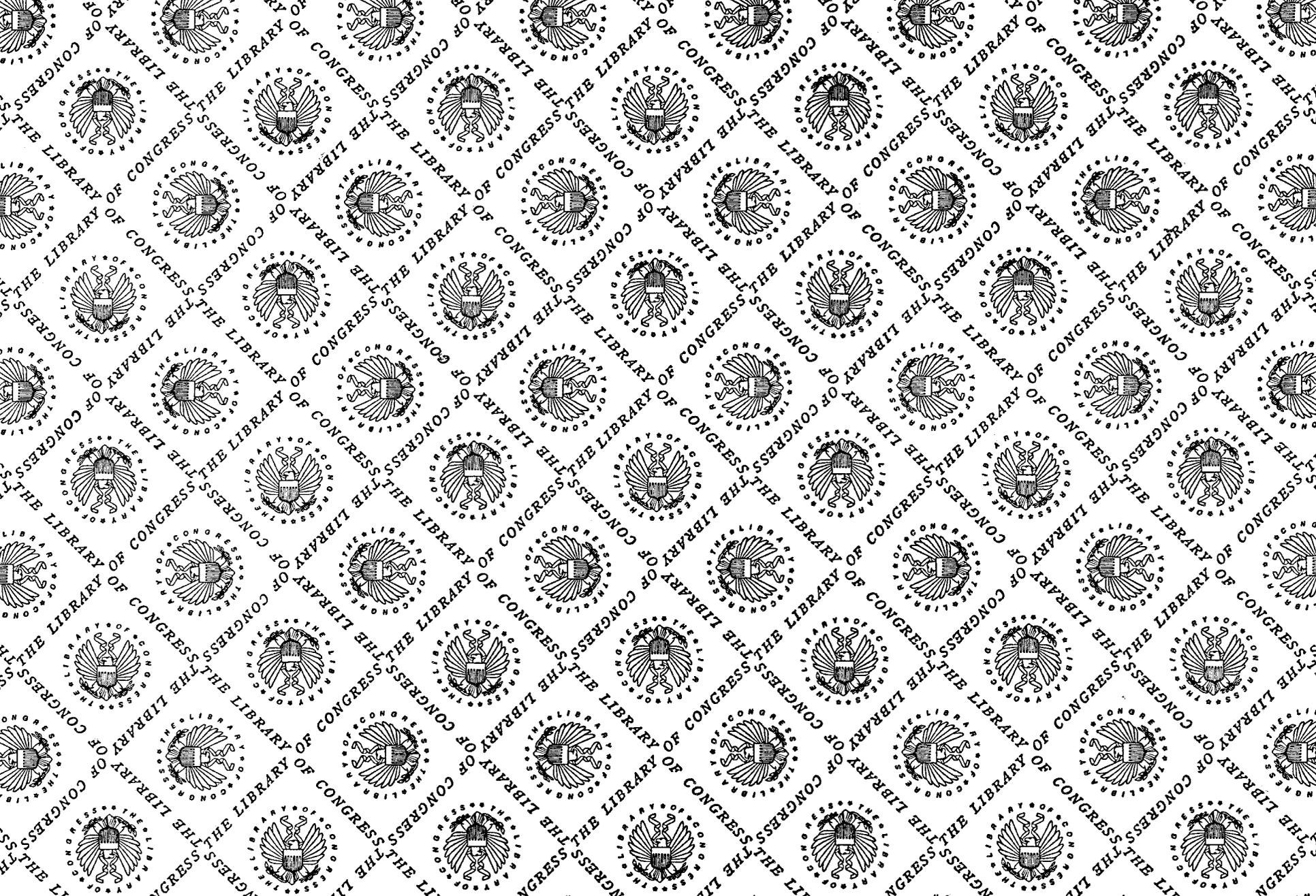
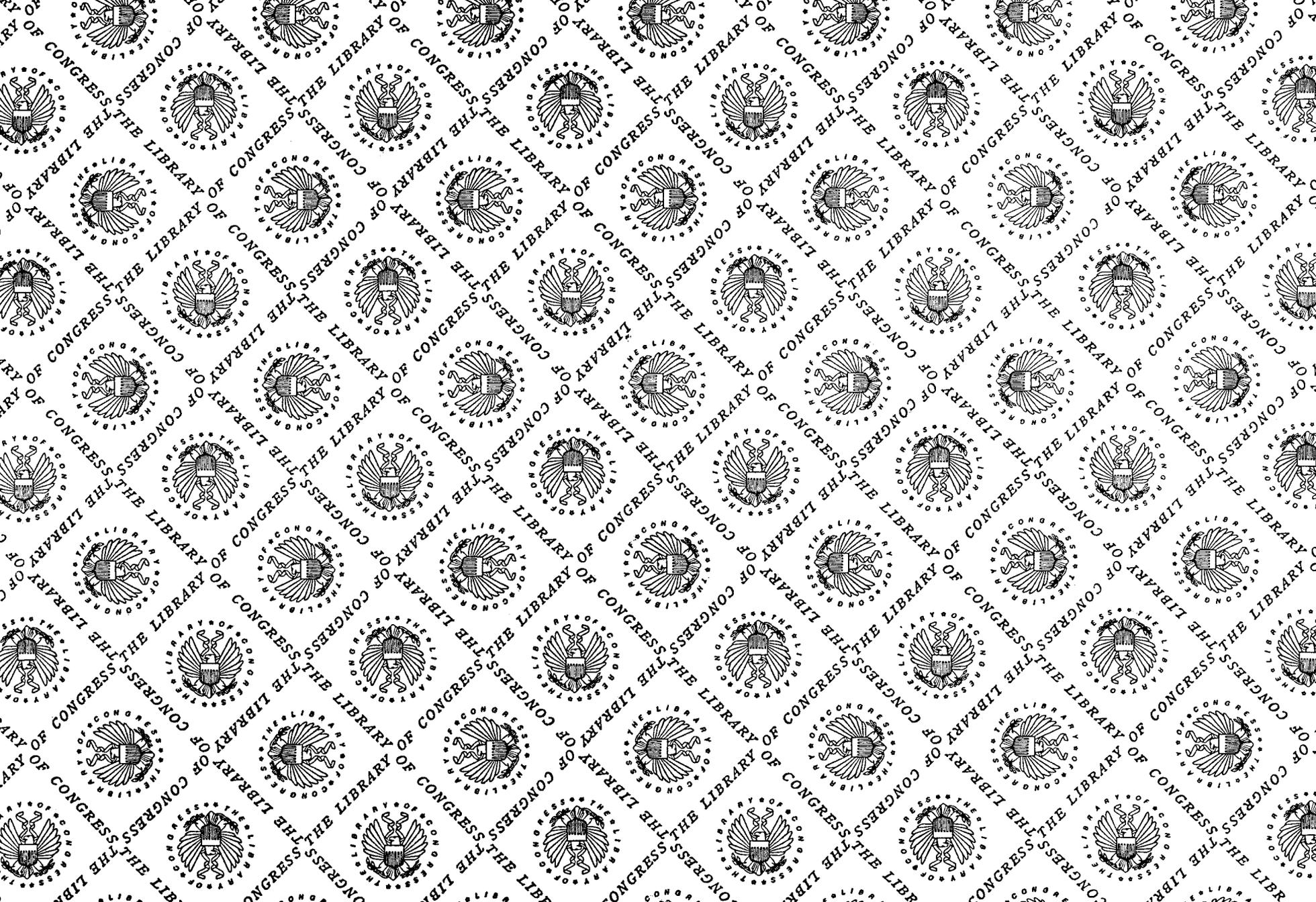
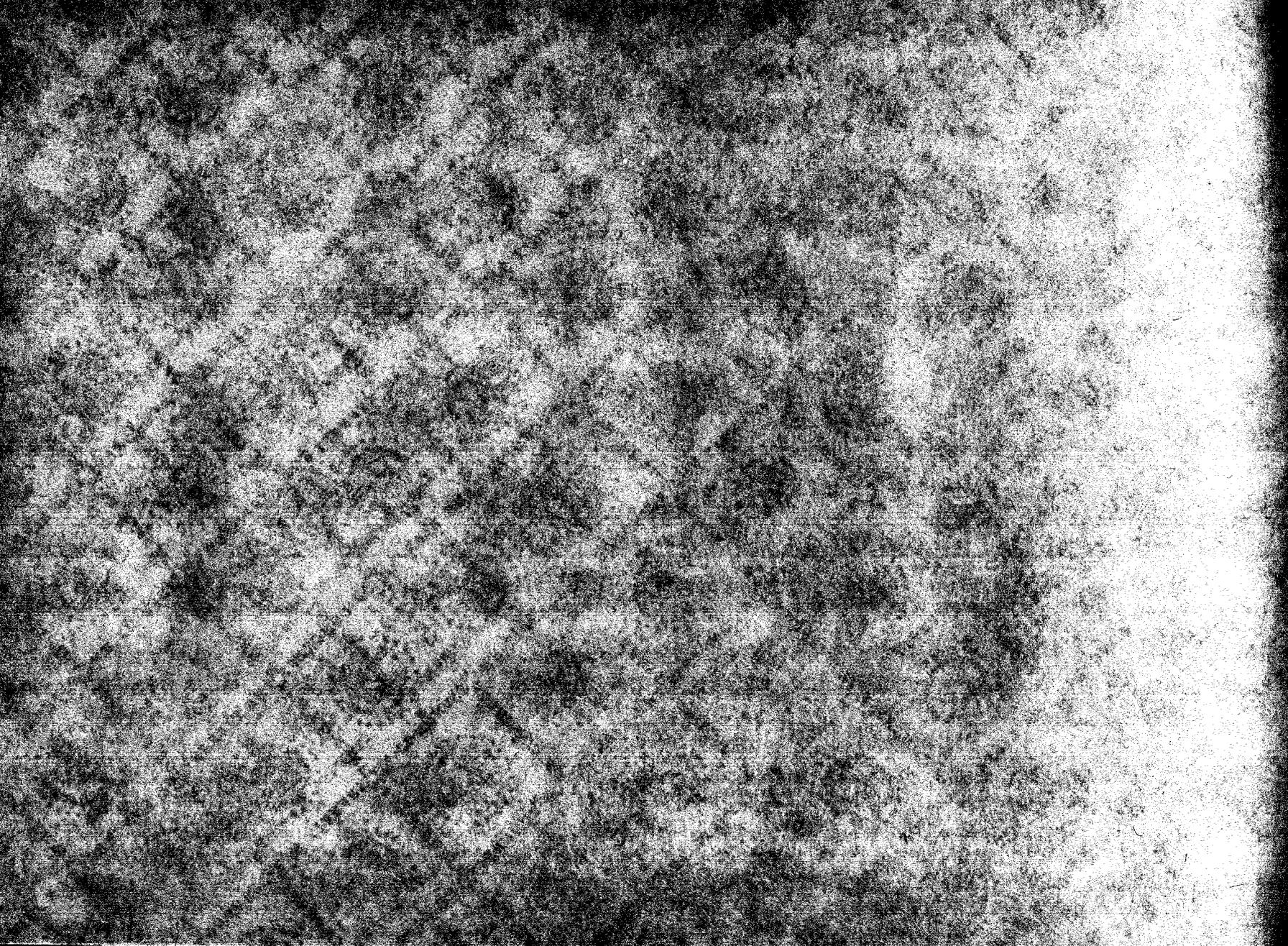


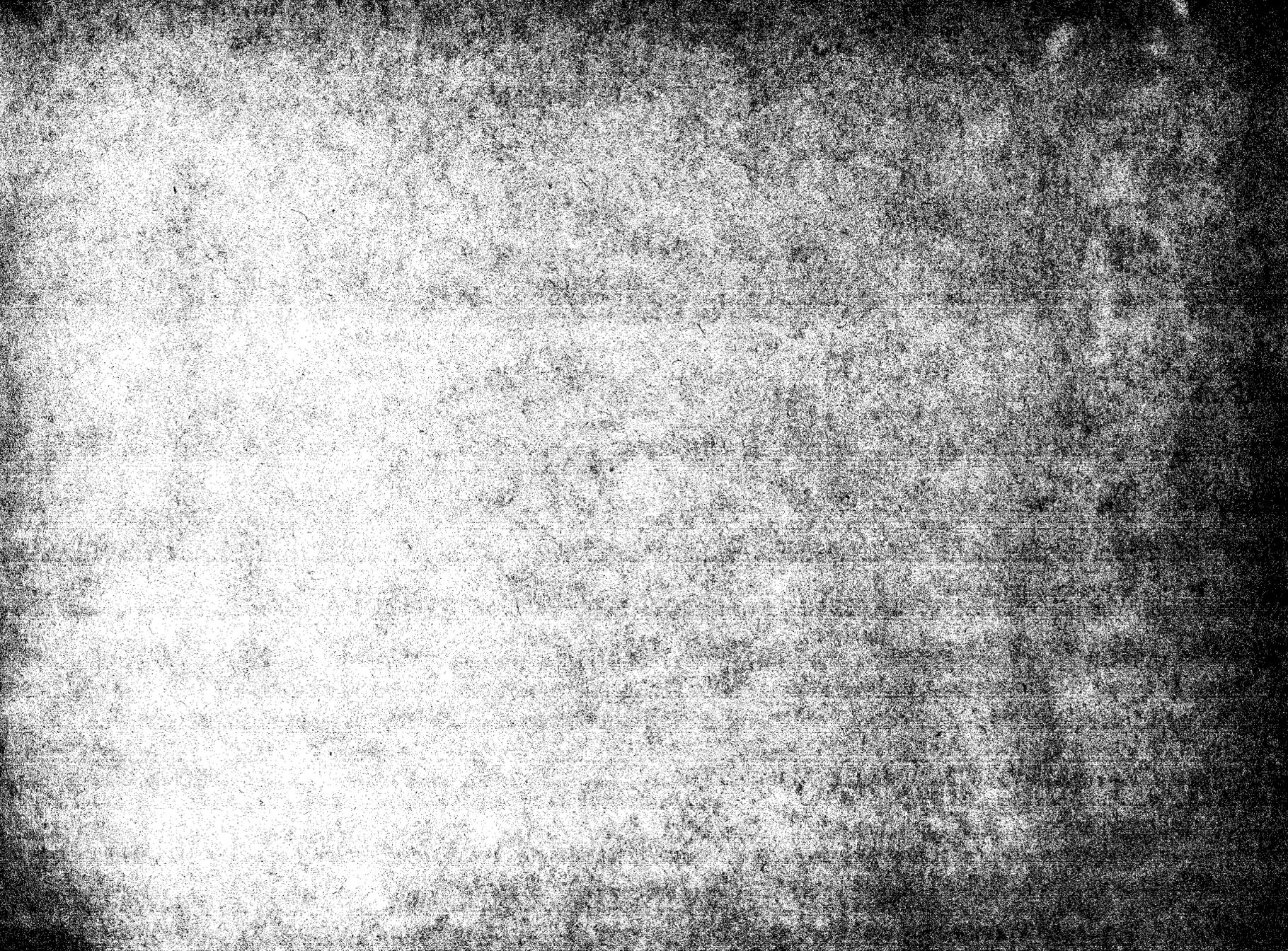
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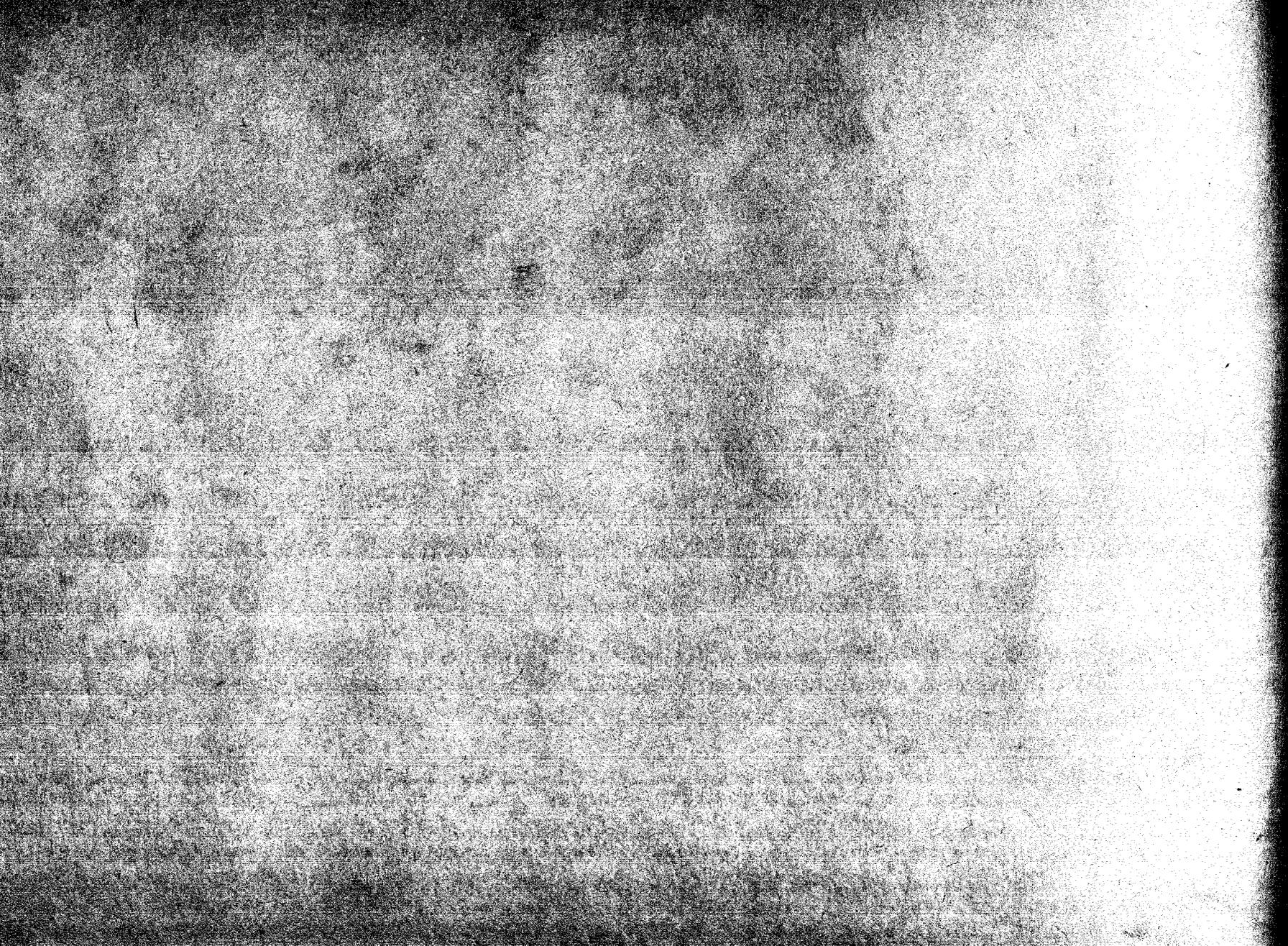
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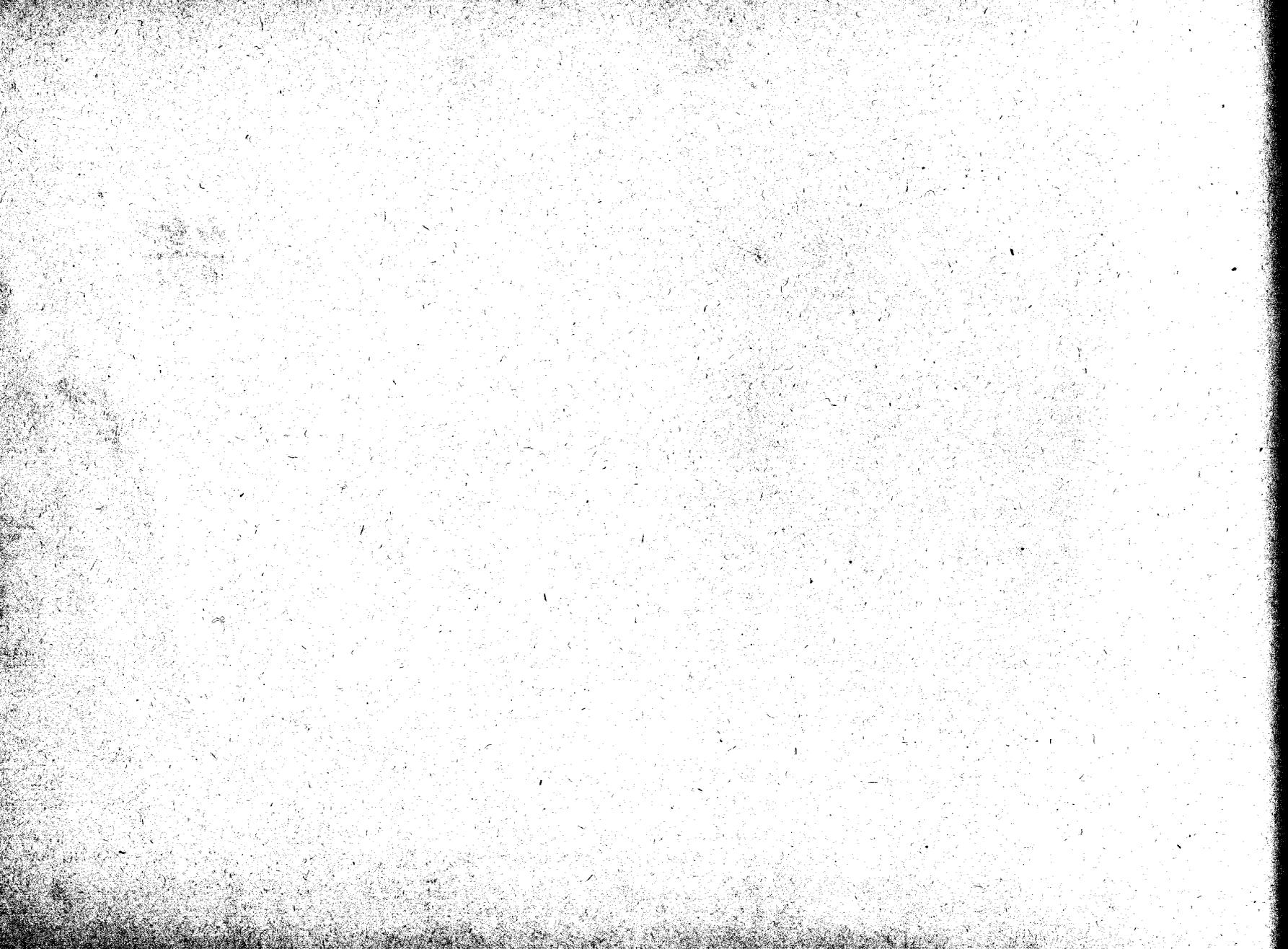






