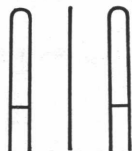


SOUTHERN ARCHITECT

SEPTEMBER 1956



Official Publication
North Carolina Chapter



American Institute
of Architects



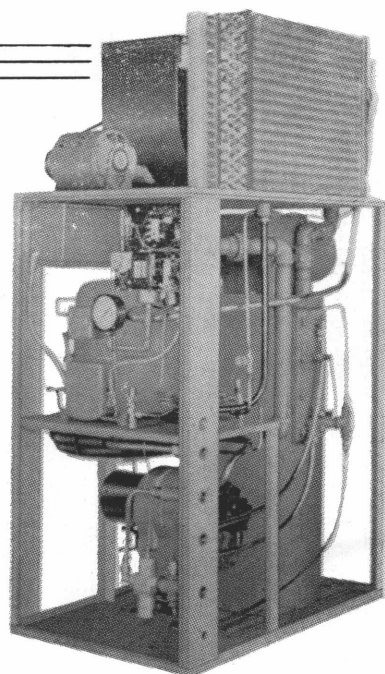
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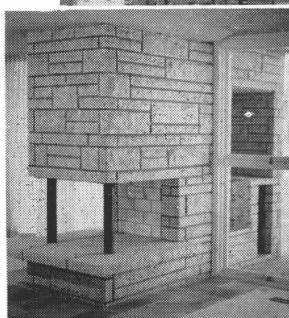
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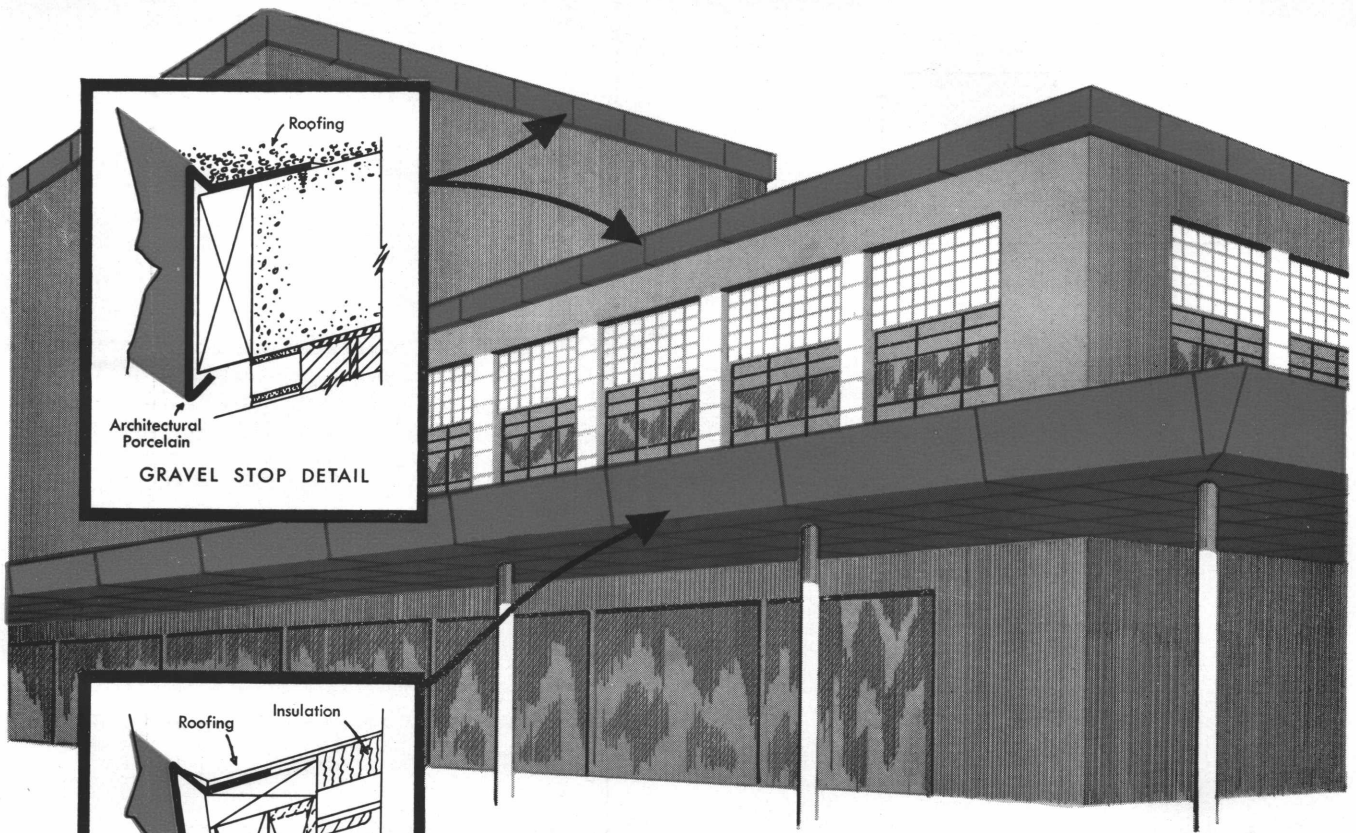


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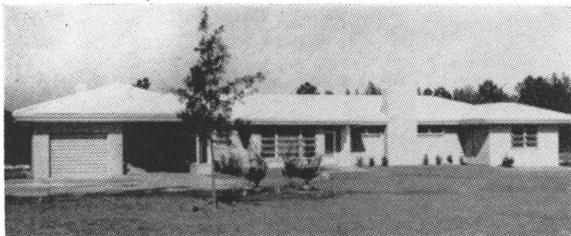
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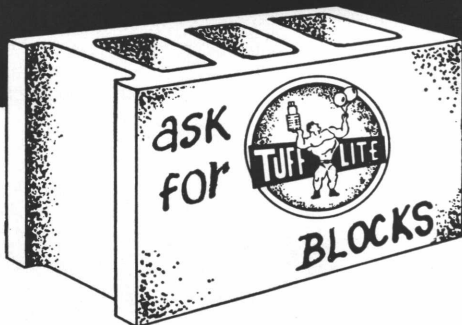
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ARCHITECTURAL CALENDAR

OCT. 11-12: Noise Abatement Symposium. Sponsored by Illinois Institute of Technology, with study of the control of noise through architectural design. Hotel Sherman, Chicago, Ill.

OCT. 15-19: American Society of Civil Engineers. Fall Convention. William Penn Hotel, Pittsburgh, Pa.

OCT. 19-20: National Trust for Historic Preservation. Annual Meeting. Washington, D. C.

NOV. 1: Raleigh Council of Architects. S.&W. Cafeteria, Raleigh.

NOV. 2: Guilford Council of Architects. Bliss Restaurant, Greensboro.

NOV. 6: Winston-Salem Council of Architects. El-Cam-Rey Restaurant, Winston-Salem.

NOV. 7: Charlotte Council of Architects. Thackers Restaurant, Charlotte.

NOV. 12-14: Structural Clay Products Institute. Annual Convention. Boca Raton, Fla.

NOV. 20: Winston-Salem Council of Architects. El-Cam-Rey Restaurant, Winston-Salem.

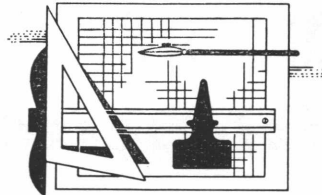
DEC. 9-11: Carolinas Branch, Associated General Contractors of America. Annual Convention. Boca Raton Hotel, Boca Raton, Fla.

APRIL 4-6: South Atlantic Regional Conference, AIA. Atlanta, Ga.

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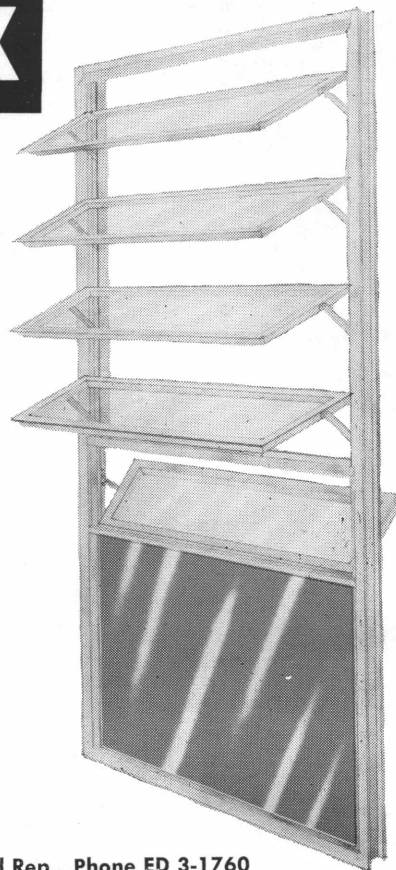
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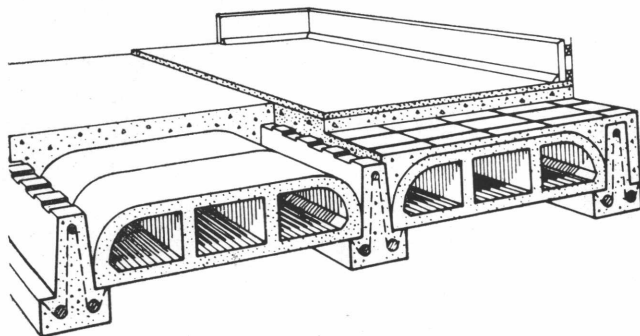


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Southern Architect

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COVER PHOTO

Carl Sandburg is shown receiving an honorary membership in the American Institute of Architects. See story on page 11.

NORTH CAROLINA CHAPTER • THE AMERICAN INSTITUTE OF ARCHITECTS

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PRESIDENT'S MESSAGE

The meeting of the Western Council of Architects, A. L. Pendleton, AIA, President, on August 29 was a good example of the purpose of these councils. Approximately sixty Architects and their ladies met at a dinner honoring Mr. Carl Sandburg, and in turn were honored by his remarks, poetry and songs. The North Carolina Chapter in behalf of the Institute presented a citation and honorary membership to Mr. Sandburg for his distinguished and well known achievements in creative writing.



WILLIAMS

It is good that professional bodies acknowledge publicly the superior accomplishment of others in related fields. This is particularly appropriate in the creative arts where general recognition of worthwhile contributions is sometimes delayed.

This brings to mind also how much better it is to respect and honor even those who are in the same profession. To be so "against" that we neglect being "for" something leads to a constant negative and non-contributive attitude. It seems unnecessary that leaders in architecture should ever feel so unsure of their place in the sun that they must damn their fellows. An idealistic tyrant is no less unattractive, even if tolerated, than any other kind of a tyrant. The public whom we try to serve is not benefited by such antagonisms or battles of individualistic stylisms. They cannot relish nor understand the confusion frequently presented.

What vanity, what perverted sense of reasoning makes some feel that derogatory remarks or tactless silence about the work of others should produce by some paradox a greater response and approval of differing views?

It also appears a little weird that some people have difficulty approving or liking a particular artistic endeavor because almost everybody else does, or because certain self-appointed critics do not.

The heritage of our freedom is secure only so long as the essential ingredient of tolerance for the freedom of others is included. No one, no nation, no age, has knowledge of total truth exclusively—nor shall they ever have.

We Architects in North Carolina, in 1956, can always afford to recognize past, present and future contributions to progress and without compromising character be tolerant of the work of all.

Tolerance keeps the wheels turning and consideration for others is the lubricant making easier the acceptance of new ideas.

There should be adequate room for all to exercise their right of interpretation of what is true and appropriate, especially in the arts. Public bickering and disparagement does not advance the profession, and a proper purpose may be served by the special talent of each regardless of a current judgment of relative merit. One does not sneer at his left hand because it is not also a right hand or a foot.

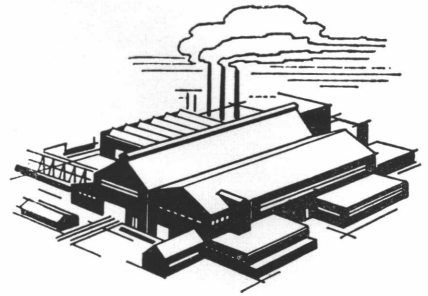
The energy of destructive criticism can be frequently better spent in producing a progressive contribution. Arrogance may be honest, but if so, is a confession to exorbitant and unjustified claim of monopoly on truth.

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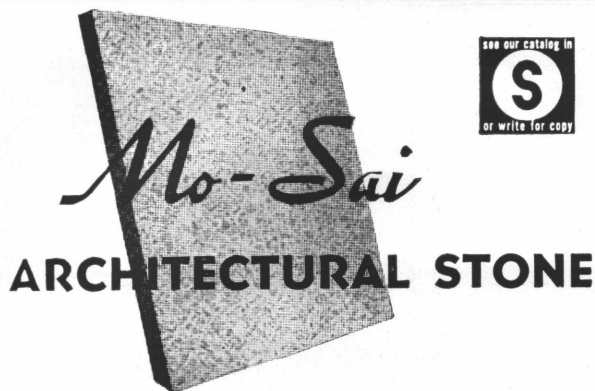
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CARL SANDBURG MADE HONORARY MEMBER OF AIA



Carl Sandburg of Flat Rock, noted poet and biographer, is pictured above as he received an honorary membership in the American Institute of Architects at a recent meeting of the Western North Carolina Council of Architects in Asheville. Left to right are Program Chairman Anthony Lord, AIA, of Asheville; NCAIA President F. Carter Williams, AIA, of Raleigh, who made the presentation; Mr. Sandburg, and Andrew L. Pendleton, AIA, of Statesville, President of the WNC Council.

