

REVIEW OF ARCHITECTURE



CLEMSON COLLEGE

TWO - 63 SOUTH CAROLINA



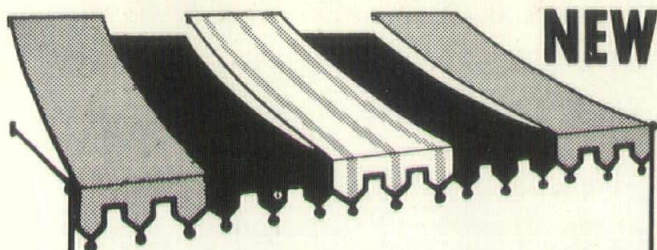
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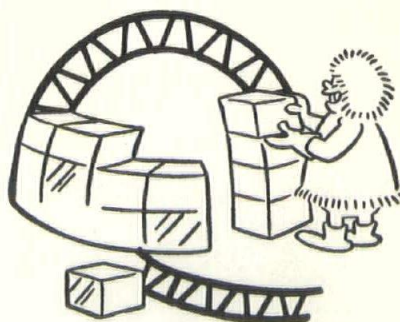
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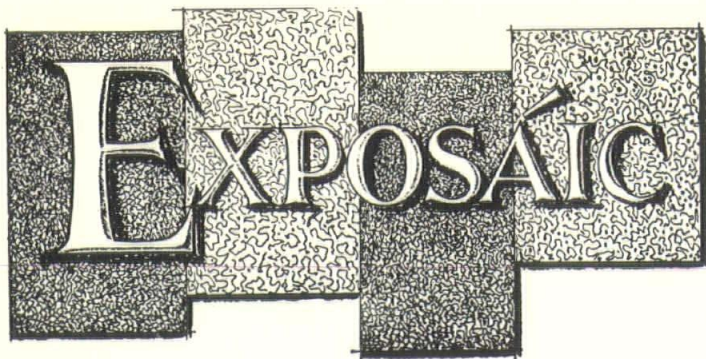
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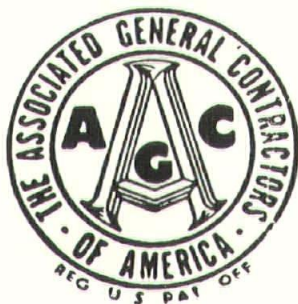
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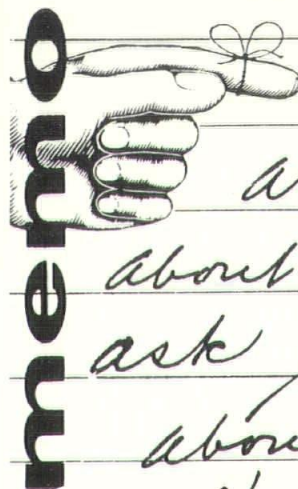
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ARCHITECTURAL NOTES

A real debt of gratitude is owed to the faculty of the School of Architecture at Clemson for their assistance in the preparation of this issue on Clemson College. It is gratifying for architects and others in the state to see the active roll that has been taken by the architectural school toward the past, present, and future growth of the College itself — especially in the development of a master plan as the basis of the future physical growth of the campus. Moreover it is good to see that the administration at Clemson has recognized the need for this planning and has given its full support to the program.

Another debt is owed to the "Clemson Architectural Foundation" for its contribution over the past years to the Architectural School through its dollars and its support. The foundation certainly deserves a great deal of credit in forwarding the growth of the college to its present status.



COVER NOTE

The cover photograph shows the new Wall-Bridge linking the men's dormitories at the left and rear with the academic complex of the main campus.

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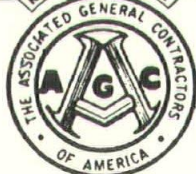
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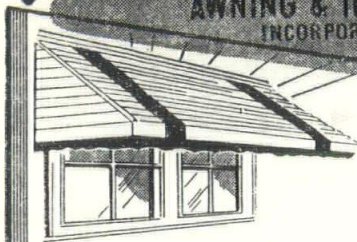
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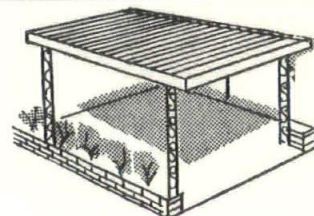
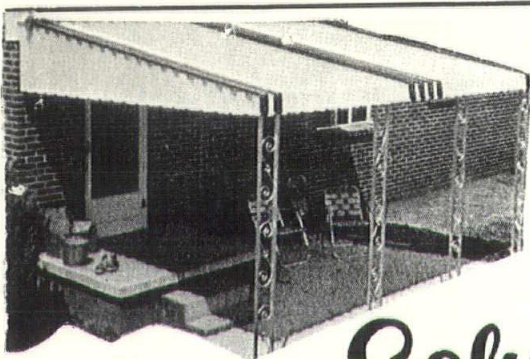
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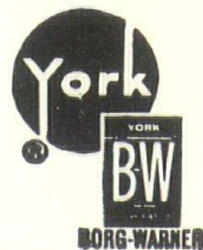
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ARCHITECTURE AND CLEMSON

A PANORAMA OF THE BUILDING DEVELOPMENT AT CLEMSON COLLEGE

It has been asserted by many persons at many times that buildings persist long after their original functions have changed. Historically an abbey becomes the seat of a nobleman and later a public tourist monument, in another country, a great town house becomes an insurance office or perhaps an art museum.

Historically college buildings have not been immune from gradual function redeployment. Since World War II these normal evolutions have been greatly accelerated by tremendous increases in teaching loads, the demands of new disciplines and changes in the old.

On the Clemson reservation there are a few buildings which antedate the college and some which persist from its origin. More important, as a forward-looking collegiate institution dedicated to educational excellence, the Clemson Campus, has added contemporary buildings in keeping with urgent needs since World War II.

Fort Hill, the home of John Caldwell Calhoun and of his son-in-law, Thomas Green Clemson, is located at the heart of the campus, but perhaps this is stating it backwards—the campus is in fact the Fort Hill plantation. Legend has it that Fort Hill had been an Indian Fort. When John C. Calhoun, Vice President of the United States, rented the place and then purchased it in 1826, it was called Clergy Hall, because it served as the manse for the Presbyterian ministers of the Old Stone Church. The house is a pleasant ante-bellum plantation dwelling, which grew in a naive and somewhat haphazard fashion. Its richness and importance as a landmark is due to historical and personal connections rather than architectural significance as such.

Tillman Hall, one of the oldest of college buildings and until recently the seat of College administration and Arts and Sciences instruction, served as well for student assembly. The building with its clock

tower is generally considered a College Symbol, and although its effectiveness as a functional structure is open to question, generations of Clemson men regard it with affection.

During his many years on the Clemson campus, Prof. Rudolph E. Lee, member of the institution's first graduating class, watched the small group of barracks and academic buildings expand and develop. When he became head of the then Department of Architecture he played a key professional role in campus growth. Mr. Lee's design for Riggs Hall, constructed in 1927 commenced a sequence of Italianate buildings, built in a pleasant warm brick. Riggs Hall provided ample space at that time for all of the Engineering disciplines and architecture as well. Its construction had been rendered an urgent necessity by a fire which had destroyed the building previously occupied by the School of Engineering. A decade later, Rudolph Lee



FORT HILL HOUSE, 1825

designed Long Hall to accommodate the expanding needs of the School of Agriculture, and this building, stylistically similar to Riggs Hall, was completed in 1937. Before the erection of Long Hall, the present library building had served as the Agriculture building. It is interesting to note that this library building will change function again and become administrative offices when a much needed library, now in the planning phase, is completed. Prof. Lee also created a group of new barracks in the manner of these building; these are still in use as dormitories.

A year after Long Hall was occupied a forward looking facility for the School of Textiles was built in harmony with Riggs and Long Hall. Sistine Hall, as the new building was called, honored the Foundation that was formed to buttress the activities of the Textile School in both research and education appropriately serving the State's Number 1 industry. The serenity of the exterior of the structure does not indicate the beehive of activity that occurs within its walls.

Most college campuses were deluged with students in the days immediately following World War II. To accommodate housing and the academic requirements of the returning veterans, Clemson added many temporary war-surplus buildings; some of these still remain.

A building for the Chemistry Department, christened Brackett Hall, was built soon after the War providing much needed laboratory, classroom and office space, and an auditorium as well. Hopkins, Baker, and Gill were the architects.

