 1 to 12, inclusive. They will be supplemented by such additional drawings as may be necessary to intelligently carry out the work. These drawings have been prepared with due care, but the Contractor shall not take advantage of any errors that may occur therein, but shall notify the Architect of such errors, that they may be corrected.

The figures in the drawings shall be taken in preference to the scale measurements, and the detail drawings in preference to the general drawings. Any work not fully expressed in the drawings, or not otherwise shown for the sake of brevity, shall be executed in full spirit and meaning. No deviation from the original plans shall be allowed from the original plans except written permission is granted by Superintendent.

The right is reserved to make changes in the detail drawings. However, if such changes shall increase the expense of construction, a just allowance shall be allowed to the Contractor, the sum to be fixed by the Superintendent.

PAYMENTS:

Payments on account of work executed will be made on estimates furnished by the Superintendent on or about the first day of each month. These estimates will be made on the amount of work done during the preceding month, and a certificate will be issued to the Contractor, setting forth the value of this work, with an order on the City Treasurer for 80% of its value, which order shall be payable on or about the 10th day of the month. The balance shall be retained until sixty days after the completion and acceptance of the structure.

STRUCTURAL WORK.

EXCAVATIONS:

The Contractor shall excavate under the entire building, as indicated in the drawings. He shall also excavate for the foundation to a depth indicated in the cross-section, and in width 6" on each side of the concrete footings.

The material excavated shall be handled in the most approved manner, so as to avoid blocking the highway with surplus earth. The Contractor shall, when so ordered by the Superintendent, make such changes as may be deemed necessary for the protection of property, or the maintenance of travel.

MORTAR & CEMENT:

- (1) The lime used in the cement and mortar shall be of the best quality, freshly burned and well slaked.
- (2) The sand shall be clean, sharp river sand, well screened and free from all earthy matter.
- (3) The cement shall be of the best grade Portland.
- (4) The mortar shall be thoroughly mixed and made in the following

proportions: (a) Lime; one part lime, three parts sand. (b) Cement; one part Portland cement, three parts sand.

(5) Concrete; one part Portland cement, two parts sand, and ~~three~~ parts crushed rock, well screened.

(6) Pointing cement; one part lime, one part cement, and two parts sharp river sand.

FLOORS, PAVEMENTS, ETC.:

The basement floor shall be leveled off six inches below the finished floor line and well tamped at all points. This shall then be covered with a cement concrete coat five inches in thickness, and finished with a topdressing of cement one inch thick, of equal parts cement and sand, to be floated to a smooth surface.

The area bottom shall be of like construction except the concrete shall be three inches thick, and the finishing coat one inch thick. This shall be floated smooth toward a 3" tile drain.

DRAINS:

Lay a 4" tile drain around the entire building eight feet from the foundation wall, and level with the bottom course of footing concrete, and leading to the nearest natural or artificial drain.

FOOTINGS:

Put under all walls, chimneys, piers, exterior steps, etc., except area walls, two layers of concrete footing each 12" thick, the first layer extending 8" and the second 4" on each side of the foundation wall.

FOUNDATION WALLS:

All stone work, unless otherwise specified shall be of best grade nature lime stone, to be laid on their natural beds. The foundation walls

up to grade shall consist of rubble work, the stone to be sound and free from all imperfections, well tied together, the headers to be inserted every four feet in length, and every two feet in height. All joints shall be weather pointed inside and out with pointing cement. The stone shall be laid in cement mortar.

DAMP COURSE:

On a line averaging six inches above grade, lay a damp course as follows: Level the wall as much as the stone courses will allow and cover with a good coat of Trinidad asphalt applied hot,--cover this with a layer of heavy weight tarred paper, finishing with a second coat of asphalt. Plaster the walls below, from footing to damp course, with cement mortar and coat with asphalt.

AREAS:

Build up area walls and walls from basement steps with rubble stone 18" thick, and cope with a course at least 10" thick and projecting 1" on each side of the wall.

The basement steps shall consist of one piece dressed stone 7 1/2" thick and 14" wide, each stone lapping two inches over the one below, and housed two inches in the wall at each end.

ASHLAR FACING:

Face the stone above grade with random ashlar in alternating ranges of 6" and 12" thickness. The ashlar facing shall measure in width 5", 9", and 12", varying as indicated in the drawings. This shall be backed with a 12" rubble work of sound quarry stone having a surface measurement of at least one square foot. The facing shall be tied to the rubble work with wrought iron ties measuring 1/8" x 1" x 9", being turned up at the ends 3/8". These shall be spaced every four feet. No joint shall be over 1/4" thick.

All joints shall be made level, true to a line and broken. No vertical joint shall be more than 12" thick. The sides and builds of ashlar shall be neatly jointed and the stones set on their natured beds without exception.

Plaster all ashlar on the back, and bed in cement mortar. Rake out all joints to a depth of one-half inch; clean the face of the stone work with a stiff steel brush and point with pointing cement.

CUT STONE:

Cut stone shall be used as indicated in the drawings. All cut stone used must be sound, uniform in color, free from seams, sand holes, and other imperfections. All beds must be squarely cut, all sides cut vertical through the full depth of the stone and all corners and edges cut clean and sharp.

BRICK WORK:

All brick shall be layed wet in dry warm weather, and dry in damp weather. The brick work shall consist of chimney, inside pilasters and inside arches. All brick shall be sound and well burned. The facing brick for the pilasters shall be glazed on sides and ends exposed. All brick shall be laid in cement mortar.

PLASTERING:

Plaster all walls and ceilings, except the ceiling beneath the gallery floor and the stucco mouldings shown in the drawings, with a scratch coat and a brown coat. The scratch coat shall be mixed in the proportion of one barrel lime, three barrel sand, and 1/2 bushel hair. The brown coat shall be mixed in the proportion of one barrel lime, five barrel sand, and 1/4 bushel hair. The brown coat shall stand ten days, and the scratch coat three days before using. The scratch coat shall be applied with sufficient force to secure a good clutch on the ceiling. The brown coat shall be

floated to a smooth, even surface. All surface behind the wainscoating and base boards shall be plastered down to the floor line.

FINISHING COAT:

Finish all plastered surface above wainscoating and base boards with a hard coat consisting of lime, putty, fine washed river sand and plaster of Paris, mixed in approved proportions, carefully applied and trowled down to a smooth, polished surface, free from trowel or brush marks.

The moulding work in the gallery indicated in the gallery shall be of stucco put on in approved style.

CARPENTER'S WORK.

FLOOR, JOIST, GIRDERS, ETC.:

The floor joist and girders shall be of best quality Georgia pine, of dimensions indicated in the drawings. The floor and ceiling *joist* shall be spaced sixteen inches apart with crowning edge up. The rafters shall be spaced two feet apart.

Dimensions of Members:

Floor joist, 3" x 14" --- spaced 16"

Ceiling joist, reading room, 2" x 12", --- spaced 16"

Floor joist for gallery, 2" x 12", --- spaced 16"

Ceiling joist above gallery, 2" x 6", --- spaced 16".

All rafters, 3" x 6", --- spaced 2'.

All floor joist shall be bridged every nine feet with 1" x 3" bridging.

FLOORING:

Cover the entire first floor and gallery with a 1" x 10" hard pine false floor laid diagonally on the joist.

