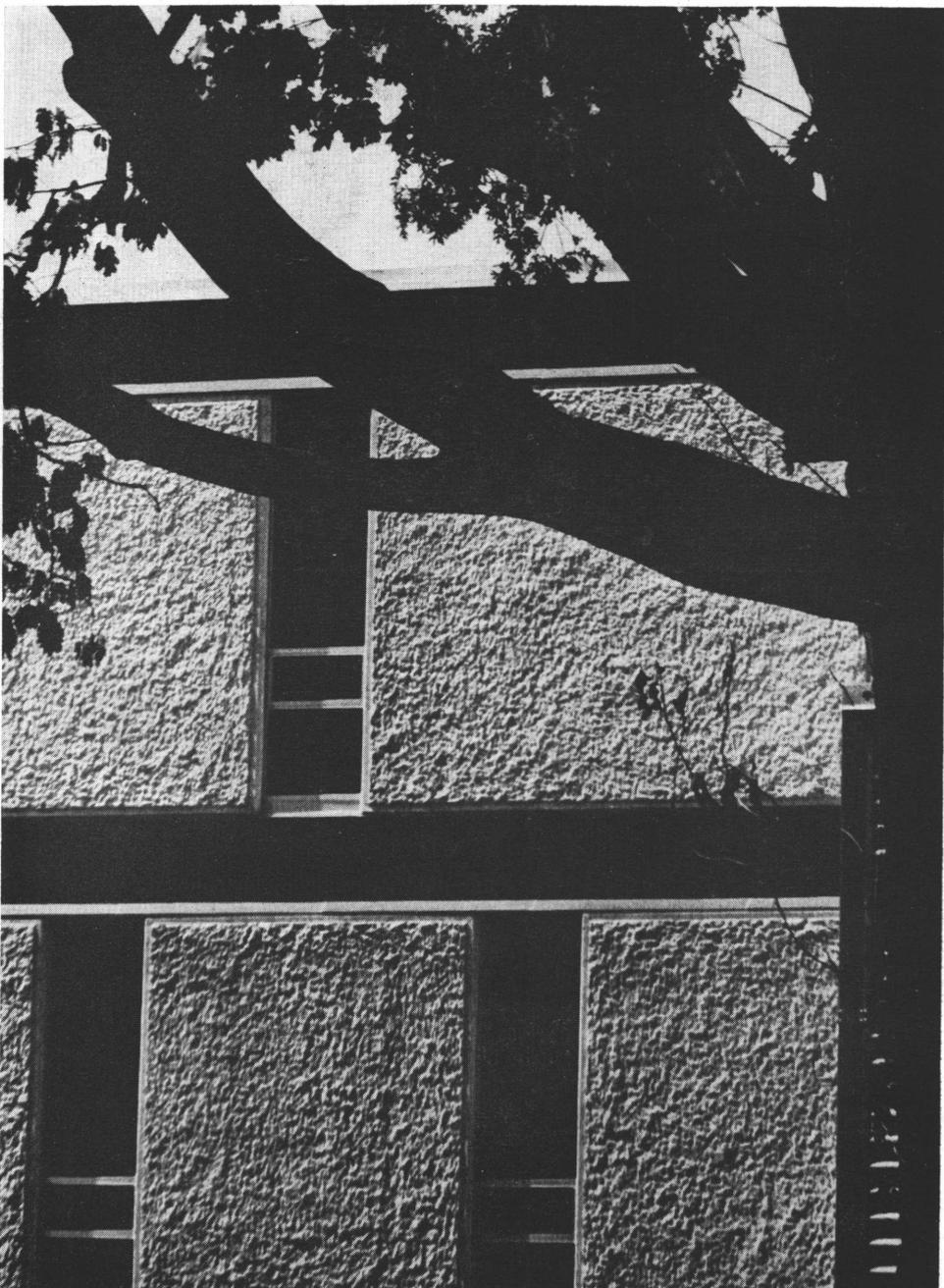




SOUTHERN ARCHITECT



MARCH 1964



NCAIA
HONOR
AWARDS
1964



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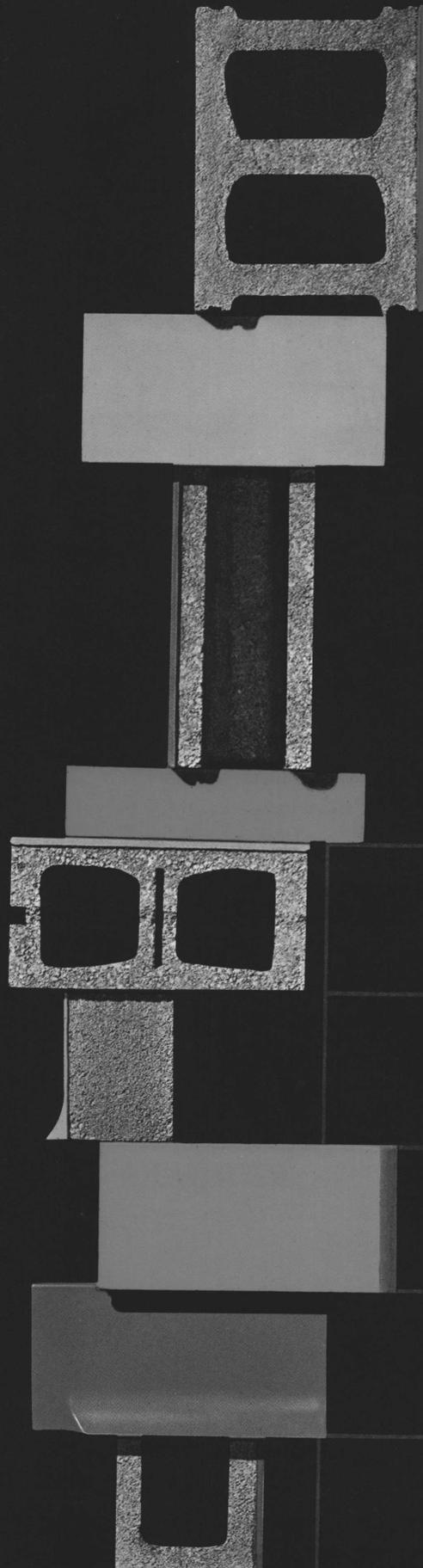
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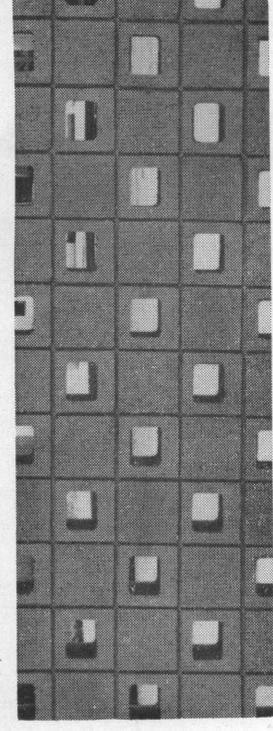
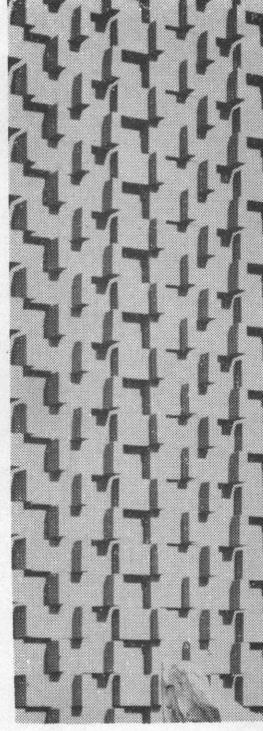
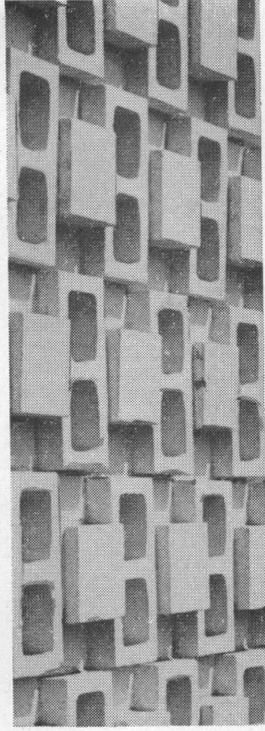
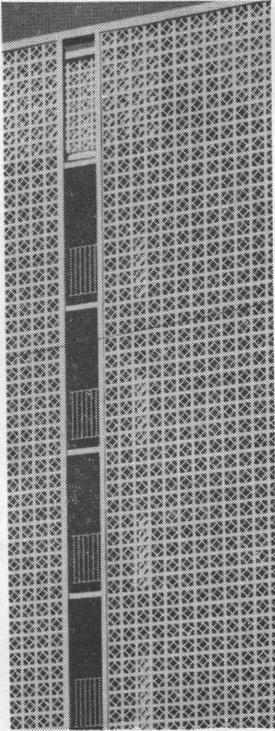
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In recent years increasing attention has been given to wall surfaces in architectural design. Concrete masonry units have been found particularly useful in creating new and exciting variations on this theme.