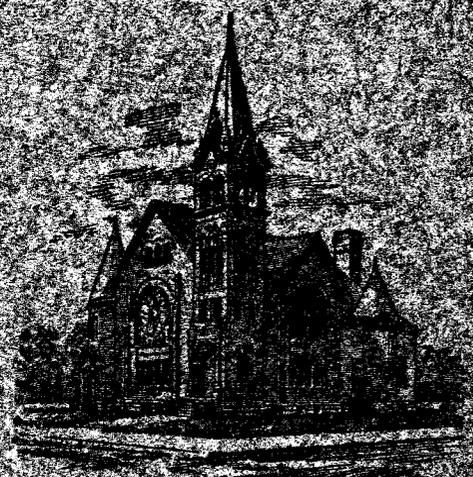






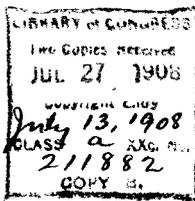
SCHIPPEL'S
CHURCH BUILDINGS

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PRICE 50 CENTS

ALBERT SCHIPPEL
ARCHITECT
MANKATO MINN



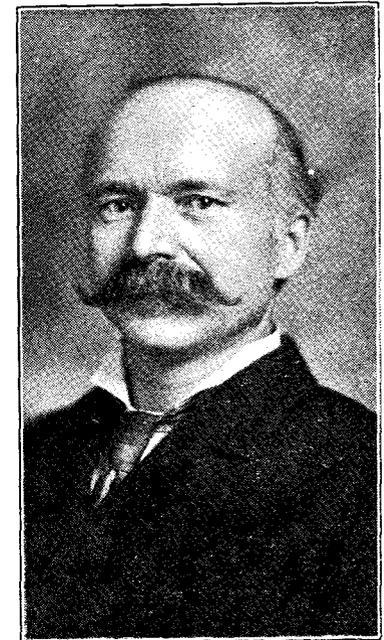
SCHIPPEL'S CHURCH BUILDINGS

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All readers of this architectural catalog are respectfully cautioned not to build or use portions of plans as contained herein except by special written permission of the author.

In issuing this book, which contains some of my many studies for **Church** buildings with floor plans, also views of other buildings, noting the names of cities in which several of them have been erected, I hope to interest those who contemplate building.

I also make special mention of some of the different contractors and dealers in material, who have constructed buildings or furnished me with material during the past twenty-two years of my business experience in Mankato. If you are interested in building a new church, school, hospital, hotel or anything in the building line write to me for information and sketches.



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ALBERT SCHIPPEL
ARCHITECT
MANKATO, MINN.

PREFACE.

“Knowledge is power.” It has been said that there are two kinds of knowledge, the one to know facts and the other to know where to find facts. The object of this publication is to enable the prospective builder to find facts which are equivalent in this case to knowing facts; to put in the hands of the intending builder the power of knowledge—knowledge of what constitutes good plans, design and construction.

The knowledge contained between the two covers of this book represents an outlay of thousands of dollars in time and money and embodies the best thoughts and ideas obtainable in the matter of modern church buildings.

WHEN ADVICE IS OF VALUE.—When one contemplates building, it is in the early stages of the enterprise that the architect should be selected. The advice and experience of a trustworthy architect should be secured by all means. Do not expect an architect to put the best ideas on paper for you, unless you have a positive understanding with him that he is to do the work. Parties who struggle along themselves with all the preliminary work and later on employ an architect do not secure full services. The most valuable portion of a plan, and often its most vital points, are rendered during its embryotic period; therefore do not then begrudge an architect payment for original ideas.

PROSPECTIVE CLIENTS.—Prospective clients at a distance should be very emphatic, if they mean business, as I get so many idle inquiries to which I can pay no attention. I take great interest in appreciative clients, who insist on

having plans carried out right when they get them, as it means satisfaction all around and leads to further work.

THE NECESSITY OF PLANS.—An architect's plans and specifications save money and avoid delay and mistakes, especially such plans as I turn out, all accurately drawn and carefully figured. They will save many times their cost, besides you have the satisfaction of having embodied style and convenience in your building. It is a mistake to suppose that you can build intelligently without such service; to put your own ideas in condensed and practical form. I facilitate the taking of estimates from contractors, as they can then bid accurately. Complete plans save much worry, and you are not then obliged to take everybody's advice. The first essential is a good floor plan, then an artistic exterior, of clear-cut outline, free from cheap ornamentation or extremes of any kind, taking into consideration heating, light and ventilation.

SPECIAL DRAWINGS.—Special plans will be furnished at the rate of three and one-half per cent of the actual cost, or for a fee of not less than \$25.00, including full details and carefully worded specifications, all of which will receive my personal attention. Persons not rated must send one-third of total fee with order, or not less than ten dollars as a deposit, the remainder to be paid on the completion and delivery of the plans and specifications. If individual checks are sent, add 15 cents for exchange. When the full price of plans is sent with order express charges will be prepaid, otherwise plans will be sent C. O. D. with express and return charges payable by purchaser. See form of order blank in back of book and information blank on page 5 of this book.



ALBERT SCHIPPEL
ARCHITECT
MANKATO, MINN.

DRAWINGS.

THE FREE ARCHITECT.—Of all the pests that ever infested a community including the busy-body, the know-it-all, the butter-in, no one of them have ever equalled, much less excelled, the expensive annoyance caused the home store, bank or other builder, as well as building committees, by the free architect. He is the man who will furnish the plans free if you will give him the building contract or if you will buy from him the materials used in order that he may arrange everything to his own advantage.

C. O. D. ORDERS.—Plans and specifications, unlike merchandise, convey ideas, and these are what are charged for, and while in general the prospective client's sincerity is not in the least doubted, it is hardly reasonable to expect plans to be sent as ordinary merchandise subject to your notions after they arrive; I therefore endeavor to work on the Christian Law of exchange. That is, "Give as much as I can" and I show as much as I consistently can in the book for the money, and my policy is to endeavor to give as much or more than is expected for the money, and I, therefore, cannot take any speculative chances on your fancies. The excellent facilities of my office makes it possible to give you many times more and better work for your money than is procurable elsewhere.

The zinc etchings and half-tone cuts of buildings herein illustrated were reproduced from the original drawings on file in my office and represent drawings made during my regular office practice. The drawings mentioned in this book with each design are Blue prints from the original working drawing accompanied by typewritten specifications. **NOTE.** I will change the specifications to suit your location and the kind and quality of materials to be used without extra cost provided said information is given me when ordering plans. The estimates of cost are figured for 1907-8 average price for Southern Minnesota and Northern Iowa. The first given price of building is for soft wood, interior finish painted. The second price given of building is for hard wood, interior for oil finish, and includes better attention to minor details, both interior and exterior, however both prices may vary some according to location and market conditions. **NOTE.** Any design herein illustrated can be changed to cement block veneer construction or cement plaster on metal lath, or the frame buildings changed to brick or stone at an additional cost for plans of one per cent of the given estimated cost of the buildings as shown or described. The prices quoted for each set of plans and specifications do not include any alterations in the drawings for which extra charges will be made from \$5.00 on up according to the time required to make said alterations, however, the specifications will be changed as noted above. The cost of plans and specifications as given do not include heating, plumbing and electric wire specifications or special drawing for the same. Except as noted in each description for designs.

ALBERT SCHIPPEL
ARCHITECT
MANKATO MINN.

Does it Pay to Employ an Architect?

An architect's plans are the greatest economy in building operations and the cheaper the building the greater is the importance of plans.

For instance take it on a \$1,000 basis, for cheap but convenient illustration, what is \$35 or 3½ per cent for accurately-drawn plans, and details of construction and carefully-worded specifications, when in the first place the style and dignity which an architect-planned building gives is 500 per cent greater than that of the common-place amateur-planned building.

We will lay the artistic point of view aside, presuming that there is only about one in a thousand that has any definite appreciation of true architectural style, and look at the practicable side of it.

For simple example we will say that you have built a \$1,000 structure, and the man who built it went ahead without definite outlines. In such instances after everything is complete, the owner usually sees about 150 per cent of defectiveness, which might have been avoided by paying an architect \$35 on the \$1,000 or 3½ per cent.

For illustration he might say to himself: I would give \$15 if my building set a little higher, an item which would have cost practically nothing. Had cellar or basement windows, as put in, been placed differently for better light and protection I would give \$5. If wall had been specified to

prevent settlement \$10. If flooring had been specified to be laid properly without springing \$15. If frame work had been specified so as to substantially brace house \$20 extra. If siding had been specified so as to prevent so many unnecessary joints \$15 extra. If shingles had been specified so as to prevent leaks \$20 extra. If valleys had been specified to sufficiently lap under shingles \$10. If plastering had been specified so as to prevent unnecessary cracking \$15. If interior finish had been put on so as to prevent warping from walls \$10. If interior varnishing had been specified to obviate roughness \$15 extra. Total general defectiveness \$150.00, aside from the matter of design, which the architect would have looked out for.

Besides this, there is easily 10 per cent or \$100 which could have been saved in the desirability of all contractors figuring on the same basis from one certain set of plans and specifications.

For instance, taking a conservative view of it on a \$1,000 basis for the building. This is what might have been saved. By the excavating being clearly shown you could probably have saved \$15. By the stone work being accurately shown and figured you would have saved \$30. The plasterer \$20. The painter \$15.

Now, we have \$150 on a \$1,000 in defectiveness and a \$100 loss in guess work in figuring, or \$250 on the \$1,000 or 25 per cent, yet the architect's fees, the cheapest item of all, has seemed expensive at 3½ per cent at the outset. Furthermore you would have had an unprejudiced party to consult in event of dispute.

ALBERT SCHIPPEL
ARCHITECT
MANKATO MINN.

Now which would have been best, pay the architect his $3\frac{1}{2}$ per cent and secure a stylish building, or have your work 25 per cent wrong and have a building which looks no better than the ordinary every-day structure?

Albert Schippel, Architect,
MANKATO, MINN.

Information Desired for the Making of Sketches for Building other than shown in this Book.

Should you like to have me make you sketches for any kind of a building, no charge will be made if order is placed with me and in all cases my charges are reasonable. Should you already have plans, and desire figures, kindly write parties whose advertisements appear in this book and mention where you obtained their names.

To assist me in making sketches for you on approval, kindly send me the following information, and any other that may occur to you, so that I may work intelligently.

Is your lot a corner or an inside one, and what are the points of compass? What is the character of the soil?

What is the character of building you propose erecting?

Number and kind of rooms required; what are they to be used for; what are the materials to be used in its construction?

How is the building to be finished inside?

Proposed cost of building; and does cost of building given include heating and plumbing and what kind?

Will there be water and sewer in the street, or will a cess-pool or septic tank be made use of?

When is the next meeting of committee, and when do they meet to select plans and architect?

Should there be any special features you desire to have worked in this building, let me know what they are and as fully as possible.

Should you desire to consult with me in person, with the idea of having me make sketches, or complete drawings, kindly write me and I will try to meet any appointment you may make.

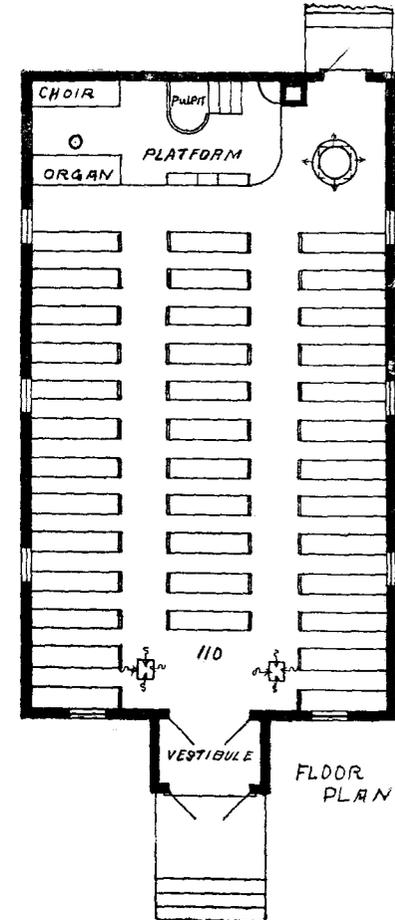
ALBERT SCHIPPEL, Architect,
Mankato, - - - Minn.

ALBERT SCHIPPEL
ARCHITECT
MANKATO, MINN.

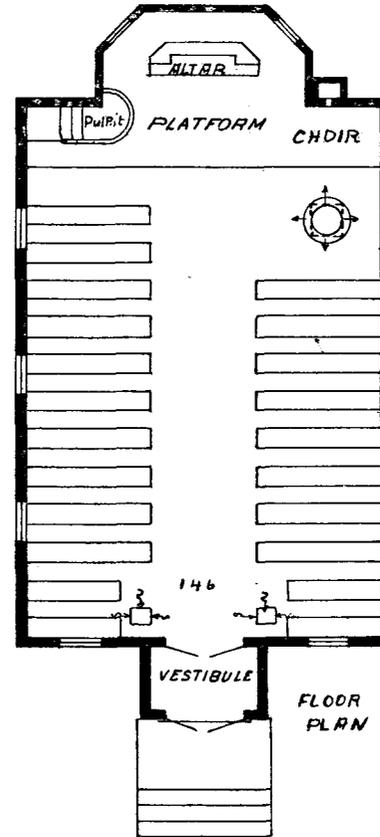
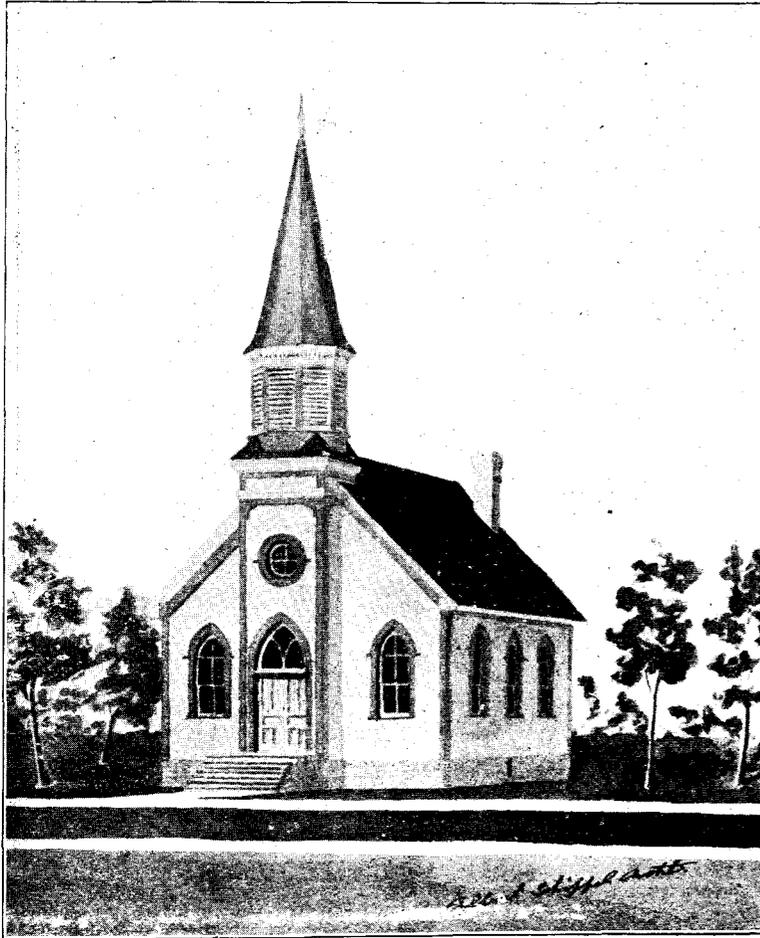


DESIGN NO. 500.