ROOFING:

Cover the entire roof with 1" x 6" sheathing spaced 2 1/2". Cover this with slate shingles, and cover all hips and ridges with tile ridge caps.

The rafter plate shall consist of 3" x 8" hard pine bolted into the stone work every four feet with a 3/4" x 2" anchor bolt with a two inch head.

INSIDE FINISH:

The first story and gallery finished floor shall not be laid until the plastering has been completed. When the plastering has been completed the carpenter shall lay heavy weight felt paper with a 3' lap over the entire first and gallery floors, and over this he shall lay a 3/4" x 2" tongue and grooved quarter sawed oak floor, well driven together and blind nailed.

WINDOW FRAMES:

All window frames shall be made in accordance with detail drawings. The frame shall be made of best grade white pine, or cypress. The frames for masonry shall be as follows: 2 1/2" sills, 1 1/8" casings, 1 1/8" blind hanging styles, 1 1/8" pulley stiles and heads, 7/8" x 1/2" parting strips, and 7/8" back lining.

SASHES:

The sashes for the masonry windows shall be 1 3/4" thick, of best grade white pine or cypress.

DOOR FRAMES, DOORS:

The door frames shall be panel frames made of 2" x 8" best grade quarter sawed oak with panel of 3/4" same material.

All doors shall be of white oak veneer, of approved pattern, and shall measure 2 1/2" in thickness.

INSIDE TRIM AND BASE:

All windows throughout the building shall be trimmed to conform to the detail drawings. All inside finish shall be of best grade quarter sawed oak. The base as shown in the drawings shall be 7/8" x 10", and the window

trim 7/8" x 6", with mouldings to conform to detail drawings.

The wainscoating shall be constructed as shown by detail drawings.

The steel beams supporting gallery shall be boxed as shown by detail drawings.

MAIN STAIRS:

Construct the stairs as shown in the drawings. The main rough stringers shall be 3" x 10" hard pine.

H A R D W A R E.

The contractor shall furnish all hardware required for the proper construction of the building.

TINNER'S GOODS:

The contractor shall furnish tinner's goods, such as flashings, etc., required for the proper construction of the building.

The chimney flashings shall run six inches under the shingles and the gutter flashings shall run six inches under the shingles, and four inches into the stone work. The gutter shall be constructed as shown by detail drawings.

P L U M B I N G

CAST-IRON PIPES:

All cast iron pipes shall be sound, smooth on the inside, cylindrical, free from cracks and sand holes, and uniform in thickness and of following weight per pound:

| | | | | | | |
|-----------------|-------|-----------------|--|--|--|--|
| 2" in diameter, | 5 1/2 | pounds per foot | | | | |
| 3" " " " | 9 1/2 | " " " " | | | | |
| 4" " " " | 13 | " " " " | | | | |
| 5" " " " | 17 | " " " " | | | | |
| 6" " " " | 20 | " " " " | | | | |

JOINTS:

All joints in the cast iron pipe shall be made with picked oakum

and molten lead. The Contractor shall furnish and set all sewers, soil pipes, drains, etc. as shown in drawings.

FIXTURES:

The Contractor shall furnish and put up in good working order the following fixtures:

Six water closets in each toilet room.

Two lavatories in each toilet room and one in the janitor's room.

PAINTING & VARNISHING.

Inside wood work shall be treated to one coat of white fillet, one coat of good grade of shellac varnish applied with brush, and one coat of good shellac varnish rubbed in with hand flannel. It is intended to finish all wood work in its natural color. No stains shall be used. All nail holes and joints shall be carefully puttied with colored putty, colored the same as the wood.

The first coat of shellac varnish must be carefully sand papered with #1/2 sand paper before the second coat is applied.

Putty, clean, dust, shellac, protect as is required of a first-class job.

FLOOR FINISH:

All floors shall be planed and oiled as soon as laid. After the inside varnish work of the building has been completed, the painter shall clean the floors from all stains and finish them with one coat of Berry & Co's. Antique Oak Stain, and a good coat of shellac varnish rubbed down to a dead finish.

Apply three coats of white lead and oil to the outside woodwork.