Using a simple cubic unit of concrete masonry it is possible to design an infinite variety of shapes and textures for plane surfaces. Light can be controlled and made an important ele-

ment in the structure by using protrusions or perforations. A tactile quality can be successfully imparted to an otherwise monotonous area by the judicious use of staggered units.

The architectonic possibilities of today's concrete masonry are simply another reason why this newly-rediscovered material is finding its way into more and more contemporary structures.



THE NORTH CAROLINA CONCRETE MASONRY ASSOCIATION

715 W. Johnson St. / P.O. Box 10533 / Phone TE 3-7584 / Raleigh, N.C. 27605

MARCH 1964
 VOLUME 11
 NUMBER 3

SOUTHERN ARCHITECT



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CONTENTS

President's Message	7
Introduction to 1964 Honor Awards	9
Honor Award, American Red Cross Building, Charlotte	10 & 11
Honor Award, Residence, Asheville	12 & 13
Award of Merit, Northwestern Insurance Company Regional Office, Raleigh	14 & 15
Award of Merit, Architect's Own Residence, Raleigh	16 & 17
CSI Holds Charlotte Meeting	18
A Challenge for the Future, by A. G. Odell, Jr.	19, 20 & 21
Design Foundation News	22
The Architect Vs. The Insurance Company	23
News Items	24 & 27
Directory of Salesmen's Products	29
Calendar of Events	30

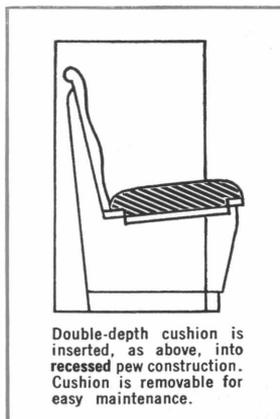
Cover Photo: American Red Cross Chapter and Blood Center, Charlotte.
 Photo by Declan Haun.



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The Chapter Honor Awards Program was conceived in 1954 and the first annual exhibit was held at the Winter Meeting in Chapel Hill in January, 1955. John C. Higgins, Jr., of Charlotte, was Chairman of the first Exhibitions Committee. The program got off to a bangup start with 52 entries from 21 firms. It was recognized that there were a large number of entries in 1955 because it was the first year of the program. Many people feared that there would not be enough work in the state worthy of exhibit to make the program an annual affair. This has not been the case and the program has continued on an annual basis completing its tenth year during the Winter Meeting in Charlotte this past January.

During the ten year Honor Awards Program, over 300 projects have been entered by architects and architectural firms in North Carolina. Sixty-five of these, designed by 29 different firms, have received awards. The best year for award winners was the inaugural year of 1955 when 14 separate projects designed by eight different firms were cited. Stingiest years were 1959 with three awards, 1963 with four awards, and 1964 with four awards. Interestingly enough, a number of people who have followed the program from its inception commented that all of the projects entered in 1964 would have won prizes in the first year of the program. This is evidence of the healthy effect that the Awards Program is having on architectural design in North Carolina.

You may be interested to know that residences have been the top winners with 17 having received awards during the ten year period. Office buildings have been next with ten award winners and public schools third with eight. There are seven residences which have received awards in Raleigh, and four in Chapel Hill indicating that this area is the center of good residential design. Charlotte has had the upper hand in public school design with four of the eight schools receiving awards located there.

The program has not been dominated by a few firms. As mentioned above, 29 firms have received awards during the program. Two have received eight each and fifteen have received one each. Small offices have received as many awards as large offices and winning types include everything from branch banks and dairy bars to the Charlotte Auditorium and Coliseum.

The Honor Awards Program of the North Carolina Chapter has become one of its best public relations tools. Newspapers have given excellent coverage to the award winners and the Exhibitions Committee has arranged annually for all entries to tour the state and be displayed in public places in our leading towns and cities. The response to this has been good and there is now a demand for the exhibit each year. Indications are that the Awards Program will continue to grow as architectural design continues to improve in North Carolina.

S. Scott Tucker, Jr.

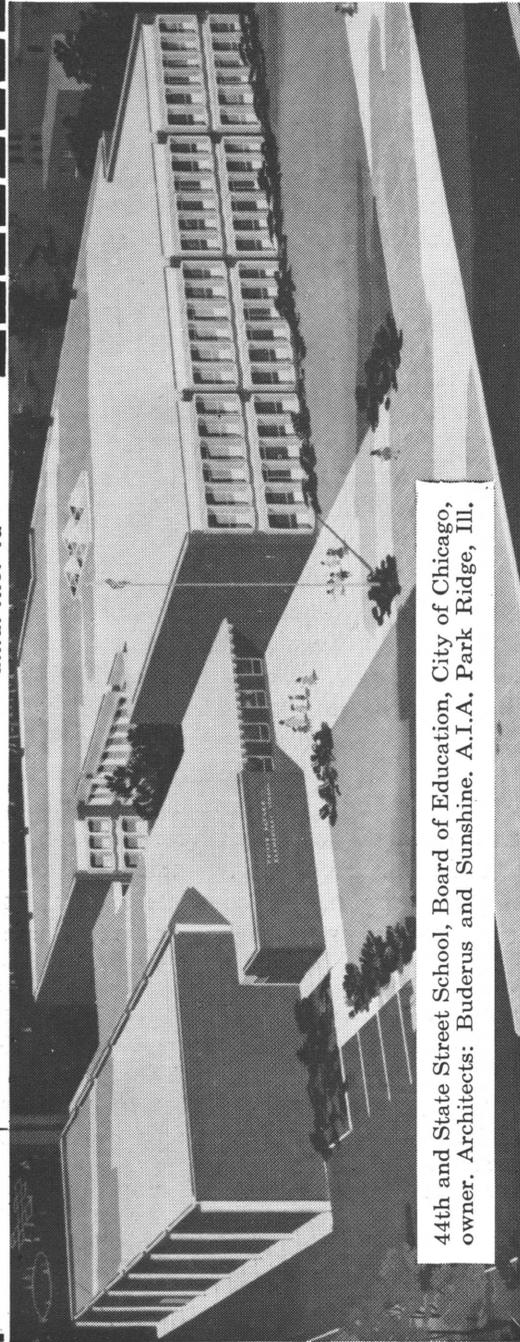
NO. 13

curtain wall joints

a.i.a. file: 4a

Prepared as a service to architects by Portland Cement Association

clip along dotted line



44th and State Street School, Board of Education, City of Chicago, owner. Architects: Buderus and Sunshine. A.I.A. Park Ridge, Ill.

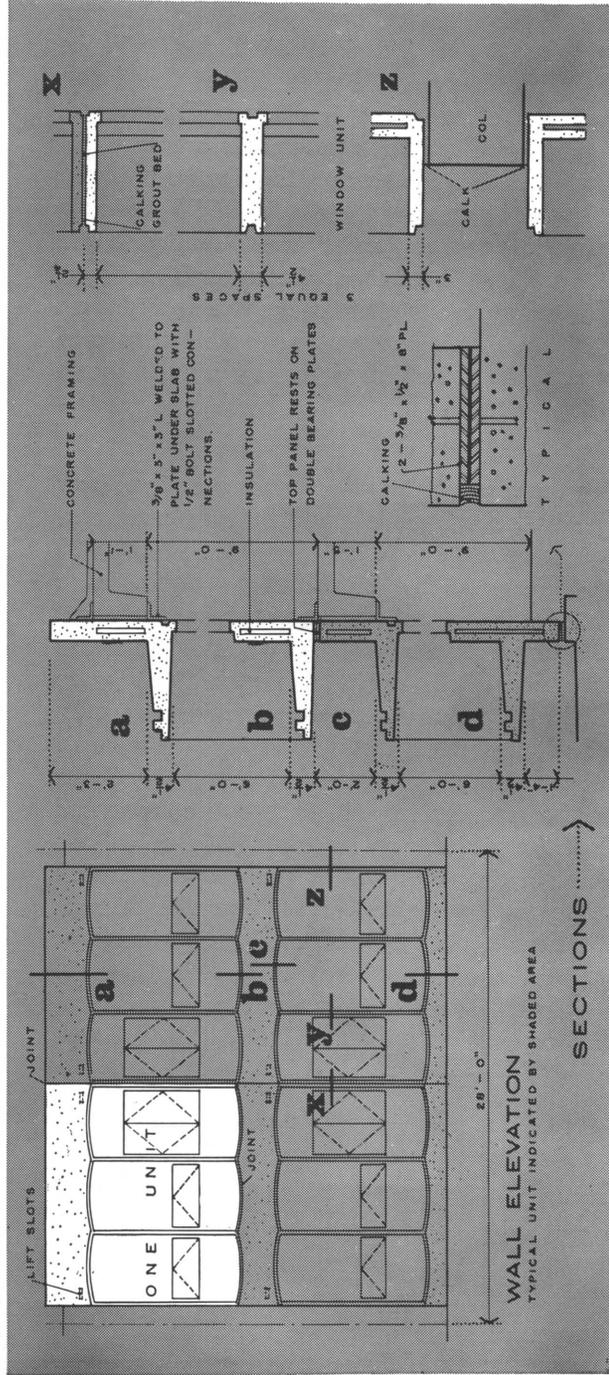
If concrete were free to deform, normal volume changes would be of little consequence, but since concrete is usually restrained by foundations, spandrels, reinforcement or connectors, significant stresses may develop. This is particularly true when tension is developed; thus restrained contractions causing tensile stresses in concrete are usually more important than restrained expansions which cause compressive stresses.