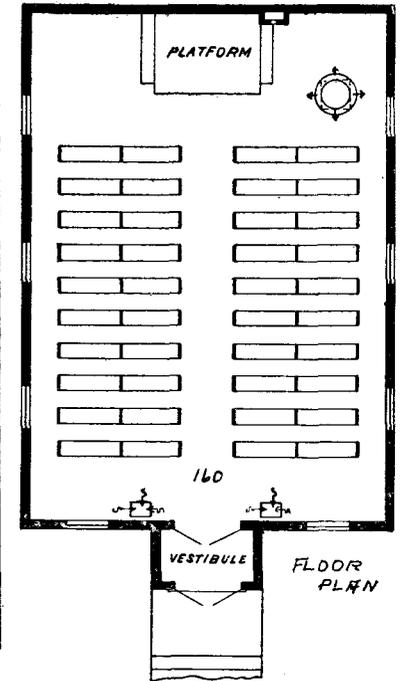
A frame construction with stone foundation, no basement. Plain glass, interior and exterior finish plain, tinned belfry deck, shingle roof, 110 sittings in pews, when necessary 40 chairs can be added. Size of main building $25\frac{1}{2}$ x 44 ft., 12 ft. posts, ceiling 17 ft. high in center. Cost \$1,000 to \$1,200. Blue prints consist of foundation, main floor, a sectional drawing, front, and side elevation, and all necessary interior and exterior details. One set of plans and specifications cost \$10. Duplicate sets with original order cost \$3.00 each.



ALBERT SCHIPPEL
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DESIGN NO. 501.



DESIGN NO. 501-A.

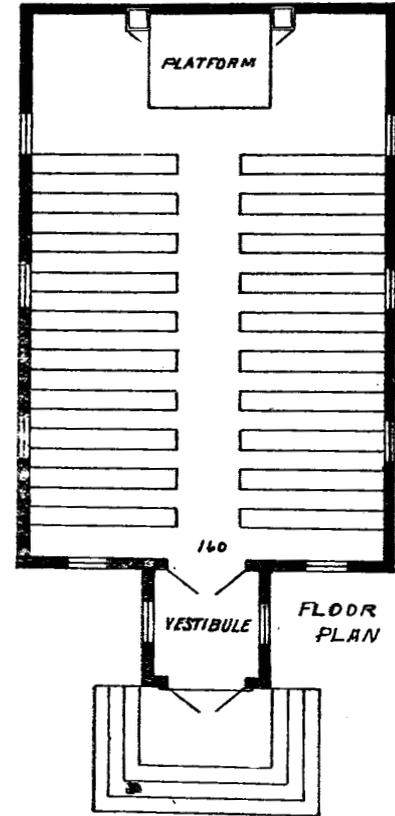
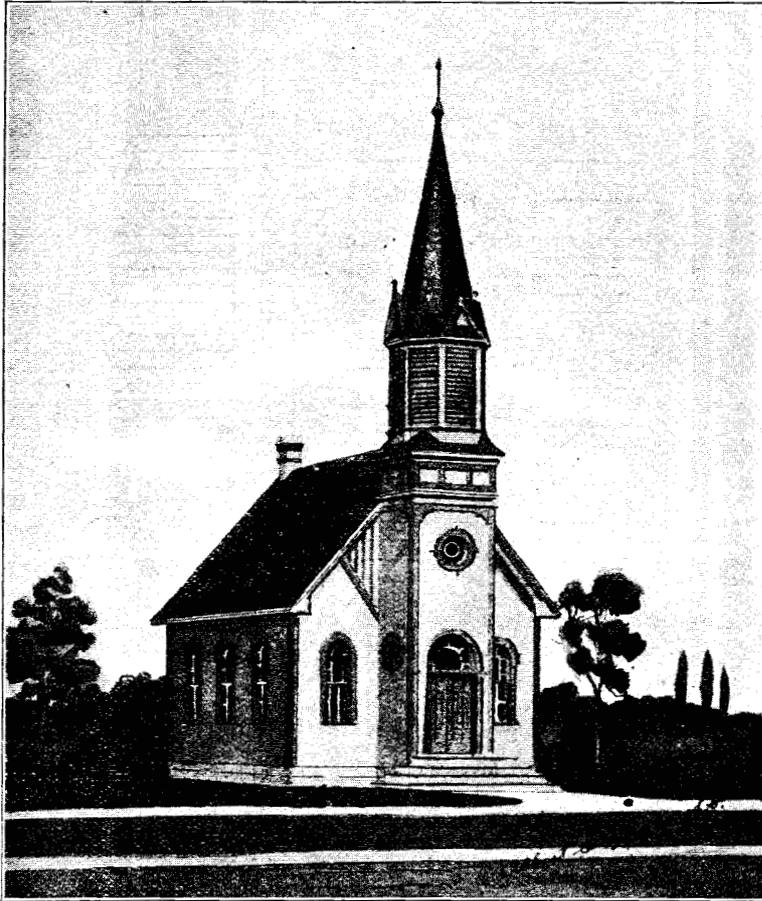
This design is the same as described in 501 has 160 sittings in pews, when necessary 30 chairs can be added. Size of main building 28 x 40 ft. 14 ft. posts, ceiling 19 ft. high in center. Cost \$1,300 to \$1,500. Blue prints consist of foundation, main floor, a sectional drawing, front and side elevation and all necessary interior and exterior details. Cost of one set of plans and specifications \$12.00. Duplicate sets of with original order \$4.00 each.

A frame construction with stone foundation, no basement. Plain glass, interior and exterior finish plain, tinned belfry deck, shingle roofs, 146 sittings in pews. When necessary 20 chairs can be added. Size of main building 24 x 36 ft. 14 ft. posts, ceiling 20 ft. high in center. Cost from \$1,100 to \$1,300. Blueprints consist of foundation, main floor, sectional drawing, front and side elevation and all necessary interior and exterior details. Cost of one set of plans and specifications \$10.00. Duplicate sets with original order cost \$3.00.

ALBERT SCHIPPEL

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MANKATO MINN.



DESIGN NO. 502.

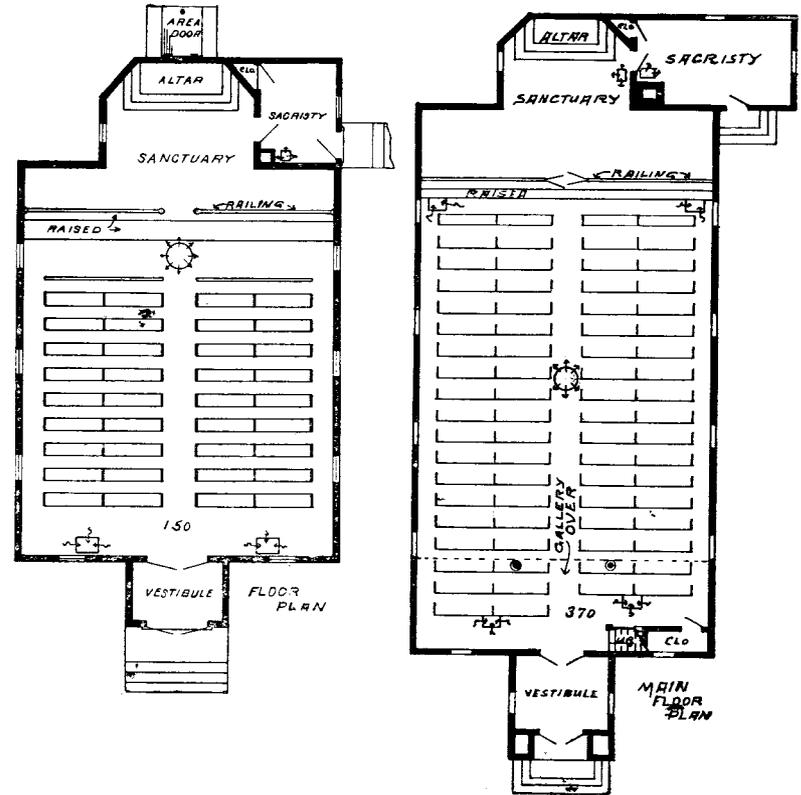
A frame construction with stone foundation, no basement. Plain glass, interior and exterior finish plain, tinned belfry deck, shingle roof, 160 sittings in pews, when necessary 15 chairs can be added. Size of main building 24 x 36 ft. 14 ft. pews, ceiling 20 ft. high in center, cost \$1000 to \$1,200. Blue prints consist of foundation, main floor, a sectional drawing front and side elevations and all necessary interior and exterior details. Cost of one set of plans and specifications \$10.00. Duplicate sets with original order \$3.00 each.

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MANKATO, MINN.



DESIGN NO. 503.

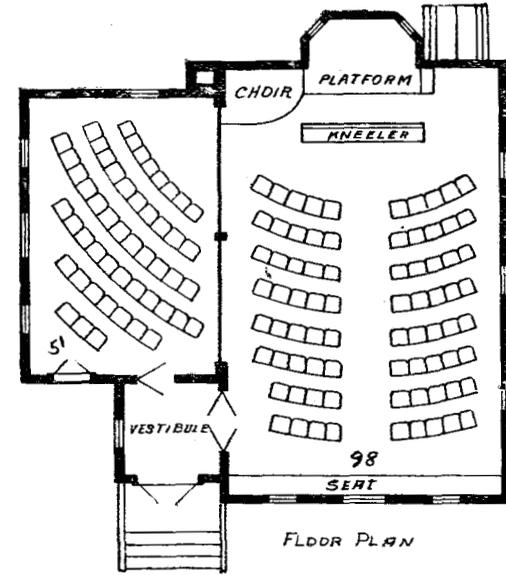
A frame construction with stone foundation, excavated through center for furnace, fuel and cold air boxes. Plain glass and finish, tinned belfry deck and shingle roof. 150 sittings in pews, when necessary 50 chairs can be added. Size of main building 32 x 40 ft. 16 ft. posts, ceiling 23 ft. high in center. Cost \$1,800 to \$2000. Blue prints consist of foundation, main floor, a sectional drawing, front and side elevation, and all necessary interior and exterior details. Cost of one set of plans and specifications \$18.00. Duplicate sets with original order \$6.00 each.



DESIGN NO. 503-A.

This design is similar to No. 503 but is 35 x 65 in size, with 17 ft. posts, ceiling 26 ft. high in the center, crystalline glass, recessed front doors with gallery over front part with belfry tower openings closed with Louvres, and with large rose window over front entrance, and one rose window at each side of front entrance in place of regular windows as shown in design No. 503, also a cupola in center of roof for ventilation. 370 sittings in pews, when necessary 30 chairs can be added. Cost \$4,000 to \$5,000. Blue prints consist of foundation, main floor, a sectional drawing, front, rear and two side elevations, and all necessary interior and exterior details. Cost of one set of plans and specifications \$40. Duplicate sets with original order \$10 each.

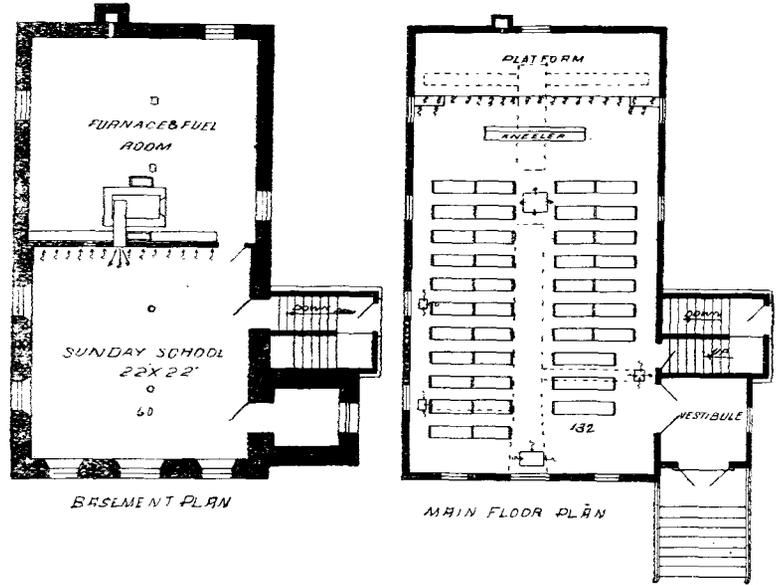
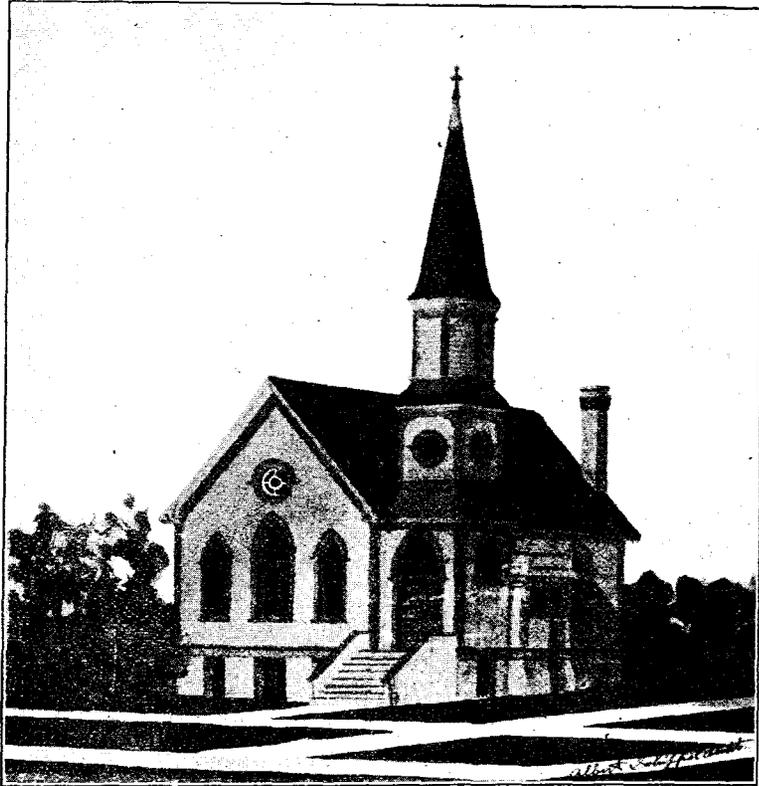
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 MANKATO, MINN.



DESIGN NO. 504.

This design is very popular and has been built many times and is of frame construction with stone foundation with basement 6 ft. deep for furnace and fuel. Crystalline glass interior and exterior finish plain. A wall book case is provided in the chapel, tinned belfry deck, shingle roofs, 98 sitting in main audience room, 51 sitting in chapel or Sunday-school when necessary 56 chairs can be added if pews are used instead of opera chairs in auditorium. 32 sittings can be added. The chapel is connected to main audience room with two slide up doors, which is very convenient for using each room separately or both together, as may be desired. Size of main building 24 x 36 chapel 24 x 16 ft. 14 ft. posts, ceiling 21 ft. high in center. Cost \$2,500 to \$3,500. Blue prints consist of foundation, main floor, front, rear and two side elevations with sectional drawings and all necessary interior and exterior details. Cost of one set of plans and specifications \$25.00. Duplicate sets with original order \$8.00 each.

ALBERT SCHIPPEL
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 MANKATO, MINN.



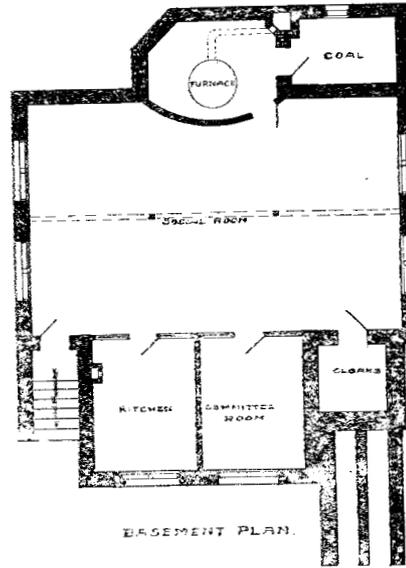
DESIGN NO. 505.

This design is of frame construction with full stoned up basement 9 ft. in the clear with Sunday-school room to accommodate 60 pupils. That can be reached with an easy stairway from main audience room or from grade entrance. Interior and exterior plain, crystalene glass, tinned belfry deck, shingle roofs, 132 sittings in pews, 50 chairs can be added when occasion requires. Size of main building 26 x 46 ft. 14 ft. posts, ceiling 20 ft. high in the center. Cost \$2,000 to \$2,500. Blue prints consist of foundation, main floor, front and one side elevation, sectional drawings, and all necessary interior and exterior details. Cost of one set of plans and specifications \$20.00. Duplicate sets with original order \$6.00 each.

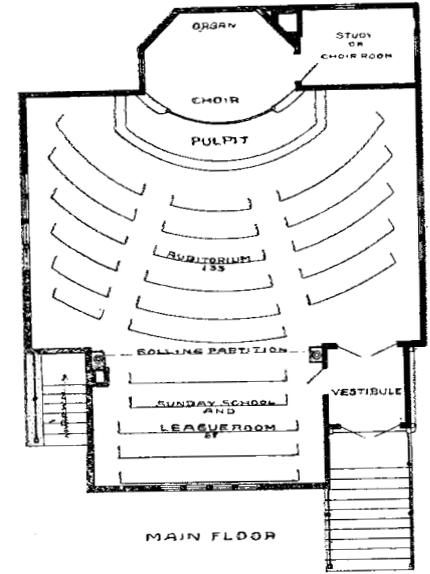
ALBERT SCHIPPEL

ARCHITECT

MANKATO MINN.



BASEMENT PLAN.