RIGGS HALL

1927

Architect:

Rudolph E. Lee

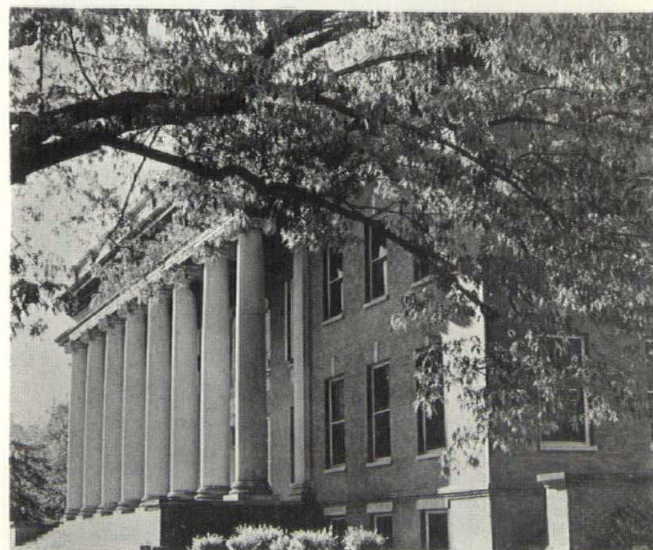


LIBRARY

Rebuilt 1927

Architect:

Rudolph E. Lee

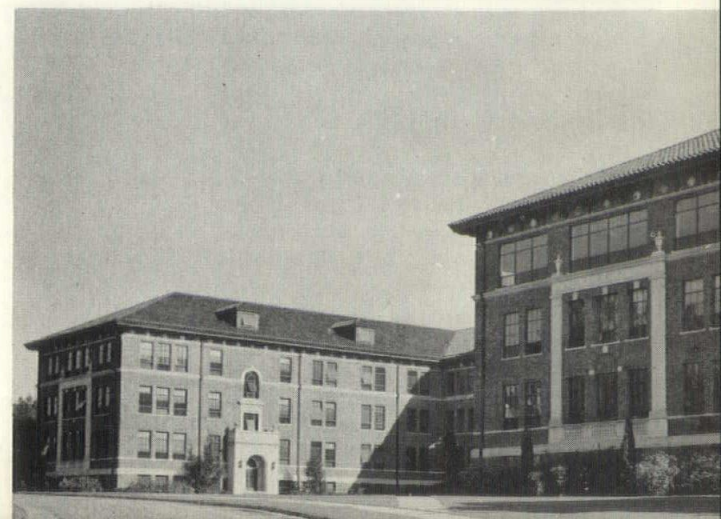


SIRRIINE HALL

1938

Architect:

Rudolph E. Lee





CLEMSON HOUSE, 1950

Architects:

Lyles, Bissett, Carlisle & Wolff

On any campus, especially the non-urban, facilities for the faculty and transient guests are a real need. The Clemson House, completed in 1950 by Lyles, Bissett, Carlisle, and Wolff, Architects, was conceived as a faculty apartment building to be government financed. It was destined to replace an older boarding-house-inn on whose site it was erected. While the building was yet under construction, a broader and more expanded usage for the Clemson House was scheduled. It was to become a hotel, residence building, and conference facility wrapped in one. It has been an invaluable asset to the College and community in each of these categories since its erection, and is a real community social focus.

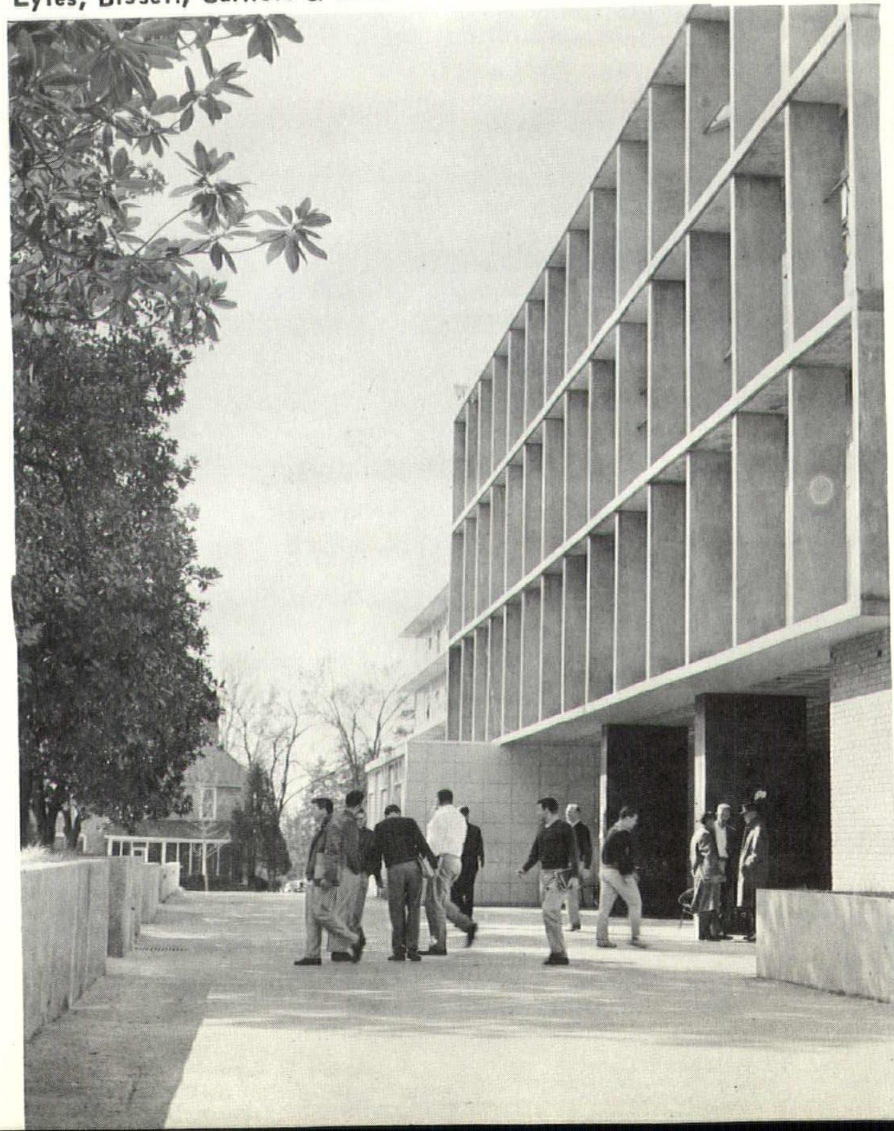
It was wisely decided by the college trustees in the early 1950's to replace a number of the old barracks which had long since been obsolete. Lyles, Bissett, Carlisle and Wolff were selected as the architects of a large complex envisioned to house and feed the bulk of the Clemson students still organized on a military school basis. This group of buildings utilized lift-slab construction and was built on a very modest budget considering the vastness of the project. Soon after the barracks were completed in 1954, the college was transformed into a more typical civilian collegiate institution and the "barracks" became dormitories. Certain transformation will undoubtedly be performed in time to make this change more complete.

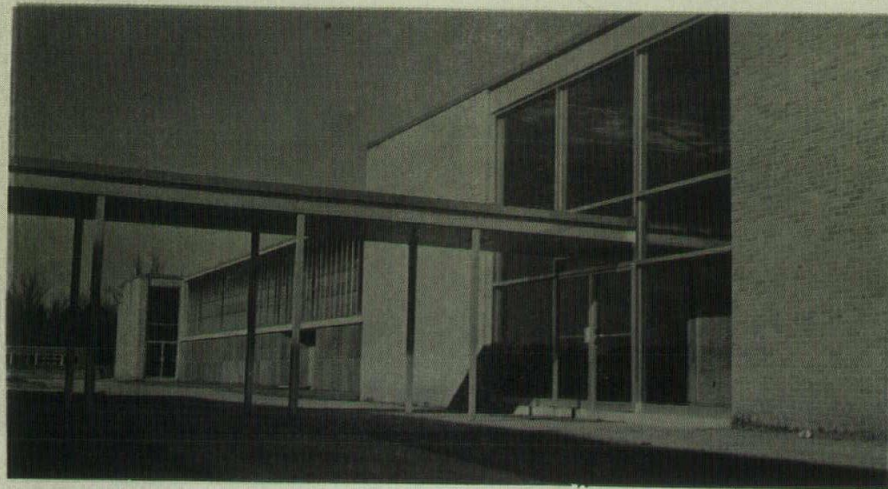
Olin Foundation gave an excellent facility to the Ceramics Department about this time, and the out-

DORMITORY CENTER, 1954

Architects:

Lyles, Bissett, Carlisle & Wolff





FOOD INDUSTRIES BUILDING, 1955

Architects:
Hopkins, Baker & Gill

CIVIL ENGINEERING BUILDING, 1958

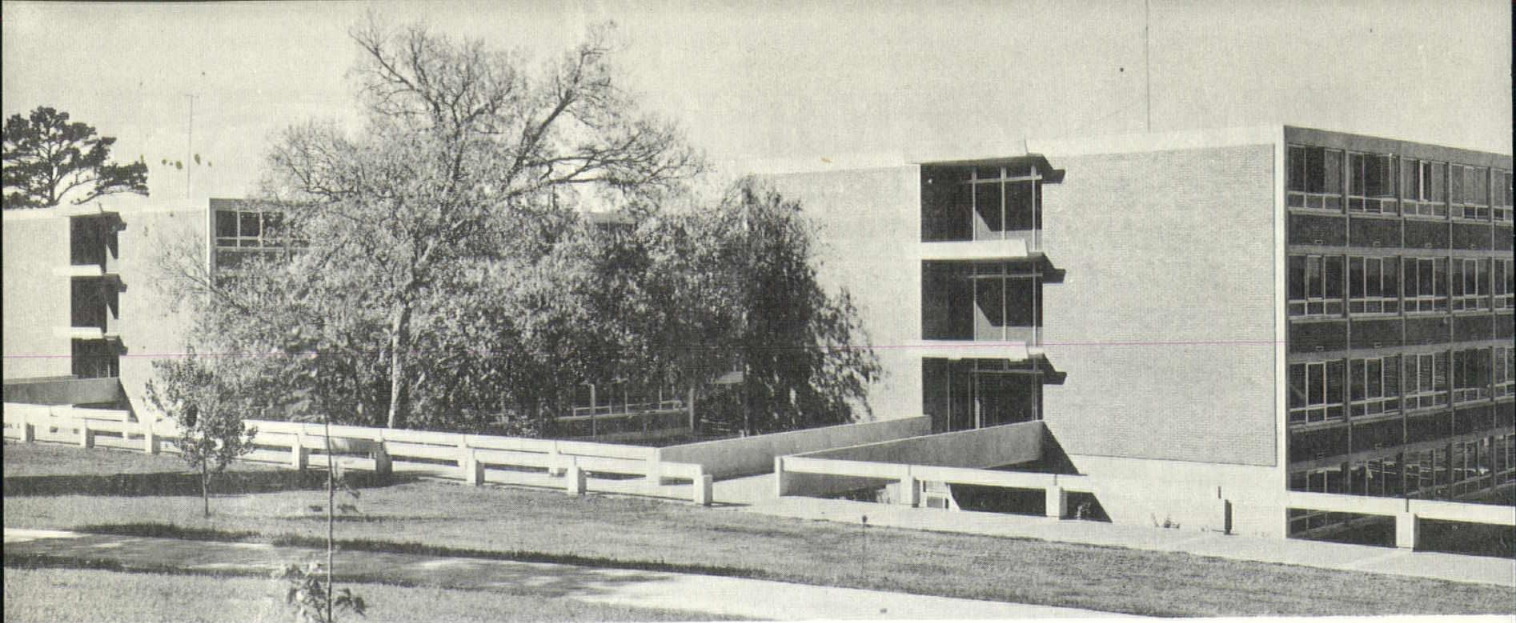
Architects:
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standing research program of the Department subsequently has fully justified that grant.