The adjoining details illustrate an excellent jointing method which allows for movement after the units are placed. The double bearing plates at the floor line and the 2-way slotted connectors at the spandrels insure free movement.

Thermal expansion and contraction of concrete vary with factors such as aggregate type, richness of mix, water-cement ratio, temperature range, concrete age and relative humidity. Write for additional free information. (U.S. and Canada only.)

Some helpful criteria to reduce volume changes

1. Limit the water content of concrete to the minimum required for proper placement.
2. Avoid conditions that increase the water demand of concrete such as high slumps and high concrete temperatures.
3. Use the largest total amount of aggregate in the mix that is practical.
4. Use the largest maximum size coarse aggregate to fit the job conditions.
5. Use fine and coarse aggregates that exhibit low shrinkage characteristics when used in concrete.
6. Avoid use of aggregates that contain an excessive amount of clay.
7. Use steam curing when applicable.



PORTLAND CEMENT ASSOCIATION
An organization to improve and extend the uses of concrete
 1401 State Planners Bank Bldg., Richmond, Va. 23219

10TH ANNUAL HONOR AWARDS PROGRAM

The Tenth Annual Honor Awards Competition of the North Carolina Chapter of The American Institute of Architects was held in Charlotte, North Carolina on January 24, 1964, in connection with the Chapter's Fiftieth Annual Winter Meeting.

Thirty-four entries were submitted on forty panels depicting outstanding designs by North Carolina Architects during the past several years.

A Jury, foremanned by Douglas Haskell, FAIA, editor of *Architectural Forum*, and composed of Vincent Kling, FAIA, internationally famous architect of Philadelphia, and Henry A. Millon, Assistant Professor of the History of Architecture at Massachusetts Institute of Technology, selected the winners and announcement was made at the Chapter's annual banquet. The number of awards given is at the discretion of the jury, who this year presented two Honor Awards and two Awards of Merit.

Pictured below are the Architects who were honored this year and on the following pages their award winning entries are presented.

The entire architectural exhibit was displayed in Charlotte during the month of February and is presently being shown in Asheville. The current exhibit sponsored by The N. C. Chapter AIA will be on tour in various cities of North Carolina for the next three months.



SAPPENFIELD, SMALL, WHISNANT, WHEATLEY, CORRELL

PHOTO BY A. HAYNES DUNLAP



NCAIA

HONOR AWARD

1963

PHOTOS BY DECLAN HAUN

The owners requirements were for the design of a building to house the Red Cross Chapter activities and the Regional Blood Center in a single structure within a limited budget. In order to meet this budget, it was necessary to select materials which would be economical and yet present a building which would be substantial and clean in appearance to represent the Red Cross.

The building was to be designed to allow for a smooth flow of blood donors through the center without interfering with the traffic to the other services and the processing, storage and shipment of this blood. The auditorium and kitchen were to be designed for large group meetings as well as for a training area for mass feeding and so located

that they could be used for night meetings without allowing access to any other portion of the building.

The school children (Junior Red Cross members) were to have access to their training and work area and the bottle strapping area (which service they perform) without passing through other areas and interfering with other operations.

The structure was to be designed to house a variety of functions including offices, classrooms, laboratories, shipping and receiving spaces and warehouse facilities. The Red Cross program is constantly changing to meet the needs of the area and the building must be flexible enough to allow for such changes in the future.



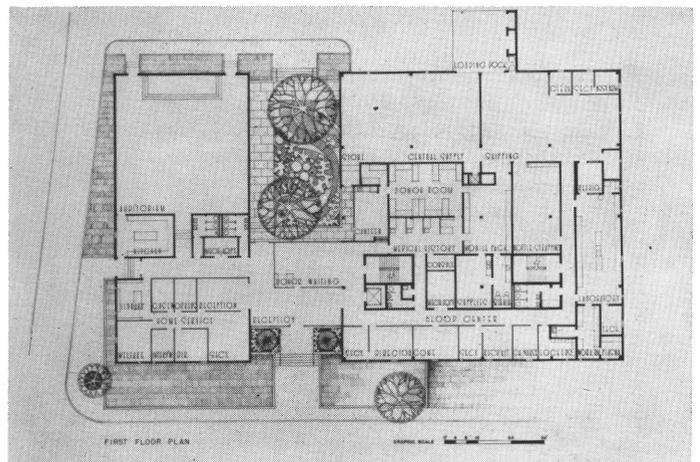
CHAPTER AND BLOOD CENTER

charlotte

owner: AMERICAN RED CROSS
charlotte

architect: CHARLES H. WHEATLEY & ASSOCIATES
charlotte

project designer: W. MURRAY WHISNANT





NCAIA

HONOR AWARD

1964

PHOTOS BY EDWARD L. DUPUY

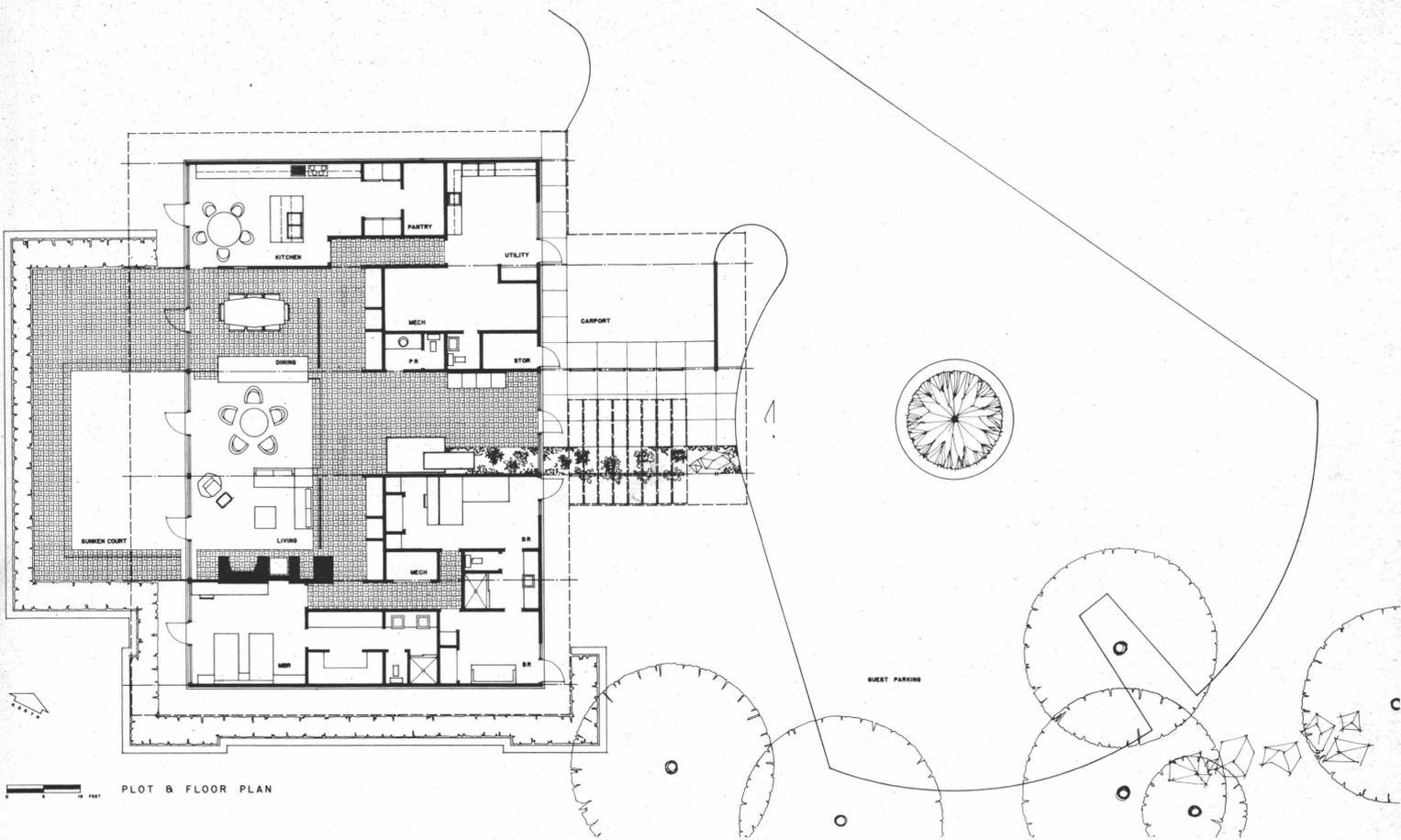
Special Program Requirements:

1. Site: a natural meadow halfway up a 50 acre site which slopes south. A view of Mount Pisgah is down the valley to the southwest.
2. The client owns a steel fabricating company and required that no wood be used except for some cabinet-work which was unavailable in prefabricated steel.
3. The client required a view of Mount Pisgah from Kitchen, Breakfast Room, Dining Room, Living Room, and Master Bedroom.