CLASSIC DESIGN

_____ for a _____

PUBLIC LIBRARY

_____ by _____

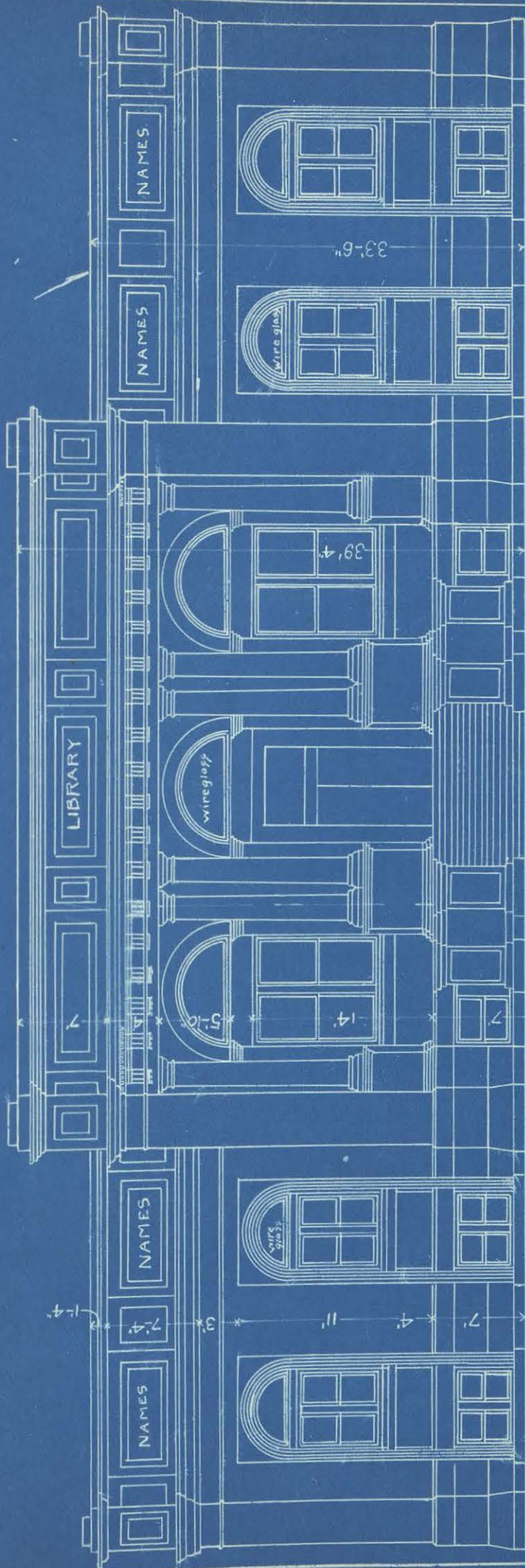
EEBEICHLIE

_____ SENIOR STUDENT _____

_____ K-S-A-C _____

DESIGN
of a
PUBLIC LIBRARY
E-E BEIGHLE

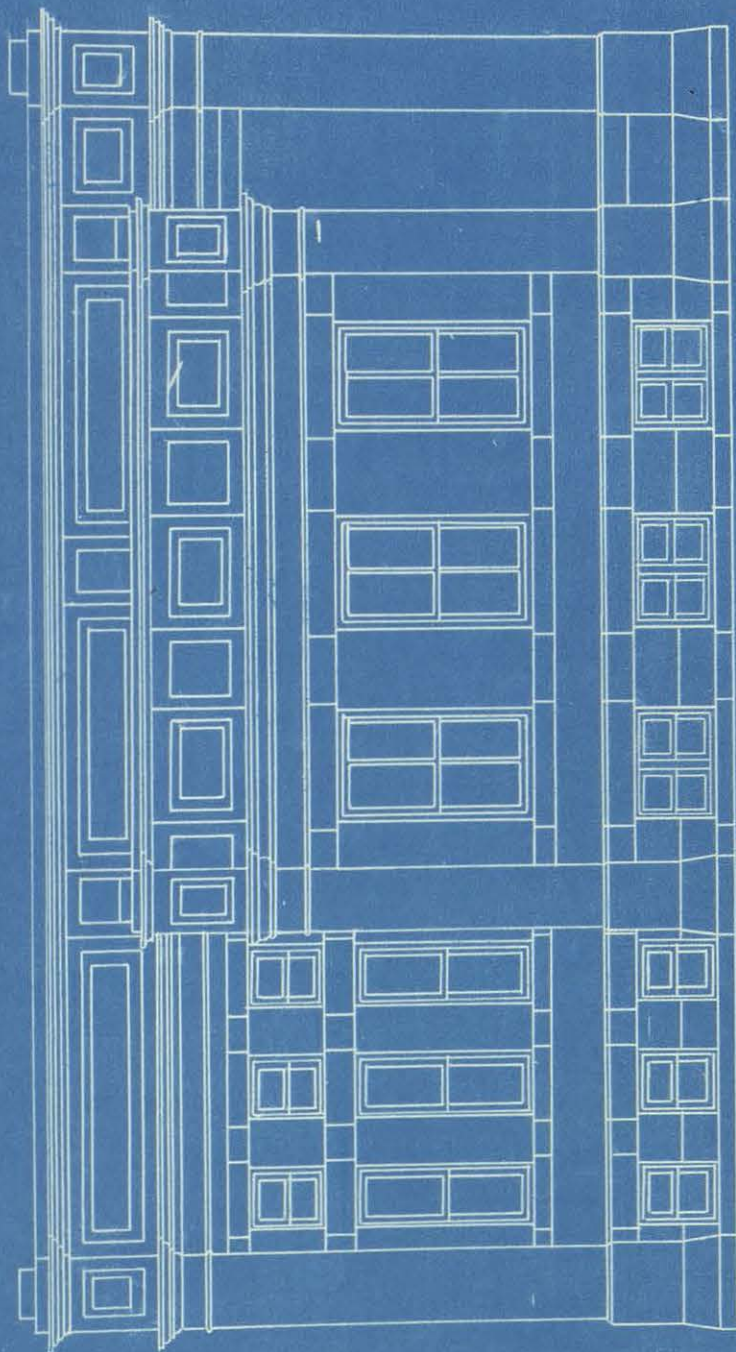
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FRONT ELEVATION

DESIGN
of a
PUBLIC LIBRARY
E-E-BEIGHLE

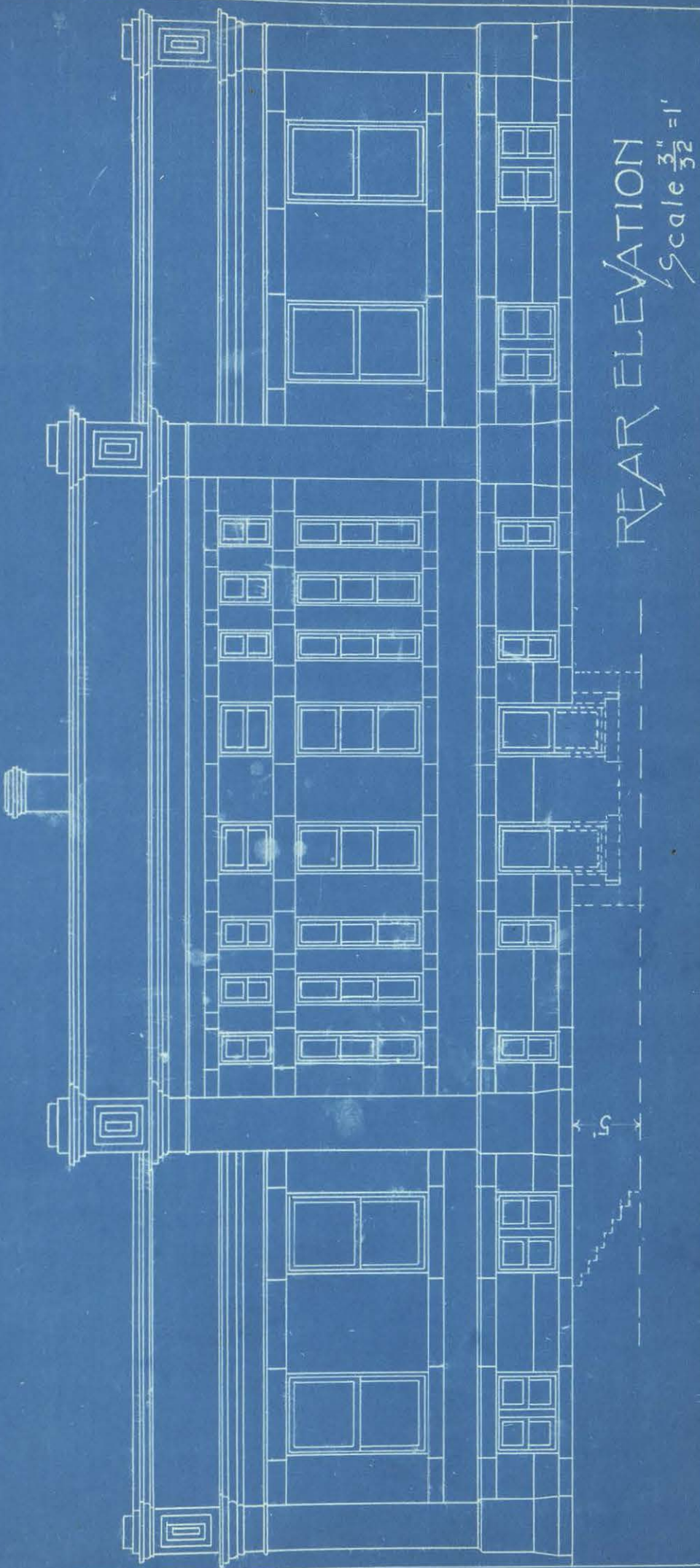
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SIDE ELEVATION