"When an architect measures up to his profession, his work has the value of great poetry," Carl Sandburg of Flat Rock, noted poet and biographer, told the Western North Carolina Council of Architects, Wednesday, August 29, in accepting an honorary membership in the American Institute of Architects.

The profession of architect ranks among the highest and most important ones, he told the group in conclusion.

Comparing books with radio and television, Mr. Sandburg declared that "radio and television rob people of the solitude that they need to know how to use." "All great minds have known loneliness," he added, pointing out that Thomas Jefferson, Ben Franklin, Shakespeare and other great men "had no fear of loneliness."

"With a book, you can skip what is stupid. You can go back and rehearse what is good. You can go to a shelf and pick what you need. With radio and television, you just sit there and take it," he declared.

Referring briefly to Communism, he described the Russians as having placed "shackles on the human mind." "Russians do not have the freedom of mind that

by right belongs to all human beings," he added.

The presentation ceremonies were held at the Manor Hotel in Asheville and attended by architects and their guests from throughout the western areas of North Carolina.

The presentation was made by F. Carter Williams, AIA, of Raleigh, President of the North Carolina Chapter of the American Institute of Architects.

Arrangements for the event were made by Anthony Lord, AIA, of Asheville and Walter J. Boggs of Asheville, Secretary-Treasurer of the Western Council. Andrew L. Pendleton, AIA, of Statesville, Council President, presided and welcomed the visitors.

In introducing Mr. Sandburg, Mr. Lord said, "Our good friend and good neighbor Carl Sandburg, of whom we are all so proud, greatly honors us with his company this evening. Time, he says, is the most precious thing he has and we are doubly grateful that he is sharing some of it with us."

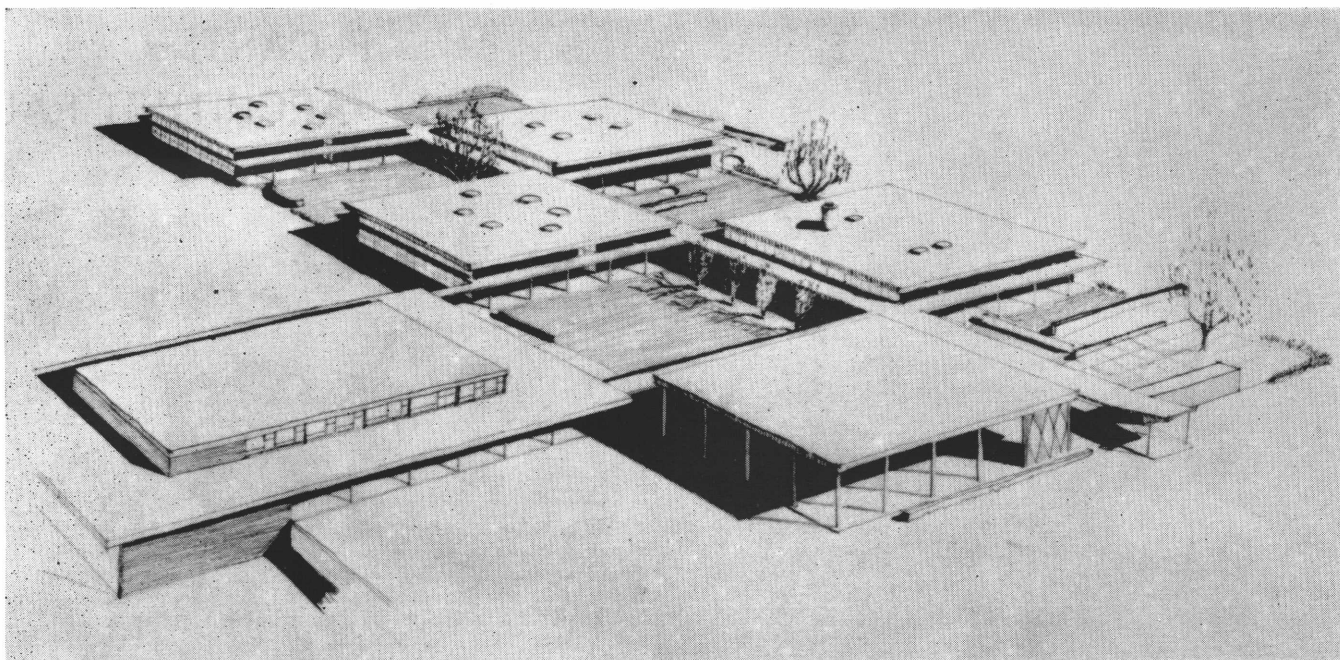
"Now, if any of you who are here don't know who Mr. Sandburg is, it is useless for me at this time to try to tell you, and I will make no such attempt. However, I will read you a few words that Jonathan Daniels said about him.

He said, 'I think Carl Sandburg is not only one of the greatest living literary men, but, what is more important, one of the really great people living today. His choice of Western North Carolina as his place of residence was one of the finest compliments which has ever been paid to our beautiful mountain country. I hope his spirit spreads from Flat Rock to the whole State.' To which we can all add a hearty so be it."

"We who, such as we are, are the Architects of the American City may make bold to feel a kinship with the poet of the American City — the poet who said 'nothing happens unless first in a dream'—and our boldness leads us to venture a small, formal, token of our kinship."

"The presentation of this token is the occasion of this gathering and the token itself is a scroll signifying Mr. Sandburg's honorary membership in our professional society, The American Institute of Architects."

"Carter Williams, the president of the North Carolina Chapter of the Institute has come from Raleigh today so that he might give this scroll to Mr. Sandburg and I am going to ask him if he will now present it."



Exterior

ELEMENTARY SCHOOL

ROANOKE RAPIDS, N. C.

F. Carter Williams, AIA

RALEIGH, N. C.

The William L. Manning Elementary School of the Roanoke Rapids Graded School District is an example of maximum flexibility for expansion, use and classroom arrangement, while maintaining multi-purpose areas to double as a community center.

Designed by F. Carter Williams, AIA, of Raleigh, the school building contains 12 classrooms in the cluster plan. Instead of the usual fully-equipped kitchen, the project incorporates a minimum serving pantry to be supplied with pre-prepared lunches from a kitchen located in another school.

An identical size and structure was used for all the classroom units and the administration unit. All interior partitions are non-loadbearing wood stud except for masonry around the heating room. With the exception of the administration unit, any unit or combination of units may be built or not without disrupting the functions of the other units. The use of identical structure, space and panel wall system also provides economy from a construction standpoint. As the need arises, new units may be added

and interior partitions may be moved to create an infinite number of larger or rearranged spaces. None of this would disrupt the basic plan of the project.

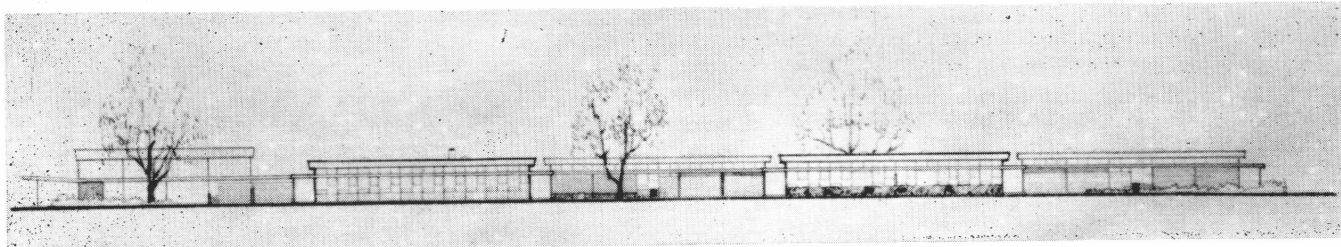
The playshed and multi-purpose units are so located to provide easy use by the community as well as the pupils without interfering with the rest of the school either during school hours or after. Outdoor play in inclement weather and a shelter for children waiting for transportation after school are provided by the location of the playshed.

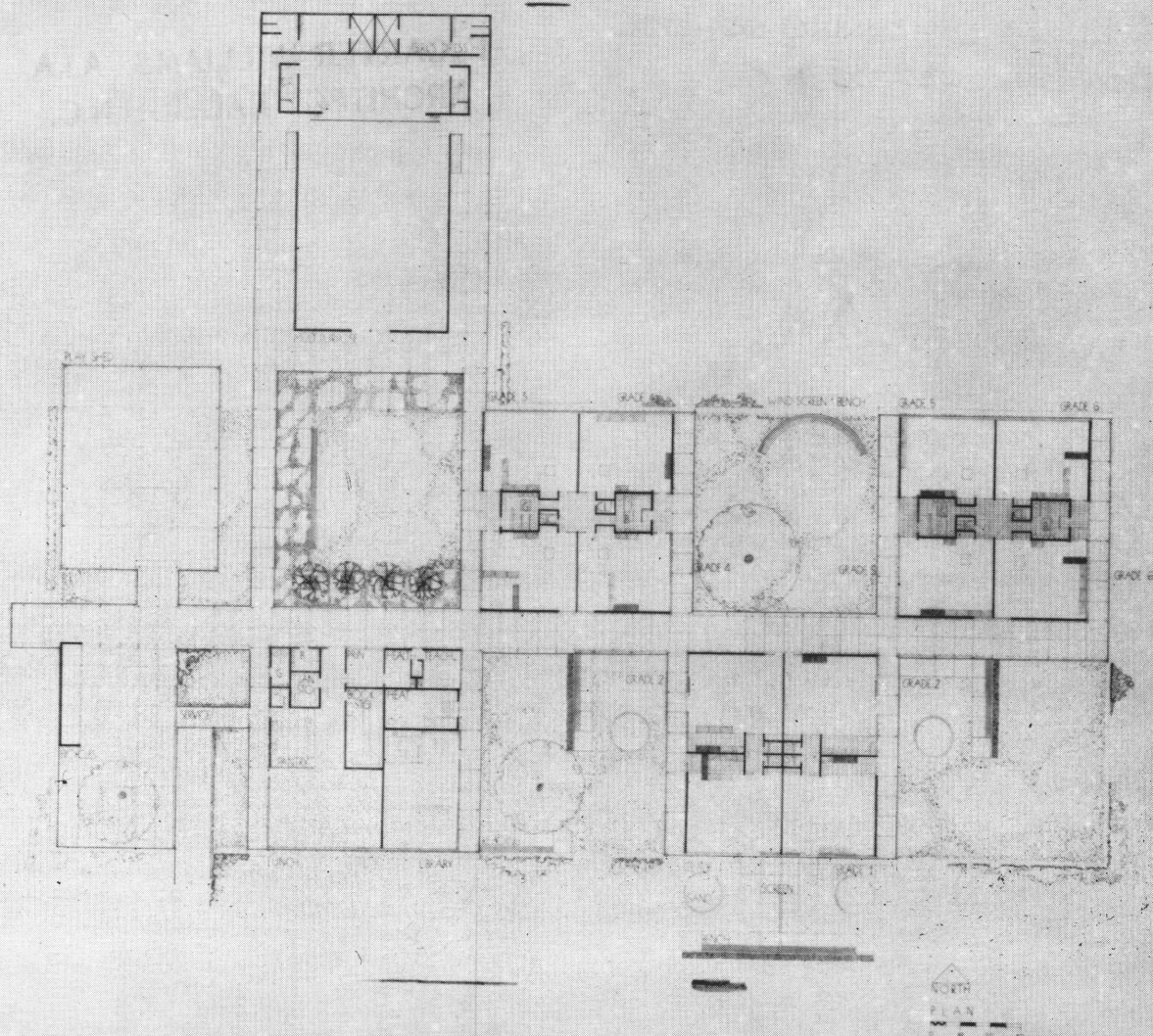
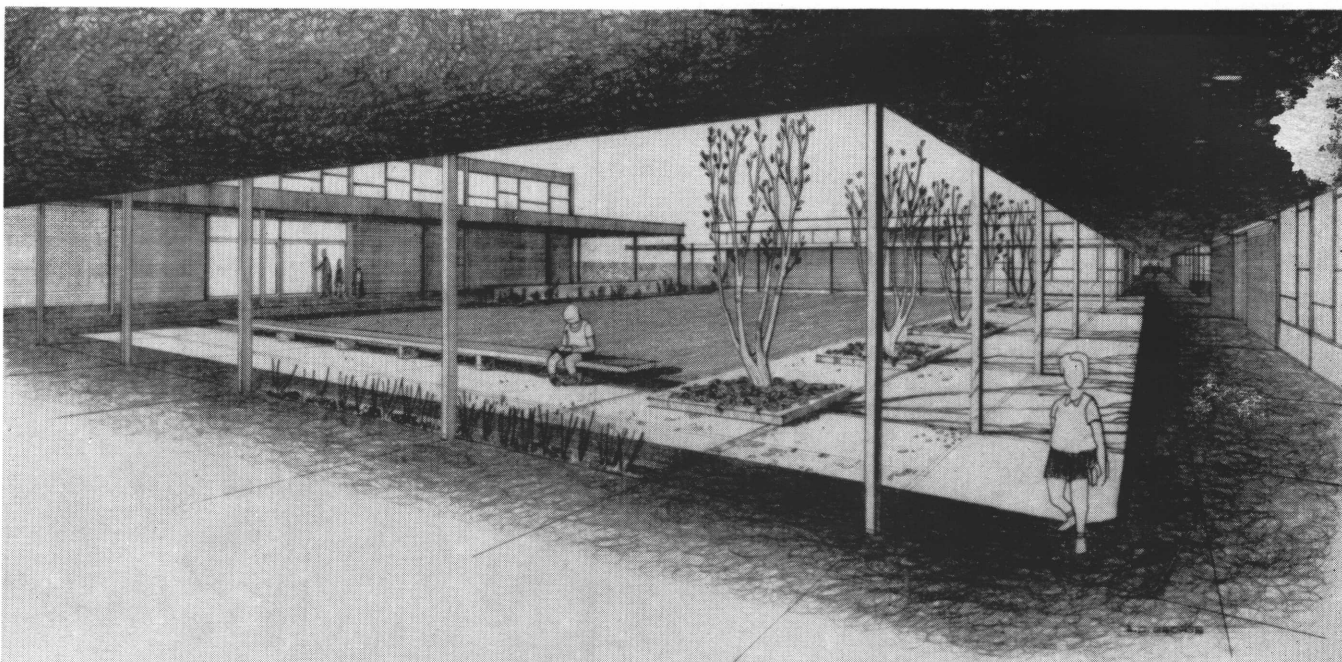
An effort was made to orient the scale of the entire project to children, with a height of six feet, eight inches being carried throughout the project for doors, covered walks, and all solid partitions. All furnishings are scaled down for use of children in various age groups.