Materials:

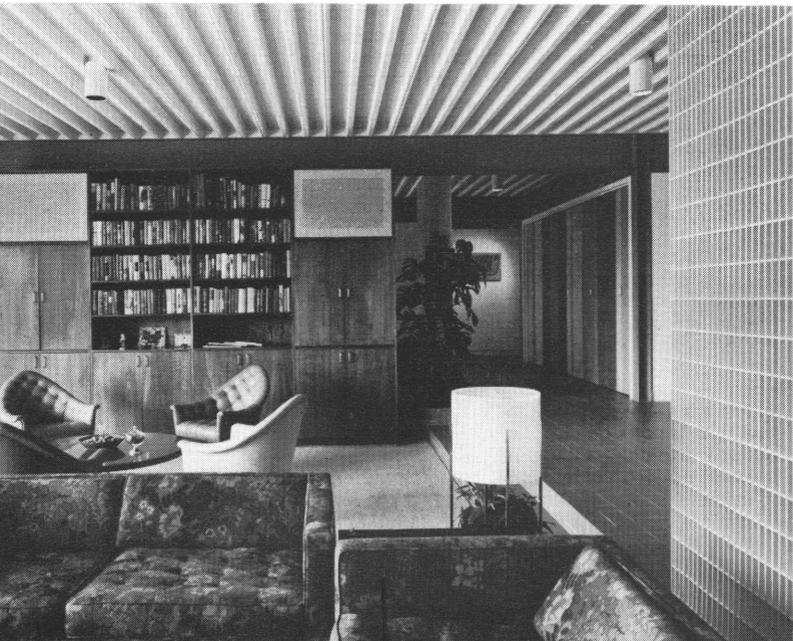
Welded steel beams and columns
Acoustical steel roof deck with rigid insulation and built-up roof
Ribbed steel siding
Steel studs
Plaster walls on steel lath
Steel grillwork
Steel doors, door frames, glass frames
100% Thermopane Glass
Native fieldstone from the site for fireplace and retaining walls
Terrazzo, quarry tile, or carpeting on concrete floor slab.

Mechanical Systems: Low voltage wiring in steel conduit in the floor. Oil-fired hot air heat in underfloor ducts with provision for future air conditioning. Electrical radiant heat in floors in kitchen and utility. Complete intercom and music system in all rooms.



RESIDENCE
asheville

owner: MR. & MRS. HYMAN DAVE
 architect: CHARLES M. SAPPENFIELD, AIA
 asheville
 contractor: H. SOUTHWORTH COMPANY
 asheville





NORTHWESTERN MUTUAL INSURANCE COMPANY
 SECURITY INSURANCE COMPANY
 HOME OFFICE - SEATTLE

NCAIA

AWARD OF MERIT

1964

PHOTOS BY JOSEPH W. MOLITOR

—The client, a national fire and casualty insurance company, needed a larger office for the use of its regional department which covers seven southeastern states. The utmost consideration was given to employee facilities and to public impression in a clean straightforward design statement and yet to provide the most in flexibility and future expansion. An analysis of the office function led to a decision to provide one large open space on the Main Floor with the only subdivisions being four private offices, a bookkeeping machine room, and the service areas. Four semi-private offices are provided with head high partitions designed by the Architect of steel tubing and glass. The Lower Level provides space for shipping and receiving, and for the employee lounge and lunchroom, both of which open onto the enclosed garden.

—Although the entire perimeter of the Main Floor is gray glare-reducing glass, the ten foot overhang provides shade except for a short period in the late afternoon. The overhang also provides protection from rain water for the aluminum-framed glass wall and, thus, a completely satisfactory wall could be designed with less attention to waterproofness, which resulted in one of the most inexpensive window walls in the Architect's experience.

—The form of the building proper, sheathed in porcelain enamel and smoke gray glass with aluminum mullions, is set

on a masonry base made from a special 4" x 4" x 4" brick (integrally colored chocolate brown with manganese) with raked joints. The Architect was responsible for the interior of acoustical tile, vinyl tile, plaster, walnut and oak panelling as well as for the selection of the furnishings. The structure is reinforced concrete for the basement and main floor and structural steel, bar joists, and gypsum deck for the roof. There are approximately 12,000 square feet on the Main Floor and 7,000 square feet on the Lower Level.

—The heating-air conditioning system is a year-around simultaneous heating-and-cooling system. It consists of a medium pressure, multizone type Air Handling Unit connected to outside air and to a dual duct system with 16 separate zones operating on low pressure from 16 motor operated mixing boxes. The heat source consists of a low pressure, gas fired hot water generator connected to a hot water heating coil in the Air Handling Unit. The refrigeration system consists of a direct expansion cooling coil in the Air Handling Unit, a 60 ton refrigeration compressor, and an air cooled condenser unit installed in an enclosure remote from the building. The system is fully automatic and is controlled by an Electronic type control system. All air is filtered thru absolute, cartridge type air filters.



office building for

**NORTHWESTERN MUTUAL
INSURANCE COMPANY
OF SEATTLE**

raleigh

architects: **G. MILTON SMALL, FAIA AND ASSOCIATES**
raleigh

landscape
architect: **RICHARD C. BELL, ASLA**
raleigh

general
contractor: **KING-HUNTER, INC.**
greensboro





NCAIA

AWARD OF MERIT

1964

A contemporary design not in conflict with neighborhood composed of houses with A-frame type roofs and quasi-traditional and ranch-type design. Minimum disturbance of existing trees and terrain. Quiet exterior elevations toward the very nearby street with some windows to view front yard and street activity. Consistent with privacy and economy, provide maximum practicable indoor-outdoor relationship especially toward wooded areas at back and one side of lot. Orient major glass areas to command view of rear wooded area and to take advantage of solar heat in winter months. Second floor rear balcony very desirable. Visual extension of interior ceilings to exterior to provide a feeling of open shelter with controlled privacy. Drapes at street front windows for privacy. Roof skylights **not** acceptable.

Driveway to off-street parking for two cars with close relationship between parking and main house entrance. Outdoor living area and play area. Protective cover for exterior entrances. Future woodworking and hobby workshop oriented for sound isolation of shop tools and easy access from driveway. Exterior access to storage room for lawn mower, yard tools, etc. Trash and garbage area near driveway but concealed from street, driveway and all major view areas. Exterior mechanical,

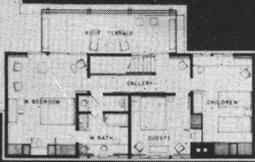
plumbing and electrical services located away from primary interior-to-exterior view areas.

LIVING ROOM: Ample size to seat six to eight persons. View of rear wooded lot.

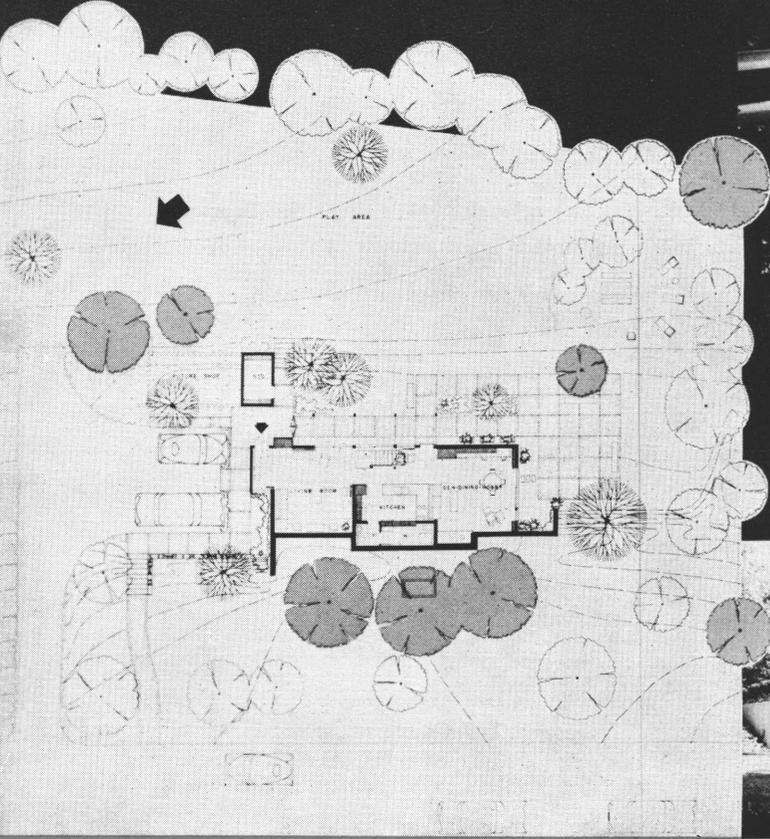
COMBINATION DEN, DINING, HOBBY ROOM, KITCHEN: Combine various activities into one large area to provide an open feeling and visual space extension from interior to exterior. Area function and cabinet work to be harmonious with a formal dining atmosphere when desired.