DESIGN
of a
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E-DEIGHTLE

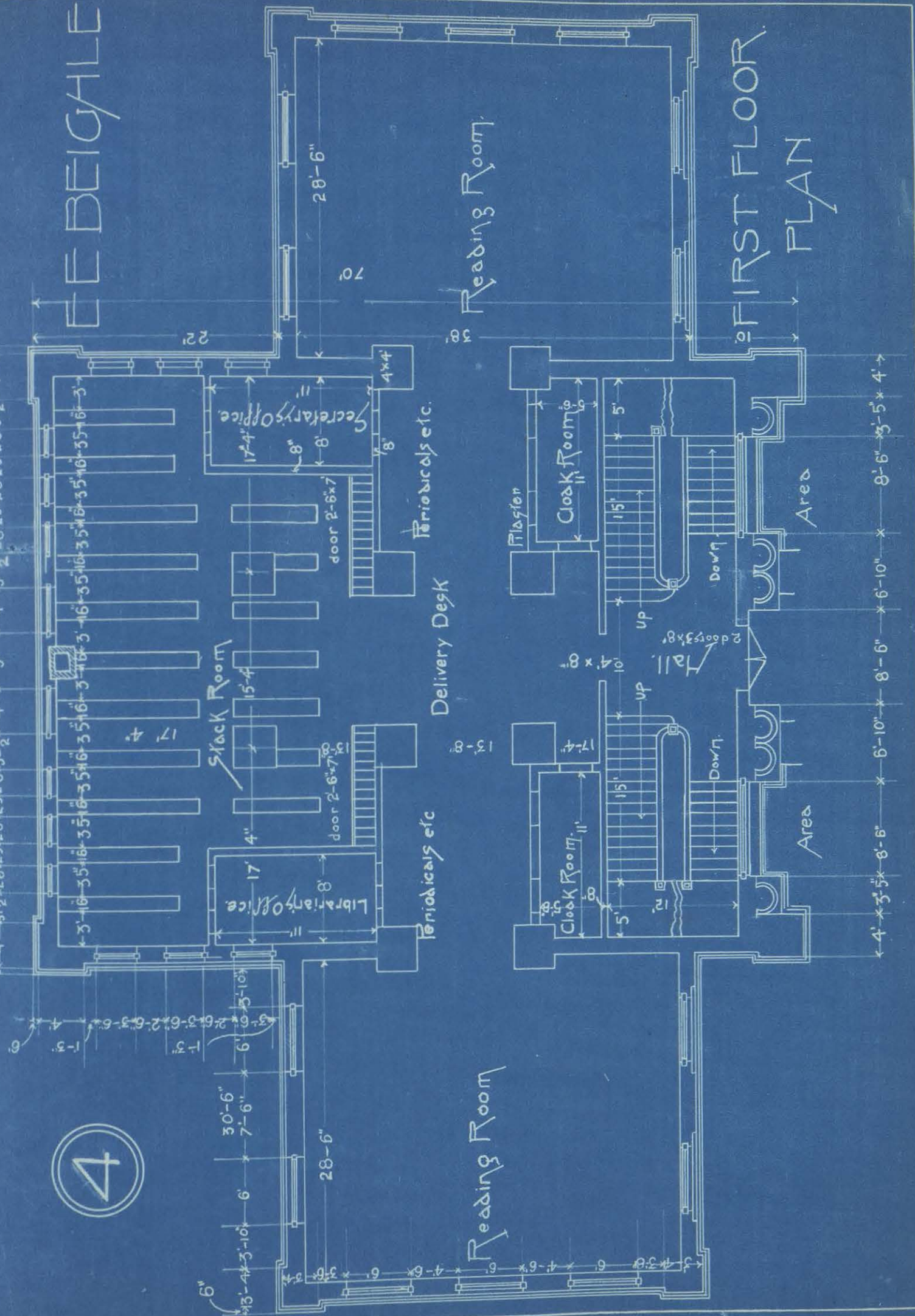
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DESIGN of a PUBLIC LIBRARY