The scientific experimentation, teaching, and agricultural extension services of the School of Agriculture at Clemson had long required more adequate physical facilities. An Agricultural Engineering building had been constructed in the post-war period and two new additional buildings were ready for use in 1955 to fill this need. The new buildings were designed simultaneously by different firms of architects, the Food and Industries Building by Hopkins, Baker and Gill and the Plant and Animal Science Building by Lyles, Bissett, Carlisle & Wolff. These were nevertheless sited and conceived as complementary structures. The Food Industries Building provides for research and teaching in the areas of Food Processing and Packaging. The building also included a small auditorium. The large Plant and Animal Science Building was designed for the compact housing of diversified facilities ranging from offices, seminar rooms and laboratories to shop and photographic functions. In the same complex a group of greenhouses was also provided. This agricultural center is close to other agricultural structures such as cattle barns and farm structures.

Thomas Clemson when establishing Clemson College in his will thought of it primarily as an agricultural institution but also as a school dedicated to scientific teaching. The College has greatly assisted the State as its center for agricultural studies but from the beginning it was destined to be-



MEN'S DORMITORIES, 1961

Architect:

W. E. Freeman, Jr., and Associates

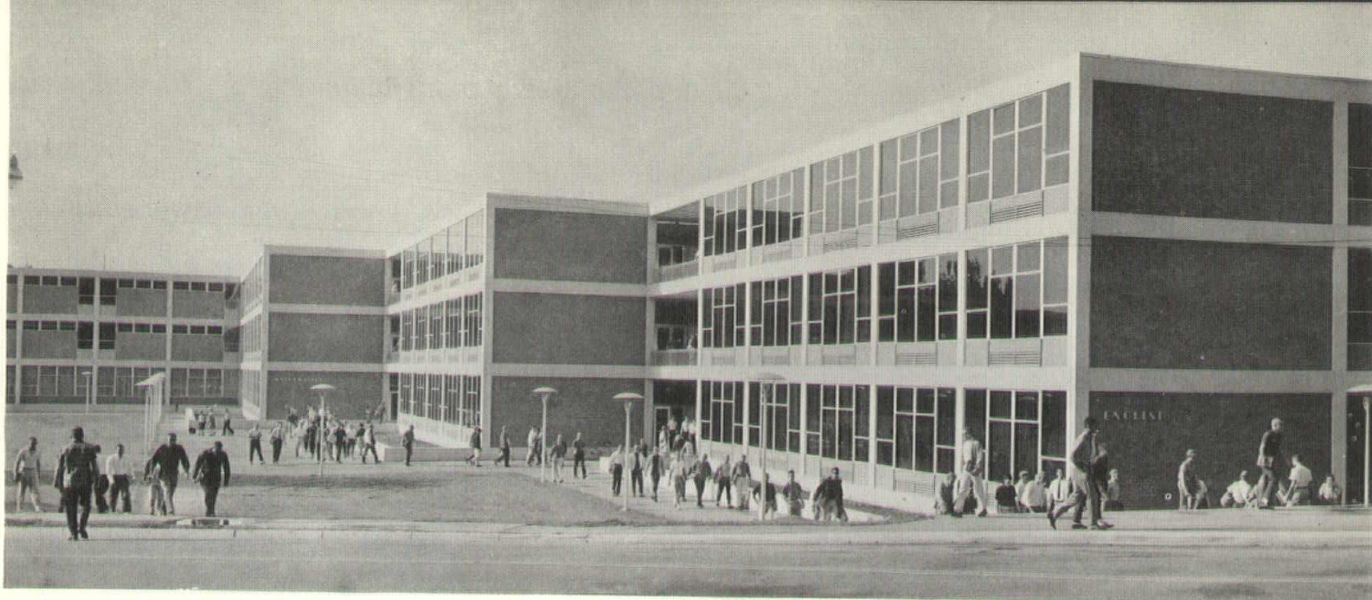
come the leading engineering school in the State and the seat of its only School of Architecture. By 1956, well over half of the college's students were in the several engineering disciplines, and architecture was undergoing a reorganization in collaboration with the S. C. Chapter of the American Institute of Architects which would soon place it in the forefront of architectural education. Despite the importance of these programs, both architecture and engineering in 1956 were housed to a large extent in an over-crowded and inadequate Riggs Hall.

A breakthrough occurred in 1958 when a three-building complex was completed for technological disciplines including a Civil Engineering Building, a building for Engineering Mechanics and the Architecture building. At this time a standard brick color was selected for all future buildings. This would blend with all previous bricks used and assure unity of materials. Lockwood Greene, Inc., of Spartanburg, were the engineers for the group and Harlan McClure was the designer and consulting architect. A three-story slab block housing Civil Engineering — classrooms, offices, laboratories and auditorium — and a low mechanics laboratory building (one story high on the approach side and two stories high on the downhill side) form two sides of the forecourt to this building complex. The third side is defined by the Architecture Building which is a hollow square. Located on the edge of the campus with lovely views the Architecture Building provides for its requisite functions on

two levels plus a basement arranged around central court. Designed studies and the library occupy the entire second level. The first level accommodates the Architectural auditorium, the Rudolph E. Lee Gallery, Classrooms, Fine Arts studios, administrative and faculty offices. Shop, Sculpture Studio, and Photographic laboratory are in the basement.

Through the 1950's the enrollment of the College was steadily increasing and men's dormitory facilities had become inadequate by the end of the decade. As envisioned by the Master Plan prepared by the Architectural faculty, new dormitories for men on a more intimate scale than their predecessors were proposed. W. E. Freeman, Jr., and Associates of Greenville, S. C., were engaged to do the first two dormitories in this five building series. They were ready for occupancy in 1961. Located on a sloping site to the west of the Calhoun House, advantage was taken of the terrain to provide a terrace bridge approach, minimizing the amount of stair climbing required of the residents. Two-man rooms are the standard throughout the building, which provides a core of toilet and utility spaces in the center of the plan on each level. Study and recreational space and a counsellor's suite have been provided.

The fantastic developments in Physics and the unprecedented importance of this science in recent years demanded that the College erect a Physics Building. A fine new facility was ready for occupancy in 1961. The Physics Building



ARTS & SCIENCE BUILDING, 1962

Architects:

Baker & Gill

Joseph L. Young

PHYSICS BUILDING, 1961

Architects:

Baker & Gill

Joseph L. Young

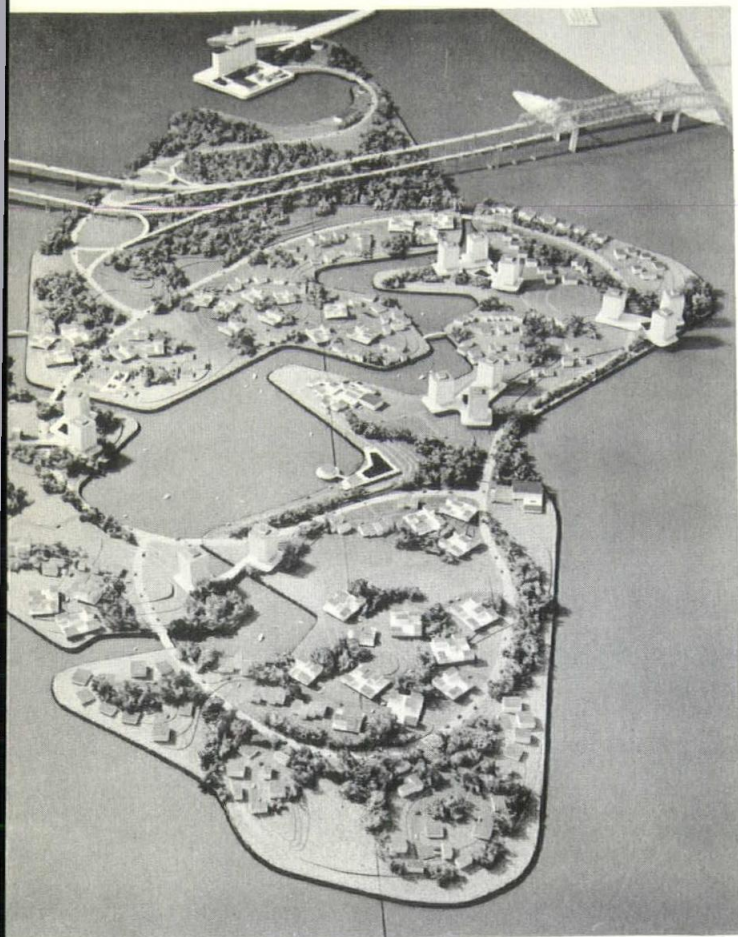


is part of a four-building Arts and Science complex, for which Baker and Gill were the architects and Joseph L. Young was the design consultant. The Arts and Science Classrooms, and Office Buildings were designed by the same architects and occupied in the fall of 1962. This building grouping is adjacent to, and composed with Long Hall which is scheduled for ultimate reassignment to the School of Arts and Science. A saw-tooth pattern of individual buildings comprising the Arts and Science complex is tied together with tiers of open galleries.