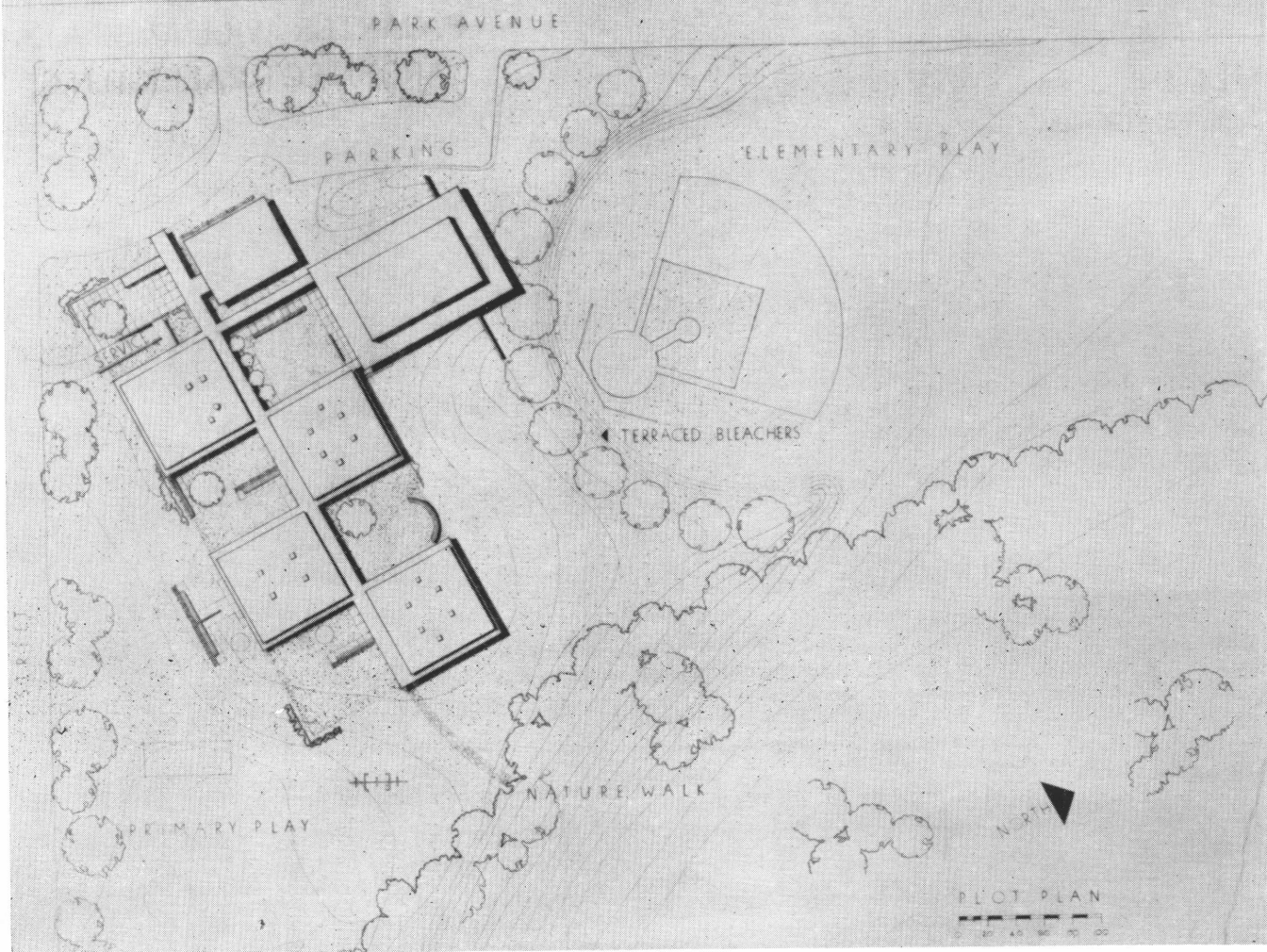
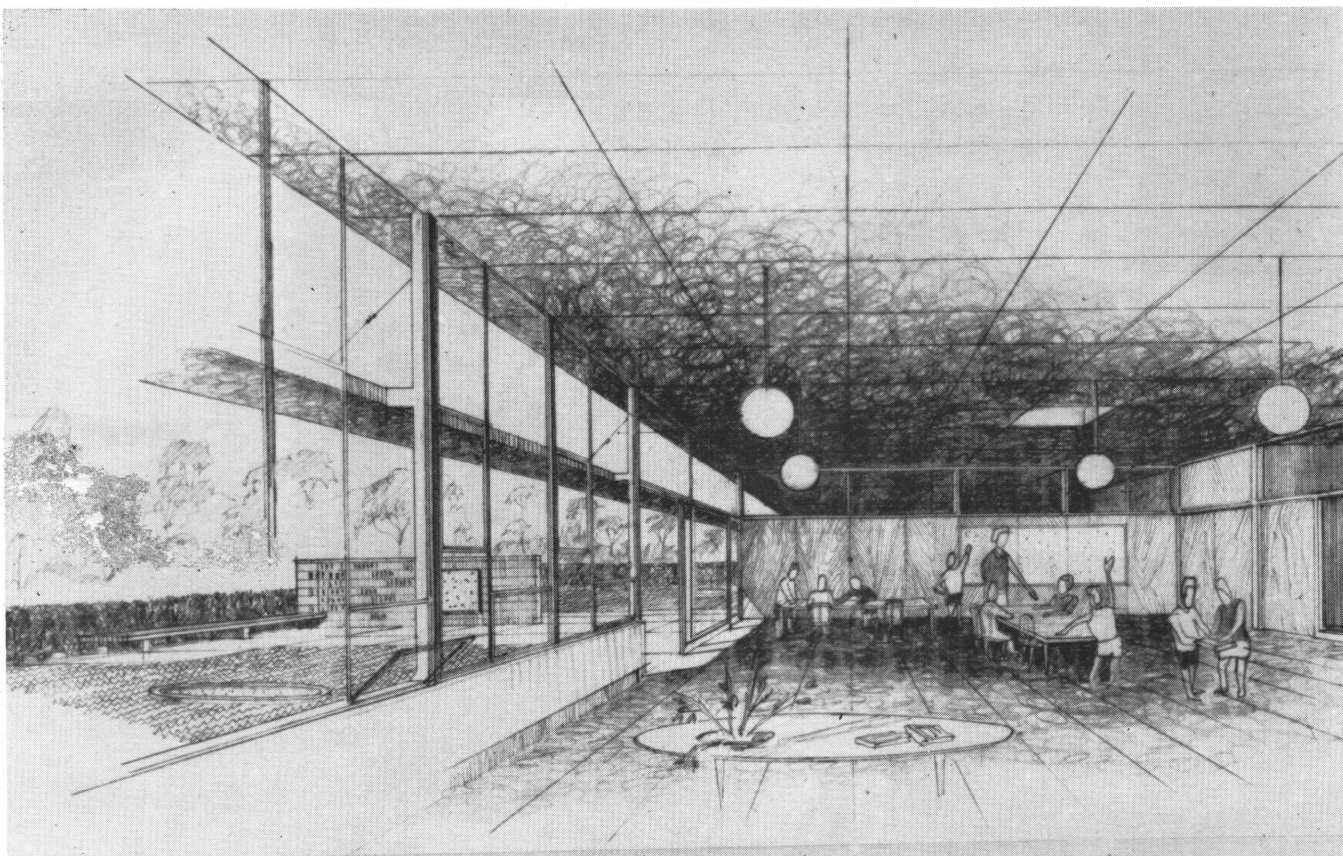
Exposed brick and natural finish plywood was used to add warmth and to carry out the residential character of the project. The roof structure is built up roof on wood fiber plank deck supported by

(Continued on page 29)

Elevation









More than 275 general contractors, subcontractors, material suppliers, architects, engineers, local, state and federal officials attended the opening of the new service office and plan room of Carolina Branch, Associated General Contractors of America in Charleston, S. C., Aug. 10. Shown left to right are R. B. Russell, President of Rusco Construction Company of Charlotte and an AGC director; Robert Patten of Charlotte, Managing Director of AGC; Harold Tatum, Charleston architect; and AGC President Frank P. Morris of Greenville, S. C. The construction officials are looking over some of the plans in the new offices located at 148 East Bay Street, Charleston.

Famous English Architect Joins State Faculty

Stefan Buzas, world-renowned English architect who has designed major buildings in London, Singapore, Rangoon, Istanbul, Baghdad, and Accra on Africa's Gold Coast, is now a visiting associate professor of architecture in the School of Design at North Carolina State College.



Announcement of the appointment of the 41-year-old architect to the North Carolina State post was made by Dean Henry L. Kamphoefner, AIA, of the college's School of Design, who said Buzas will relinquish his duties as a member of the firm of James Cubitt and Partners in London, largest architectural firm in the British Empire, to undertake the teaching assignment here.

A native of Tapolca, Hungary, Buzas is a naturalized English citizen who received his education in the Technical College of the University of Vienna and at the famed Architectural Association School in London. He received a diploma from the latter institution in 1940 and was elected an associate member of the venerable Royal Institute of Architects in 1950.

From 1941-44, Buzas was an assistant to various London architects and taught in the Department of Architecture of England's Kingston School of Art from 1944-47. During the same period, he was in partnership with Eric Brown on display and exhibition work.

Since 1948, he has been a partner with the firm of James Cubitt and Partners and was a part-time studio instructor at the Architectural Association School from 1950-52.

Professor Buzas' list of design contracts include various buildings in the United Kingdom, the Supreme Court Building at Baghdad, a Naval Training Station and show rooms and offices for Rangoon Electrical Supply Board in Burma, terrace housing for the Sultan of Brunei, Katong Hotel at Singapore, and Kumasi College of Technology in Accra on Africa's Gold Coast.

His work has been on exhibition at noted exhibitions and showrooms around the world and was featured at the 1951 Festival of Britain for which he designed the Dome of Discovery and various other features.

Buzas began his duties at North Carolina State College at the opening of the fall semester.