4

EE BEIGHLE

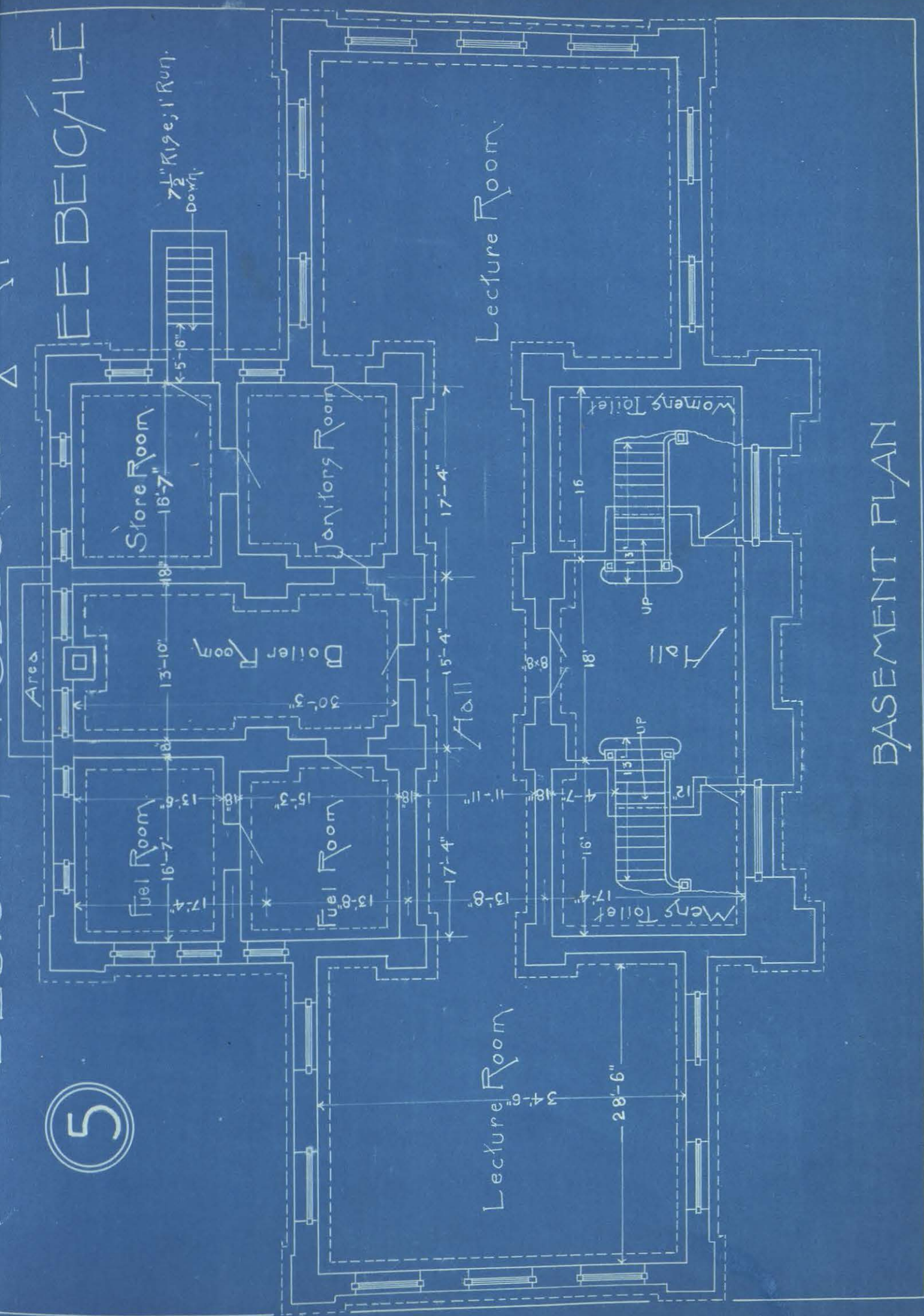


FIRST FLOOR PLAN

DESIGN of a PUBLIC LIBRARY

5

EE BEIGALE

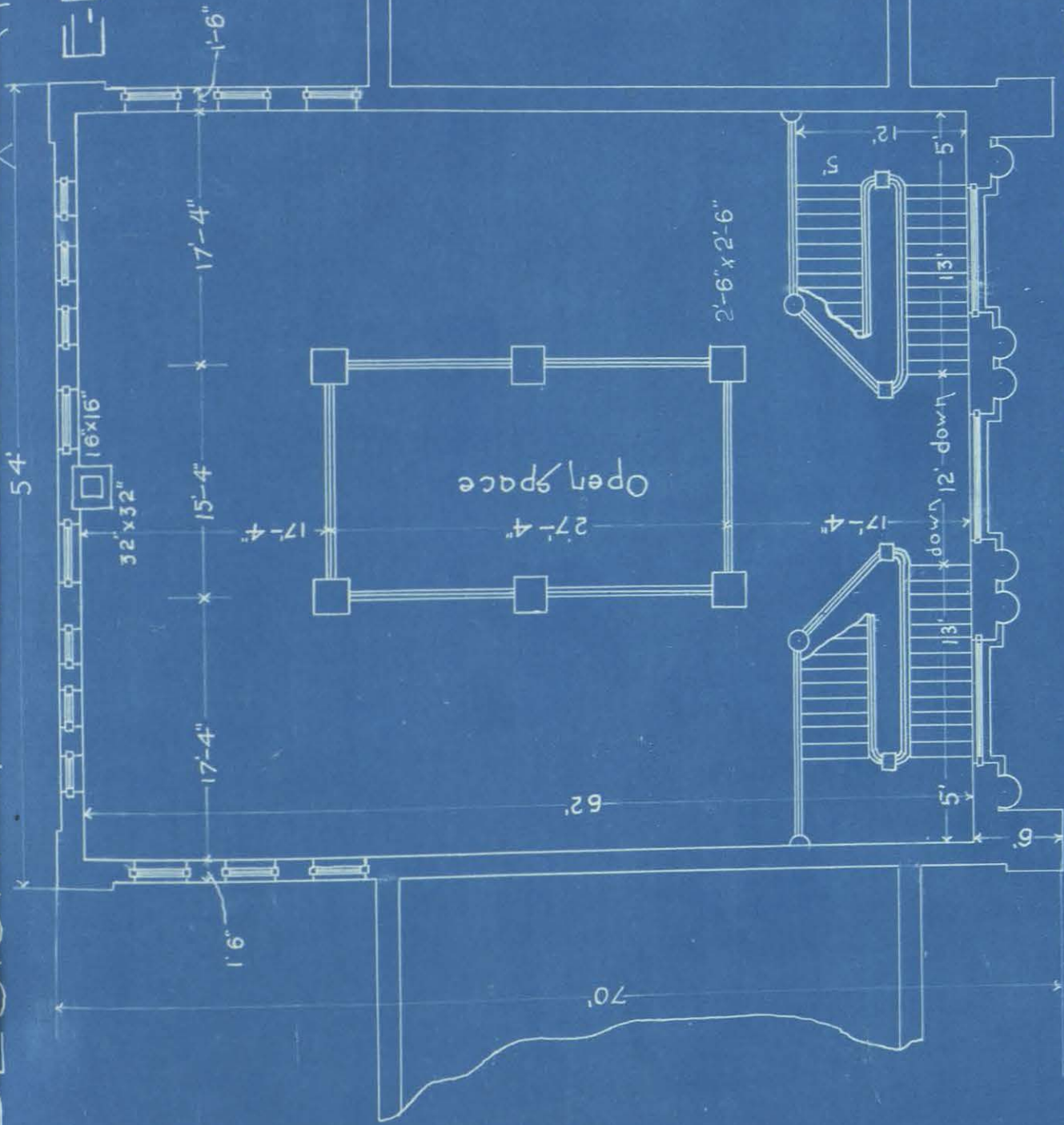


BASEMENT PLAN

DESIGN of a PUBLIC LIBRARY

EE BEIGHLE

6



PLAN of ART MUSEUM.

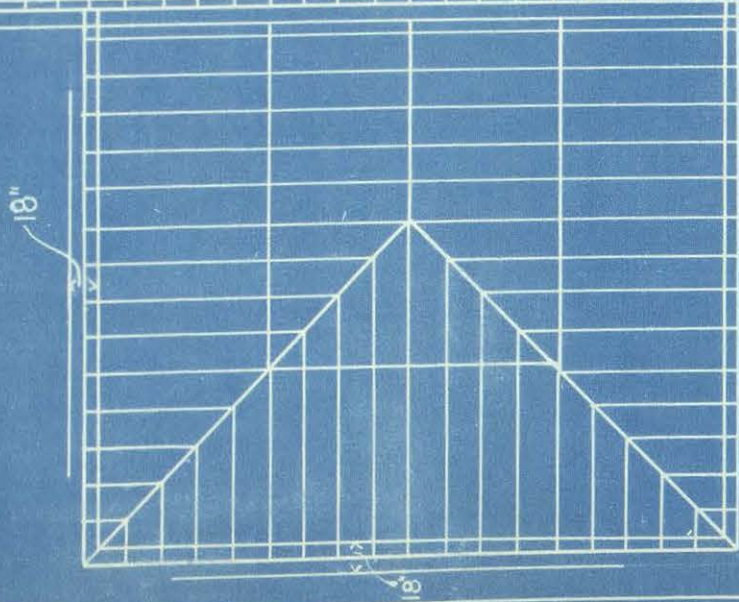
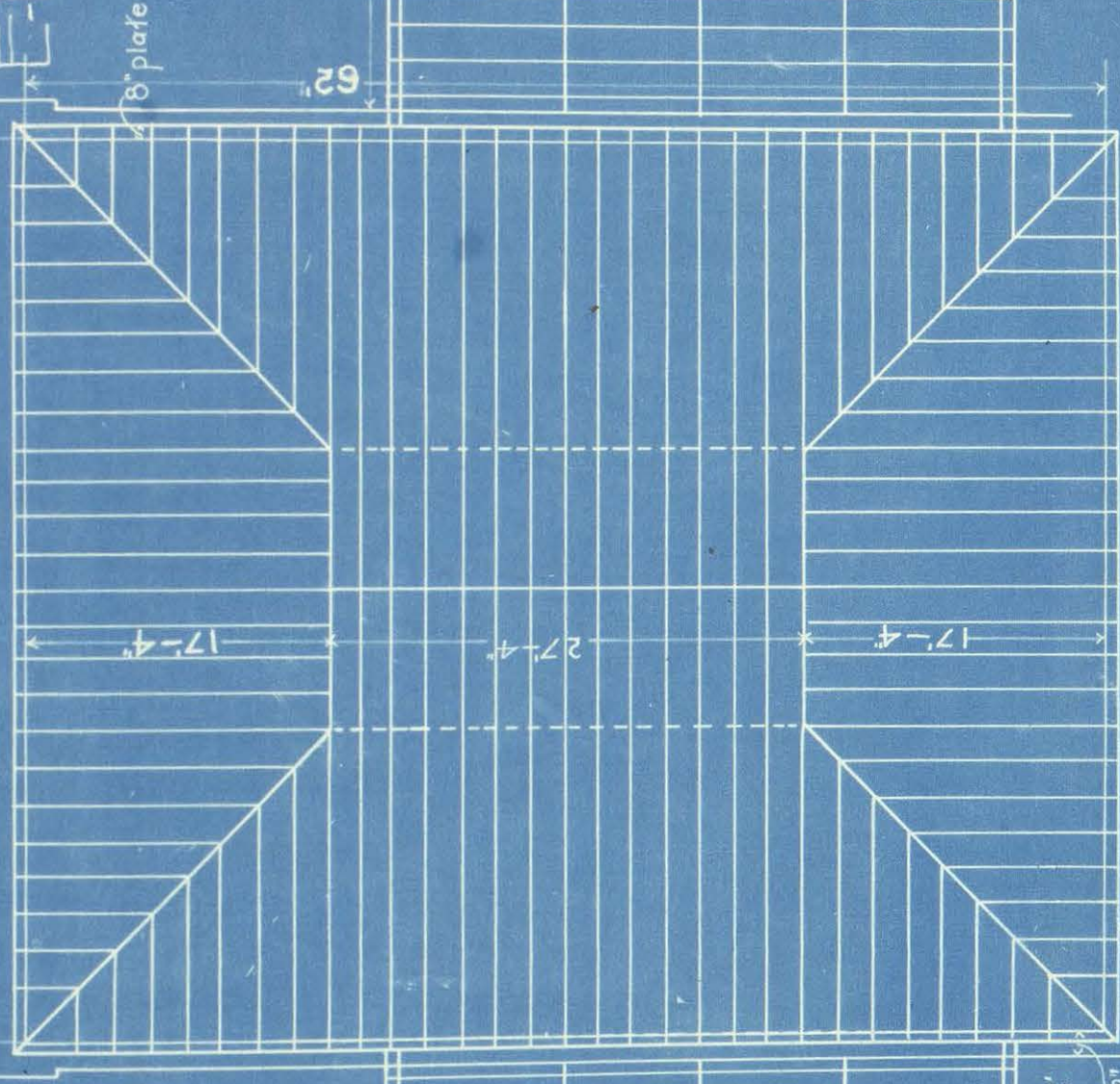
Scale $\frac{3}{32}'' = 1'$