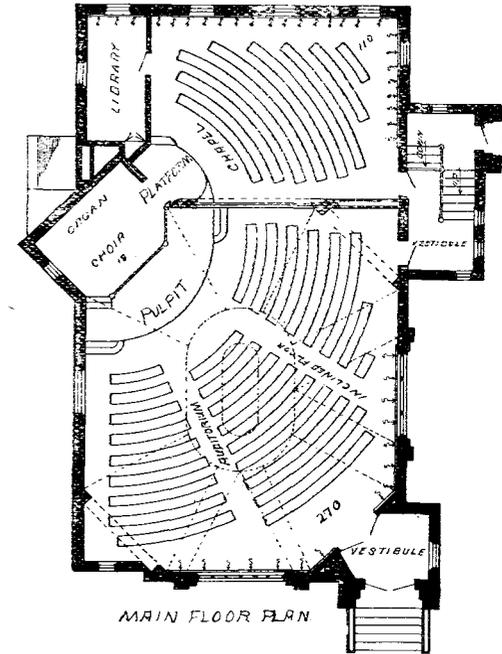
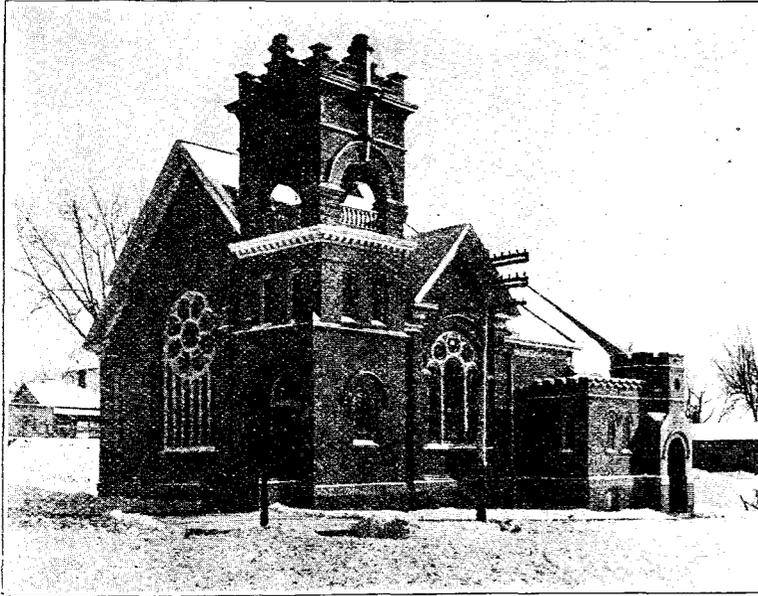


MAIN FLOOR

DESIGN NO. 506.

This design is of frame construction with full stoned up basement, with social room, kitchen and committee room, furnace and fuel room, with beautiful exterior design, art glass, modern interior arrangement, curved pews, 133 sittings in main auditorium and 60 sittings in Sunday-school or League rooms to which 36 chairs can be added when occasion requires. Main auditorium and Sunday-school room are separated by rolling partition, with elevated platform for choir and organ chamber. The room adjoining same may be used for a choir room or a Pastors study with outside entrance door and steps at rear. Size of main building 26 x 40 ft., Sunday-school 14 x 24 ft. with 14 ft. posts, ceiling 23 ft. high in center.

Cost \$3,800 to \$4,500. Blue prints consist of one foundation, main floor, front, rear and side elevations, with sectional drawings and all necessary interior and exterior details. Cost of one set of plans and specifications \$35.00. Duplicate sets with original order \$9.00 each. This design can be enlarged up to 300 sittings with good results and have inclined floors.



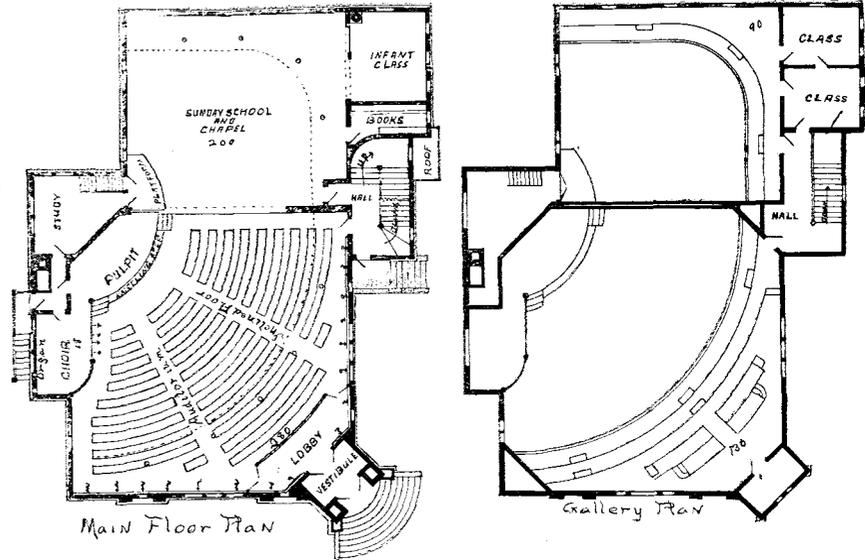
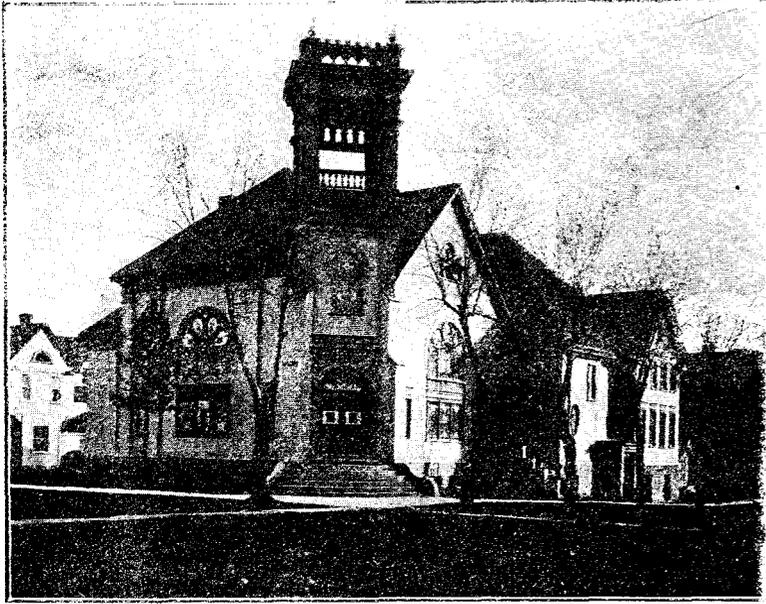
DESIGN NO. 557.

This design is of brick construction with a stoned up basement, size 40 x 70 ft. over main part, front part not used, furnace and fuel room under pulpit and organ chamber, social room and kitchen under chapel and library. Exterior of modern design, press brick, stone trimmings and art glass, interior main auditorium has bowled floor, circular dome ceiling 28 ft. high in center, curved pews, 270 sittings, chappel has level floor and ceiling and has 110 sittings, 70 chairs can be added when necessary. A slide up door separates main auditorium from chapel and a sliding door between choir and chapel. The heating and ventilating and accoustics have received special attention. Cost \$8,000 to \$10,000. Blue prints consist of foundation, main floor, front, rear and side elevations, sectional drawings, and all necessary interior and exterior details. Cost of one set of plans and specifications \$60.00. Additional sets for same building if ordered with first set are \$15.00 each.

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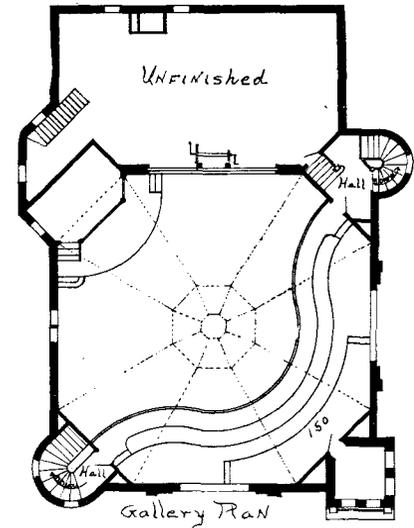
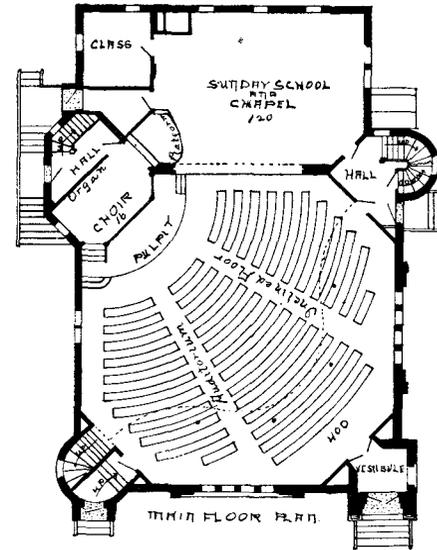
MANKATO, MINN.



DESIGN NO. 558.

This design is of frame construction with full stoned and bricked up basement and contains gymnasium 33 x 38-12 ft. in the clear and with dining room, kitchen, parlor, reading room, dressing rooms, boiler and fuel rooms, all 10 ft. in the clear and unfinished. Size over main part 50 x 85. Exterior is of a handsome low tower design with tinned belfry deck and roof, beautiful art glass, modern interior arrangement, has pastors study and class rooms, curved pews, 380 sittings, bowled floor, raised pulpit and choir platforms, ceiling 24 ft. high in center, Sunday-school and chapel has level floor and 200 sittings, separated from auditorium by large slide up door, gallery over both departments with 220 sittings, red oak interior finish, heating ventilating and the accoustics have received special attention, cost \$15,000 to \$20,000. Blue prints consist of one foundation, main and gallery floors, front, rear and side elevations, roof and seating plan, longitudinal and transverse sections and all necessary interior and exterior detail drawings. Cost of one set of plans and specifications \$75.00. Duplicate sets with original order \$15.00 each.

ALBERT SCHIPPEL
ARCHITECT
MANKATO. - MINN.



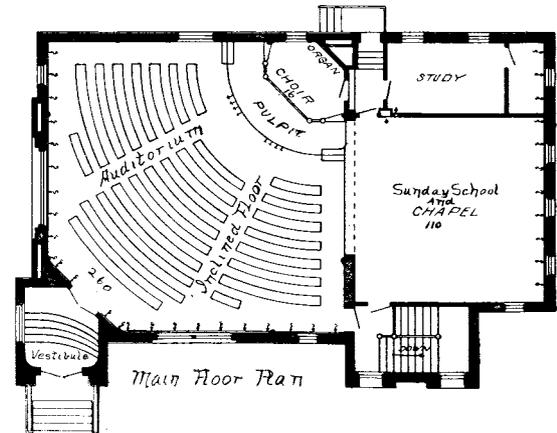
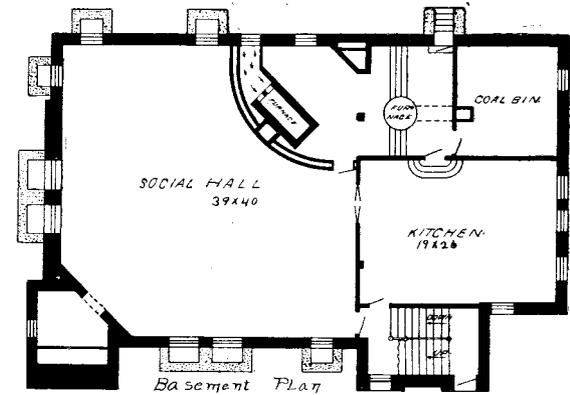
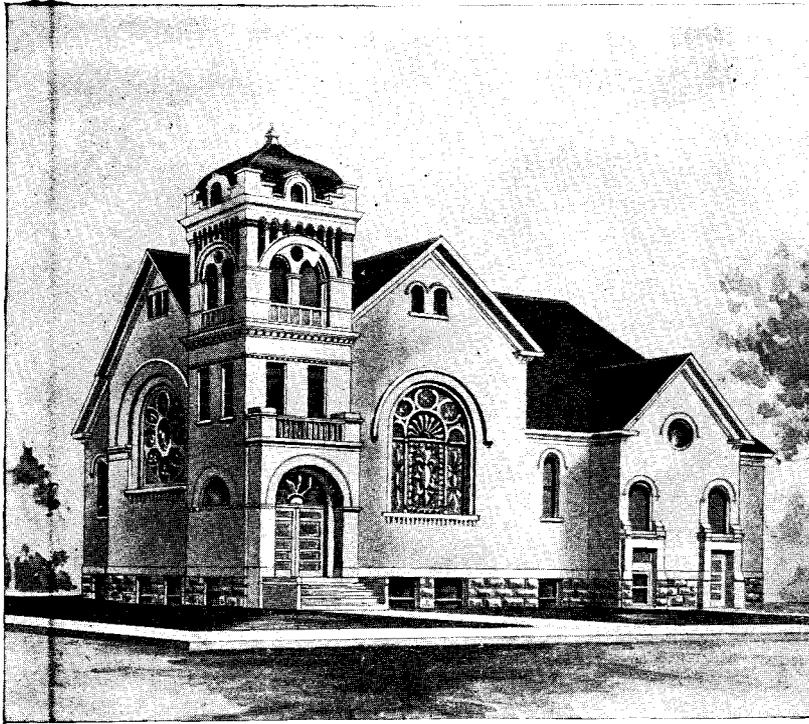
DESIGN NO. 551.

This design is of brick construction with a stoned up basement, size over main part 50 x 74 ceiling has octagon shape with octagon dome in center, height of ceiling near center 26 ft. to center of dome 32 ft. Exterior is of modern design of press brick with stone trimmings; art glass, bowled floor, raised pulpit and choir platform, curved pews, 400 sittings, chapel floor level, 120 sittings, separated from auditorium with large slide up door. Gallery has 150 sittings; oak interior finish. The heating, ventilating and accoustics are given special attention: on completion of this building the accoustics were tested by the committee and found perfect. Cost \$18,000 to \$22,000. Blue prints consist of foundation, main and gallery floor plans, front, rear and side elevations, longitudinal add transverse sections, all necessary interior and exterior detail drawings. Cost of one set of plans and specifications \$80.00. Duplicate sets with original order \$18.00 each.

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ARCHITECT

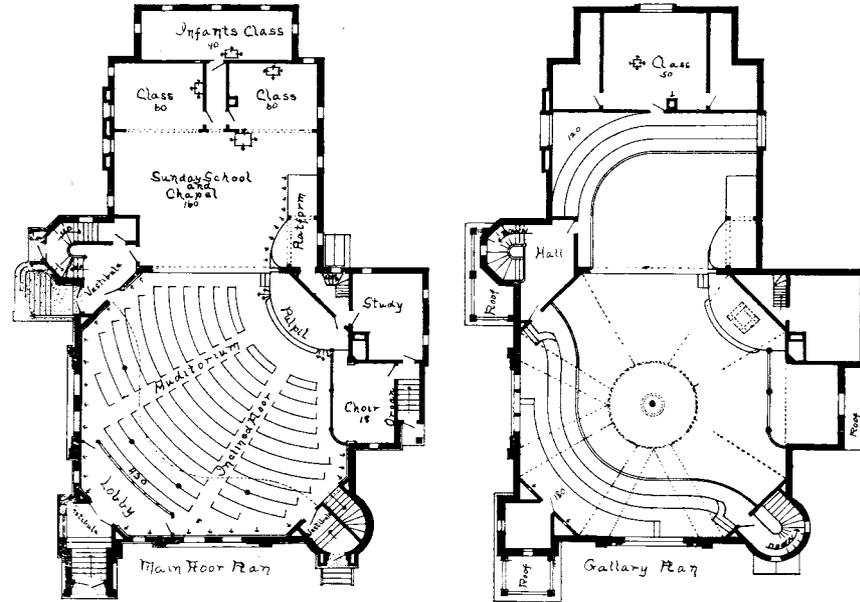
MANKATO. - MINN.



DESIGN NO. 559.

This design is of brick construction with stone trimmings with full stoned up basement, size over main part 42 x 70, beautiful art glass, bowled floor in auditorium, curved pews, 260 sittings, ceiling over is octagon in plan with exposed wood beams, 24 ft. high in center. Chapel has level floor and 110 sittings. A slide up door separates auditorium from chapel. Interior finish is in oak. The heating, ventilating and acoustics are given special attention. Cost \$10,000 to \$12,000. Blue prints consist of foundation, main floor, front, rear and side elevations, sectional drawing and all necessary interior and exterior detail drawings. Cost of one set of plans and specifications \$70.00. Duplicate sets with original order \$15.00 each.

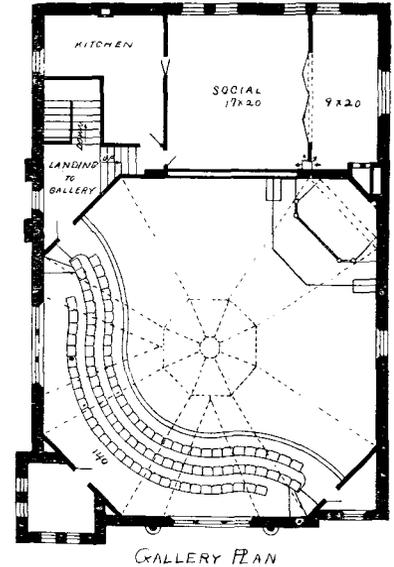
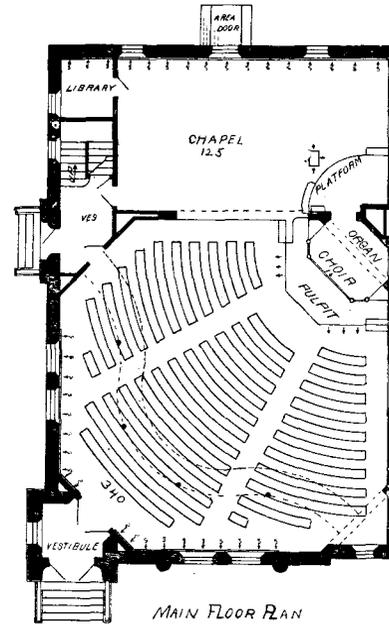
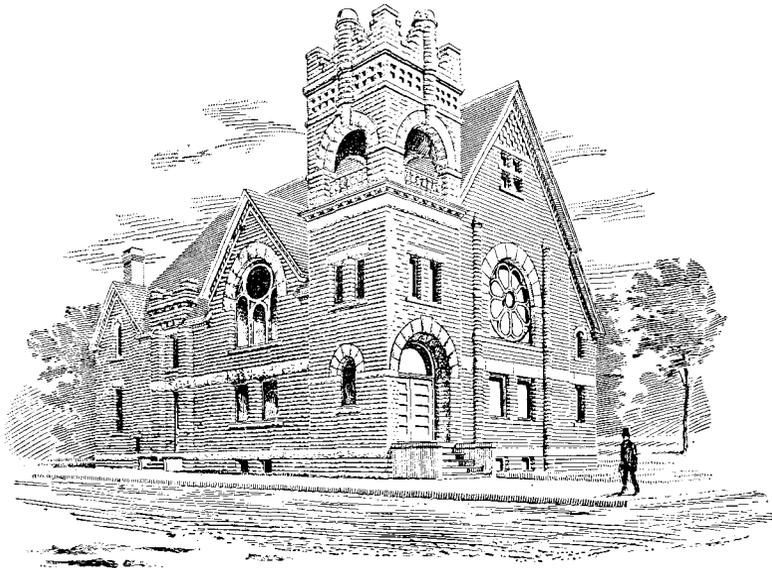
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 ARCHITECT
 MANKATO, - MINN.



DESIGN NO. 553.

This design is of frame construction, brick veneered with stoned up basement, front part not occupied, rear part has parlor, kitchen and dining room. Size over main part 53 x 103 with bowled floor in auditorium, curved pews, 450 sittings, ceiling of octagon pattern with a circular dome, height of ceiling at dome 28 ft., in center of dome 33½ ft. Sunday-school has level floor with 160 sittings, a large slide up door separates the auditorium from the chapel; referring to the floor plans there are 7 class rooms, 1st floor forming part of chapel with one class at rear. A gallery extends over both auditorium and chapel with 180 and 120 sittings. The four class rooms have from 40 to 60 sittings each. Interior finish was in red oak; beautiful art glass. The heating, ventilating and accoustics received special attention. Cost \$20,000 to \$25,000. Blue prints consist of foundation, main and gallery floor plans, front, rear and side elevations, longitudinal and cross sections and all interior and exterior detail drawings. Cost of one set of plans and specifications \$90. Duplicate sets with original order \$20 each.