When Clemson was changed to a coeducational institution in 1955, a few women students enrolled in this previously all-male college. The limited enrollment of women since that time has been more the result of inadequate housing than the desire of women to enter. To provide for demand, Hallman and Weems, Architects of Aiken, S. C., were engaged to design the first of a series of women's dormitories. The initial building is under construction and will be ready for occupancy this autumn if all goes according to plan. Like the new men's dormitories, the women's structure will provide accommodations in double rooms, a counsellor's suite and recreational and study spaces.

Clemson has a changing campus, but more changes are to come that will make the pace of the past expansion seem slow; for the physical facilities must match the ambitious plans for education that are being formulated in the State.

THE VERTICAL STUDIO SYSTEM I



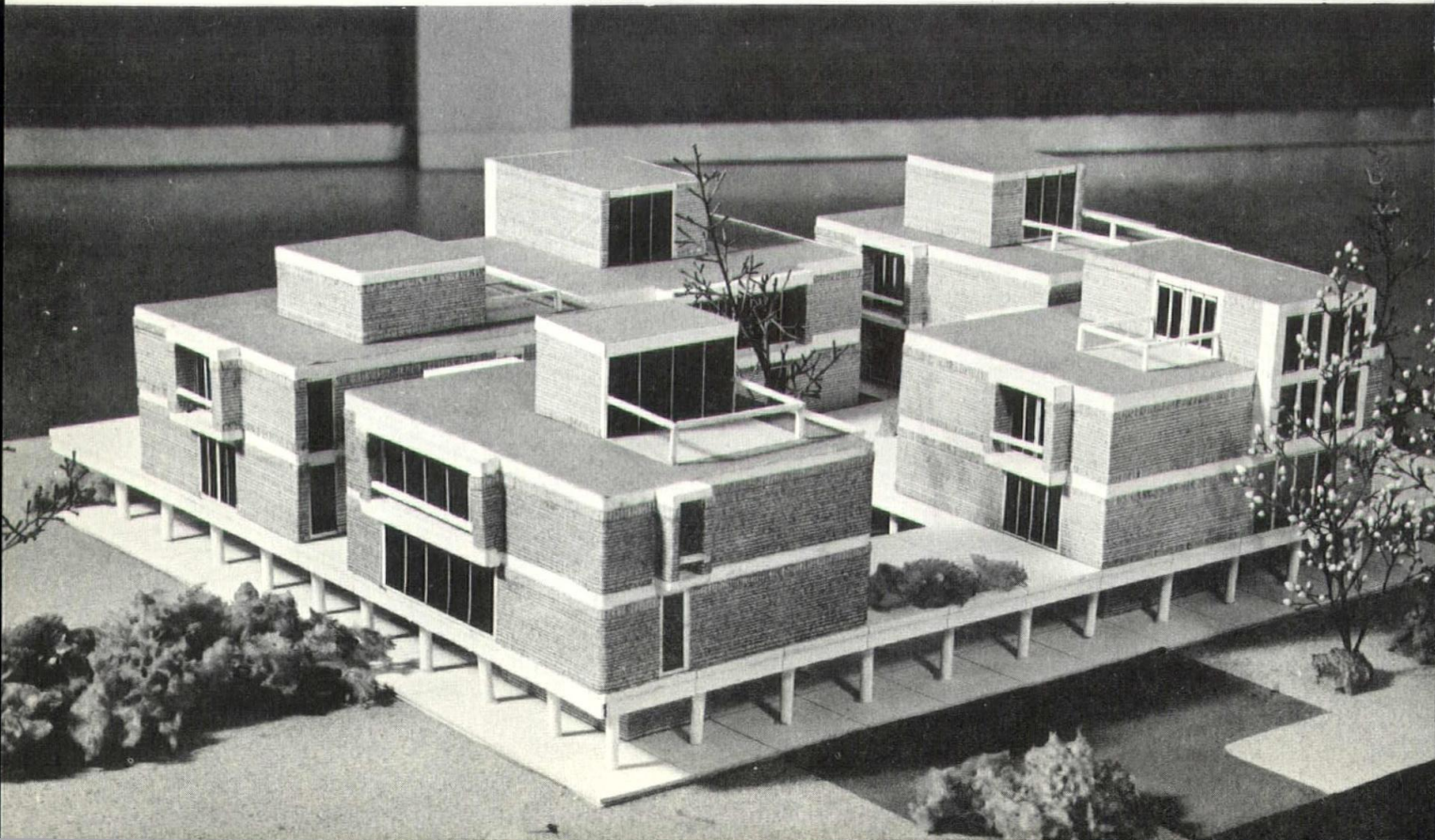
SITE MODEL

Discriminating critics generally agree that there are outstanding examples of distinguished buildings of every type across the face of America. Despite the quality of these individual structures, we have a national condition of low visual standard. Chaos and disorder tend to dwarf particular accomplishments.

The School of Architecture at Clemson is charged with the responsibility of developing a cadre of potential architects that will understand the need for a total environment worthy of this country's resources and technical skill. It is certain that the architect in future generations must exercise more control over adjunct elements in environmental design and must coordinate intricate building complexes into a comprehensible and orderly whole.

As a means of inculcating an understanding of these professional objectives at the undergraduate level, Clemson Architectural School has for the past six years involved students each spring term in a system conceived by the Dean and developed by the Faculty that it is pleased to call "Vertical Studios." The greater part of the semester on

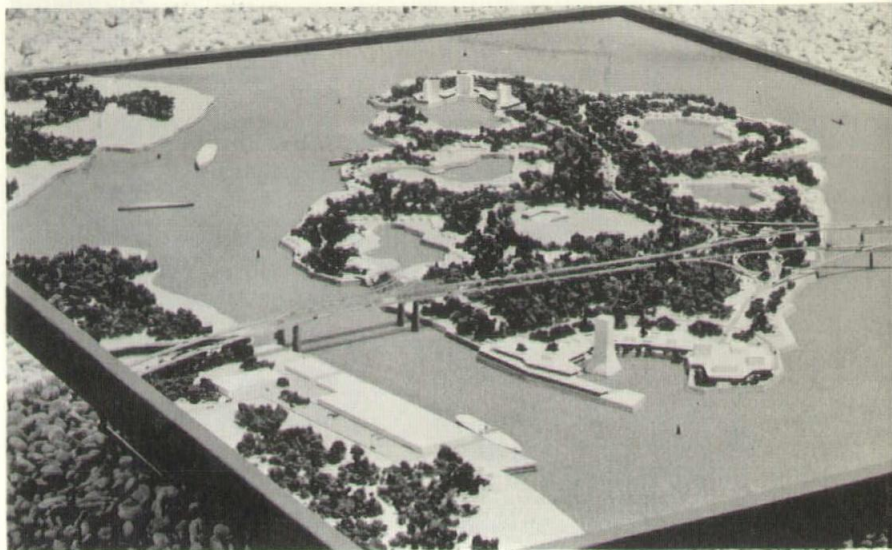
STUDIO ONE - LOW DENSITY HOUSING - TYPICAL HOUSING GROUP



THE SCHOOL OF ARCHITECTURE

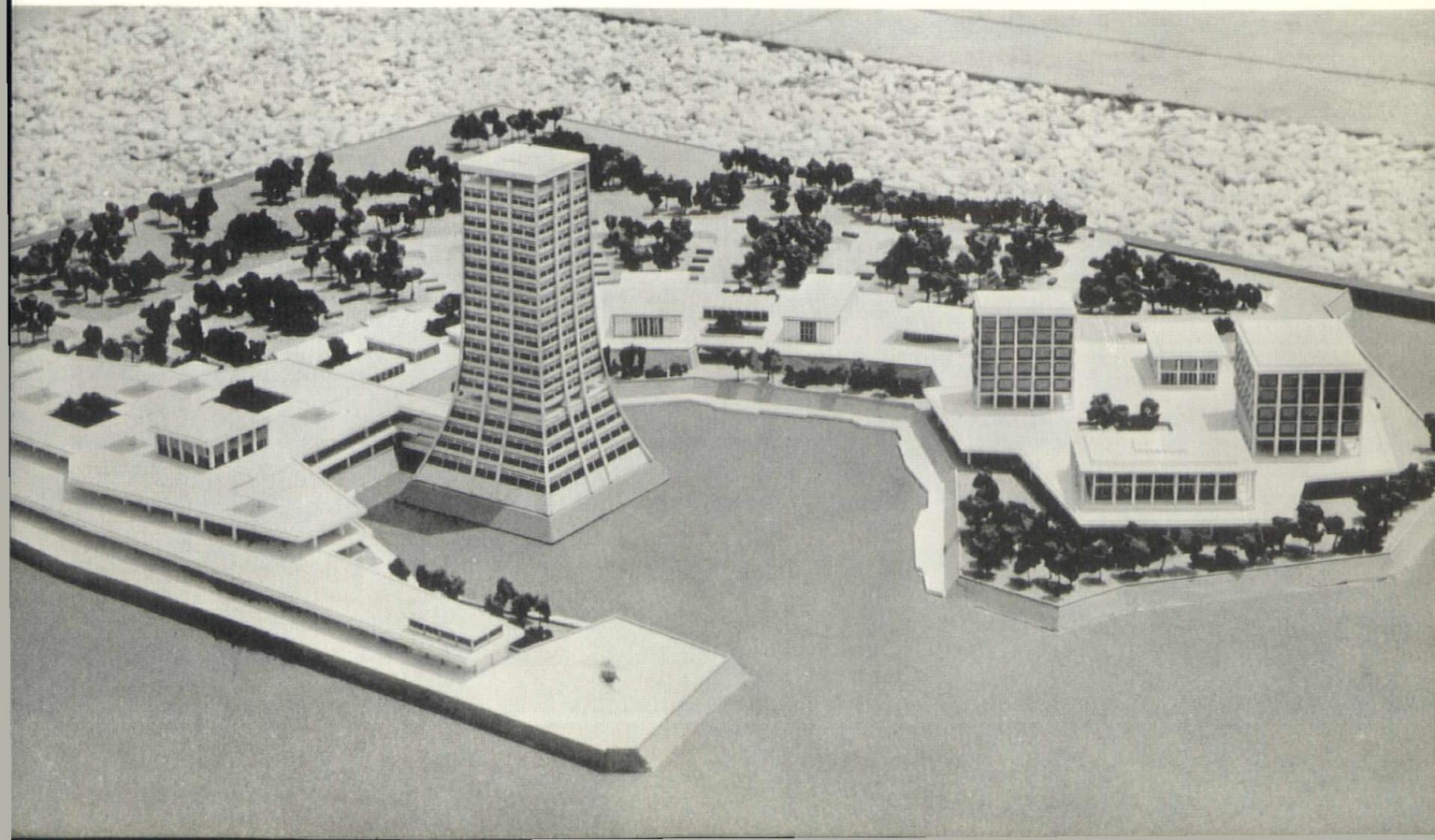
second, third, and fourth year levels will involve instruction in creative work in such studios. Large comprehensive problems are undertaken collaboratively by groups of approximately twelve students each, under one master. After careful research, programming and general environmental decisions, the work is carried into the detailed study of individual buildings. The buildings being assigned to the level of the student.