DESIGN

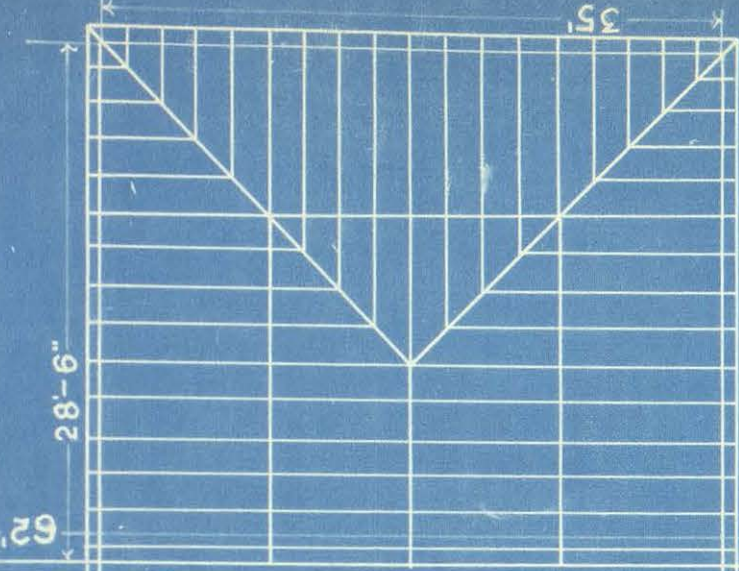
of a

PUBLIC LIBRARY
JEFF-BLIGHLE

7



Rafters 2"x6", spaced 2'
Slate Shingles 18"