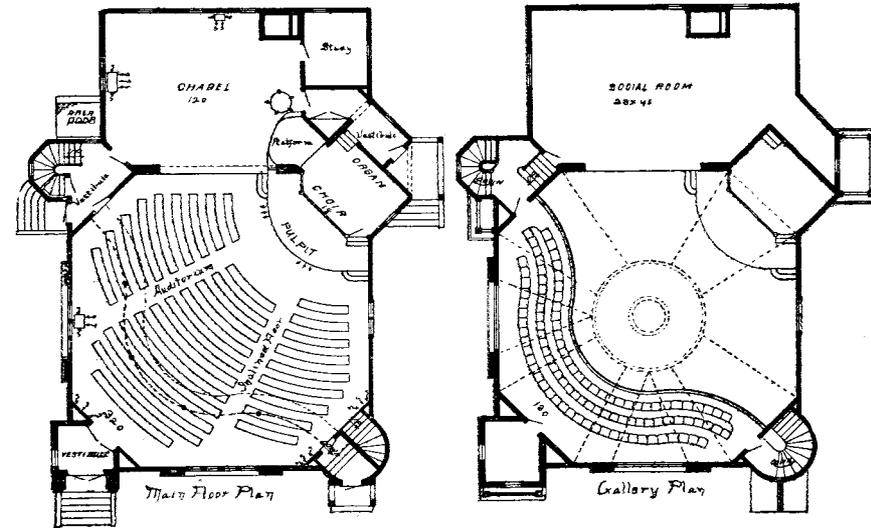
ALBERT SCHIPPEL
 ARCHITECT
 MANKATO. - MINN.



DESIGN NO. 555.

This design is of stone construction with frame roofing and interior. No use of basement was made except for furnace and fuel. Size over main part 48 x 70, art glass, bowled floor, curved pews, 340 sittings, gallery over with 140 sittings, ceiling is octagon pattern with octagon dome in center, height of ceiling at dome 26 ft. in center of dome 30 ft., chapel has level floor and ceiling, 125 sittings with social rooms over, separated from main auditorium with slide up door, interior finish in oak or birch. The heating, ventilating and accoustics received special attention. Cost \$10,000 to \$12,000. Blue prints consist of foundation, main and gallery floor plans, front, rear and side elevations, longitudinal and transe verse sections and all necessary interior and exterior detail drawings. Cost of one set of plans and specifications \$70.00. Duplicate sets with original order \$15.00.

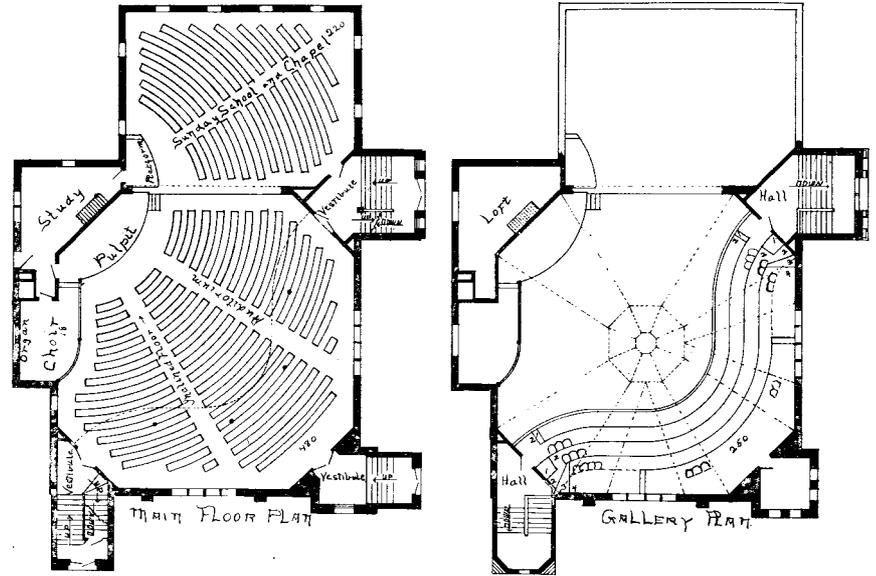
ALBERT SCHIPPEL
ARCHITECT
MANKATO MINN.



DESIGN NO. 552.

This design is of frame construction with brick foundation walls with range stone above grade line, basement not used except for furnace and fuel. Size over main part 46 x 71, art glass, bowled floor, curved pews, 320 sittings, gallery over with 130 sittings, ceiling is octagon pattern with a circular dome in center. Height of ceiling at dome 26 ft., in center of dome 33 ft. Chapel has level floor and ceiling and 120 sittings with social room over, separated from auditorium with large slide up door, interior finish in red oak. The heating, ventilating and accoustics received special attention. Cost \$12,000 to \$15,000. Blue prints consist of foundation, main and gallery floor plans, front, rear and side elevations, longitudinal and transverse sections, all necessary interior and exterior detail drawings. Cost of one set of plans and specifications \$75.00. Duplicate sets with original order \$15.00 each.

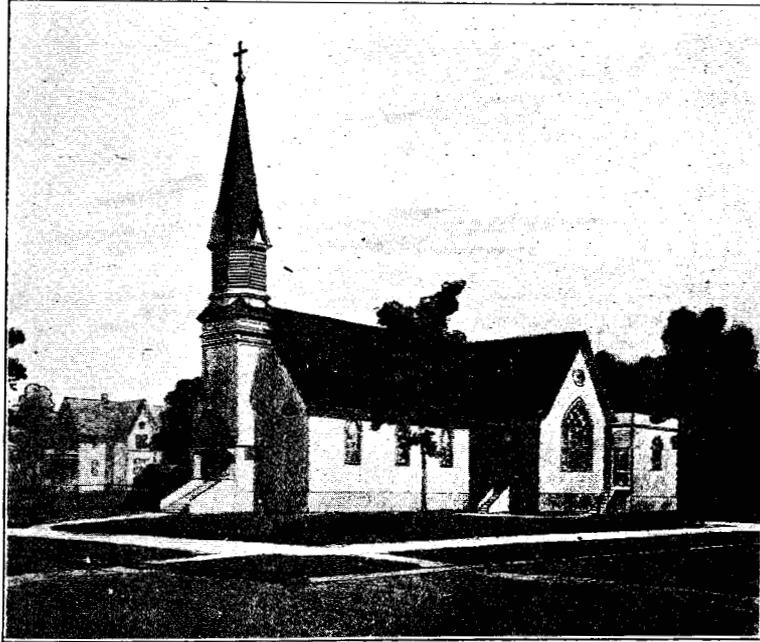
ALBERT SCHIPPEL
 ARCHITECT
 MANKATO. - MINN.



DESIGN NO. 561.

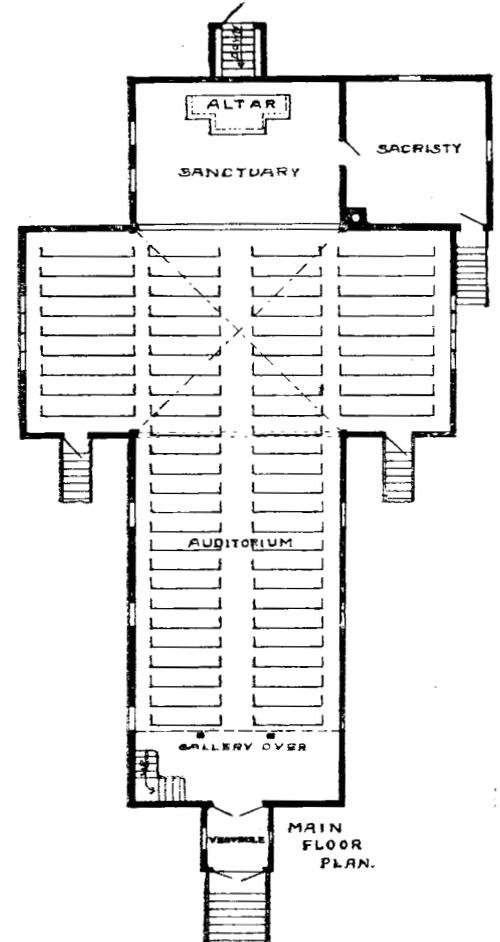
in center of dome 32½ ft. Chapel has level floor, 13 ft. in the clear, 220 sittings, separated from auditorium by large slide up door. Interior finish in red oak. The heating, ventilating and acoustics received special attention. Cost \$22,000 to \$25,000. Blue prints consist of foundation, main and gallery floor plans, front, rear and side elevations, longitudinal and transverse sections, all necessary interior and exterior detail drawings. Cost of one set of plans and specifications \$100.00. Du-

ALBERT SCHIPPEL
 ARCHITECT
 MANKATO, MINN.

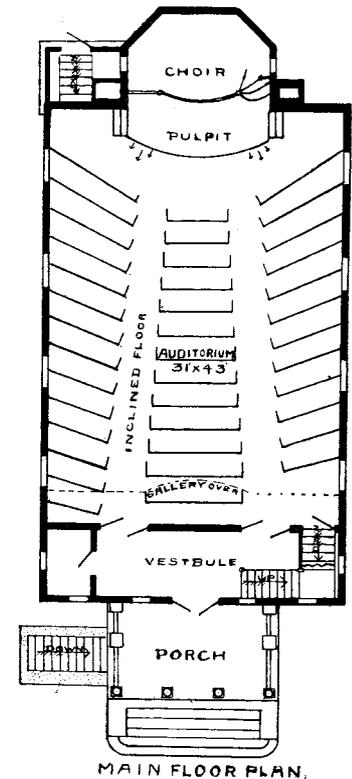
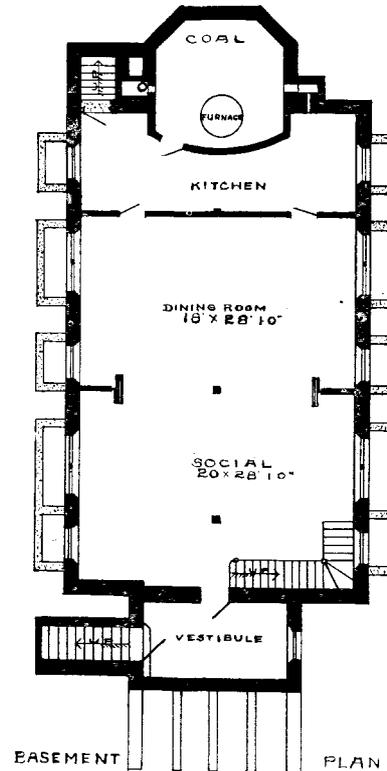
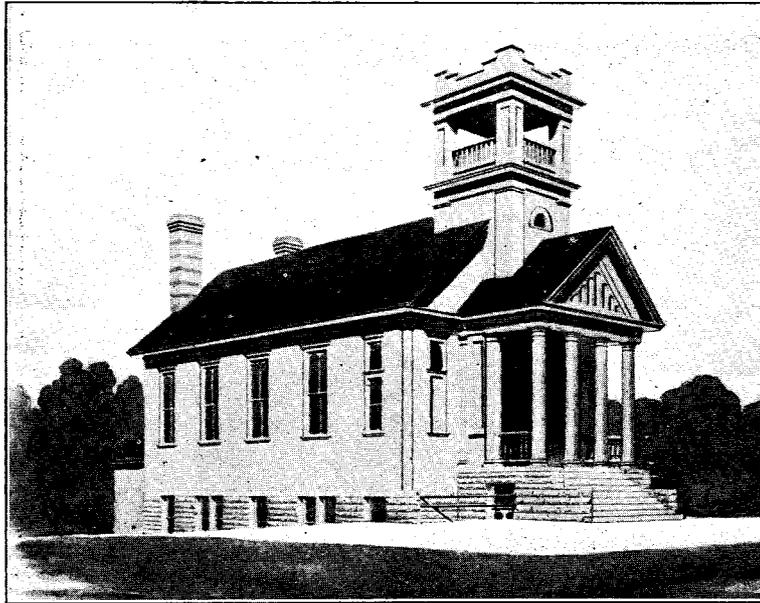


DESIGN NO. 508.

This design is of frame construction with stoned up basement 10 ft. in the clear rear part. 6 ft. front part. Size front part 28 x 50 across 28 x 56. sanctuary 28 x 20, 14 ft. posts, ceiling 20 ft. high in the center, stained glass leaded, plain finish inside, tinned belfry deck and shingle roof, 400 sittings in pews, with gallery and organ loft over front part. Cost from \$4,500 to \$5,500. Blue prints consist of foundation, main floor, sectional drawings, front, side and rear elevations and all necessary interior and exterior details. Cost of one set of plans and specifications \$45.00. Duplicate sets if ordered with original order \$10.00 each.



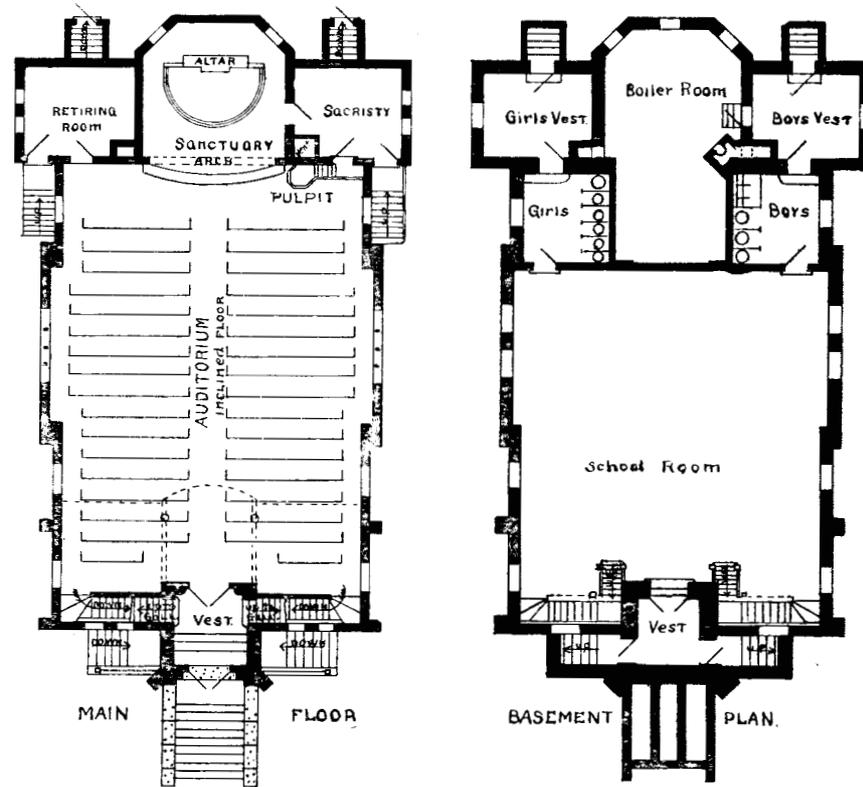
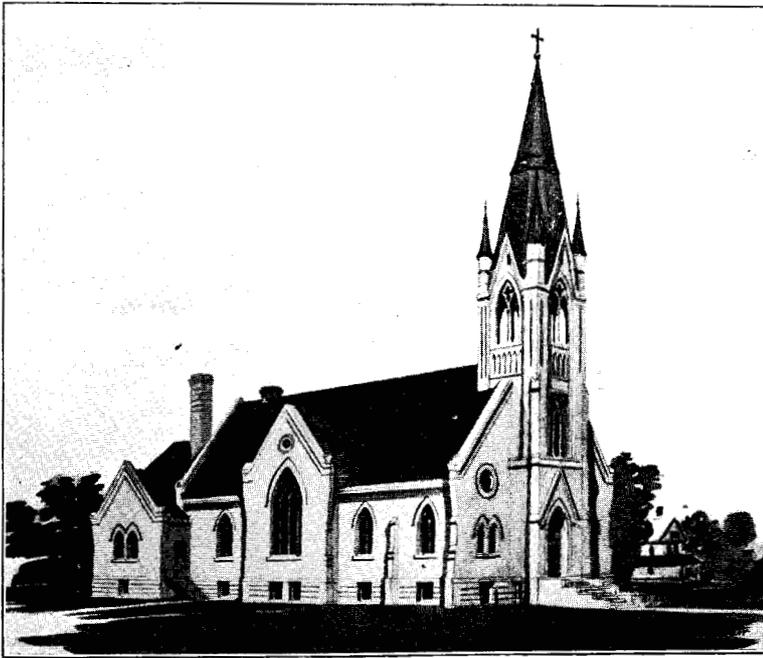
ALBERT SCHIPPEL
 ARCHITECT
 MANKATO MINN.



DESIGN NO. 507.

This design is of frame construction and has a full stoned up basement, contains social, dining room and kitchen, furnace and fuel room, has exterior and interior entrances, size over main part is 32 x 52 ft., 18 ft. posts, bowled floor. Interior finish is in red oak or birch. Wainscot on walls, oak pews with 250 sittings and gallery over front part with 40 sittings, 40 chairs can be added. Shingle roof, tinned tower, roof and deck. Cost \$5,500 to \$6,000. Blue prints consist of foundation, main floor, front, rear and side elevations, sectional drawings and all the necessary interior and exterior detail drawings. Cost of one set of plans and specifications \$55.00. Duplicate sets with original order \$10.00 each.

ALBERT SCHIPPEL
ARCHITECT
MANKATO MINN.



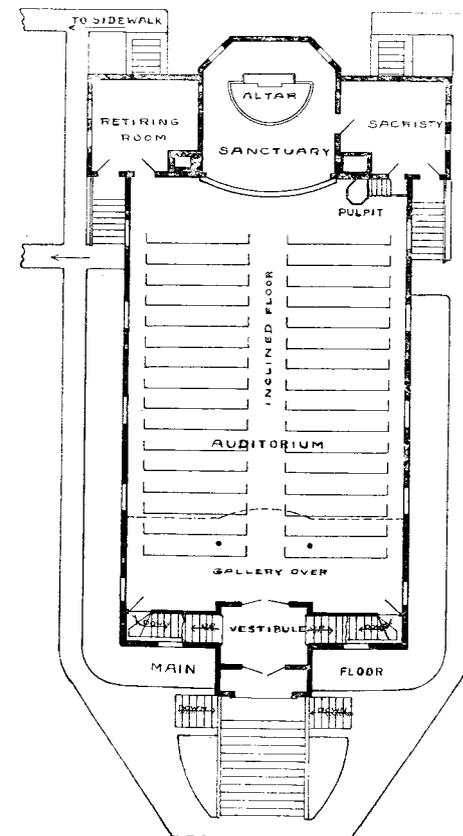
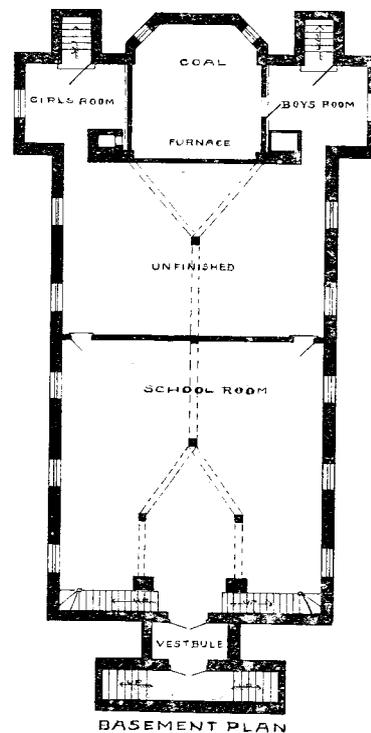
DESIGN NO. 563.