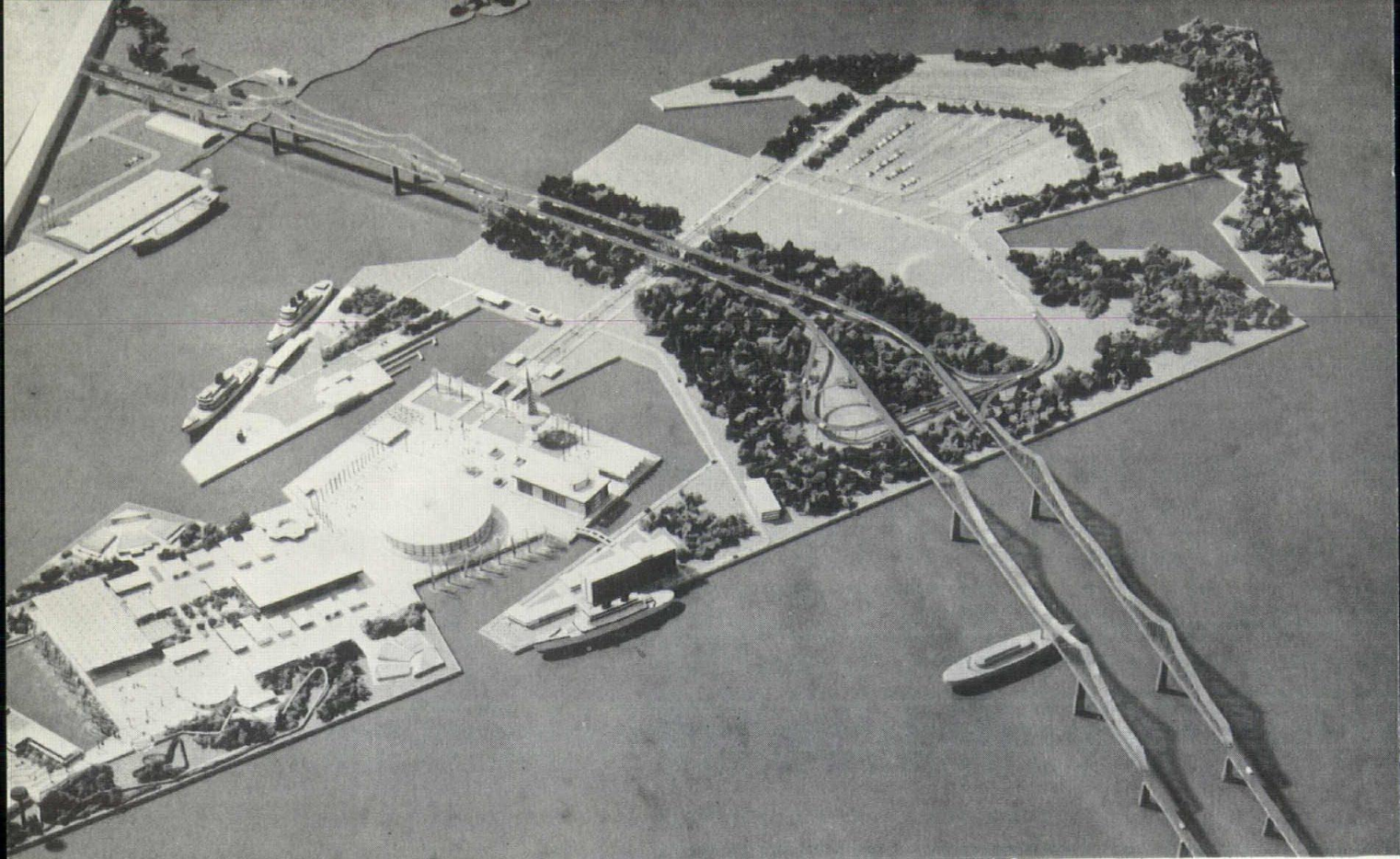
Last year five such vertical studios each undertook a program for "A Technical Assistance Center" for five South American countries. To give variety and diversity to the undertaking, each of the studios approached the same program but in a different geographical and sociological situation. This year the process has been reversed. A common site needing development was studied by each of the studios, exploring the feasibility of various land uses including necessary research and investigation. The development of Drum Island in the Cooper River at Charleston, S. C., was the vehicle of this year's studies. As the State Port Authority is very much interested in studying



HOTEL AND ADMINISTRATIVE AREA

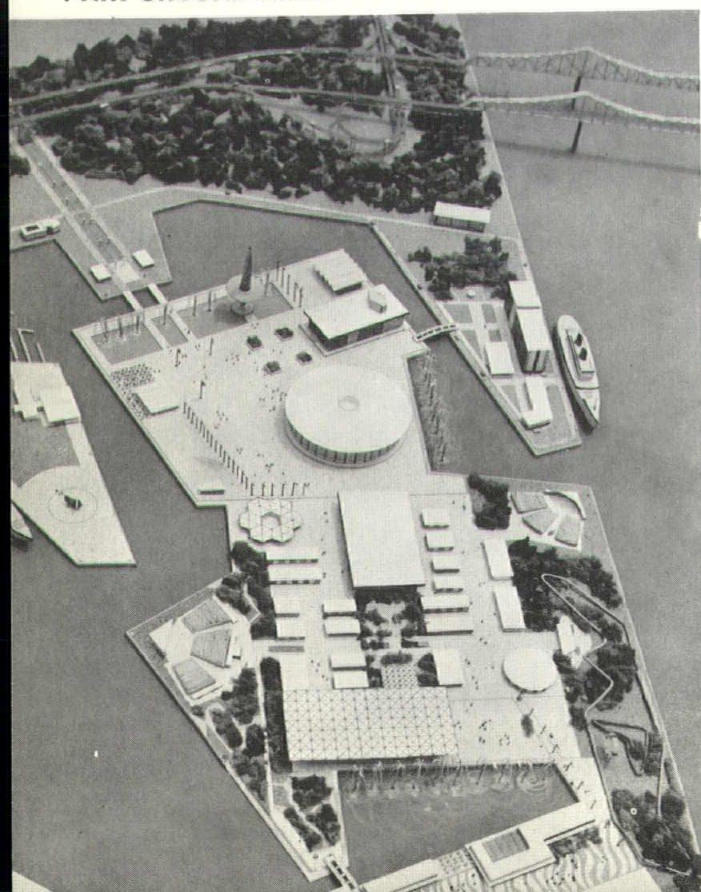
STUDIO TWO – PORT AUTHORITY – SITE MODEL





STUDIO THREE – INTERNATIONAL TRADE FAIR – SITE MOTEL

FAIR GROUND AREA



possible land uses for various properties under its jurisdiction, this was a realistic problem. Most of the waterfront property that the Port Authority controls will of necessity be used for the loading, unloading, storage, and transportation facilities required to handle the many exports and imports that pass through Charleston.

Fourth year students conducted preliminary research and were then deployed as leaders in each of the studios. They led six studios each under the direction of a professor and each investigating the feasibility of a different usage for Drum Island, lying immediately beneath the Cooper River Bridge. The Island is presently used as a spoil area in connection with the dredging of the River by the Port Authority. All of the studios provided docking facilities for passenger vessels and all necessary adjunct services in addition to the particular usage assigned to them. This was a common requirement in each of the programs.

Studio #1 under Prof. George Means, senior Vertical Studio Master, undertook low density housing

for the City of Charleston. They considered the Island to possess unusual amenity and developed the property as a high class residential community with both high and low rise structures and recreational adjuncts.

Studio #II under Prof. Horace Williamson made a special study of the total use of the Island by the Port Authority administrative and maintenance headquarters functions and providing storage and dock facilities for specific imports and exports. Housing related to the port, military and governmental port functions was also included in the work of this group.

Studio #III under Prof. Joseph Young studied the site as a location for a 1975 International Trade Fair in Charleston. It was considered necessary to relate some of the structures to be erected for the Fair to the permanent long range needs of the Charleston community. An exposition had been held in the past in Charleston in 1900, and another is now overdue.

Studio #IV under Prof. Ed Pinckney proposes use of the Island for a recreational area and particularly as the site for a large zoological garden and research facility. The uniqueness of the landscape management of this studio effort and transportation system arranged for the zoo was noteworthy.