RESEARCH COMMITTEE ASKS COOPERATION

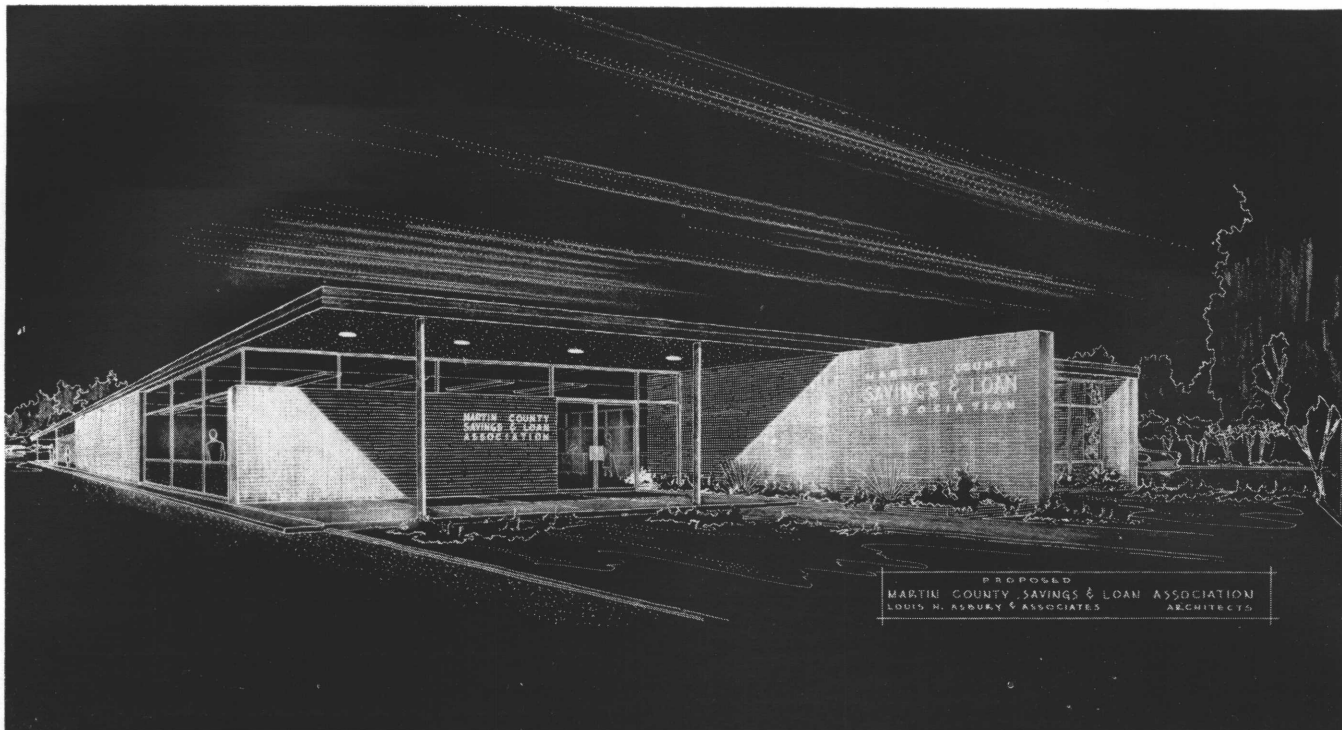
A request for cooperation in reporting both good and bad experience with building products and construction methods on the part of members of the North Carolina Chapter of the American Institute of Architects was issued recently by M. W. Sloan, AIA, of Charlotte, Chairman of the NCAIA Research Committee.

"The Chairman of your Research Committee is of the opinion that the best service we can offer at the present time depends entirely on the cooperation of the architects," Mr. Sloan said. "By this I mean that all of us should report both good and bad experiences with various materials and methods of construction so that articles may be written for SOUTHERN ARCHITECT which would be beneficial to all architects, and particularly to those of us with limited experience."

"I have already received information regarding some materials which apparently did not measure up to expectations for various reasons, and I expect to pass this on to you when enough subject matter is available."

"Let us hear from you on any subject or experience which you think might be of help to your fellow architects in rendering better service to their clients. It may be that some of you would find time to write an article on some subject relative to research. We hope you will do this."

"The public feels that an architect is supposed to know the good from the bad, so why not swap experiences, and possibly save the architectural profession in general a black eye? Please send information to M. W. Sloan, 301 Chatham Building, Charlotte, North Carolina."



Exterior

SAVINGS & LOAN ASSOCIATION

WILLIAMSTON, N. C.

Louis H. Asbury, AIA, & Associates

CHARLOTTE, N. C.

Developing a design for the Martin County Savings & Loan Association of Williamston, N. C., presented a multiplicity of problems for the architects, Louis H. Asbury, AIA, & Associates of Charlotte.

The owner desired generous public and personnel areas, a private directors' entrance, convenient auto banking facilities, a pleasant combination of materials, a prominent name location and planting areas in contemporary architecture with lots of grass.

Using a relatively limited lot width, the architect placed a double drive on each side of the building for in and out traffic. Public parking was also located in the rear, with most customers therefore entering the building from the rear. The paving and masonry were broken with greenery to

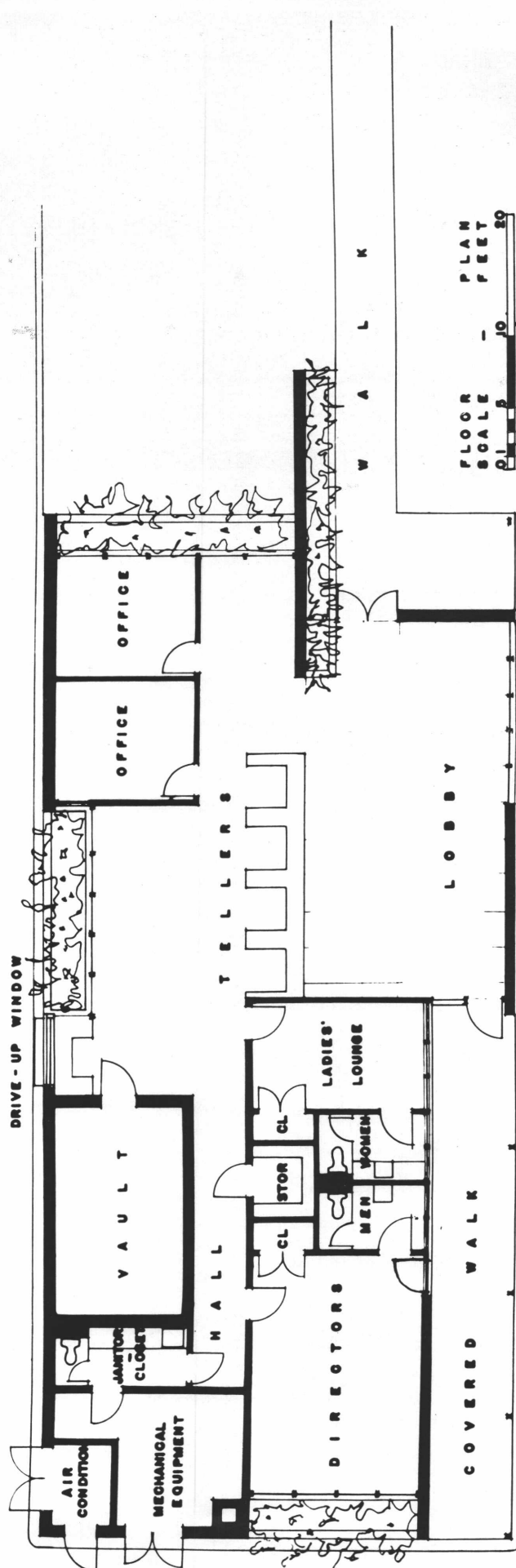
present a more attractive and pleasing appearance.

A large lobby was designed, with front and side entrances. The side entrance has a covered walk from the public parking area in the rear. The directors' room also opens from the covered walk on the side. Auto banking facilities were located on the driveway entrance side by a large planting area to increase the attractiveness of the auto banking area. Protected windows on the sun walls were used to effect air conditioning economy.

Materials used include brick cavity and insulated porcelain enamel panel exterior walls, concrete block plastered interior partitions, fluorescent troffer lighting, acoustical plaster ceilings, porcelain enamel fascia, and terrazzo and asphalt tile floors.

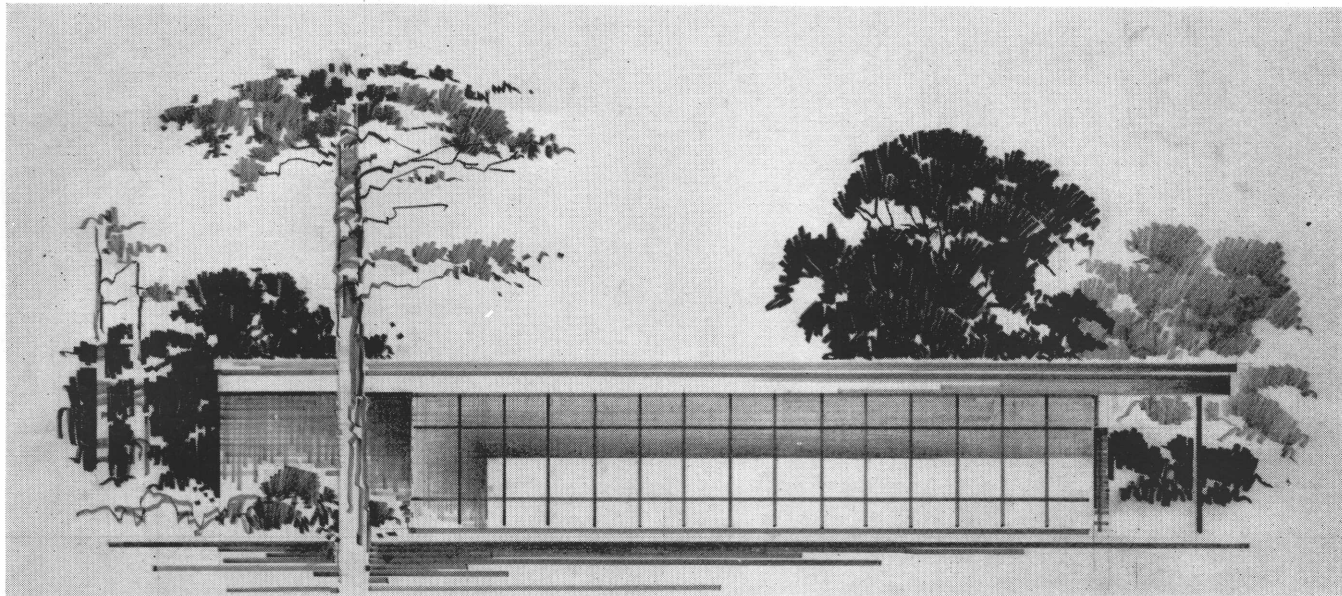
Floor
Plan

IN



OUT

FLOOR
SCALE
0 1 2 3 4 5 6 7 8 9 10 20
PLAN
FEET



BRANCH LIBRARY

CHARLOTTE, N. C.

James A. Malcolm, AIA

CHARLOTTE, N. C.

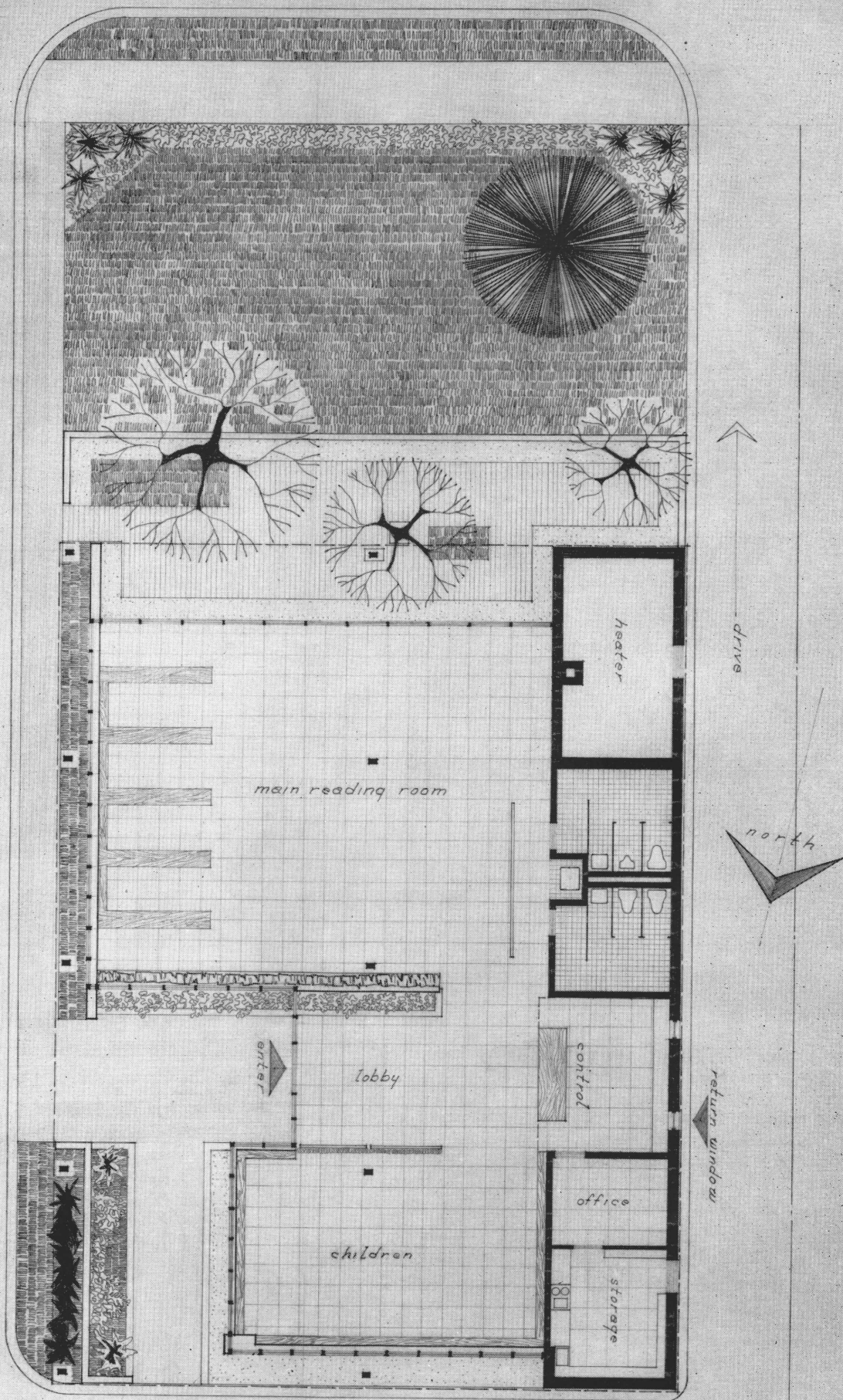
The North Branch of the Charlotte Public Library provides a simple design in contemporary architecture to serve as a branch library and provide community meeting facilities for the North section of Charlotte. James A. Malcolm, AIA, of Charlotte is the architect for the building.