This gothic design is one of the most handsomest designs for a small brick church building. The size of building over main part is 40 x 72, 19 ft. posts, 26 ft. to center of ceiling. The exterior walls are of press brick with stone trimmings with shingle or slate roofs, tinned belfry deck, tower roofed with copper shingles. All windows leaded art glass. The basement is for school purposes and is reached with interior and exterior stairways, auditorium floor is inclined has raised pulpit and gallery and organ loft over front part. Has 350 sittings in pews, 50 chairs in gallery to which 60 chairs can be added when occasion requires. Interior finish is in red oak. Cost \$12,000 to \$15,000. Blue prints consist of foundation, main floor, gallery, front, rear and side elevations, sectional drawing and all the necessary interior and exterior detail drawings. Cost of one set of plans and specifications \$70.00. Duplicate sets with original order \$12.00 each.

ALBERT SCHIPPEL

ARCHITECT

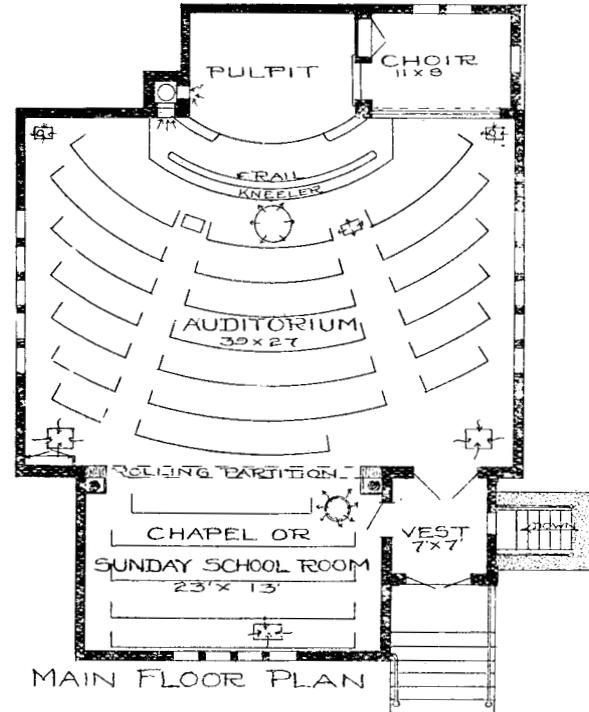
MANKATO MINN.



DESIGN NO. 562.

ing is 31 x 72, 18 ft. posts has inclined floor, raised pulpit, has gallery and organ loft over front part, has 280 sittings in pews and 40 chairs in gallery 40 Blue prints consist of foundation, main floor, gallery, front side and rear elevations with all necessary interior and exterior detail drawings. Cost of one set of plans and specifications \$30.00. Duplicate sets with original order \$10.00 each.

ALBERT SCHIPPEL
 ARCHITECT
 MANKATO, - MINN.



DESIGN NO. 509.

This design is of frame construction with stoned up basement for furnace and fuel only. Main auditorium has bowled floor, curved pews, 134 sittings with 56 sittings in Sunday-school 36 chairs can be added when occasion requires; openings between Sunday-school and auditorium are separated with coiled doors, has raised pulpit and organ loft with open choir loft on right side. This design, like No. 506, may have a pastors study at left of pulpit, also with social room, kitchen, etc. in basement and may be enlarged to 300 sittings. Size of this building, main part 28 x 38 with Sunday-school 14 x 24, with 14 ft. posts. Height in center 20 ft., cost \$3,500 to \$4,000. Blue prints consist of one foundation, main floor, front, rear and side elevations with sectional drawings and all necessary interior and exterior detail drawings. Cost of one set of plans and specifications \$35.00. Duplicate sets with original order \$9.00.

ALBERT SCHIPPEL
ARCHITECT
MANKATO MINN.

DESIGN NO. 565.

This design is of brick and stone construction and was erected for Centenary M. E. Society, at Mankato, Minn., in 1907 by J. B. Nelsen & Co., Contractors, Mankato, Minn. The building is located on a corner lot. Size of building over main part is 62 ft. x 92½ ft., and cost as follows:

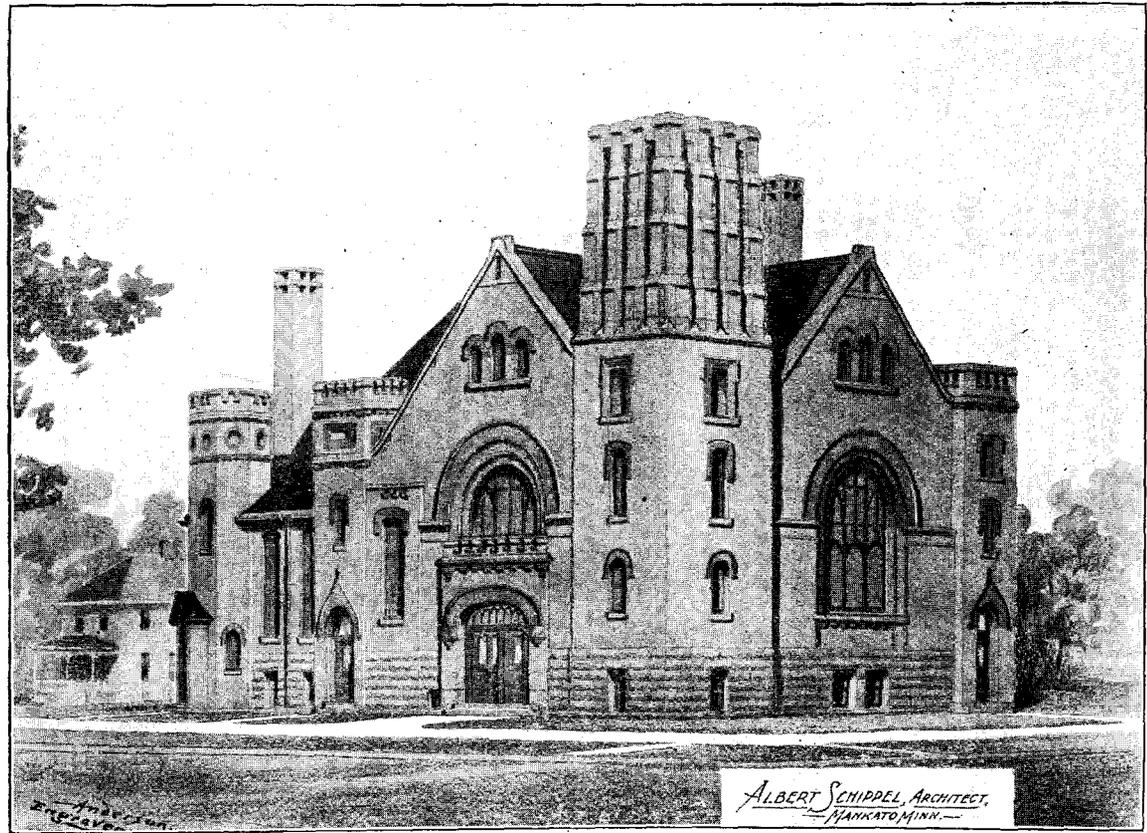
Building.....	\$21,000
Art glass.....	860
Pews in auditorium.....	800
Heating and ventilating.....	2,000
Plumbing.....	640
Electric wiring and fixtures..	600
Total	\$25,900

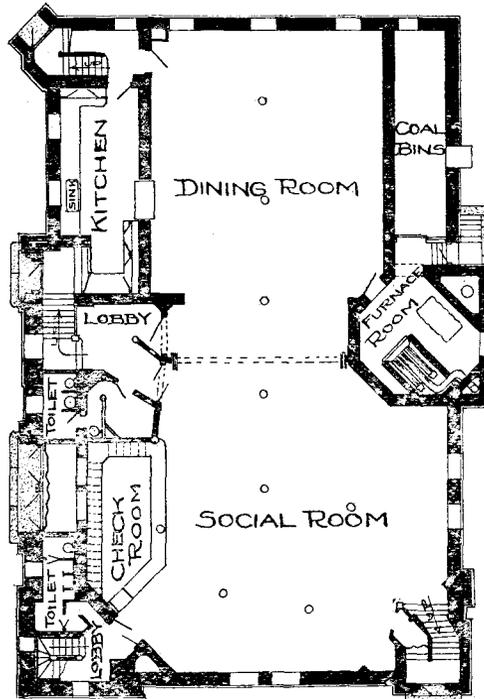
DESCRIPTION.

BASEMENT contains a dining room 32 x 44 ft. in size and a social room 42 x 50 ft. in size. Said rooms are separated by folding doors 24 ft. wide and when occasion requires both rooms can be thrown into one. Said rooms are well lighted and ventilated and heated by steam; there is ample kitchen and pantry space, check room, four entrances and lobbys, ladies and mens separate toilet rooms, also coal bin and heating and ventilating plant.

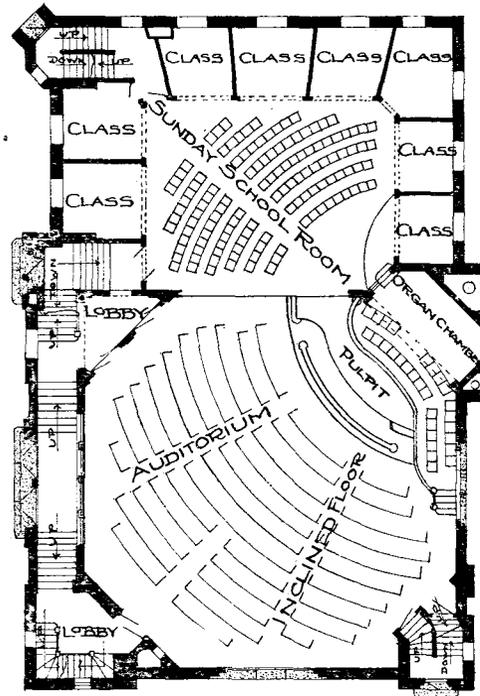
MAIN FLOOR. The main auditorium is 50 x 50 ft. in size by 28 ft. high in the center. The floor is bowled and ceiling extends upward from wall plates to large circular dome in center of ceiling. The pulpit platform is raised 28 in. and the choir platform 42 in. above the floor

and are located in the south-east corner of main auditorium arranging the curved pews in circular form. There is a gallery 10 ft. wide along the north wall over main entrance. The Sunday-school and Chapel being 33 x 53 ft. in size by 21 ft. high and connected to main auditorium by a large slide up door 23 ft. wide and 16 ft. high throwing both rooms into one. The Sunday-school and chapel along the three outer walls is divided into two stories forming a gallery and 8 class rooms each, on 1st and 2nd stories. There are five principal entrances to the main floors and basement to avoid crowding, and for the convenience in clearing the house in a very short space of time. The 2nd street entrance is for main auditorium and basement entrance to social room. The double entrance on Cherry street leads to main auditorium in two directions, also to gallery and basement. The chapel entrance leads

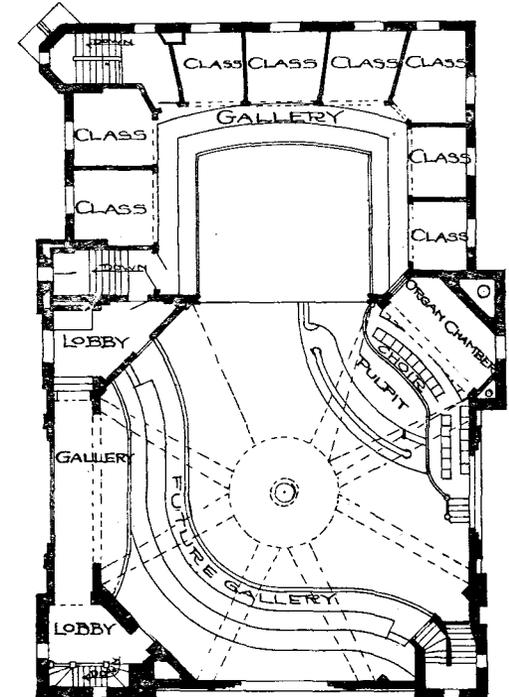




BASEMENT PLAN



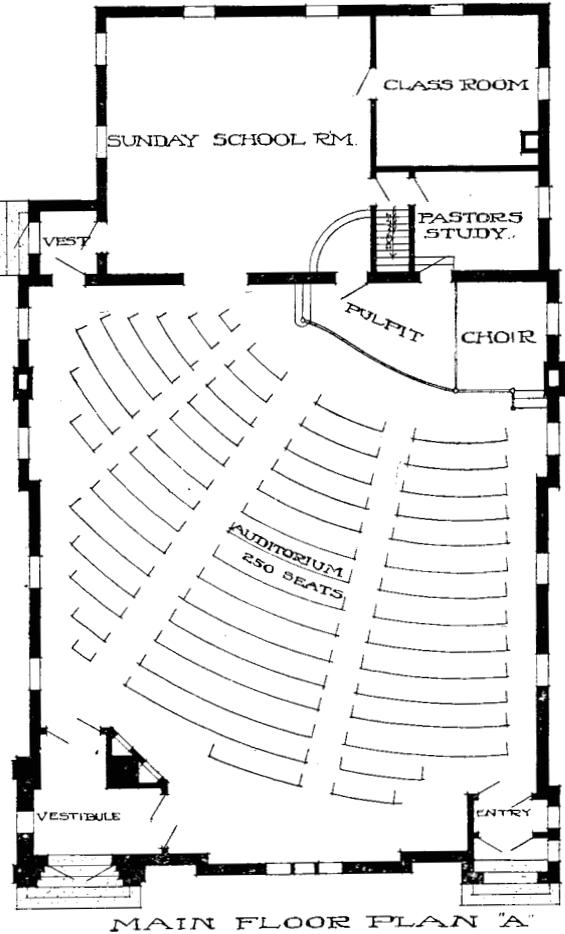
MAIN FLOOR PLAN



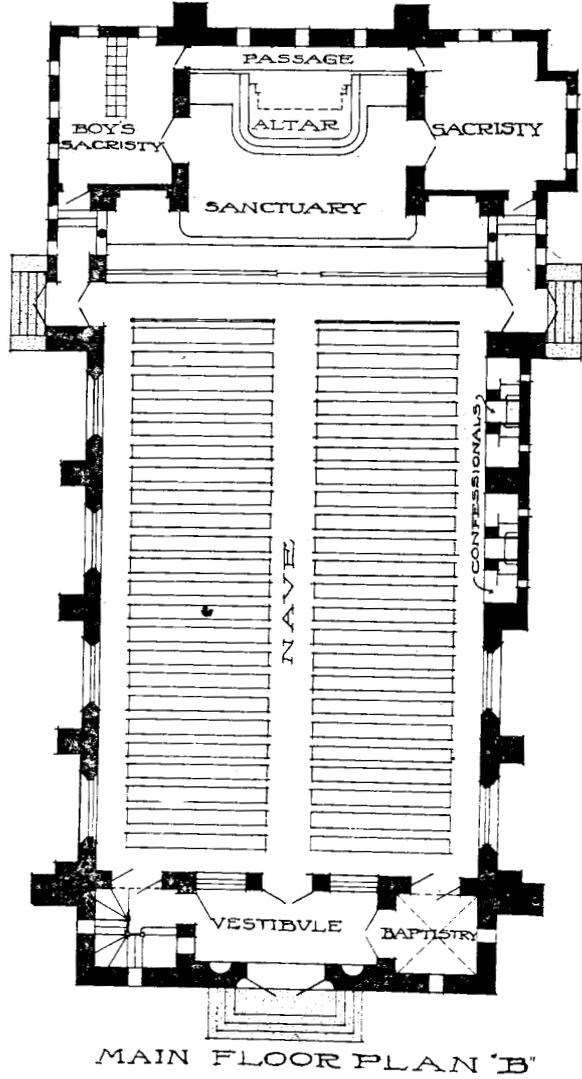
GALLERY PLAN

to Sunday-school and chapel, also to main auditorium and to basement dining room and social room and to galleries. The entrance from rear corner tower leads to kitchen and dining room, to Sunday-school, chapel and gallery. All doors to entrances swing out and nearly all steps are inside. The steam heating and the ventilating are of the gravity system with all modern improvements and so arranged that the air travels from the speaker and arranged to admit the required quantities of fresh air as conditions require. Thus by the careful study of the soundwaves and the interior design and construction the architect has succeeded in obtaining perfect acoustics in all parts of the house. The seating capacity is estimated as follows: 400 in auditorium, Sunday-school and chapel 216, 2nd floor north gallery 40, future gallery 180, Sunday-school and gallery 200; about 40 chairs can be added when occasion requires. The exterior is of plain modern design. The architect being limited as to cost, however; the design looks substantial and majestic in appearance. The foundation is faced with Mankato stone and exterior brick walls are faced with Twin City variegated press brick. The cutstone trimmings are of Mankato stone. Cost \$25,000 to \$30,000. Blue prints consist of footing; foundation, main and gallery floor plans, seating plan, front, rear and side elevations, longitudinal and transe verse sections and all necessary interior and exterior detail drawings. Cost of one set of plans and specifications \$250.00. Duplicate sets with original order \$25.00 each.

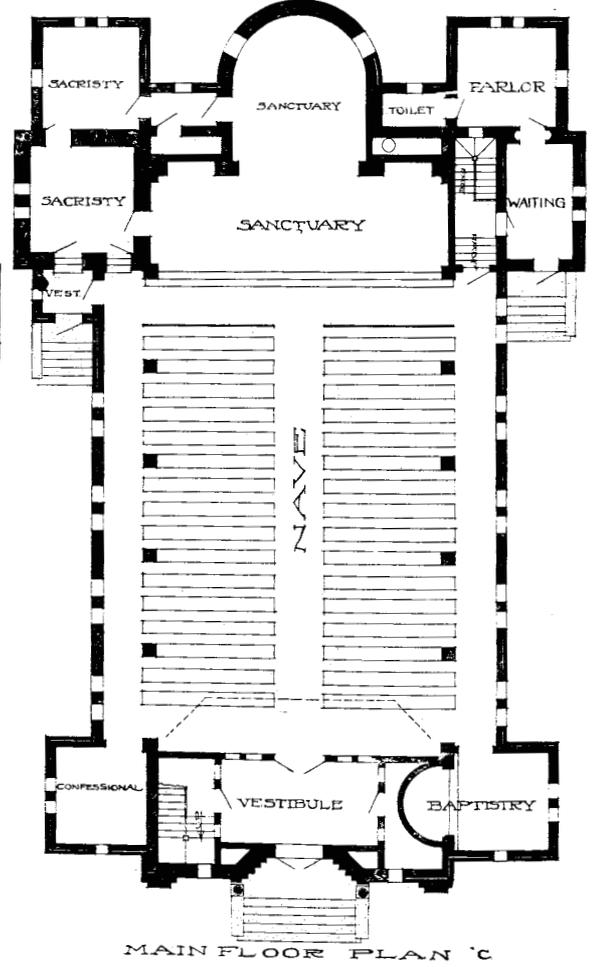
ALBERT SCHIPPEL
ARCHITECT
MANKATO MINN.