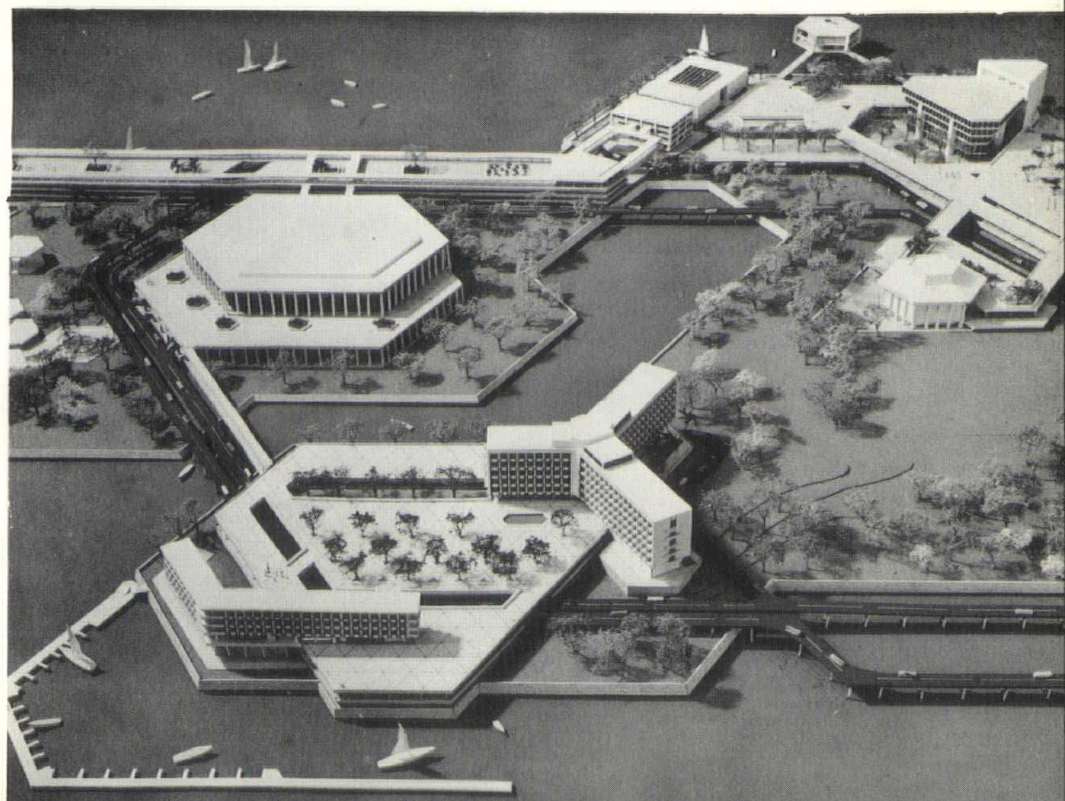
Studio #V under the direction of Prof. Wm. McMinn studied the site for a Charleston cultural center including a Memorial Park to Francis Marion. Although art galleries, auditoriums, and other cultural facilities presently exist in Charleston, these are fragmented and no centralized nor adequate total accommodation has been provided. It was considered that a cultural center of this kind would be most appropriate to a city with the historic and cultural connections of Charleston.

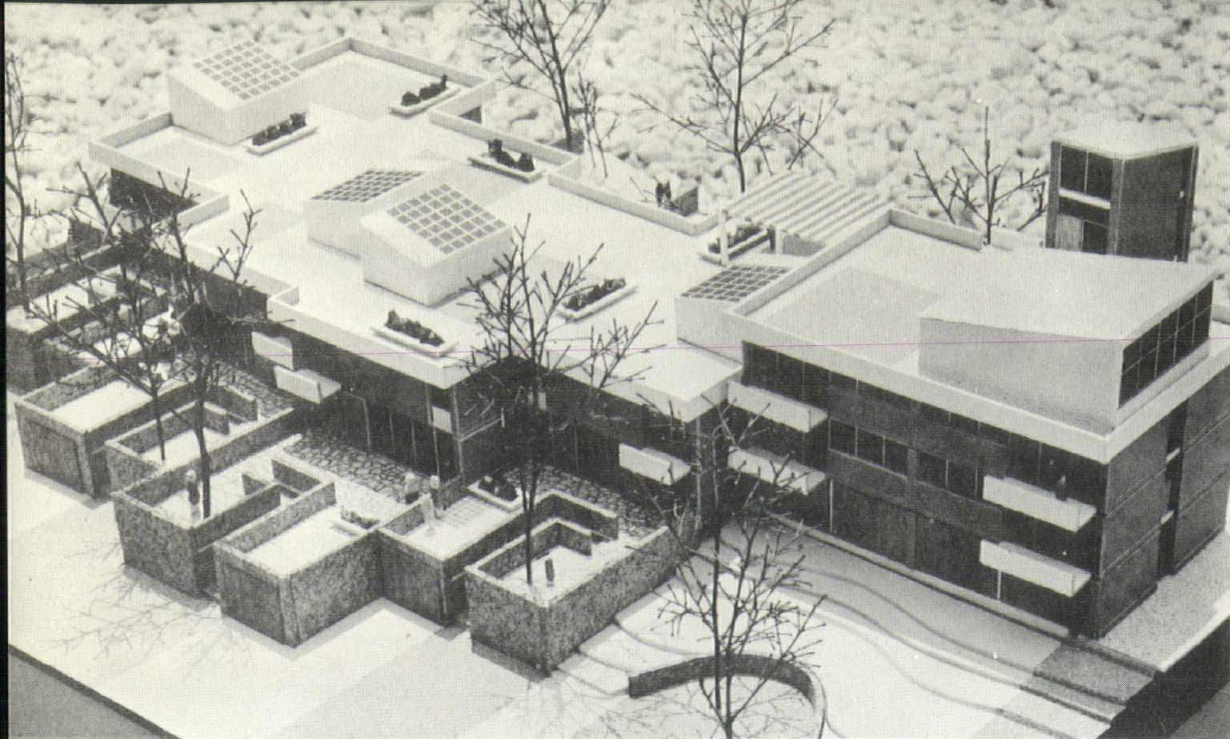
Studio #VI under Prof. W. L. Garvin studied the site as a location for much needed high density housing of a sort that would essentially be a self-sufficient suburban town. Although necessary land development costs are generally high in each studio proposal, the density achieved by Studio VI without a sacrifice of amenity, made it feasible economically as a dwelling area for lower white collar class workers and for transient military personnel.



STUDIO FOUR – ZOOLOGICAL & RECREATIONAL DEVELOPMENT

STUDIO FIVE – A CULTURAL CENTER





TYPICAL NEIGHBORHOOD UNIT

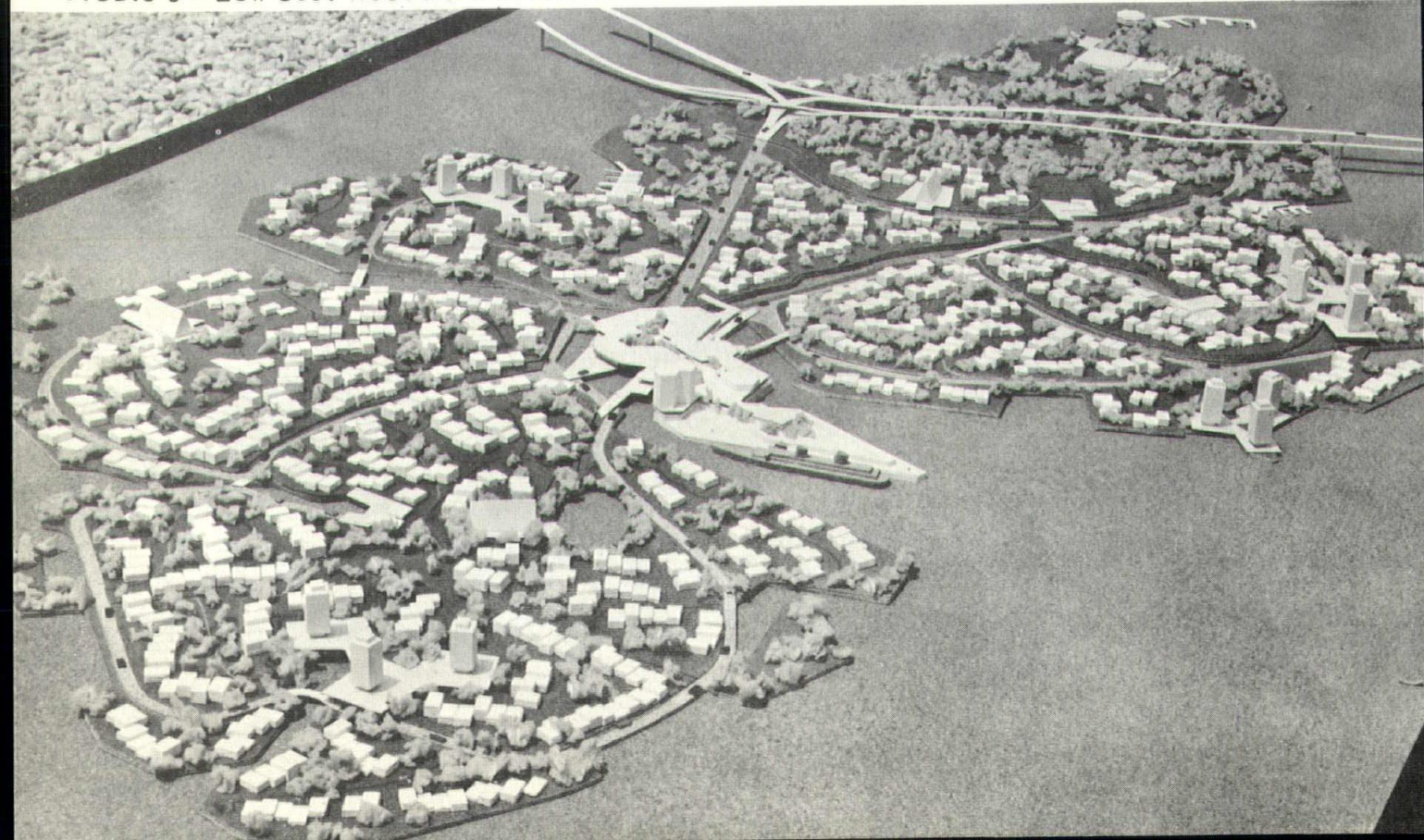
The accompanying photographs illustrate the diversity of approach taken by each of the studios and yet shows some of the common problems, amenities and challenges which the studios generally shared. The Island environment and its limiting size imposed seri-

ous considerations of scale on all of the studios and its immediate proximity to Charleston required development of an appropriate character. The Grace Memorial Highway Bridge scheduled for doubling provided logical access to the Island, but at the same time created

a division of the usable space. This needed to be taken into account both in design and land usage. Some time this summer the results of the six studio efforts will be presented to civic leaders in Charleston.