Den, Dining, Hobby Area: To serve as family center with fireplace, television, stereo music center, sewing center, and flower arranging and hobby center. Provide indoor plant area for wintering tender plants and for natural greenery.

Kitchen Area: To command a view of near wooded area and a portion of outdoor play and living areas. Counter to serve as buffet between Living Room and Den when entertaining large number of guests. Relate to Den, Dining, Hobby Area to allow participation in family activities, watching TV or enjoying radio or recorded music while pursuing kitchen and laundering activities. Provide ample base and wall cabinet space. Include laundry area and be near a half bath.



SECOND FLOOR PLAN



ARCHITECT'S OWN RESIDENCE

raleigh

owner: MR. & MRS. WILLIAM C. CORRELL
 architect: WILLIAM C. CORRELL, AIA
 raleigh
 contractor: LUTHER W. FRANKS
 garner

MASTER BEDROOM: General privacy from rest of house and direct access to Master Bath. Ample size to allow space for seated relaxation, writing and reading. Subject to economy, provide direct access to an exterior balcony patio with privacy from street and view of rear wooded area. Ample closet space with built-in dressing table, clothes storage and drawer space.

MASTER BATH: Compartmentalized and generous in size. Ample counter top and base storage. Generous window space with drapes for privacy.

CHILDREN'S ROOM: Window area to view rear wooded area and nearby tree foliage. Twin beds. High shelf for model display. Large desk area for study, hobbies, book storage, etc. Ample closet space with clothes storage and drawer space.

GUEST BEDROOM: Double bed. Closet space with built-in dressing table. Ample window area with drapes for privacy.



CSI HOLDS CHARLOTTE MEETING

On Saturday, March 21, the Charlotte Chapter of Construction Specifications Institute was host to a joint Carolinas Conference of the CSI. Architects and specifications writers from North Carolina and South Carolina attended the one-day meeting.

Featured speaker at the morning session was Jack R. Lewis of San Diego, California, President of Construction Specifications Institute. He was introduced by Howard K. Olive, AIA, President of the Charlotte Chapter. Mr. Lewis explained the technical program of the organization and his talk was followed by a lively question and answer period.

After luncheon the group divided to attend seminars covering the following subjects:

The Engineer and CSI, moderated by Robert G. Burkhardt, Vice President CSI

The Associate and CSI, moderated by Herbert F. Pendleton, Associate Director, CSI

Technical Committee Organization and Operation, moderated by Jack R. Lewis, President, CSI and Ronald S. Ryner, Executive Director, CSI

In a second series of seminars during the afternoon, the following subjects were discussed:

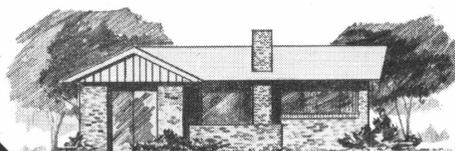
Chapter Use of National Technical Program
Jack R. Lewis, President, CSI, and Ronald S. Ryner, Executive Director, CSI

Reference Workmanship Specifications
J. Donald McFarlan, Technical Review Board

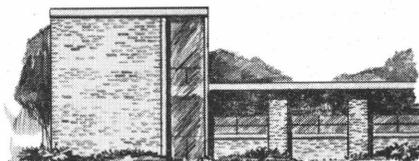
Chapter Organization
Donald G. Smith, Director, CSI Region 4.

It was generally felt that the meeting was informative and successful.

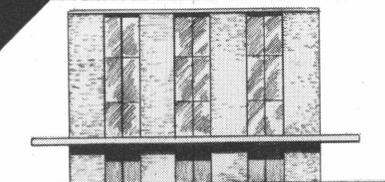
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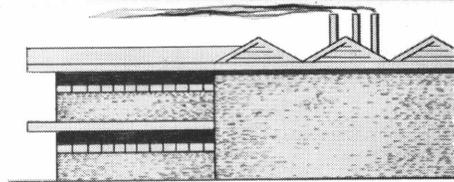
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SCHOOLS



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SANFORD BRICK and TILE CO.

Sanford, North Carolina



THE CHALLENGE OF THE FUTURE

An address to The North Carolina Chapter, The American Institute of Architects by A. G. Odell, Jr., FAIA, First Vice President, American Institute of Architects, Charlotte, N. C., January 24, 1964.



Arthur Gould Odell, Jr., FAIA

Fellow architects of North Carolina, distinguished guests, President Carroll has asked that I convey to you his and Mrs. Carroll's deep disappointment that the sudden change in weather has made it impossible for them to arrive in Charlotte for this evening. In seven years of Institute service, this is his first absence from a scheduled appointment. He sends his regrets and best wishes to all.

As an officer of the INSTITUTE, and from North Carolina, and in my travels throughout the United States, I am constantly comparing the professional progress and activity of our State and Region with that in other parts of the Country.

We in the North Carolina Chapter have much to be proud of on our 50th Anniversary. We find ourselves well organized in our dedication to the creation of a total physical environment which will properly reflect the aspirations of man. All of you have given freely of your time and efforts in the development of a professional organization, continuously working in the interest of public health, safety, welfare and beauty.

Our new State Headquarters Building in Raleigh, made possible through the generosity of our fellow member, William H. Deitrick, and through the hard work of our Committee Chairman, Albert Haskins, stands as a tangible symbol of our progress. I am proud of my Chapter and our State.

Now, I would talk with you briefly concerning our Institute on the national level and of the attitudes and activities of your Board of Directors and our National Headquarters in Washington.

We all agree that our profession must define its role more strongly and must continue to expand its leadership and coordination in the fields of planning and design. In this regard I urge the North Carolina Chapter to continue to extend its present position to further strengthen the profession and our Institute. The Board of the AIA recognizes the desirability of analyzing in detail our concern

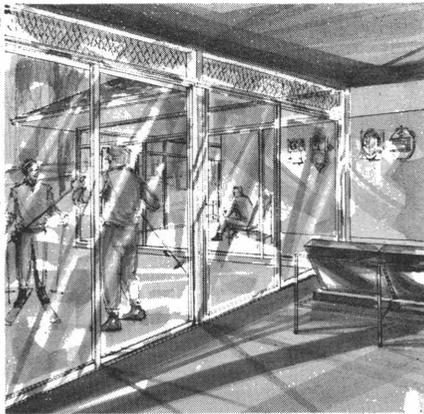
with the competence of the profession, the competitive position of the profession, and its communication, both within the profession and with the public.

Our social pattern is changing as our population explodes; within the span of a forty-year mortgage we will double the number of existing buildings and in addition, replace half of them. Urban areas also will have doubled with obvious attendant problems. Such a phenomenon can mean only more and more regulation, control, direction and influence by local, State and Federal governments. Will these governments take over architectural functions — land planning, design of housing, schools, federal and state buildings, urban renewal developments? Are we as a profession qualified to cope with such broad-gauge planning problems? Do we know enough about land use and economics to establish in the public's mind that we are the better vehicle to handle these services?

Technical advances are drastically changing building materials and construction techniques as well as our own concepts of design. Industry is ready to provide prefabricated building elements as well as whole buildings and, of course, design services in direct competition with the practice of architecture. Are we to become only assemblers of pre-designed parts, or will the "total man-made environment be a willy-nilly unplanned result of the business entrepreneur's exploitation?

As our nation's cultural level rises, society is becoming more aware of aesthetics, of beauty, of its environment; it is ready for leadership to show the way. Society must look to the architect as the creator of environment for the "good life", as the leader in the creating process.

As the individual client is replaced by the corporate client, represented by a committee, a board or an agency, a convenient and attractive package is being merchandized to them. Quite understandably, these clients are attracted by a guaranteed

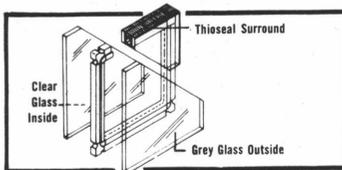


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price and the convenience of leaving the details to others. Concepts of agency, of ethics, of conflict of interest, and the ultimate value received for dollars spent, are not perceived because alternatives in futures cannot readily be compared. Will the architect successfully compete against such devices? Will he supply the non-traditional services for which our economy has generated the demand?

Your Board of Directors recognizes the validity of these questions, while confident that the answers can be fully affirmative. To assure that answer, the Institute now directs our profession to expand our horizons and our standards and methods of practice, and we urge each architect to assume community leadership, in close cooperation with his fellow architects, in all matters which influence or determine the planning and development of his community.