A—Study for a small church located on an inside lot to cost from five to seven thousand dollars.



B—Study for a catholic church located on a corner or wide inside lot. Cost from \$15,000 to \$20,000.



C—Study for an Episcopal church located on a corner or wide inside lot to cost from \$20,000 to \$25,000. When occasion requires it is intended to change the parlor for a nursery.

Novel and Successful Heating Plant.

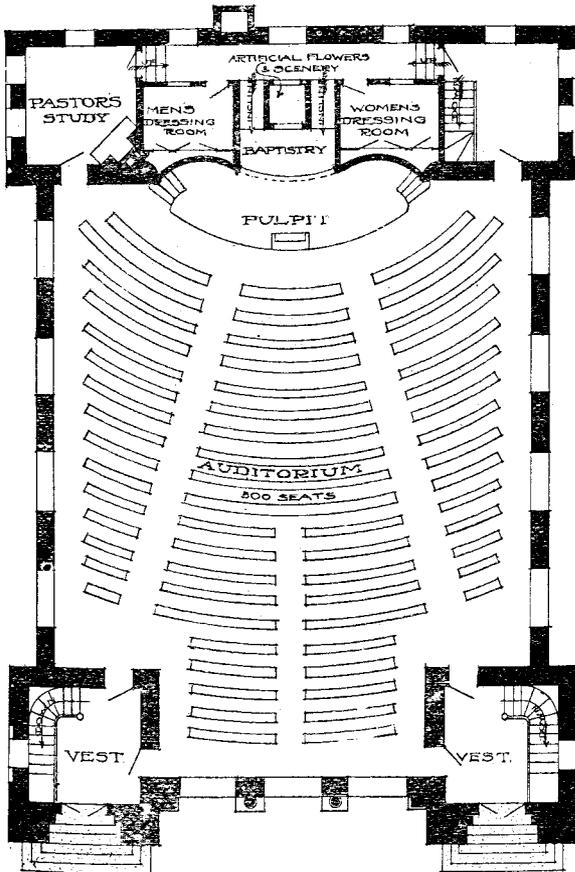
By E. H. Roberts,

of the Roberts Heating and Ventilating Company, Minneapolis, Minn.

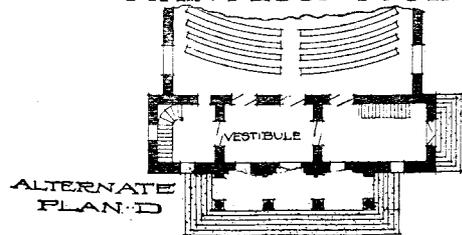
The Swedish Tabernacle at St. Paul was designed with particular reference to its acoustics. To preserve these and to effect an even distribution of the heat with the least possible expense were the problems laid before the writer by a committee having the matter in charge. This committee had made a tour of all the principal churches in the Twin Cities, and had reached the conclusion that a plant such as would meet their requirements could not be installed for less than \$4,000 to \$5,000. As the money available for this purpose did not exceed one-third of that sum, it was apparent that they must decide on something radically different from anything they had seen, or they must resort to other means to increase their funds.

It is sometimes easier to suggest ways of cheapening the installation of heating plants than to secure satisfactory results after a plant is in, but this plant is so satisfactory in every particular that we believe architects generally will be interested to know something of the system and apparatus used.

A battery consisting of two masonry furnaces, nine feet long and each capable of heating 200,000 cubic feet of air per hour, is set as shown in the accompanying diagram. These heaters are sectional, each section having a multiplied exterior or radiating surface amounting to seven times the interior or heat-absorbing surface. The products of combustion

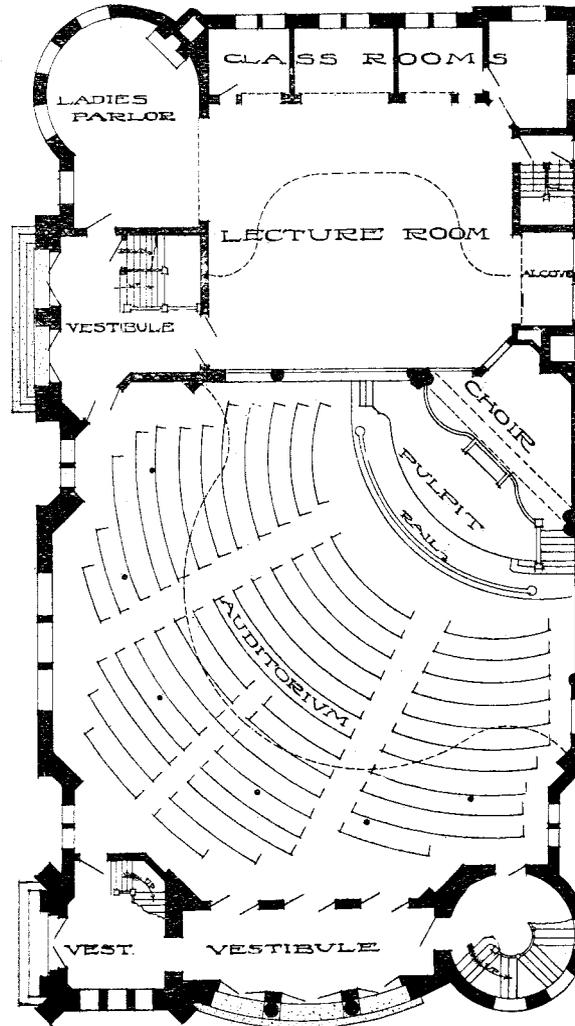


MAIN FLOOR PLAN 'D'



ALTERNATE PLAN 'D'

D—Study for a Baptist church. Should be located 40 to 50 ft. from lot line of a large corner lot. Sunday-school class rooms in basement. This plan in colonial design with low tower and central entrances with columned portico is considered a very pleasing design. Cost from \$35,000 to \$40,000.



MAIN FLOOR PLAN 'E'

E—Study for large M. E. church on a corner lot. Has galleries over also reception room and dining room in basement. Cost from \$40,000 to \$50,000.

ALBERT SCHIPPEL

ARCHITECT

MANKATO. - MINN.

travel forty feet before reaching the smoke-outlet, and this long fire-travel, combined with the immense heating surface, makes the furnaces very economical in the amount of fuel required. Both bodies and radiators of these furnaces rest on ball bearings so that there is no danger of cracking or warping from rapid expansion or contraction.

Connecting with the furnace chamber is a 72-inch fan of the propeller type, with its base four feet below the bottom level of the heaters, so that the air can circulate freely to every part of furnace chamber. This fan has an initial delivery of 60,000 cubic feet per minute when revolving at a speed of 250 R. P. M., and is operated by a 5-H. P. electric motor.

From the top of side of brick work opposite the fan a galvanized iron distributor is built out to connect with the plenum room, which extends under the whole auditorium. Through this plenum-room which is about two feet high, the warm air is forced by the pressure from the fan, and finds an outlet through small openings between the risers of the seats in the auditorium.

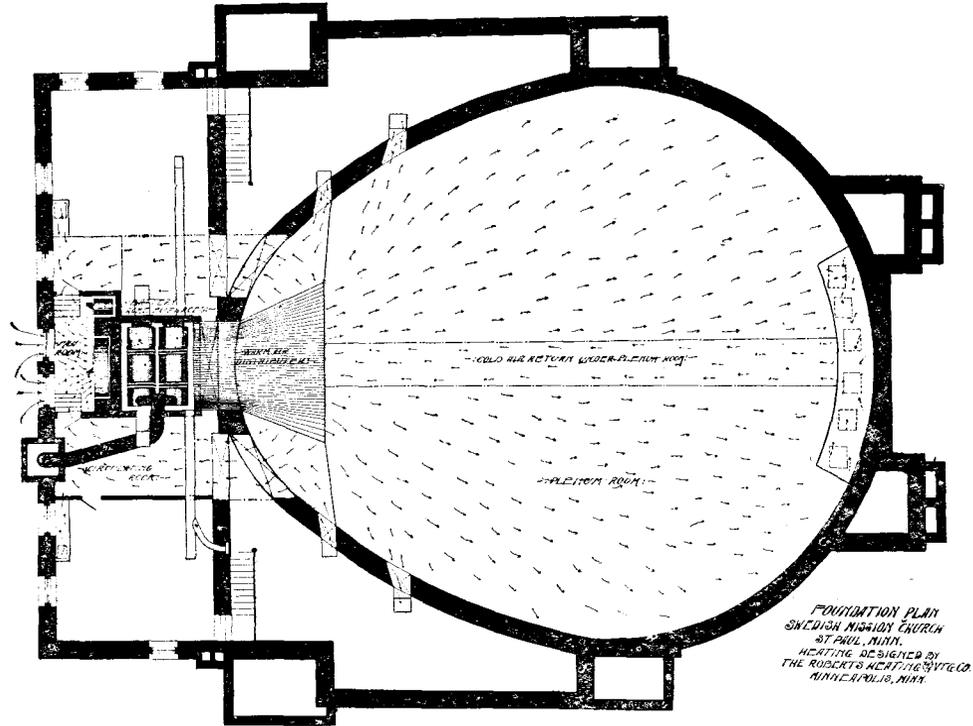
The cold air is carried down from the rear of the auditorium into a large return duct beneath the plenum-room and also through side ducts, all of which connect directly with the revolving-room at the rear of the furnaces. By opening the door leading to the fire-room the air from the church is kept in rapid circulation, and the temperature in the auditorium can be changed from ten below zero to 70 degrees above in less than two hours.

During services, or whenever the necessity for ventilation becomes apparent, the door between the fan-room and the revolving-room is closed, the iron door in the vent-flue opened, and the windows of the fan-room raised to admit fresh air. Heat is also supplied from furnaces to the parlors, library, kitchen and class-room on the first floor, and to the pastor's study on the second floor. That the heating plant is entirely satisfactory is best evidenced by the following statement made by the pastor, Rev. Hjalmer Sundquist:

"The heating plant in our new church, the Swedish Tabernacle, has now been thoroughly tested in all kinds of weather, and has proven a success in every particular. Our church auditorium contains about 200,000 cubic feet of air space to be heated. It has a seating capacity of 1,200, which on special occasions can be extended to 1,500, and we have found no difficulty in heating the whole building to perfection in less than two hours, even in the coldest weather, when the temperature has been as low as 20 degrees below zero.

"Owing to the perfect circulation produced by the fan and the peculiar arrangement for admitting the warm air, we have no trouble from a cold floor and an over-heated ceiling, the lower part of the house being just as warm as the upper.

"It has been a real comfort to us this winter, when the coal famine has made the heating, to almost everybody a problem indeed, to be able to heat our spacious church in so short a time, with almost any kind of fuel and so little of it. A special feature of our plant, which should not be overlooked, is the system of ventilation, which we believe cannot be excelled."



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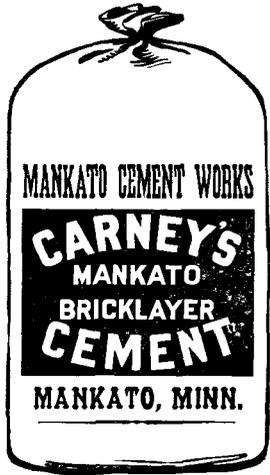
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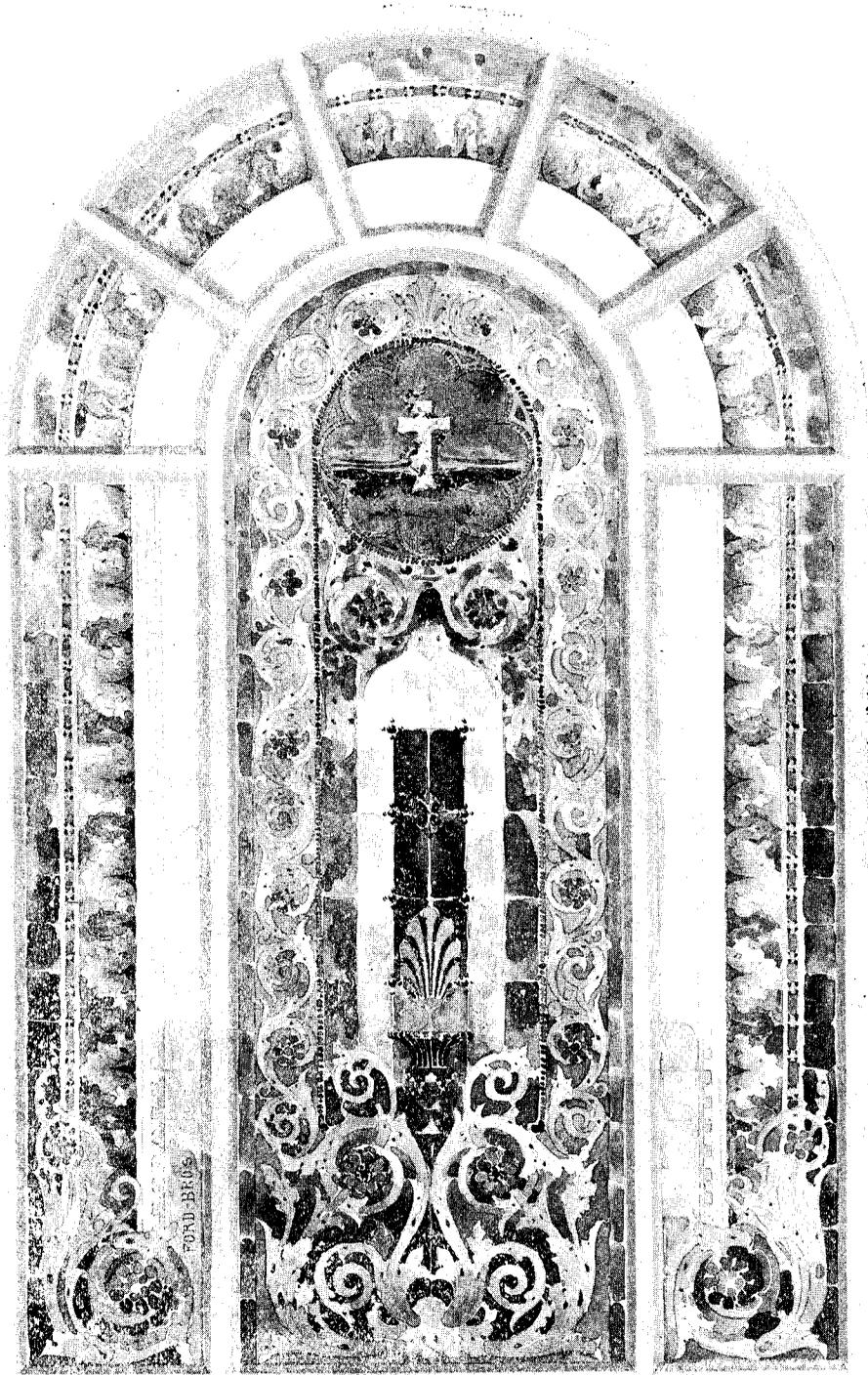
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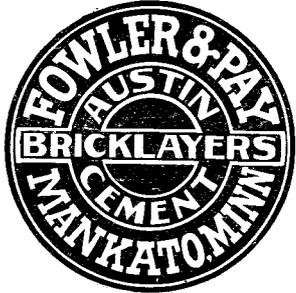
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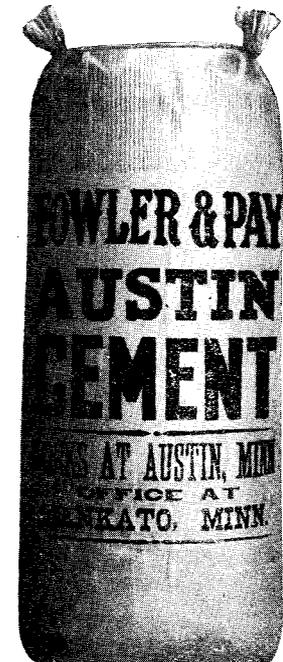
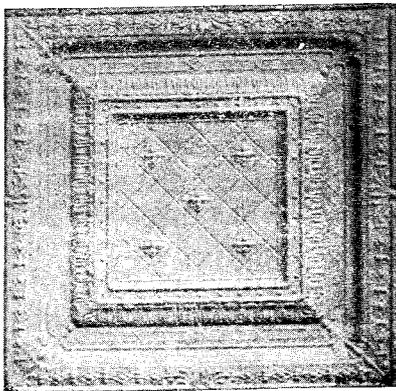
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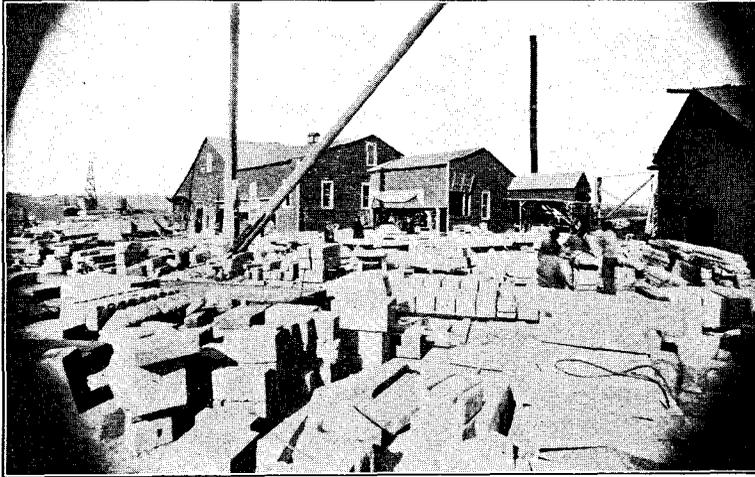
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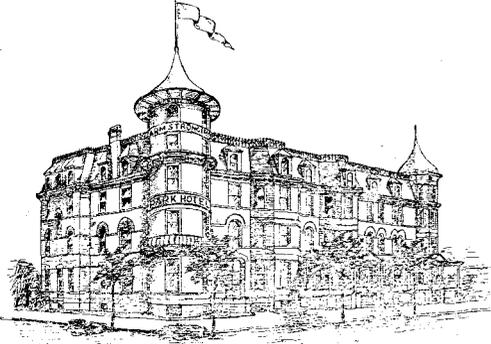
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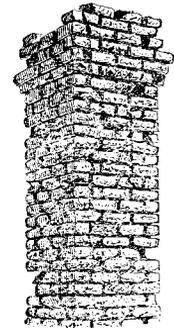
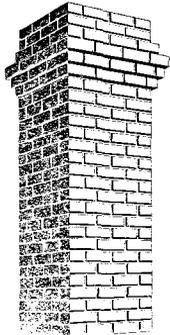
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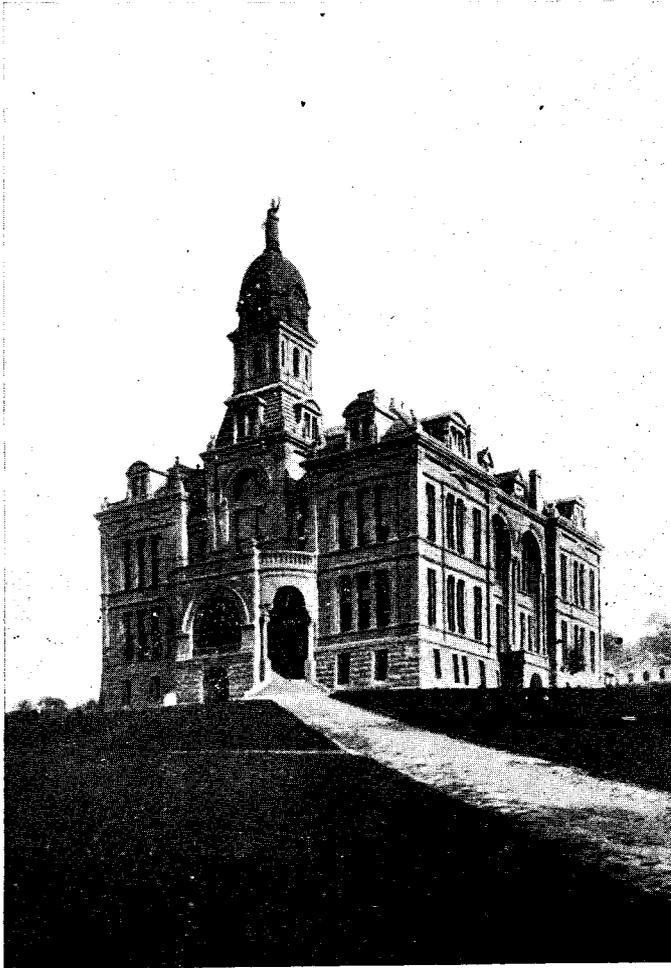
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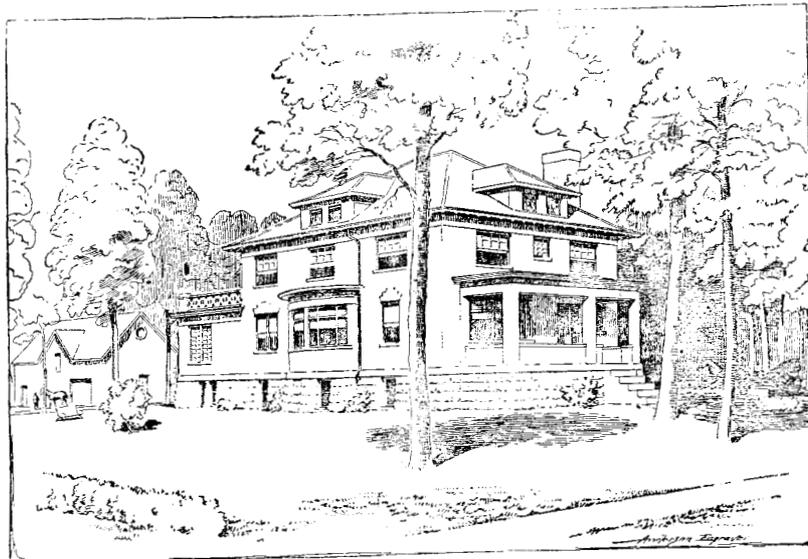