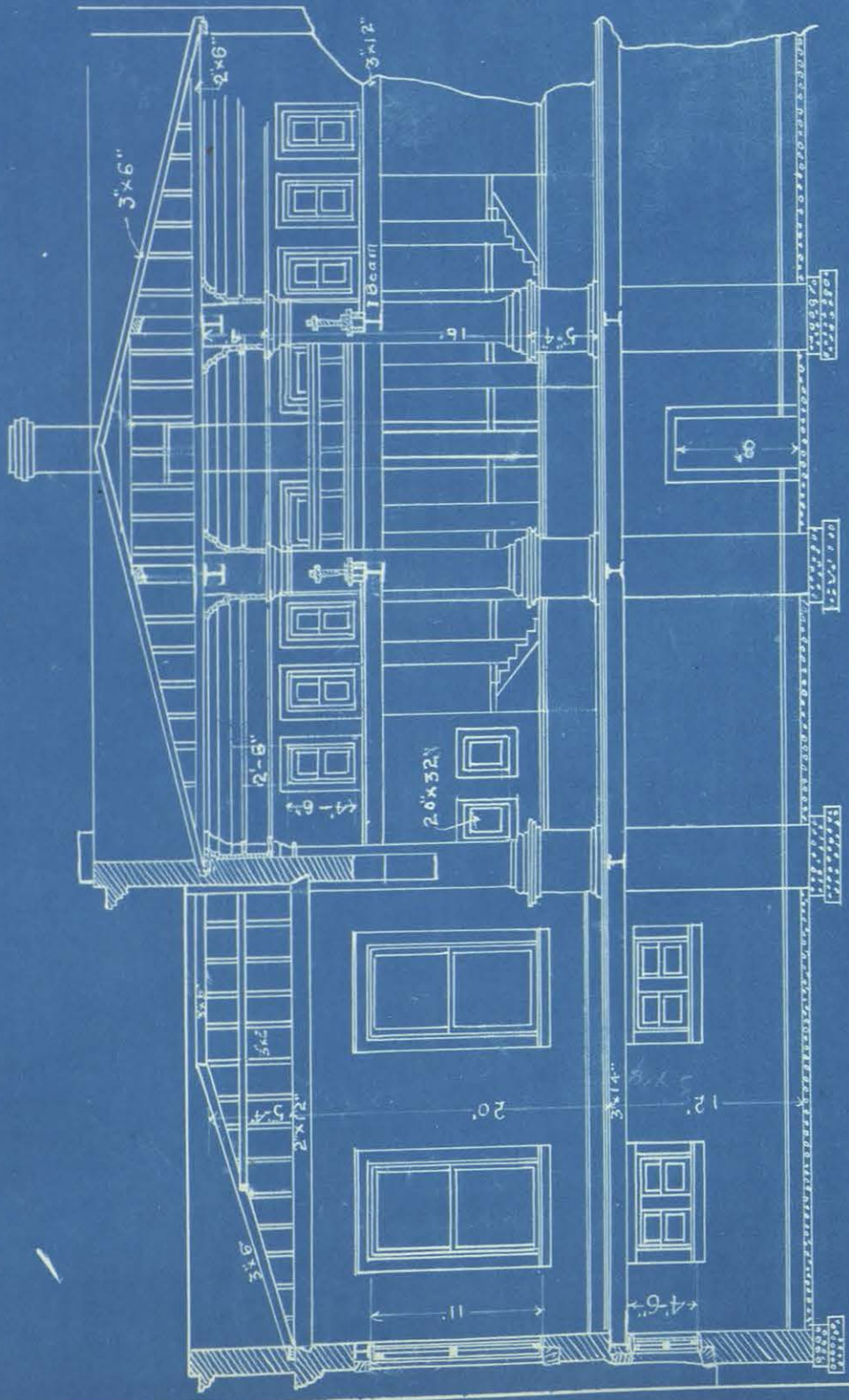


ROOF PLAN

8

DESIGN
of a
PUBLIC LIBRARY
E-E-BEIGHLE

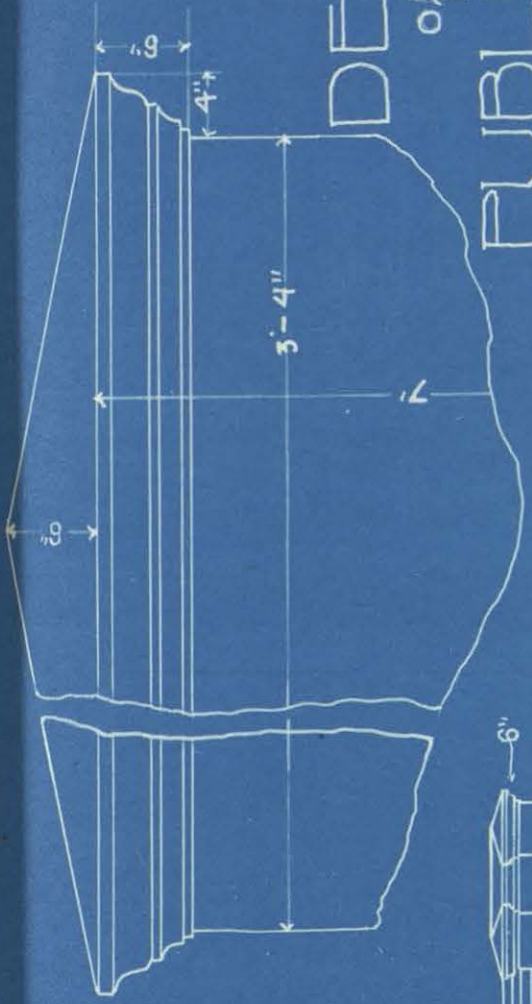
Symmetrical



CROSS SECTION

9

DESIGN
of a
PUBLIC LIBRARY
E.E. BEIGHLE



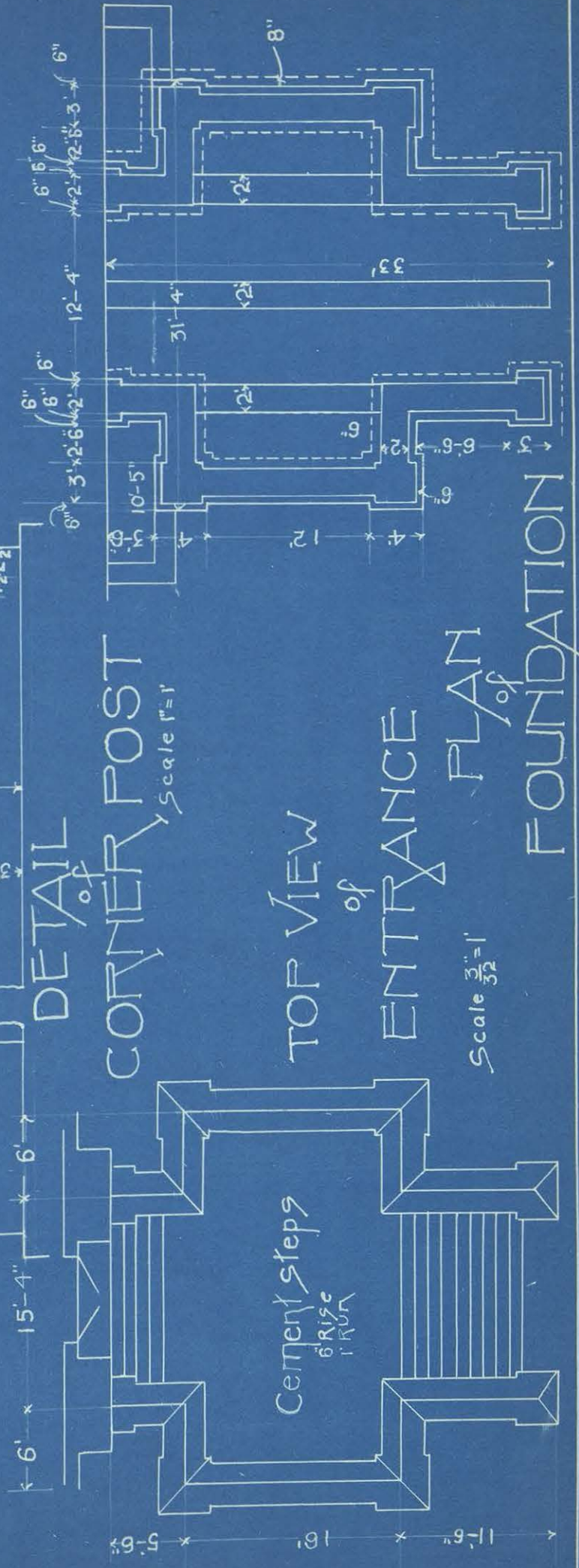
ELEVATION

DETAIL

CORNER POST
Scale 1"=1'

TOP VIEW
of
ENTRANCE

Scale 3/32"=1'