Therefore, the Board appropriated your Supplementary dues for new projects directly related to comprehensive services in order to aid the architect in ways never before economically feasible. Among these new projects were the Comprehensive Service Seminars in Sixteen regions, and, in the hope of reaching more of the profession who are unable to attend their conventions, publishing in the Journal articles on the same subject.

Another is our Urban Design project which consists of local and regional training seminars, Journal articles and, eventually, a manual on techniques. For six or seven years the Institute has spent \$10,000 per year on Teachers' Seminars, which have gone far towards elevating the sights of younger teachers in our schools of architecture. A considerable fortune in dollars and man-hours contributed by our altruistic members is spent annually in joint effort with the National Architectural Accrediting Board founded by the Institute, the Association of Collegiate Schools of Architecture, and NCARB, toward increasing professional competence through assurance of the best possible training for the profession.

There is another joint project with ACSA, aimed at insuring that architectural education adapts to the influences I've just described. This is our Special Committee chaired by Dean Holmes Perkins of Pennsylvania. This group has studied the phenomenon that the most competent engineers, enticed by the romance of space travel, are no longer entering the building consultant field. Its recommendations, soon to take the form of pilot curricula in three architecture schools, foresee specialization in the art, the science and the administration of architecture, with the first-named as the team leader.

We spend \$6,500 per year for an annual Student Forum, paying transportation for one student, and welcoming others from every school of architecture, to come to the Octagon for three days of concentrated studies on the practical aspects of professional responsibility and obligations.

All of these items just mentioned are indicative of how your Institute is attempting to point the way to further increase the competence of our members, as well as that of the architects of tomorrow.

Now, what we are accomplishing towards solving the problems of competition? Our answers must emphasize what services the smaller, and more typical, office can and should prepare itself to offer to clients. Assisted by many of our most successful practitioners of both large and small offices, Senior Editor Dudley Hunt of the "Architectural Record" was engaged to prepare for us a year-long series of articles for the Journal, which began last year and which may become a textbook on the subject.

But what of other competition, from package dealers, from stock plan proponents, from engineering corporations and contractors, and their derogated captive architects? Today the Institute is working towards a legally acceptable definition of architecture, for incorporation into a model law that will reduce areas of confusion which lead to infringement by engineers, designers, space planners, and all the others.

Complete architectural services embrace aesthetic, mechanical, electrical, structural, civil, acoustical, landscape, interior, sculpture, painting, urban design and regional planning, and other design, developed under the architect's coordination, whether the personnel involved be partners, employees, or outside consultants of the architect. The word "Architect" is adequate to embrace and describe these complete architectural services. In every way we can, we must endeavor to increase the distinction and prestige of the word, "Architect". By doing so, we will be helping ourselves; and even more important, helping the future of our young practitioners and students, as it is only through them that the hoped for aesthetic improvement of our environment can be realized.

And, as for "communications", certainly they form the greatest headache of any volunteer organization such as ours, and with both internal and external connotations. Internally, the Institute has succeeded in improving the Journal far beyond its admirable "belles lettres" stage. It circulates a widely read newsletter, the Memo, and alternately, the legislative "Report". The new "Digest" for State and Chapter Officers replaces an average of 26 pieces of paper that used to fall like snowflakes upon the desks of overworked Chapter Officers.

But the membership, as a whole, justifiably worries more about external communications than internal. What are we doing to influence the financial leader, the political and community leaders who are opinion-molders? Who is going to convince the laymen that architects deserve to be the team leaders in shaping environments? The answer: The Institute will advise on how, will provide the expensive movies, brochures, books, — but the architect in his own community, on his own city planning commission, in his own Chamber of Commerce or his own "Allied Arts Council" must ultimately educate the public, one by one, ten by ten, and heaven help the poor soul who says, "let Joe do it, he's more articulate than the rest of us".

But it was such reasoning as this that led the Institute to ask the New York Chapter to run a pilot experiment, with the aid of Institute funds, called "The Conference on Aesthetic Responsibility — or

Who's Responsible for Ugliness?" Granted, it was aimed at our own architects but, even more important, it was cheered by the laymen and press that attended. The Institute is now encouraging all major chapters to undertake similar conferences.

I shall have to leave for some other occasion a description of the work, sometimes fantastically able, by our 54 national committees who also are concerned with competence, competition, and communication.

In conclusion, let me quote a few words by August Hecksher, written several years before he became President Kennedy's consultant on the Arts:

"The Architect today should find it impossible to miss the significance of his position. He stands at the center of almost every great development in our society. The changes which are acting most powerfully upon the American People, and which will run dramatically through the 1960's, are within the field of his immediate concern.

"He will shape some of them; his career will be influenced by them all.

"... more alive than the strictly political questions are those which might be called social. These determine how people live together, what they do with their years, what kind of a moral and material landscape they call their own. The nature of family life is changing. The nature of our cities is changing. The abundance of leisure time and the abundance of material wealth are giving the people new, and sometimes rather frightening, options. In these various areas, the architect must, whether he chooses to or not, play a major role.

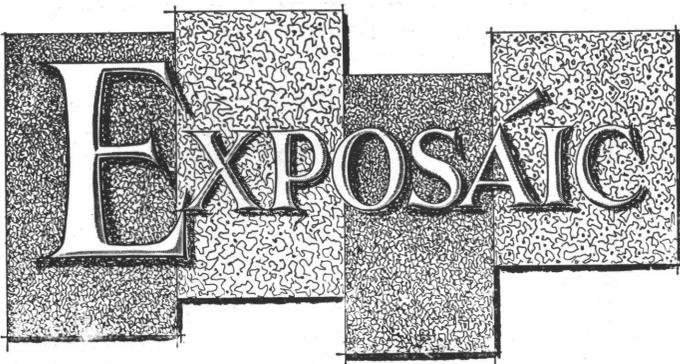
"He provides the setting of family life, and the visible substance of cities. By his art he opens before the public new choices as to how they shall spend their dollars and their leisure. In the deepest sense he lays out the paths which will determine, also, how they spend their lives.

"My point is a larger one: that because of the nature of his trade and the dramatic and dominating character of building in America today, he stands as a prototype, and indeed almost as a prophet. Others may have their share in bringing matter under the control of spirit; but unless the architect succeeds in doing it, the cause is lost. It is the same with the shaping of the environment, the organization of space and the establishing of a balance between old and new forces in the social order. Whether he likes it or not, the architect is at the center of things, setting the pattern beyond his own works and in a large measure determining whether the remaining decades of the century will see our common life made more rational and rewarding."

In closing, it is my exhortation that architects recognize the vacuum which exists. If we move now, if we produce with skill and effectiveness, if we seize leadership and act with the wisdom of statesmanship, we can re-create a nation. The respect of the country is waiting to be won. If we are successful, the remaining decades of this century would well be known as the Age of the Architect.

—END—

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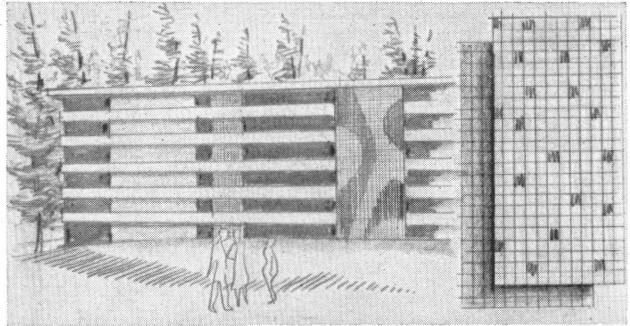
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DESIGN FOUNDATION NEWS

The main function of the Design Foundation is to provide funds for salary supplement purposes at the N. C. State College School of Design. These funds materially aid the School in attracting and holding high-caliber faculty members and to remain competitive with other institutions. The Architectural

Profession wishes to thank the patrons listed below and to encourage other business and industrial firms to support the Foundation program. Interested persons may write Box 5067, State College Station, Raleigh, North Carolina. The list below does not include the many architects who also contribute to the foundation.

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THE ARCHITECT VS. THE INSURANCE COMPANY

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For years, the Firemen's Mutual Insurance Company, of Providence, Rhode Island, and its Sister Companies comprising the Associated Factory Mutual Fire Insurance Companies, have sought ways and means to acquaint architects with the fund of knowledge their organization has amassed over a century-and-a-quarter regarding the combustibility of materials, processes, and occupancies, and their ultimate effect on the control of fire, explosion and wind losses to properties such as manufacturing plants, warehouses, office buildings, schools, hospitals, public institutions and the like.

For several years, carefully planned seminars (referred to as FSI, Fire Safety in Industry) have been held over the nation for top management of such properties, and the response has been tremendous. While the subject matter has been of direct interest to manufacturers, the basic principles are of decided interest and importance to Architects and Engineers.