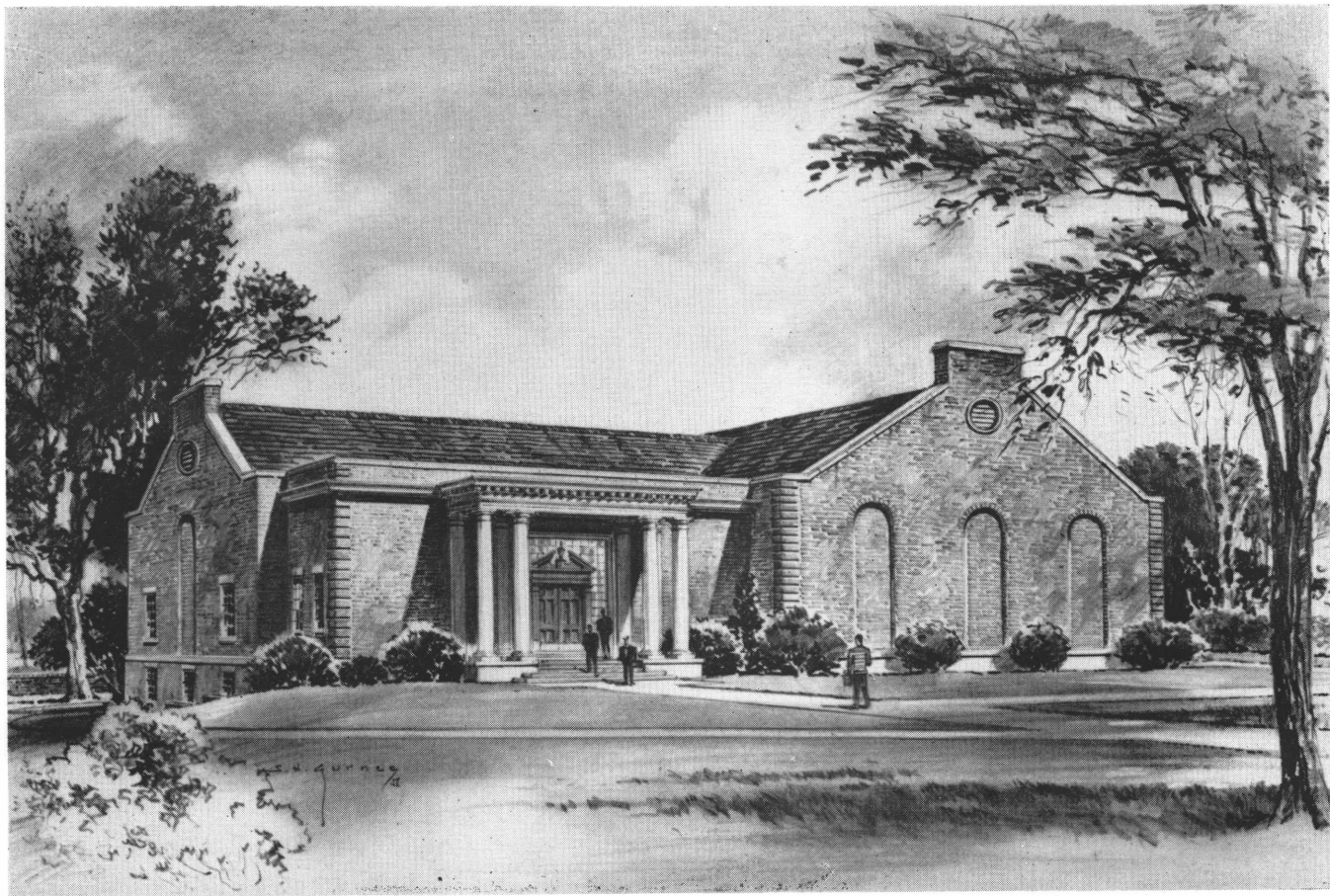
The basic problem faced by the architect was the development of segregated areas to provide reading rooms for adults and children and a stack room which could be segregated at any time for use for neighborhood community group meetings.

The architect's design provides for entrance through a foyer, which is a part of the adult reading room although segregated by plantings and book shelves.

The adult reading room, the children's reading room and the stack room may be entered from the foyer without disturbing any use being made of the other rooms.

Brick and concrete block are used to form the walls of the building in addition to plate glass walls, which are trimmed with aluminum. The floors are asphalt tile, while acoustical plaster forms the ceiling, with recessed fluorescent lights being used. The building is completely air conditioned.





PROPOSED GYMNASIUM

GREENSBORO

Loewenstein-Atkinson, AIA

GREENSBORO

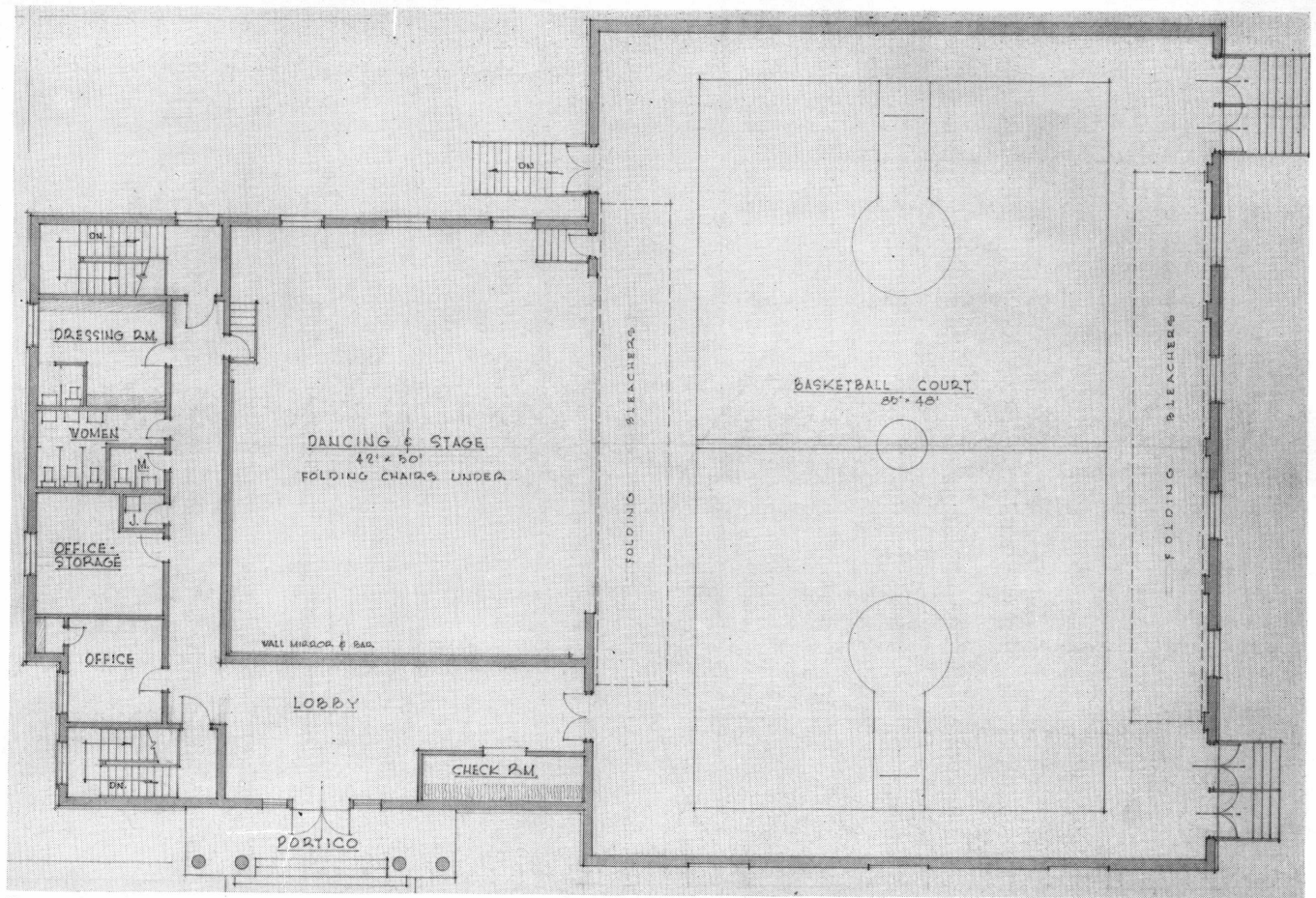
The proposed gymnasium designed by Loewenstein-Atkinson, AIA, of Greensboro, for Bennett College of Greensboro is Georgian to match the existing campus architecture. Located on a sharply sloping site, the area covered by the building is small and the site is half-hidden behind an existing dormitory.

The building will contain a basketball court, dancing stages, offices, swimming pool, dressing rooms, and corrective gymnasium.

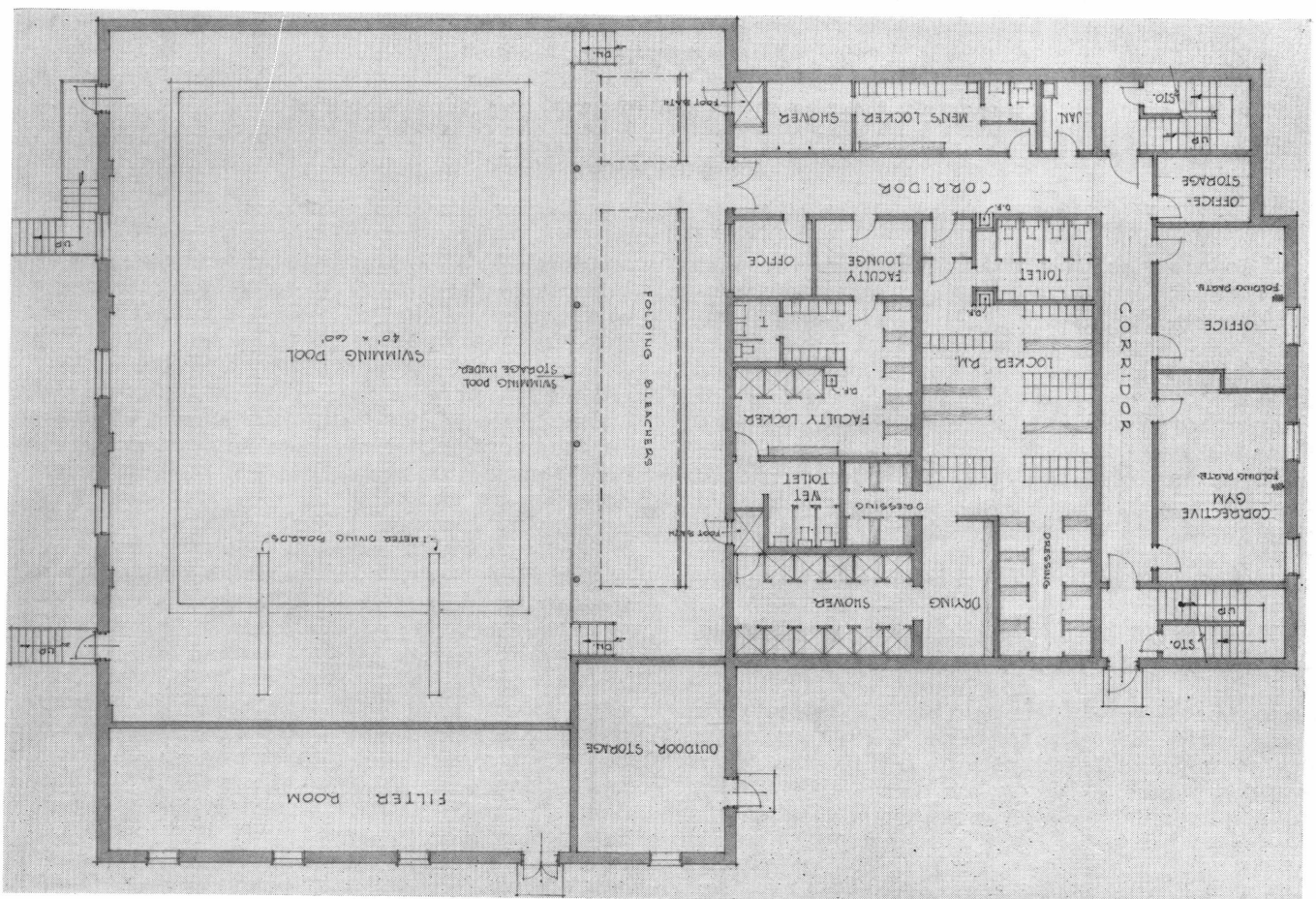
The structure was developed in a T shape, with

the entrance on the face of the leg, to be easily seen beyond the shielding dormitory. The building was developed on three levels to fit the site. The stage, offices, and basketball court are located on the top level, while the corrective gymnasium, dressing rooms, and teachers' lounges are on the second level. The swimming pool, storage rooms, and filter rooms are located on the lower level.