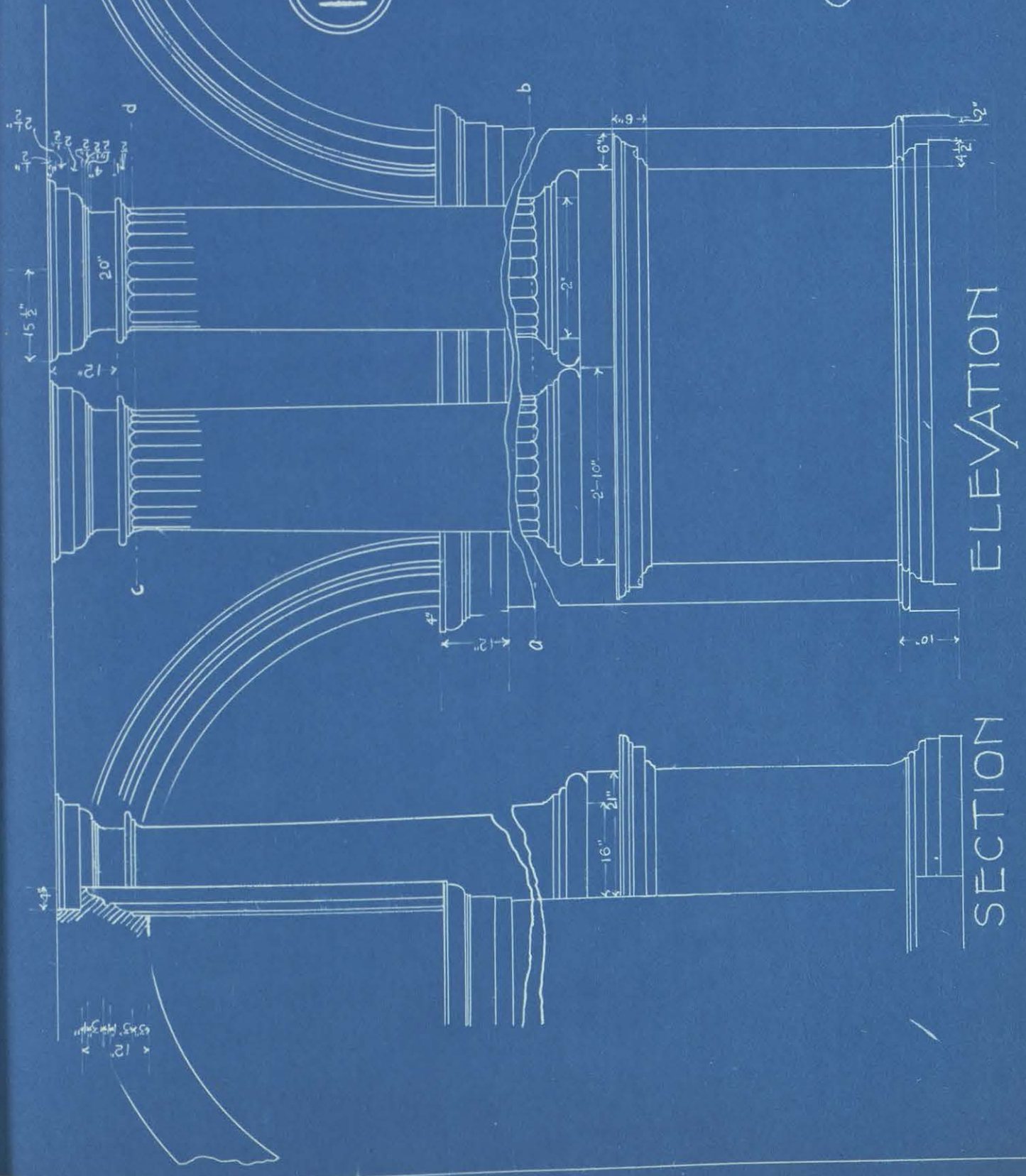
PLAN of
FOUNDATION

DESIGN
of
PUBLIC LIBRARY
FEBIGALE

10

DETAIL
of
COLUMNS

Scale $\frac{1}{2}'' = 1'$



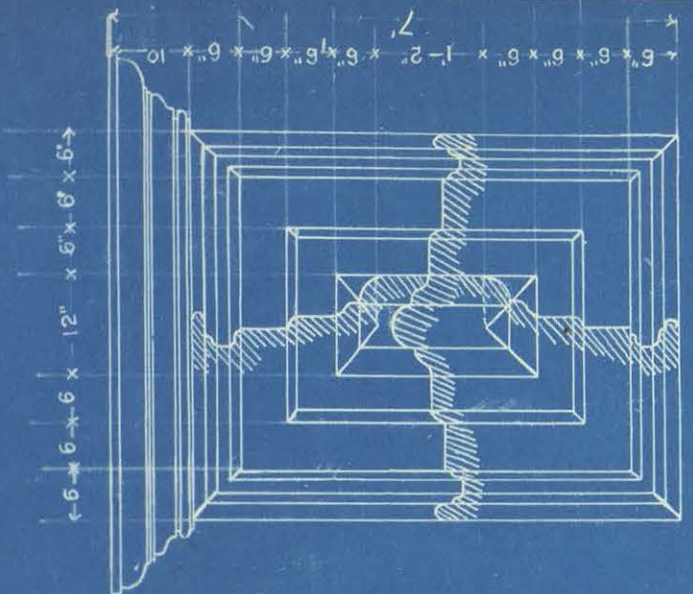
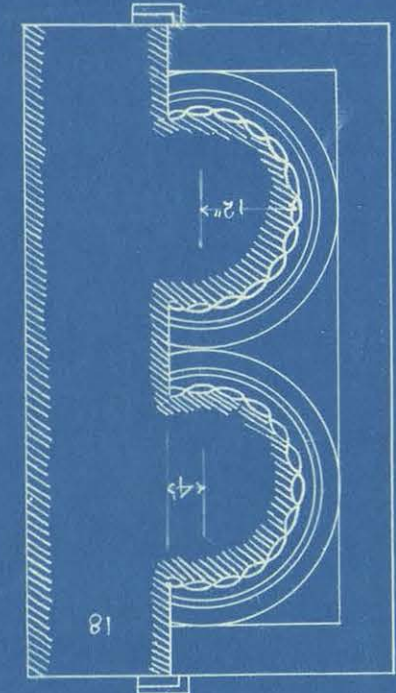
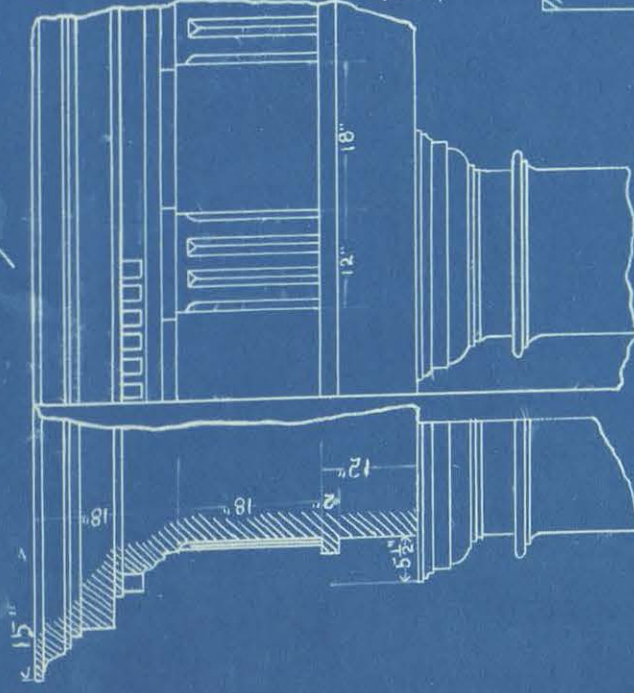
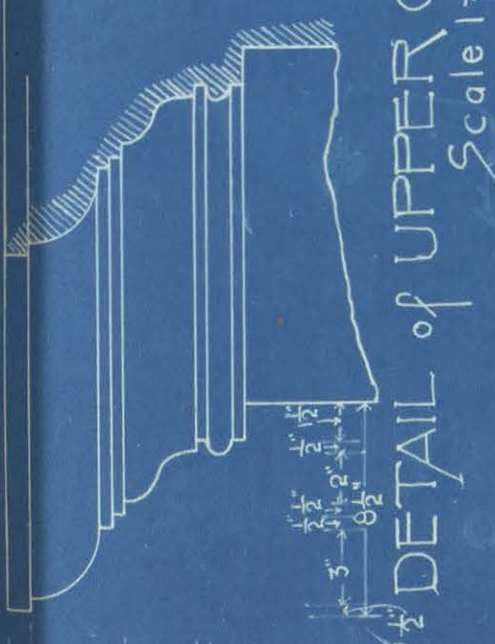
ELEVATION

SECTION

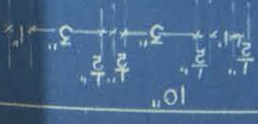
DESIGN

11

of a PUBLIC LIBRARY E-E-BEIGHLE



Scale $\frac{1}{2}" = 1"$



12

DESIGN of a PUBLIC LIBRARY

E-E BEIGHLE