Harry C. Wolf, Jr., Regional Vice President of the Firemen's Mutual, has offered to host a similar one-day seminar in Charlotte, on April 22, 1964, from 10 A.M. to 4 P.M. at the Heart of Charlotte Motel, under the sponsorship of the Charlotte Section of the N. C. Chapter, AIA. Sufficient interest has already been indicated to justify the expense of such an undertaking, which means bringing in speakers from the home office in Providence, Rhode Island. To assure major participation, the Charlotte Section would like to extend an invitation to all Architects in North and South Carolina to join in this seminar. The F.S.I. material will be slanted directly to the interests and problems Architects face in dealing with features of occupancy, construction, and protection, as well as efficient procedures for plan and specification approval by Insurance Companies, Rating Bureaus or other Approval Agencies. The program will consist of the following:

"FIRE ISN'T JUST A FLAME" — The nature of fire, factors leading to fires, and a special demonstration of fire will be covered.

"OCCUPANCY—WHERE PROBLEMS LURK" — Will deal with building occupancy, special hazards and bottlenecks directly related to occupancy.

"CONSTRUCTION — SAFE OR SORRY" — The relative safety advantages of various types of construction and materials will be discussed.

"IT COULDN'T HAPPEN, BUT" — A sound and color film showing an actual fire which resulted in an \$11,000,000 claim in a plant that was supposed to be properly constructed and protected.

"THE BEST LAID PLANS OF MICE AND MEN" — Discussion of the human element in safety to life and property.

"ACTUAL PROBLEMS SOLVED FOR ARCHITECTS" — A relation of actual problems and experiences over the country in areas involving insurance company requirements for occupancy, construction and protection.

"WHO HAS THE LAST WORD" — Involves discussion of approval agencies, bureaus, codes, policy and procedures.

A brochure is being prepared, together with reservation form, which will be sent to all architects in North Carolina and South Carolina in the near future. In sponsoring this, a special committee of the Charlotte Section of the NCAIA has determined to its complete satisfaction that this presentation will be intensely interesting and rewarding. Give this careful consideration, and make plans to come to Charlotte and take advantage of the program offered.

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ARCHITECTS PRESENTED CERTIFICATES

New Architects, qualified for registration through written examinations, were presented their certificates admitting them to the practice of architecture in North Carolina on February 22, 1964 at the Hope Valley Country Club, Durham, N. C.



Front, left to right: James W. Lesslie III, Charlotte; James F. Kluttz, Salisbury; Benjamin B. Taylor, Raleigh; Joel E. Stegall, Jr., Charlotte; Charles E. Woodall, Raleigh. **Back:** Haywood H. Newkirk, Wilmington; Cecil R. Hodge, Matthews; Charles L. Bates, Charlotte; Michael D. Newman, Winston-Salem; Executive Secretary A. Lewis Polier; and Bob C. Rogers, Raleigh.

ARCHIE DAVIS NAMED PRESIDENT

Archie Royal Davis, AIA, of Durham was named President of the North Carolina Board of Architecture at the semi-annual meeting of the Board at the Hope Valley Country Club, Durham, on February 21. Davis succeeds John Erwin Ramsay, AIA, of Salisbury, who has served as President for the past ten years.

Other members of the Board are Shannon Meriwether, AIA, of Tryon, Secretary-Treasurer; F. Carter Williams, AIA, of Raleigh; Fred W. Butner, Jr., AIA, of Winston-Salem; and A. Lewis Polier, AIA, of Raleigh, Executive Secretary-Treasurer. R. Mayne Albright of Raleigh is attorney. Ramsay, who asked not to be re-appointed, will be succeeded on the Board for a five year term by an appointee of Governor Terry Sanford. The Governor has not yet announced the appointment.

At the February meeting the Board announced plans to send a "letter of information" to all city officials throughout the state regarding state statutes that govern licensing of architects and building design practices.

PRODUCERS' COUNCIL MEETING CHARLOTTE MERCHANDISE MART

A number of Architects and engineers attended the Producers' Council's dinner meeting held at the Merchandise Mart Monday night, Feb. 17th, to hear Edwin H. Smith, Charlotte manager of Michael Flynn Mfg. Co., speaker on the latest development in curtain walls and other products.

Walter Koenig, Charlotte manager for Armstrong, had an unusual film presentation of the latest information on the first fully integrated lighting, ventilating and acoustical Armstrong ceiling system. This is a new trend towards a different system in the construction industry and the engineers and others were quite impressed with the progress that has been made on this.

Reagin Warren, President of the Council, presided and said that the local chapter was bringing more and more informational meetings of this type to architects throughout the two Carolinas. He also extended appreciation to all members for participating in the NCAIA Convention at the Queen Charlotte Hotel on January 23, 24, and 25 and said that it was through teamwork with manufacturers working with architects that the latest products could be brought into use.

President Warren reminded those present that they were anticipating an interesting and effective display meeting to be held in Raleigh at the Hotel Sir Walter on April 20th when the architects and engineers from Eastern North Carolina will have an opportunity to see the manufacturers' new products on display.

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OPERA DOWN UNDER

When Ictinus began drawing plans for the Parthenon, stress problems were not his big worry. As a fifth-century Greek architect, he followed the prevailing vogue for post and lintel. Columns supported the stress of cross beams with simplicity and grace.

For the people at M. R. Hornibrook, Ltd., it was not that easy. Hornibrook is the Australian construction firm selected to calculate engineering equations for the roof of Sydney's new opera house. As they examined Joern Utzon's prize-winning blueprints, their concentration deepened. For this Danish architect had designed two colossal groups of shells, with six shells in each group. The shells vary in height between 130 and 231 feet, and are made of pre-cast concrete ribs. Each rib is supported during construction by a monster erection truss, which the Sydney Opera House Committee's Professor Ashworth calls "quite fantastic in itself. Apart from its practical use, which avoids the need for costly overhead scaffolding, it will excite considerable interest."

But the interest at Hornibrook centered around stress. A model shows the largest shell, with nine of 11 arch ribs set in place. Hornibrook engineer, Mr. D. Evans states: "Each rib weighs between five and 14 tons. The stress on the steel erection truss changes with the addition of each rib. There are 12 shells, with an average of 90 ribs on each side of the shell center line. As one arch is finished and the truss moves to the next position, its geometry changes. Planes of the arches alter direction and arc length increases. And how would varying winds, coming from various directions, affect the structure?"

What to do? If Ictinus had been confronted with Joern Utzon's blueprints, it would have taken him about 34 years to work out the calculations. But with the help of the IBM 7090 System at the Weapons Research Establishment in South Australia, 25,000 different analyses were run off in just 44 minutes. Mr. Evans, who did the programming, assisted by IBM Systems Engineers in Adelaide and Sydney, was provided with a complete list of coordinates for placing the 12 main concrete shell structures at six points on each of 2,000 rib sections.

The podium, which juts dramatically out into Sydney Harbor, nears completion. Over 80,000 tons of concrete and 3,500 tons of reinforcing steel went into this first stage of the project. It is the second stage, however, which really fascinates spectator contractors. From across the harbor, Australians will be able to watch tower cranes as they haul huge ribs skyward and drop them gently onto the erection truss. Once an arch is completed, the truss will move outward along small railway tracks, and the next arch will begin to soar upward. There will be no swaying, no buckling. All calculations have been made precisely, beforehand. The only stress will be on the eyes of the beholders. And on opening night, opera fans will enter these tiered shells like sea creatures seeking the comfort of an enormous coral home.

STATE ART SOCIETY SPONSORS EUROPEAN TOUR

Mr. Charles Stanford, Curator of Education of the North Carolina Museum of Art, will lead a tour of Europe sponsored by the North Carolina State Art Society this summer. Air passage or steamship accommodations will be available, with a jet flight leaving New York for London on June 22 and a sailing on the S. S. United States on June 18.

Cities to be visited on the tour include London, Amsterdam, Otterlo, Brussels, Ghent, Bruges, Paris, Chartres, Milan, Venice, Florence, Rome, Naples, Pompeii, Sorrento, Madrid and Toledo. Special emphasis will be given to viewing the architectural and art treasures of these cities. Under the guidance of lecturer Mr. Stanford, with reservations in Europe's fine hotels, internationally known restaurants, and with private transportation furnished, the tour promises to be one of the best of the season.

Reservations may still be made, with all-inclusive prices ranging from \$1,550 to \$1,795, for the tour which concludes on July 20. For further information contact Mrs. J. C. B. Ehringhaus, Jr., Executive Secretary, State Art Society, 107 E. Morgan St., Raleigh.

NERVI AWARDED 1964 GOLD MEDAL

Italy's great designer of concrete structures, Pier Luigi Nervi, is the 1964 recipient of the highest honor which the Institute can bestow — the Gold Medal. Nervi is the thirty-first recipient of the Gold Medal, which was first awarded in 1907. Past recipients include Alvar Aalto, Eliel and Eero Saarinen, Le Corbusier, Mies van der Rohe, Walter Gropius, Frank Lloyd Wright, Bernard Maybeck, Louis Sullivan and Bertram Goodhue.