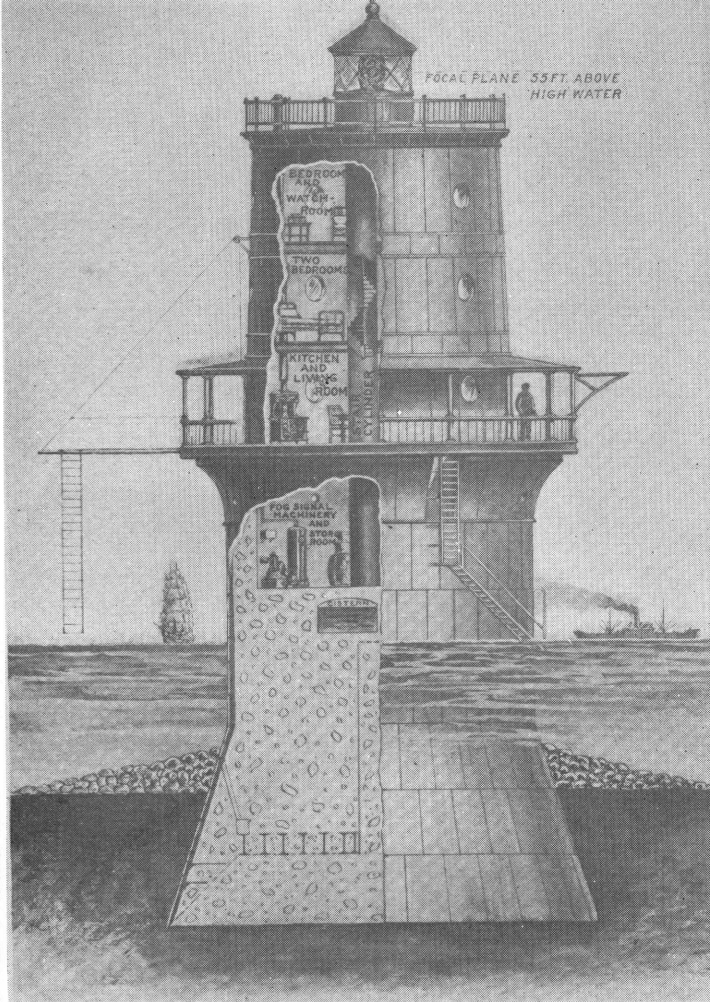
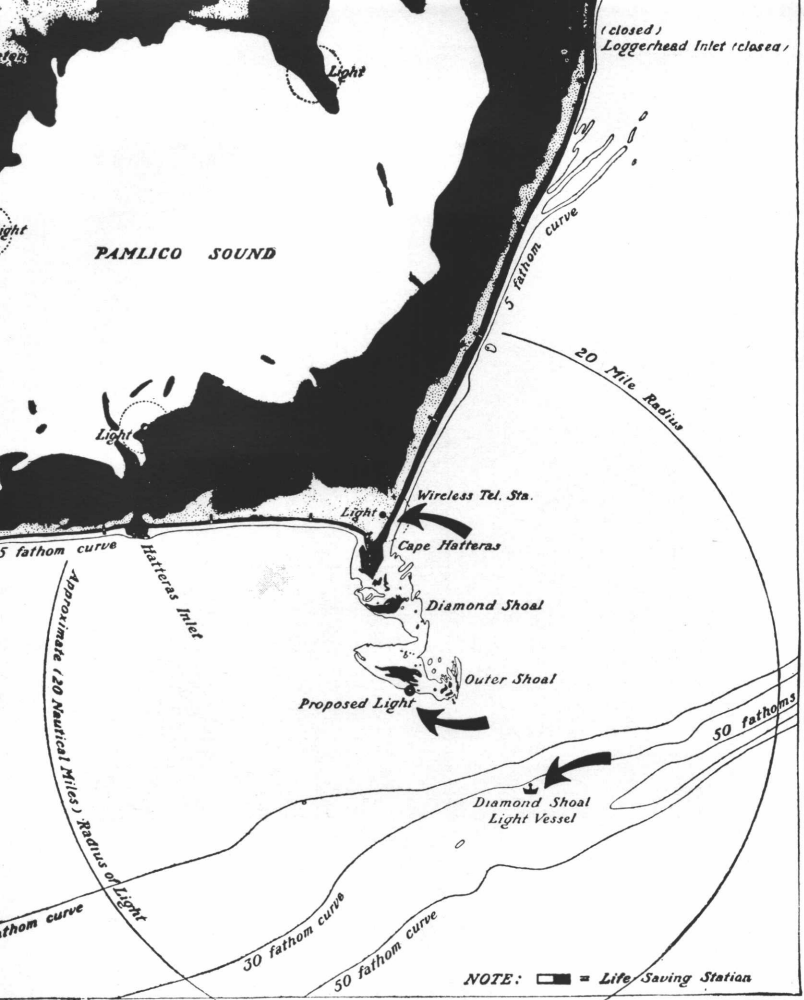
Walls are Flemish bond stone and concrete block. Rigid steel frames, steel trusses, concrete floors and slate roof were used. The swimming pool is ceramic tile.



Upper Level



Lower Level



Left, arrows show present lighthouse; proposed lighthouse at end of shoals; present lightship position. Right, here's the proposed light at edge of outer Diamonds.

LIGHTHOUSE ON THE DIAMONDS

By Earl Dean

(Reprinted from The State of August 25, 1956, by permission of the Publisher)

If anyone should ever ask you what was the most difficult and dangerous construction feat ever undertaken in the history of North Carolina in all probability you would be safe in saying the efforts to build a lighthouse on treacherous Diamond Shoals, the "Graveyard of Ships," seven and a half miles out in the Atlantic Ocean off the tip of stormy Cape Hatteras.

For in spite of all the hazards incidental to such an undertaking, three determined attempts to erect a lighthouse on the outer edge of these dreadful shoals have been made since 1889. All of them resulted in defeat for the engineers and the failure of their project.

The first efforts toward establishing a lighthouse out on Diamond Shoals began as far back as January, 1883, when more than three hundred marine insurance underwriters, merchants, shippers and masters of vessels engaged in coast-wise trade along the Atlantic seaboard petitioned Congress for a warning signal at sea on the shoals off Hatteras to supplement the lighthouse ashore. But it was five years before U. S. Senator Matt W. Ransom of North Carolina, was successful in getting legislation passed in Washington which would provide funds for such a tremendous undertaking. Finally,

on March 2, 1889, largely because of the appalling increase in the loss of life and property in shipwrecks off the North Carolina coast, a Congressional appropriation of \$500,000 was made available for a lighthouse on Diamond Shoals.

Leading construction firms throughout the United States bid on the project and the following July the contract was awarded Anderson & Barr, a New Jersey firm, who agreed to build a suitable structure out on the shoals and have it ready for lighting by January 1, 1892. Their price for the hazardous undertaking was \$485,000.

The New Jersey contractors began assembling their material at Norfolk, Va., the base of operations, in the spring of 1891, and by the middle of June, that year, a 45-foot wrought-iron caisson with a concrete filling two feet thick which drew eight feet of water was launched in the waters of the Elizabeth River. On June 28, the huge cylindrical structure, towed by three powerful tugs, was started on its way to the proposed site off Diamond Shoals. Four days later it was anchored in some 25 feet of water on the outer edge of the shoals.

The big wrought-iron cylinder, which weighed 376,000 pounds and had been constructed at a cost of \$20,000, was to be the foundation for a

150-foot tower containing eight floors to provide living quarters for a keeper and his family as well as ample space for all operations incidental to operating a lighthouse and fog signals so far out at sea. The top floor was to be a large lantern room containing equipment costing more than \$24,000 including a most powerful lantern, lens and fog signals.

Everything went well for several days; the weather was clear, the sea calm and peaceful, and it looked as though the builders from Anderson & Barr would be successful in their undertaking. Then on July 8 came one of those sudden, unpredictable and violent storms that so frequently sweep over Diamond Shoals. Within a few hours time the great iron cylinder was torn apart, construction gear, boats and men were swept away in the tempestuous seas, and what was to have been the foundation for the first Diamond Shoals lighthouse sank out of sight in quicksand beneath the raging seas. One Diamond Shoals storm was enough for the New Jersey contractors. Finding their expensive preliminary efforts defeated by wind and wave they decided to abandon the job.

Members of the U. S. Lighthouse Board, in Washington, however, were determined that the failure of the 1891 attempt to build a light out on Diamond Shoals should not end the matter. Accordingly, on May 10, 1894, apparatus was assembled at Newport News, Va., for boring deep holes in the sandy bottom of the ocean off Cape Hatteras with the idea of erecting a screw-pile structure as a lighthouse base. An expedition headed by Julius E. Rettig, superintendent of construction for the lighthouse board, set out in several boats from Hampton Roads for Diamond Shoals where, after considerable difficulty, tests were made and an iron framework left on the site out on the shoals which stood there for about a year before it too was swept away during a storm.

No further attempts were made to conquer Old Diamond until 1904 when Capt. Albert F. Eells, a Boston sea captain, who had nearly lost his ship off Cape Hatteras, succeeded in convincing Congressmen that a light out on Diamond Shoals was an absolute necessity to shipping passing along the North Carolina coast. So a bill was passed by Congress authorizing Capt. Eells and his New England associates to undertake the construction of a lighthouse on Diamond Shoals with the guarantee that the Federal government would pay them \$750,000 for the structure if it proved successful and withstood the wind and weather for a period of five years. If it should prove a failure, Congress stipulated, Capt. Eells and his associates would be the losers.

Much progress was made on paper and it all looked pretty feasible for a while but the third lighthouse on Diamond Shoals was destined never to be begun. After several months of planning and going to considerable expense to survey the site, Capt. Eells and his associates became convinced that they couldn't compete with the wrath of the Old Atlantic as it swirls about Hatteras' fearful shoals, and their project, too, had to be abandoned.

Nowadays Diamond Shoals Lightship, riding at anchor 14.9 miles southeast of the old Cape Hatteras light on the edge of the Gulf Stream, with a light visible some 15 miles at sea, serves the purpose well, and in all probability there never will be any further agitation for a lighthouse on the shoals.

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DO YOU KNOW HOW TO BE A GOOD CLIENT?

It seems odd that neither builder nor architect, whose prime interest is in the making of good buildings, has had much to say about what makes a good client. For without good clients there can be no good buildings, just as surely as with no clients at all there can be neither buildings nor architecture.

One client might instruct another, but such instruction would be fraught with the dangers of individual frailty and of "a little knowledge." The architect, although he can never be a client, is a man who knows well what makes a good one; for no other man in building has met with so many kinds or listened to so many dreams, impracticalities and insinuations of so many wistful, wishful and misinformed minds.

No client can be a good one unless he first does a good job of selecting his architect-partner, with whom he will live intimately for quite a while. His partnership will be a little like marriage, in which there should be no secrets; even to the prime objective which is creation.

Should Be Local

Your architect should be a local man. It is true that architects have worked well at a distance; it is also true that the same man who works well at a distance can do a better job at home, where he knows the local

conditions and flavor. No man is ever as careful with a job done away from home as with one at which he must look daily.

You should know your architect's background before you take him for better or for worse—his prior work, his taste, his practicality and his personality. Look at what he has done, and you can form your own opinion of his taste. Talk to his former clients and establish his practicality with a simple question, "Would you employ him again?" Then talk to the man himself and do not, hear, underestimate the importance of a congenial personality—you will live with it a long time, by cold daylight as well as by moonlight. A little caution—remember that a good sales approach sometimes goes with a good architect, but it is not a mark of the profession. An architect does not work with his tongue.

Start your relationship by thinking out for yourself what you really need, and put it down on paper in words. The architect calls this a written program; he can help you with it, but you must know your own basic needs. If yours is to be a building more complicated than a house, he can be of invaluable assistance in working out space allotment, personnel arrangement and sequence of functions. But, in any case, write out your problem before the

pencils begin to draw.

Of all the things a good client must do, the most important is to give his architect the whole story and full confidence. There should be no more secrecy here than in a doctor's examining room or in the privacy of a defense attorney's office. For instance, holding out on the amount of money you are really willing and able to spend is the utmost in silliness; nobody wins here, the client least of all.