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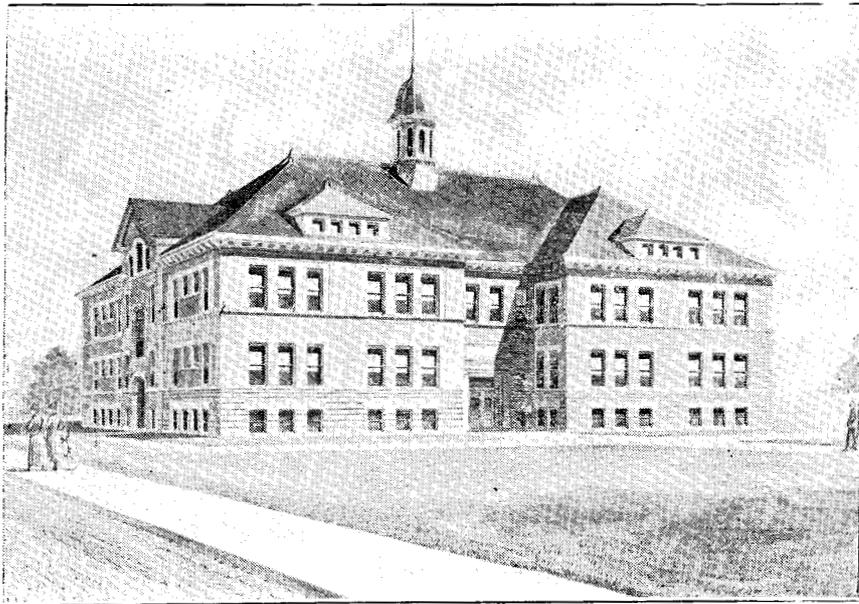
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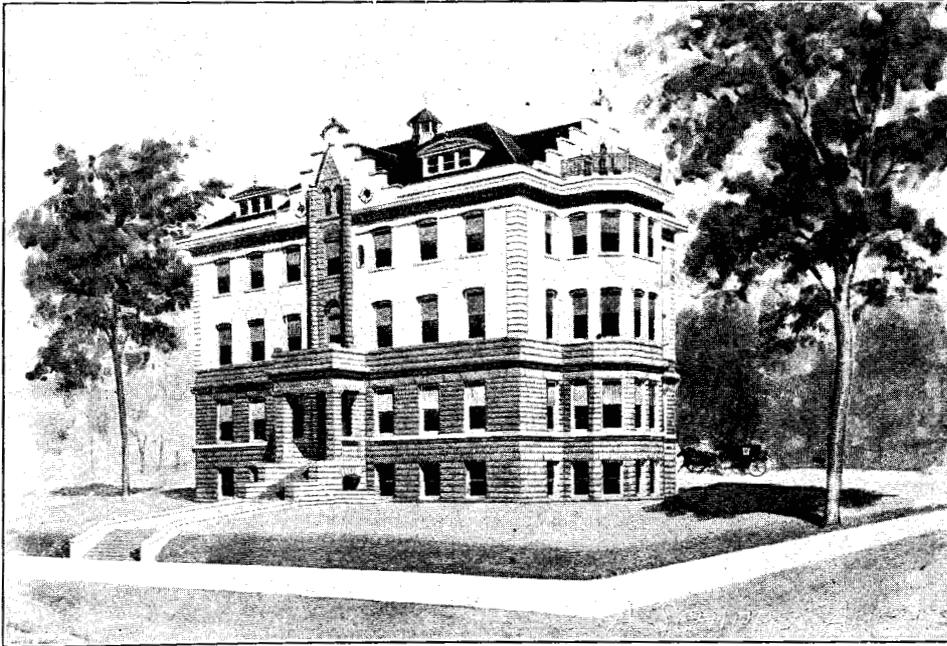
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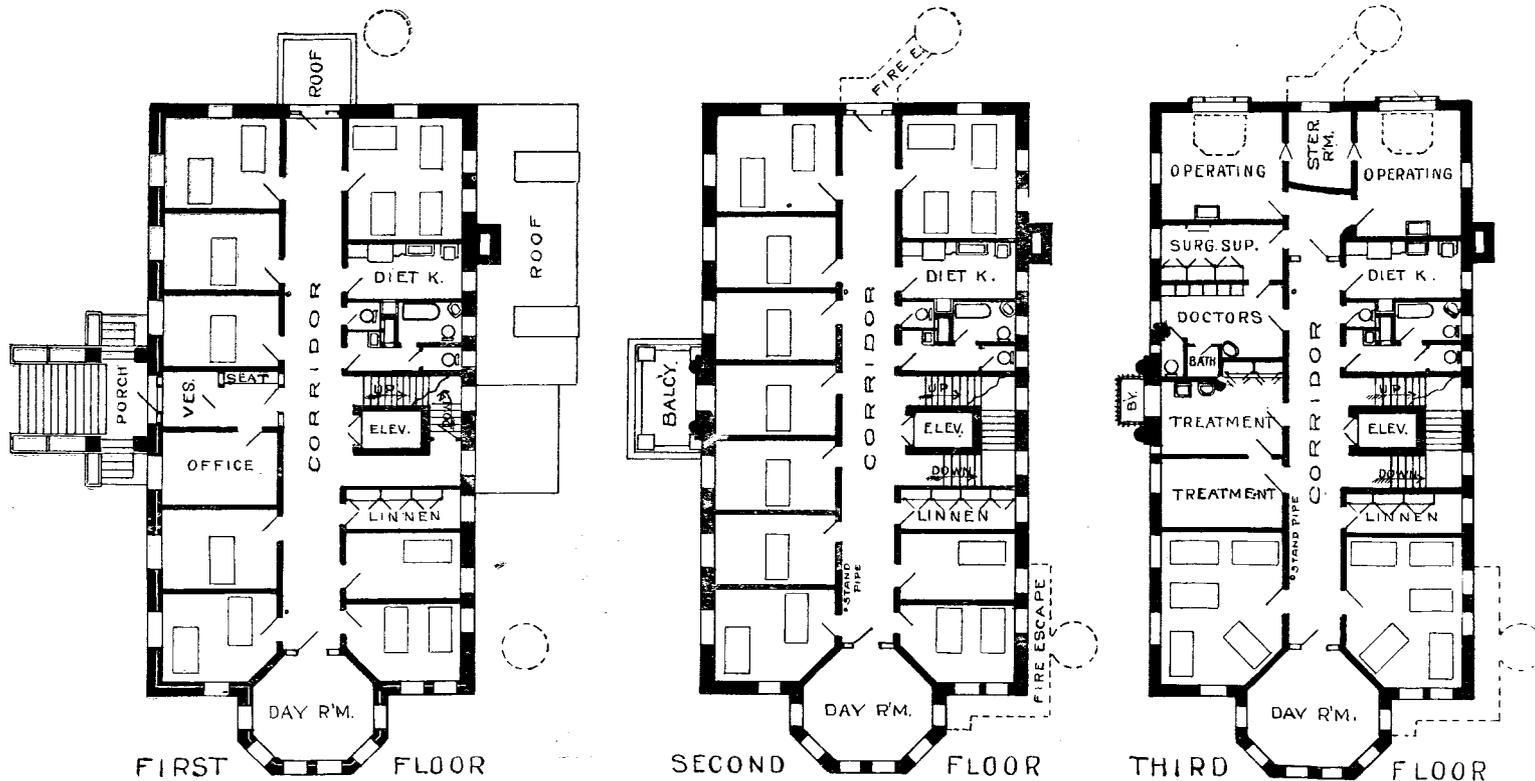
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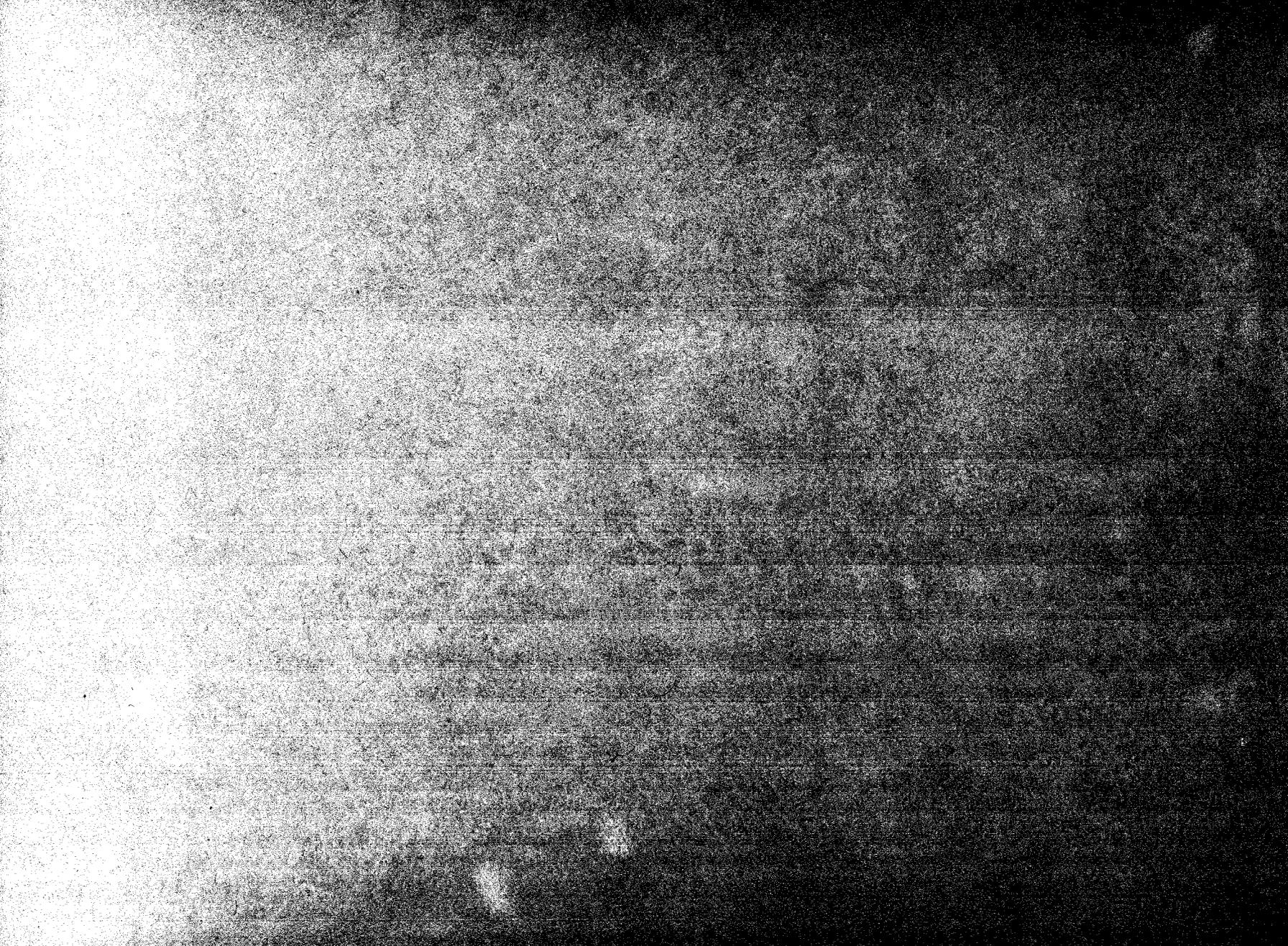


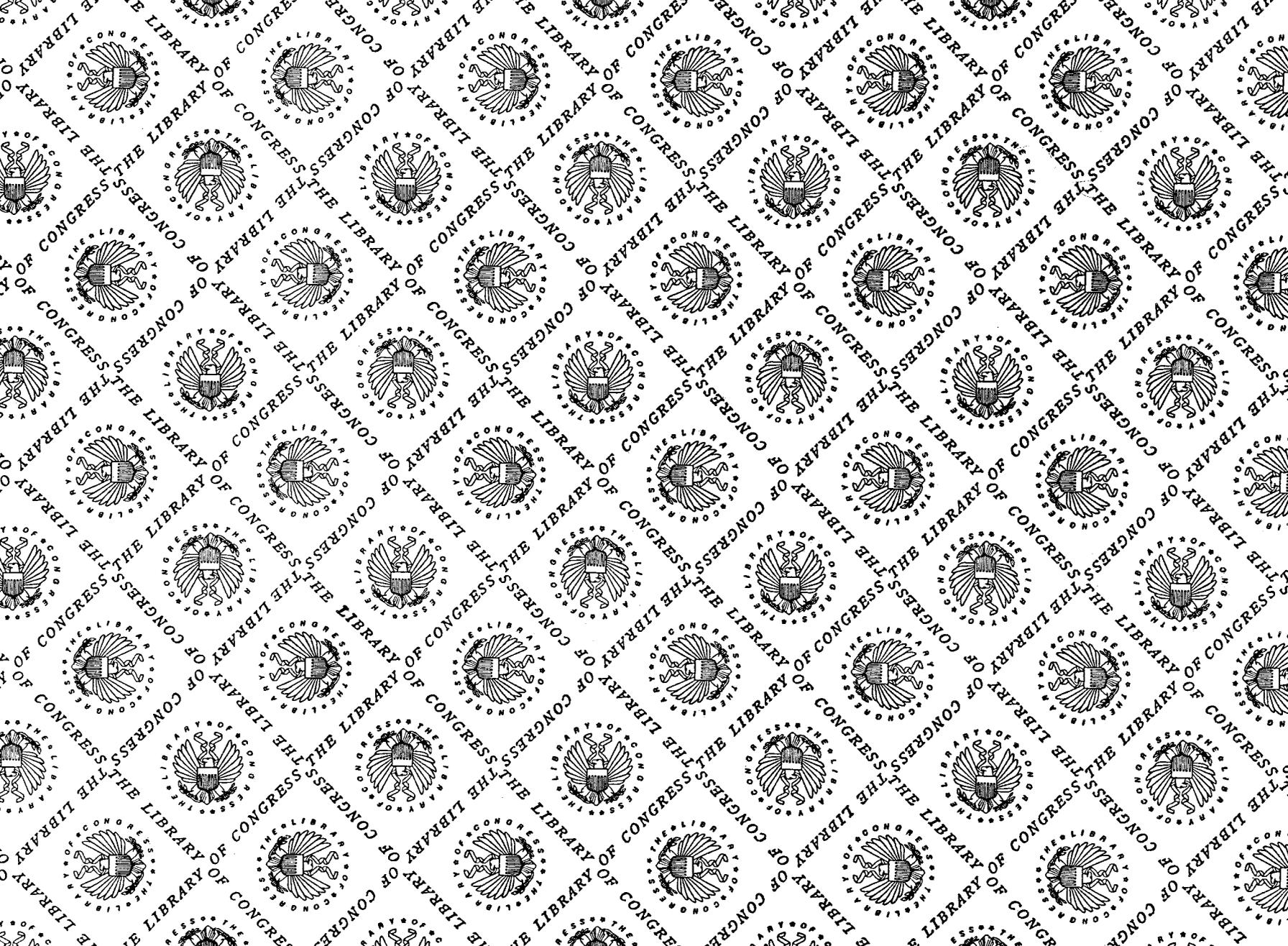
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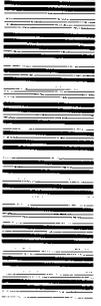


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