• • •

STUDIO 6 - LOW COST HOUSING SITE MOTEL



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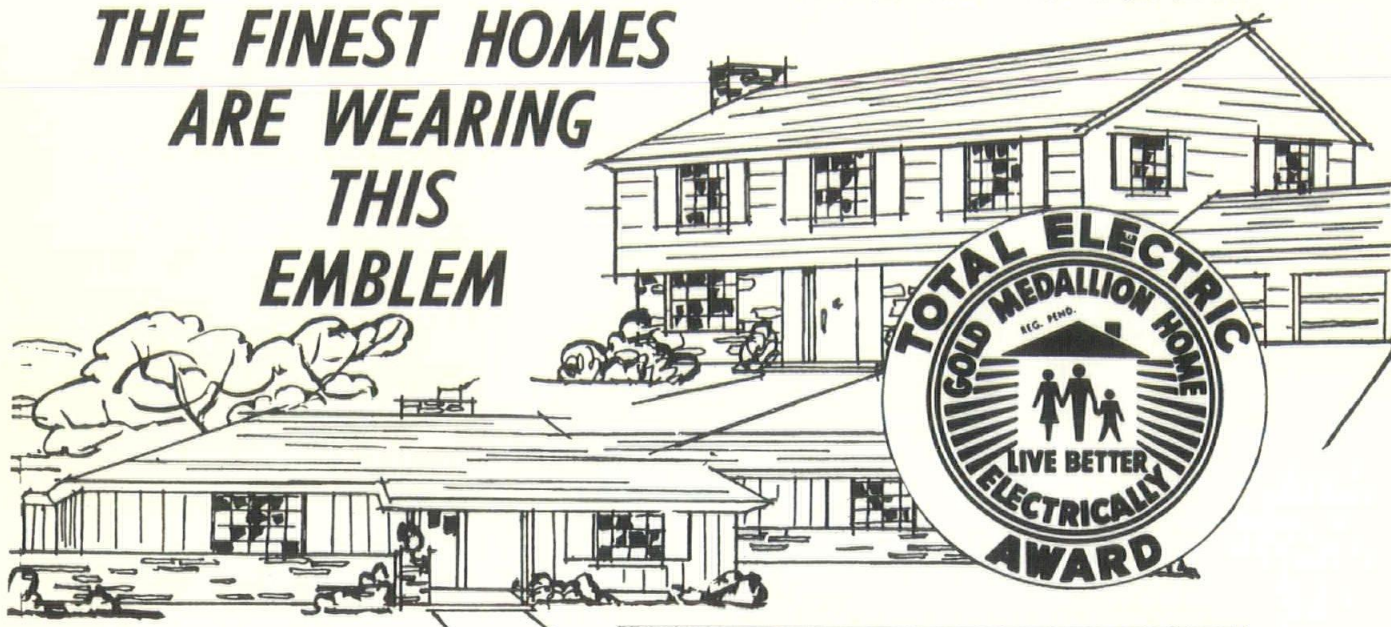
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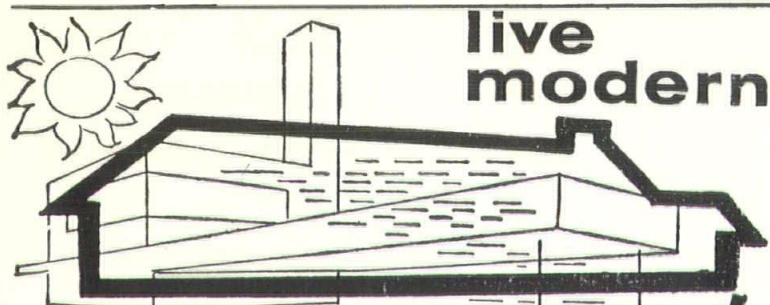
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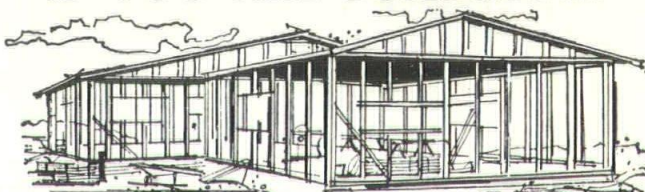
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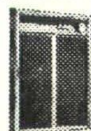
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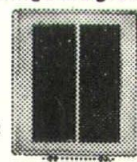
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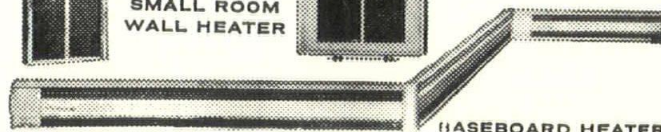
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To really know a person is to discover his attitude towards his work. We asked Harlan E. McClure what he thought about a career in architectural education and what caused him to embark on such a vocation.

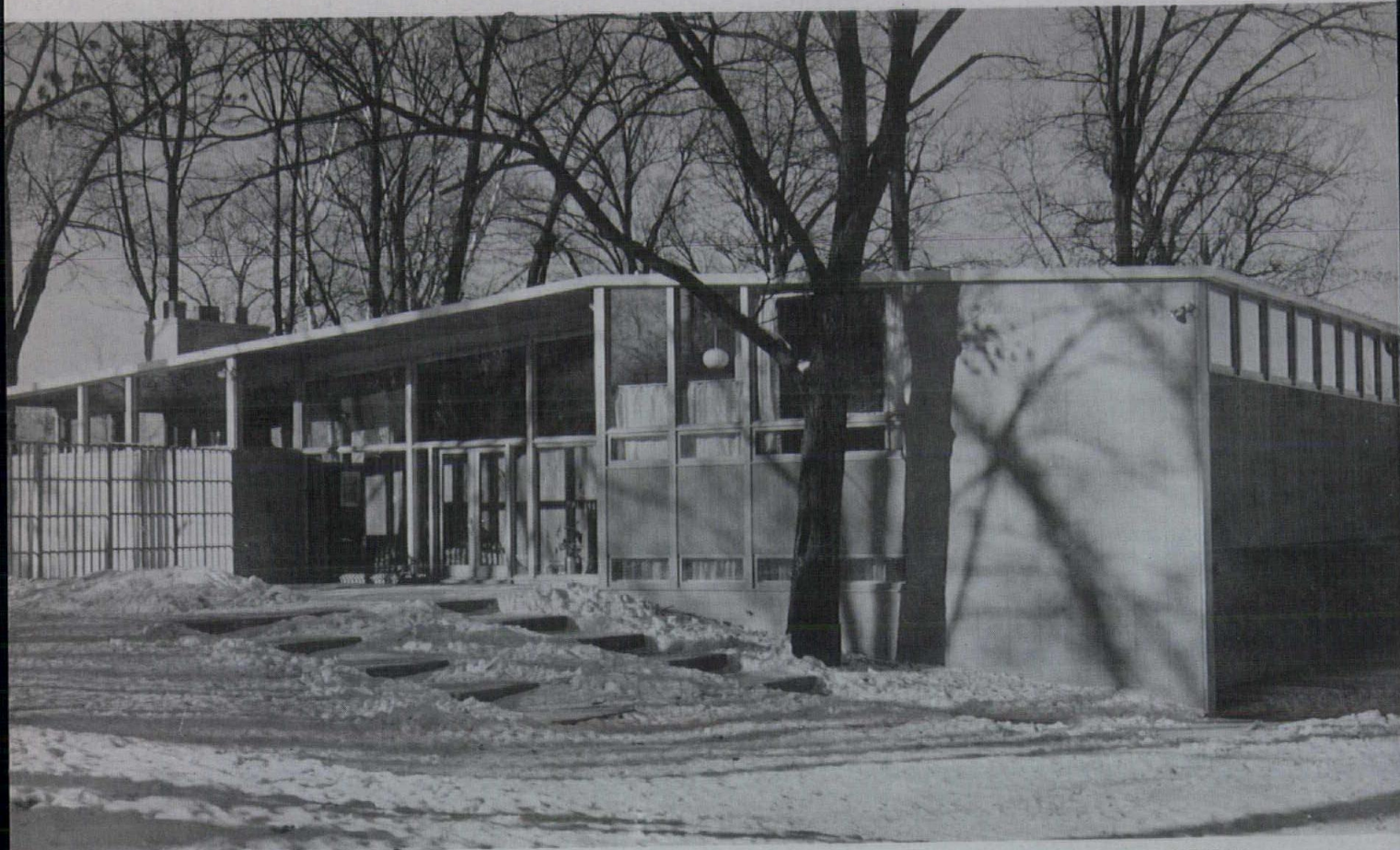
"Education on any level is a service career," he said, "and we are living in highly materialistic times when people seem more generally motivated towards work with a high economic return than rewards in Heaven. Nevertheless," he continued, "teaching is a fine way of life. The payoff in architectural education is in helping the next generation of architects to be better and more effective than our own. Some tangible results are to be felt immediately as an individual student or a school develops, but the deeper and broader rewards require much longer. They are experienced as the whole profession in an area is upgraded and when the former student becomes an effective practitioner."