The medal will be presented at the Annual Meeting of The American Institute of Architects in St. Louis, Missouri, June 14-18.

Among other awards to be presented will be five Honorary Memberships in The American Institute of Architects, "for distinguished service to the profession." One of these five, so honored is John L. Cameron, chief of the School Housing Section, Office of Education, Department of Health, Education and Welfare. Mr. Cameron is a native of North Carolina, was formerly Director of the Division of School Planning with the North Carolina Department of Public Instruction. In January 1964, Mr. Cameron was made an Honorary Associate Member of the North Carolina Chapter, AIA.

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Architect's Guild of High Point,
Marguerite's Restaurant
George C. Connor, Jr., AIA, President

APRIL 1: Charlotte Section of N. C. Chapter, AIA,
Stork Restaurant No. 2
Charles H. Wheatley, AIA, President

APRIL 2: Raleigh Council of Architects,
Y.M.C.A.
Jesse M. Page, Jr., AIA, President

APRIL 7: Durham Council of Architects,
Harvey's
Roger B. Davis, AIA, President

APRIL 13: Winston-Salem Council of Architects,
Reynolds Building Restaurant
Kenneth B. Jennings, AIA, President

APRIL 15: Deadline for material for May issue

APRIL 17: Greensboro Registered Architects,
Maplehouse Restaurant
Thomas P. Heritage, AIA, President

APRIL 20: Producer's Council Table Top Display,
Hotel Sir Walter, Raleigh

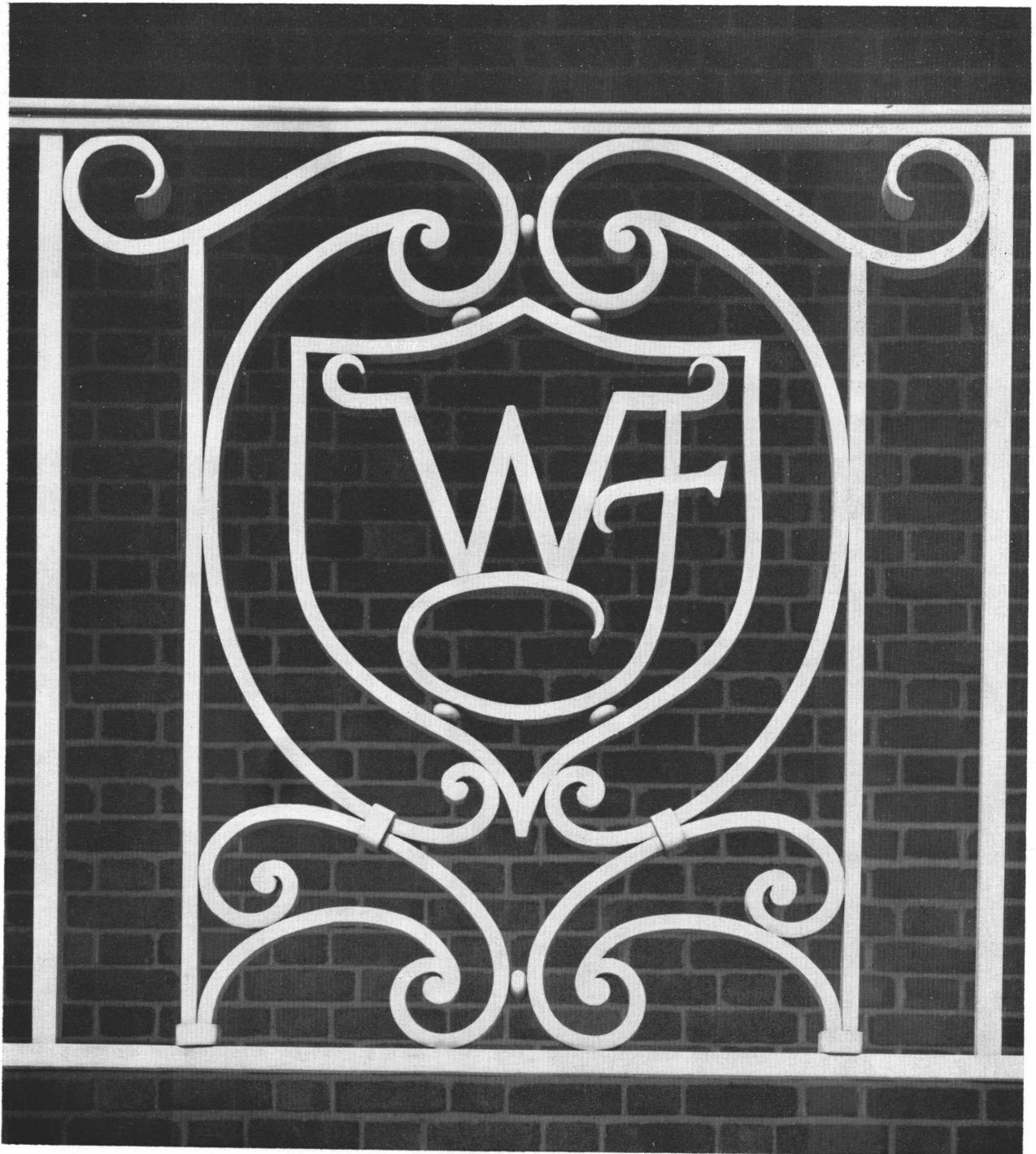
APRIL 22: Fire Insurance Seminar,
Heart of Charlotte, Charlotte

JUNE 14-18: AIA Convention,
Chase - Park Plaza Hotel
St. Louis, Mo.

JUNE 25-27: N. C. Chapter, AIA Summer Meeting,
Blockade Runner Motel
Wrightsville Beach, N. C.

OCTOBER 29-30: South Atlantic Region AIA
Biennial Meeting,
Jack Tar Poinsett Hotel
Greenville, S. C.

NCAIA SUMMER MEETING
BLOCKADE RUNNER
Wrightsville Beach
JUNE 25, 26, 27



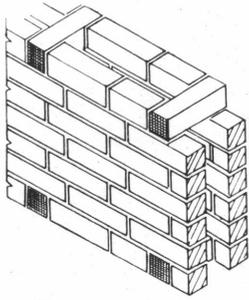
QUALITY METALWORK

One of many Genuine Wrought Iron Hand Forged
Panels which adorn the campus of
Wake Forest College

Architect: Larson & Larson
Winston-Salem, N. C.

J · D · WILKINS Co.

GREENSBORO, N. C.



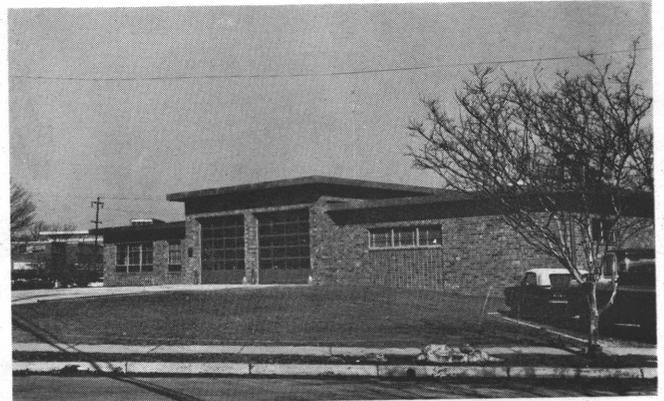
These handsome
examples show
why the

UTILITY WALL

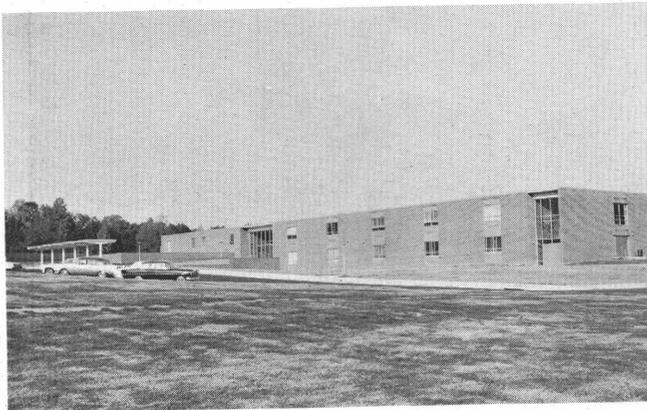
is the most popular wall assembly
in North Carolina today.



Binswanger Glass Company; Loewenstein-Atkinson, Architects; H. A. Hodgin & Sons, Contractor



Raleigh Fire Station No. 5; Edwards & McGee, Architects; Davidson & Jones, Contractor



Ben L. Smith School; McMinn, Norfleet & Wicker, Architects; Barger Construction Company, Contractor



Vancouver Plywood Company; Biberstein-Bowles-Meacham & Reed, Architects; Godley Construction Company, Contractor



Southern Pump & Tank Company; Charles H. Wheatley & Associates, Architects; Godley Construction Company, Contractor

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