Talk neither big nor small to your architect, but truthfully, and you'll get the most for each dollar. The architect is a practical man. He likes to think of himself as an artist; whether he is, or not, depends on definition of the word. He has done himself great harm in allowing the public to define him in the popular sense; a mistrust of his practicality is the result. To call him a creative craftsman would be more accurate. Consider the best-known architectural name (Frank Lloyd Wright) in America and how it embraces both definitions—for all his artistic schemes and unusual solutions, his clients have made money through his native shrewdness and practicality. They did it by giving him their utmost confidence and trust.—Reprinted from Architects' Report, publication of the Baltimore chapter of the American Institute of Architects

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BOOK REVIEW

HOME AIR CONDITIONING

By: G. J. Stout (\$5.95)

Published by D. Van Nostran Co., Inc.
120 Alexander St.
Princeton, N. J.

By Edward Loewenstein, AIA

If you read this book, you'll have nothing to talk about. This, of course, refers to the old bromide "everyone talks about the weather, but no one does anything about it." Possibly we are heading toward a low ebb in everyday conversation as the field of air conditioning is renovating not only the weather but also comfort and enjoyment. There are so many misconceptions on what air conditioning can do and so much ignorance on what it cannot do, that a book of this type should have a valuable place, not only from the buyer's standpoint, but also from the air conditioning contractors, engineers' and engineering salesmen's standpoint. The awful gap between the expert and the layman is bridged very accurately and with much benefit to both.

This book is broken down into subdivisions which will allow the reader to use it either as a reference, as a text, or merely as an interesting piece of written work which will provide hours of enjoyment. Its greatest value lies in the fact that it is appli-

cable not only to the prospective home owner, but also the occupant of an older house which has been either air conditioned or not air conditioned, and in any case, one which is not satisfactory from a comfort standpoint. A better meeting ground would be obtainable if both the architect and engineer and also the home owner could read this book before entering into discussions and selecting the type of equipment for the prospective project in view.

The layman is swamped by the wild claims and sometimes exaggerated findings of testing laboratories, pertaining to air conditioning equipment. Certain large houses can be cooled with a minimum tonnage whereas houses half the size require double the tonnage of the large house. It is pointed out that cooling involves not only changing the air temperature, but removing humidity. Insulation, shading, moisture proofing and methods of operation are of prime importance and sometimes are very hard to understand from the layman's, as well as the salesman's standpoint. A thorough discussion in the book takes up all of the known types of air conditioning mediums, including those which have been untried, but which are theoretically sound, as well as costs, and types of operation. The book has not the aspect of a dry text, although it is loaded with much technical information. For example, the author goes into the necessity of having an expert mechanic, who knows your job intimately, available on call. He suggests not only sending the mechanic a Christmas card, a birthday present, etc. but also going to all other extremes in order to ob-

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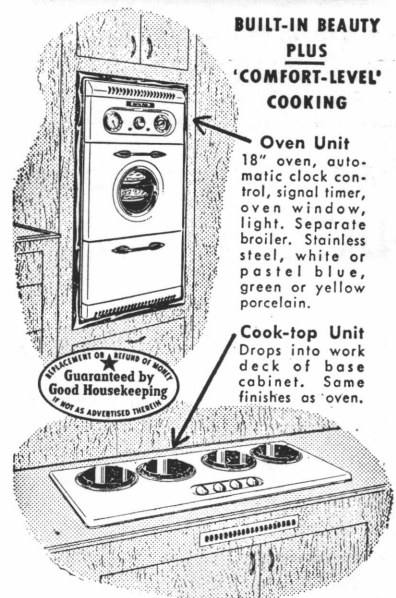
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tain efficient and continuous service. Supplementary means of cooling are thoroughly outlined, together with their costs and advantages or disadvantages. These include the use of roof sprays, various types of insulations, overhangs, trees, and a host of other methods of cooling.

This book gave me a great deal of personal satisfaction as it solved an operational problem in my own house which has been nagging me for some years. We had always felt that the cost of operation of the air conditioning equipment was so excessive that we hesitated to turn it on until it was absolutely needed, or at least until guests arrived at the front door step. At the end of the first half hour the room was most uncomfortable and the temperature had not dropped one iota. Mr. Stout quickly clarified this situation in showing that first one must remove the humidity before you can expect a temperature drop. Our rooms, which like everyone else's, are filled with moisture retaining materials, furniture and equipment, provide a tremendous reservoir for moisture and it is a long process before it can be removed. Consequently it might be cheaper to run the air conditioning equipment around the clock keeping the doors and windows sealed, rather than this intermittent operation. I am sure that any questions one might have pertaining to air conditioning are answered in this book. It is really astounding to see the technical detail described, and yet the extreme readability provided. It is not a sugared pill in any sense of the word, but extremely interesting, very well written and expertly organized.

It is high time that we all realize, whether professional or layman, that it is impossible in one life time to know all phases of even our specialized professions. In going over the tremendous reference works pertaining to air conditioning, such as those of the American Society of Heating and Ventilating Engineers, and other similar associations,

plus the many text books on the subject, it is too discouraging for the non-professional to proceed further. He will call a friend who usually has some ax to grind, with the result that a great deal of inefficiency and expense is encountered.

Of particular interest to me was the section which described the window type cooler, or "window jerker" as they are known in the trade, which at this time (fall) have dropped in price considerably. Now is the time to provide for your air conditioning needs next summer. It is pointed out that any new development would probably have so many bugs in it as to make it an unsound investment, while the tried and true types of units, which are now begging to be sold, would be a marvelous investment. The discussion on cost of electricity versus oil, gas, etc. is of major importance and interest to everyone and all in all no one interested in home air conditioning should be without this extremely valuable book.

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Apprentice bricklayers throughout North Carolina will compete Oct. 19 at the North Carolina State Fair for these trophies presented to Commissioner of Labor Frank Crane (right). The presentation was made in the Commissioner's office by A. J. Fox of Raleigh, Vice-President of F. N. Thompson, Inc., of Raleigh and Charlotte, and former President of Carolinas Branch, Associated General Contractors of America. The AGC made the trophies available to the bricklaying contest committee which will present them later to the bricklaying contest winner and the employer of the winner. The contest is scheduled on "School Day" at the State Fair. Savings bonds will also be awarded to the three top winners.

Announce Plans For Bricklaying Contest

Carolinas Branch, Associated General Contractors of America, has made available two trophies for the third annual North Carolina Apprentice Bricklaying Contest at the State Fair, Oct. 19.

The trophy presentation was made to North Carolina Commis-

sioner of Labor Frank Crane by A. J. Fox of Raleigh, former President of Carolinas Branch, AGC, and Vice-President of F. N. Thompson, Inc. of Raleigh and Charlotte.

Commissioner Crane will keep the trophies until after the con-

test when they will be presented to the winner and his employer.

Carolinas Branch, AGC, one of the sponsors of the bricklaying contest and a supporter of the North Carolina apprenticeship program, has urged its members to enter apprentices in the annual competition. All contestants must file official entry blanks not later than October 13 with C. L. Beddingfield, director of the Division of Apprenticeship Training, North Carolina Department of Labor, Raleigh.

Final plans for the contest were developed by a committee headed by H. B. Foster of Greensboro, general manager of Brick and Tile Service, Inc. Other members are two AGC staff members, Industrial Relations Manager Charles H. Shaw, Jr. and Public Relations Director Fred L. McGee, both of Charlotte; Harry Null of Builders Supplies Company, Inc., Goldsboro; C. E. Reeves, a Fayetteville general contractor; Robert Berry of the Durham-Raleigh-Goldsboro Construction Apprentice Council; F. Carter Williams, AIA, of Raleigh, President of the North Carolina Chapter of the

(Continued on page 29)

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ARCHITECTS AND BUILDERS IN THE NEWS

To Head Group

W. W. Martin, Hendersonville heating contractor, has been elected President of the Hendersonville Chamber of Commerce for the coming year.

Heads Association

J. E. Connelly of Reidsville has been elected President of the Board of the Piedmont Natural Gas Company. B. E. Zeigler of the Southeastern Gas Association. Mr. Connelly succeeds J. D. Pick-Public Service Company of North Carolina of Gastonia was named First Vice-President.

Named President

Alex M. Quattlebaum, Florence, S. C., contractor, has been elected President of the South Carolina Wildlife Federation

after serving as Vice-President during the past year.

Taken By Death

James Douthit Beacham, AIA, a member of the Greenville, S. C., architectural firm of Beacham, Race, Beacham & Wood, died recently at his home in Greenville. In addition to membership in the American Institute of Architects, Mr. Beacham was also a member of the Greenville Council of Architects.

Joins Firm

Frederick F. Sadri recently joined the firm of A. G. Odell, Jr., AIA, & Associates of Charlotte. Mr. Sadri is a graduate of M.I.T. and received the Undergraduate Mention Award in the Pan American Interscholastic Work Exhibit

in 1950. He also received honorable mention in the Masonry Design Competition in 1955. He was formerly with Robert B. Marquis & Associates of San Francisco, Cal. Mr. Sadri is married and the Sadris have one daughter.

With Charlotte Firm

Eugene B. Midyette recently joined A. G. Odell, Jr., AIA, & Associates of Charlotte. A 1956 graduate of the North Carolina State College School of Design, Mr. Midyette was formerly with George Matsumoto, AIA of Raleigh and with F. Carter Williams, AIA, of Raleigh.

Announce Changes

Thomas, Harles, AIA, & Shields of Rocky Mount announce that Ryland P. Edwards has become a member of the firm, which will practice architecture under the name of Thomas, Harles, AIA, Shields & Edwards. Mr. Shields and Mr. Edwards are associate members of AIA.

Named President

James D. Wilkins, Jr., of Greensboro, has been named President of J. D. Wilkins Company of Greensboro, producers of metal specialties for the construction industry. Mr. Wilkins fills the position held by his father until his recent death.

Elected Director

James A. Stenhouse, AIA, of Charlotte has been elected a member of the Board of Directors of the Archeological Society of North Carolina for the coming year.

Awarded Degree

Lucian J. Dale, Jr., son of Lucian J. Dale, AIA, of Charlotte, has been awarded his B.S. in Civil Engineering degree from Duke University. Mr. Dale was also recently commissioned a second lieutenant in the United States Air Force Reserve.

Training Course

T. G. Berry of the Crane Company branch office in Charlotte is attending an eight weeks course of training in the company's home office in Chicago, which will include training periods in company factories in Chicago, Chattanooga Tenn., and Trenton, N. J.

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NEW PRODUCT

A new siding product with a built-in shadow line, which adds beauty, quality and solidity to the home structure, has been placed on the market by United States Gypsum Company.

Merchandised under the brand name, **SHADOW ACCENT GLATEX**, the new siding material has a deep shadow line color-toned on each shingle, which feature casts a "glamorous shadow" along the horizontal courses of the applied shingles. The straight-grained vertical texture of the shingles produces continuous, uninterrupted beauty all around the house.

SHADOW ACCENT GLATEX shingles are sold in five popular home colors—Meadow Green, Dover White, Ranch Brown, Bamboo Ivory and Sheffield Gray. They are washable, highly fire- and weather-resistant, and their application tightens the walls of the home.

The new shingles, it was pointed out, never need paint. Their baked-on ceramic finish washes like a china plate. Smudge, soot and grease are easily wiped away. The ceramic coating, baked on under high temperatures, is color fast. Also, it offers protection against sun, wind, rain, sleet and snow. The "fire-proofness" of the **GLATEX** shingles protects the home from outdoor fire hazards, such as flying sparks or burning embers.

The large, true-dimension die-cut shingles are applied with snug, tight-fitting joints which eliminate air leaks and add to the structural solidity of the wall. United States Gypsum Company, 300 West Adams Street, Chicago 6, Ill.

ELEMENTARY SCHOOL

(Continued from page 12)

steel joists and beams. Four central steel columns are used, with structural steel mullions around the perimeter. Floors are vinyl asbestos on slab on grade. Ceilings are fiber glass ceiling tiles. The covered walk and playshed roof has a steel deck.

ANNOUNCE PLANS

(Continued from page 27)

American Institute of Architects; and Mr. Beddingfield.

Defense bonds of \$100, \$50 and \$25, contributed by Brick and Tile Service, Inc., will be awarded the three top contestants. Merchandise prizes have been contributed by sponsors who include the AGC, the Division of Apprenticeship Training, N. C. Department of Labor; Brick and Tile Service, Inc.; the Durham-Raleigh-Goldsboro Construction Apprentice Council; North Carolina Chapter of the AIA; North Carolina Division of Vocational Education; and the Carolina Lumber and Building Supply Association.

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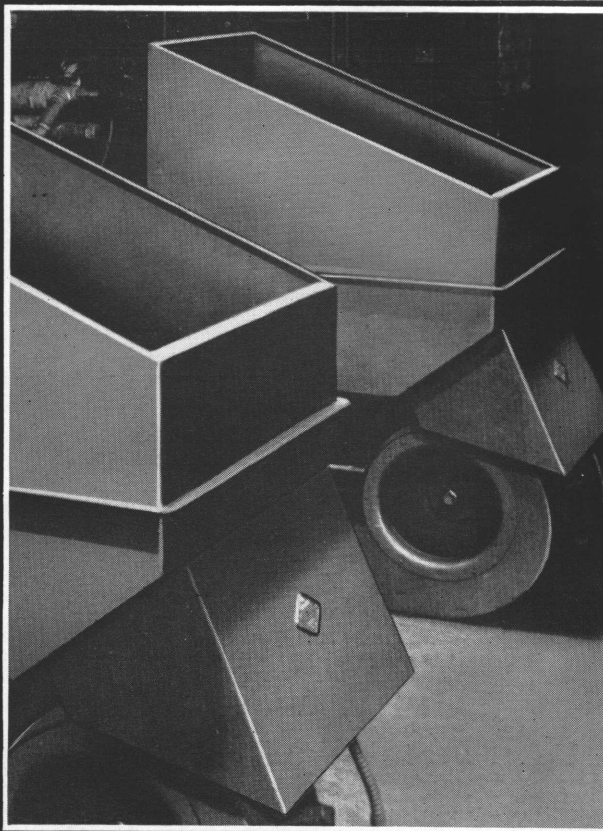
"convinced we
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Write for complete Reference Manual, AIA File No. 30-G-3, valuable for architects, engineers, contractors, and specifying authorities. Ask also for brochure, "The Logic of Stoker Heating."

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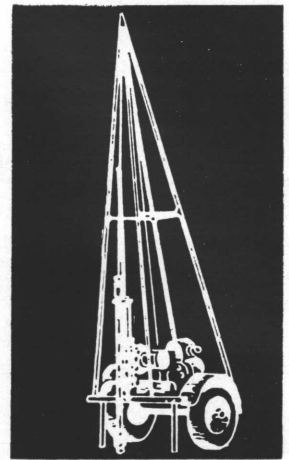
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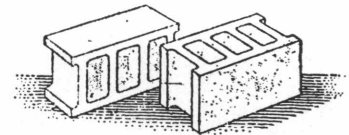
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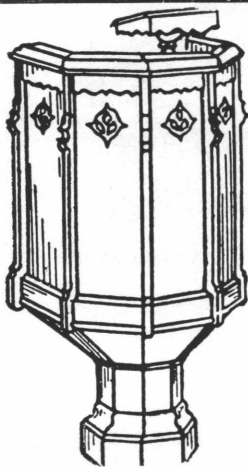
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NEW PRODUCTS

Draftsmen, designers and engineers are now assured of a lead holder which offers positive protection against lead slippage and turning. It puts to an end, once and for all, costly smudged, damaged and interrupted pencil lines and resultant spoiled drawings.

This unique, new lead holder, the **DAMASCUS**, was designed by engineers for engineers. It possesses a self-cleaning clutch which eliminates build-up and clogging from graphite particles and holds the lead in a tenacious, immovable grip. The lead will not slip because it cannot slip!

The hardened-steel clutch and socket of this new **DAMASCUS** assures maximum life and sturdily resists abrasives when sharpening points. It has a spring-loaded release mechanism which grasps the lead securely and operates quickly and easily.

For stability and time-tested wear, the **DAMASCUS** is of all-metal construction and the feather-light barrel is of anodized aluminum. Balance is in the finger grip to assure the user perfect control of the holder at all times.

Bright colorful tips in red, blue or yellow provide easy identification of the degree of lead in use. Richard Best Pencil Company, Springfield, N. J.

A new plaster mounting ring that cuts diffuser flush mounting costs up to 80% and prevents diffuser from ever sagging away from the ceiling has been announced by Titus Manufacturing Corporation, Waterloo, Iowa.

The new Titus Model **PMR** plaster mounting ring serves as a combination ceiling diffuser mounting ring and plaster ground and can be used for flush mounting Titus ceiling diffusers on all types of ceilings.

The Titus **PMR** eliminates the headaches and many time consuming operations that have long been a plague in flush mounting ceiling diffusers.

It installs in 2 quick, easy steps: (1) Slip the neck of the plaster mounting ring over the duct, (2) Secure it to the lathing channels or ceiling construction being used with 2 screws.

After plastering is finished you simply mount Titus ceiling diffuser to **PMR** with three screws.

When the Titus plaster mounting ring is used there are no holes to cut in the plaster—no trimming or patching to do. And the old problem of getting the ceiling hole for the diffuser correctly centered to the hole in the duct is completely eliminated—for the Titus **PMR** automatically provides the correct size and position of ceiling opening and centers diffuser to it.

Diffusers mounted to Titus plaster mounting rings will never sag away from the ceiling because weight of diffuser is supported by sturdy ceiling framework instead of just the duct as in most ordinary installations.

The new Titus plaster mounting ring is made of sturdy steel construction and is designed for flush mounting Titus

new line of circular ceiling diffusers only. Available now in all sizes required to flush mount all sizes of Titus ceiling diffusers. Ceiling Diffuser Division, Titus Manufacturing Corporation, Waterloo, Iowa.

KAYTHERM, a new wide temperature range molded insulation designed for use on steam and heated process piping has just been introduced to the market by Keasbey & Mattison Company, manufacturer of a complete line of asbestos products. This highly effective low conductivity insulation withstands pipe temperatures up to 1350 degrees Fahrenheit.

KAYTHERM, which is produced in half-cylindrical sections and segments 36 inches long, is easy to install requiring only simple encircling metal bands to fasten two mating sections to a pipe. It can be cut easily and worked with ordinary tools. This wide temperature range pipe insulation comes in a variety of thicknesses ranging from one-inch to four-inches and will accommodate pipes up to 33 inches in diameter.

KAYTHERM pipe insulation is made by reacting lime and diatomaceous earth under suitable conditions of heat and water to form a hydrous calcium silicate which is bonded together with asbestos fibers. This chemically stable insulating

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Top Photo: Belk Bros. Co. new addition, Charlotte, N. C.
Bottom Photo: The Springs Cotton Mills Bleachery, Lancaster, S. C.

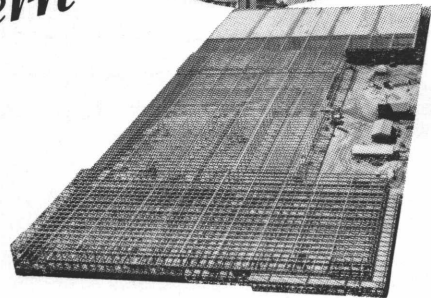


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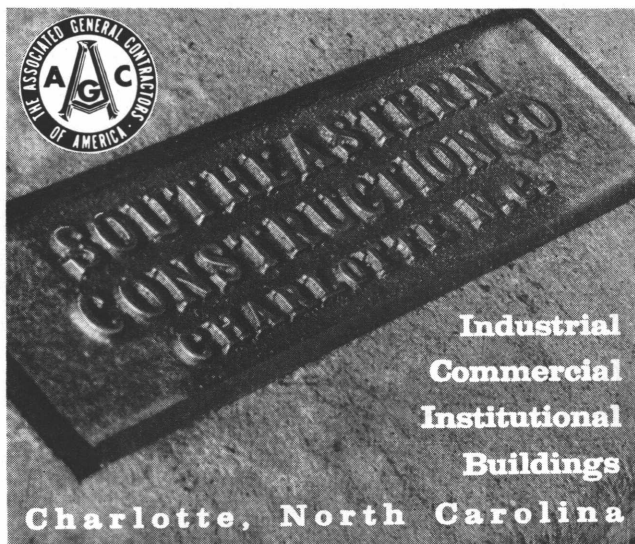
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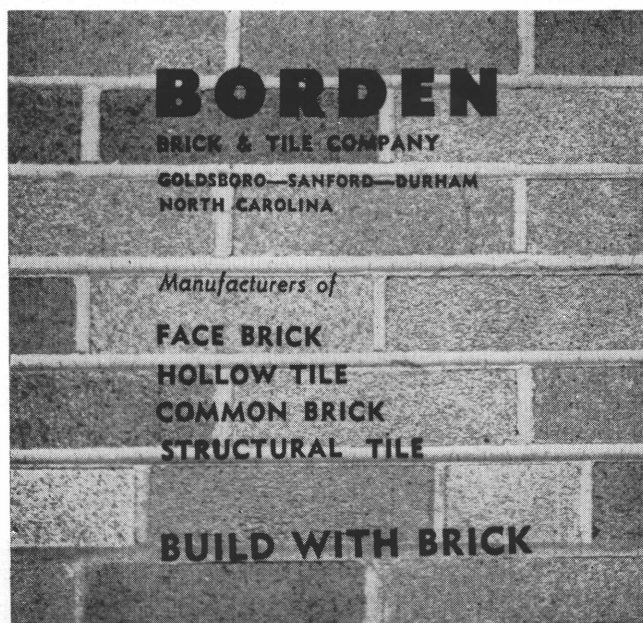
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material has many of the favorable characteristics of fine concrete such as exceptional strength and wear resistance and unusual dimensional stability.

The largest produced sections of **KAYTHERM** are light in weight and easy to handle. **KAYTHERM** is flame-resistant and chemically inert and insoluble in water. Its compressive strength permits it to be laid over any irregular shapes, bolts and depressions and held tight without concern of breakage. Keasbey & Mattison Company, Ambler, Pa.

A dramatic change and engineering improvement in the production of Bird & Son's **MANORSTONE** insulating siding has resulted in a product which creates a more realistic stone-like appearance.

The important development consists of a fresher, brighter design which improves the brilliance of the over-all color effect, covering all of the embossed areas with complementary colored granules and which modifies the scoring lines. This highlights the three-dimensional effect of the design.

The fresh new approach to the design of new **MANORSTONE** is in keeping with Bird & Son's national roofing and siding promotion on color, in attempting to make the consumer aware of the fact that it is easy for every homeowner to "exterior decorate" his home—with the accent on roof and siding colors.

In keeping with this central theme, and after careful consumer appeal studies, engineers have developed new, exciting colors for **MANORSTONE**: Norfolk Green, Arizona Tan, Canyon Gold, Marble White and Sea Isle Blue. Bird & Son, Inc., East Walpole, Mass.

Large in capacity, small in size—best describes this new, attractive glass filler drinking water cooler. For Haws Model **CAFE-5** is only 18 inches wide by 24 inches deep, yet has storage capacity for five gallons and recovery rate of 12½ gallons of 50° drinking water per hour, under standard rating conditions. It is ideally suited for small cafeterias, restaurants, diners, snack bars, or any other location where peak capacities are relatively high, but where space is at a premium.

This new Haws cooler is highly adaptable for use as a counter unit, or can be installed in a separate location as a complete water station. It is furnished with stainless steel top and glass rack, and is of 36" standard counter height, with an overall height of 44"! The cabinet is available in either hammertone gray finish or stainless steel. The glass filler faucet is a favorite of long standing, Haws Model 427, push back, prong pedestal type, chrome plated.

Model **CAFE-5's** cooling system is hermetically sealed. The motor is 1/3 HP with 115 volt, 60 cycle, A.C., single phase electrical rating. The refrigerant is Freon 12. All water connections are copper and brass, with 1/2 inch I.P. inlet, and 1 1/4 inch I.P. outlet. Haws Drink-

ing Faucet Company, 4th & Page Streets, Berkeley 10, Calif.

An extruded acrylic sheet, substantially lower in cost than cast sheet and suitable for many architectural applications is now being manufactured.

The new extruded acrylic sheet shows great clarity and beauty of finish. It is exceptionally free of extrusion lines and other marks or blemishes. It is free of internal strain and has excellent machineability. It vacuum forms and drape forms well and may be subjected to deep draws. It holds close thickness

tolerance and gives minimum shrinkage at forming heats. It has excellent weathering characteristics. It is stocked in .060, .080, .100 and .125" thicknesses, in stock 49" widths, lengths as desired. Other sizes are available on request.

Architectural applications of the new **CADCO** extruded acrylic sheet include: decorative panels and trim, store fronts, ornamental plaques, escutcheons, light fixtures, diffuser panels, luminous ceilings, skylighting and glazing, partitions, louvers, signs, letters, nameplates, displays, models, laminations. Cadillac Plastic & Chemical Company, 15111 Second Street, Detroit 3, Mich.



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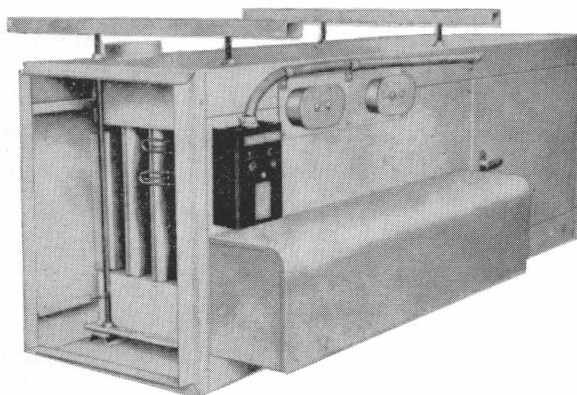


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