Harlan E. McClure, FAIA, as Dean of the Architectural School at Clemson College, is deeply concerned with the role of the architect in contemporary society and the school's part in his training. "The architect has traditionally been the designer of significant buildings but rarely in America at least has he played a role in the great mass of vernacular building. This picture is

changing. Our incredible population growth and transition from an agrarian to an urban nation will demand comprehensive planning and architectural design on every level of building. The architect must assume these tasks and we are training a cadre of young men in the School to do just that." Harlan McClure re-emphasized the need for comprehensive planning as he said: "If you think first-rate architect-planners aren't needed just look about you—America, insofar as man has touched it, is visual chaos. It is a literal jungle of wires, poles, billboards, and miscellaneous junk and clutter."

The American Institute of Architects in elevating Dean McClure to Fellowship last year in both Design and Education, cited him as an architectural statesman, a national leader in education, and a designer of distinction.

McClure, son of a civil engineer, decided to become an architect when he was twelve years old and says that if he had to do it all over again he would choose the same career. He entered George Washington University in 1933 at the age of 16 and at a time when most architects in the country were either out of work, or out of the profession. "It never occurred to me that one could make money in architecture," he said. "It was the only thing I wanted to spend my life do-



WALTER AHERN HOUSE

Lake Minnetonka, Minnesota

Architect: Harlan E. McClure, F.A.I.A.

ing." McClure completed both a four year B.A. degree in liberal arts and a five year Bachelor of Architecture degree in four years. During the summer months of those undergraduate years he worked for the Park Service for private architects and on the Restoration of Williamsburg. Immediately upon graduation in 1937, Harlan E. McClure sailed for Europe to study under the pioneer modern architect, Gunnar Asplund in Stockholm. Sweden at that time was leading the world in the development of modern architecture. The neat and orderly environment of the country, and the fact that Swedes of all classes took comprehensive planning for granted astounded the young architect. McClure, abroad for his 21st and 22nd birthdays received the diploma in architecture and town planning at the Royal Academy in Stockholm. He returned to the United States after travelling extensively on the continent at a time marked by Nazi war clouds. Almost his first act

upon docking was to inquire about a commission in the Naval Reserve.

After spending over a year as a designer in architects' offices in Washington, D. C., and Richmond, Virginia, McClure entered Massachusetts Institute of Theology with a graduate scholarship. His strong interest in town planning and civic design continued and he was awarded the Master of Architecture degree in 1941. After finishing his thesis he was called to active duty in the Navy as an Ensign. Soon afterwards he married Virginia Varney, daughter of a Washington architect.

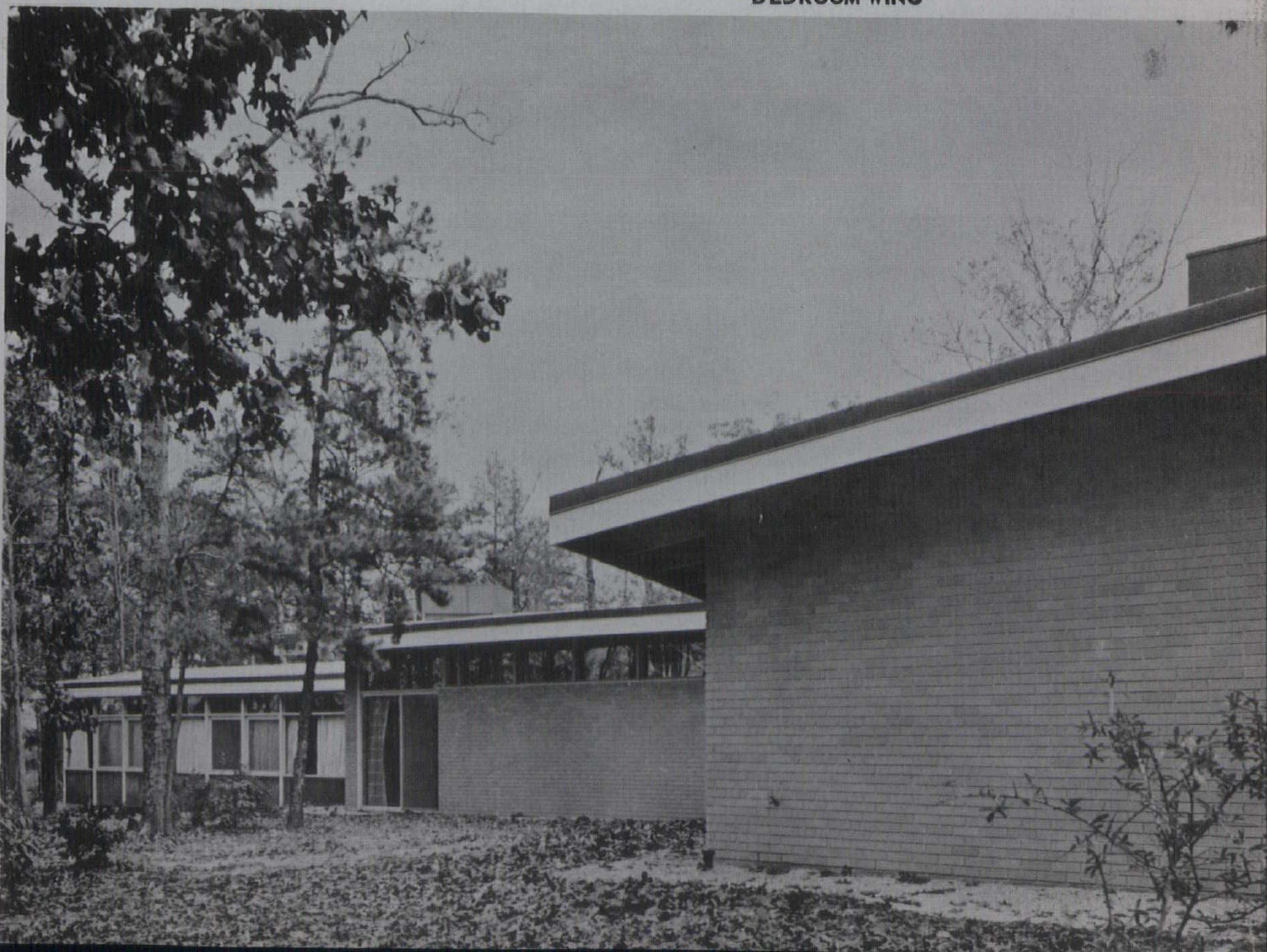
During the first year of the war, McClure was project manager for an \$80,000,000 program of Naval Air Station Construction on the Florida East coast. "We picked out the sites from the air, negotiated for the land while the stations were planned and built," says McClure, who added that he worked himself out of a job and when the airplanes started flying from the new facili-

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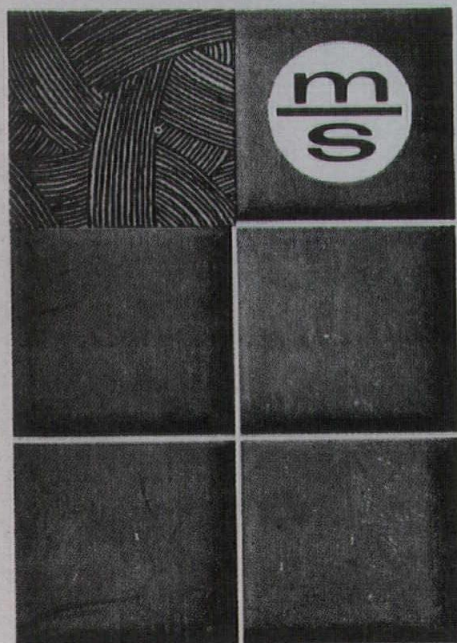


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ties he was sent to sea on an aircraft carrier as operations officer. After service in the North Atlantic on convoy, South Atlantic and Indian Ocean areas on anti-submarine warfare, McClure was ordered to Princeton University to attend the Navy's first School of Military Government and to Harvard to the School of Oriental Languages. The cessation of hostilities earned McClure a change of assignment from military government. He was a Public Works Officer in California when he was released to inactive duty in 1946 as a Lt. Comdr. to join the faculty of the University of Minnesota as an assistant professor.

This began a period of intensive teaching experimentation, writing, and adjunct practice. He was an officer of the Minneapolis Chapter, AIA, became active in the Association of Collegiate Schools of Architecture and wrote a widely used text on "Basic Design." During the ten years at Minnesota he was advanced to associate professor in 1947 and to full professor in 1952. During that year he was first listed in Who's Who in America, and awarded a Senior Fulbright Professorship under sabbatical leave to the Architectural Association in London, England. The family travelled extensively in Europe and McClure lectured and visited many architectural schools in Britain and on the continent. Back in the States, McClure prepared the AIA Guide to Architecture of the Twin Cities for the 1955 convention. He resumed architectural practice concurrent with teaching and prepared Master Plans for three Minnesota municipalities in two years.

He was invited to head the Department of Architecture at Clemson College in 1955-56. At that time a strong constructive partnership between the school and the profession commenced. The Clemson Architectural Foundation was founded by the Chapter to assist in these developments and through this aid much needed programs supplemented those things that the College could do. Bill Lyles played an instrumental role in the Foundation's launching and became its first president. Jack Freeman followed as the second president. Harlan McClure has worked with seven presidents of the Foundation. McClure was appointed first chairman of the Publications Committee



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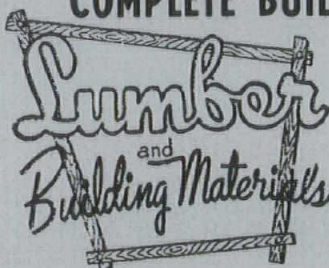
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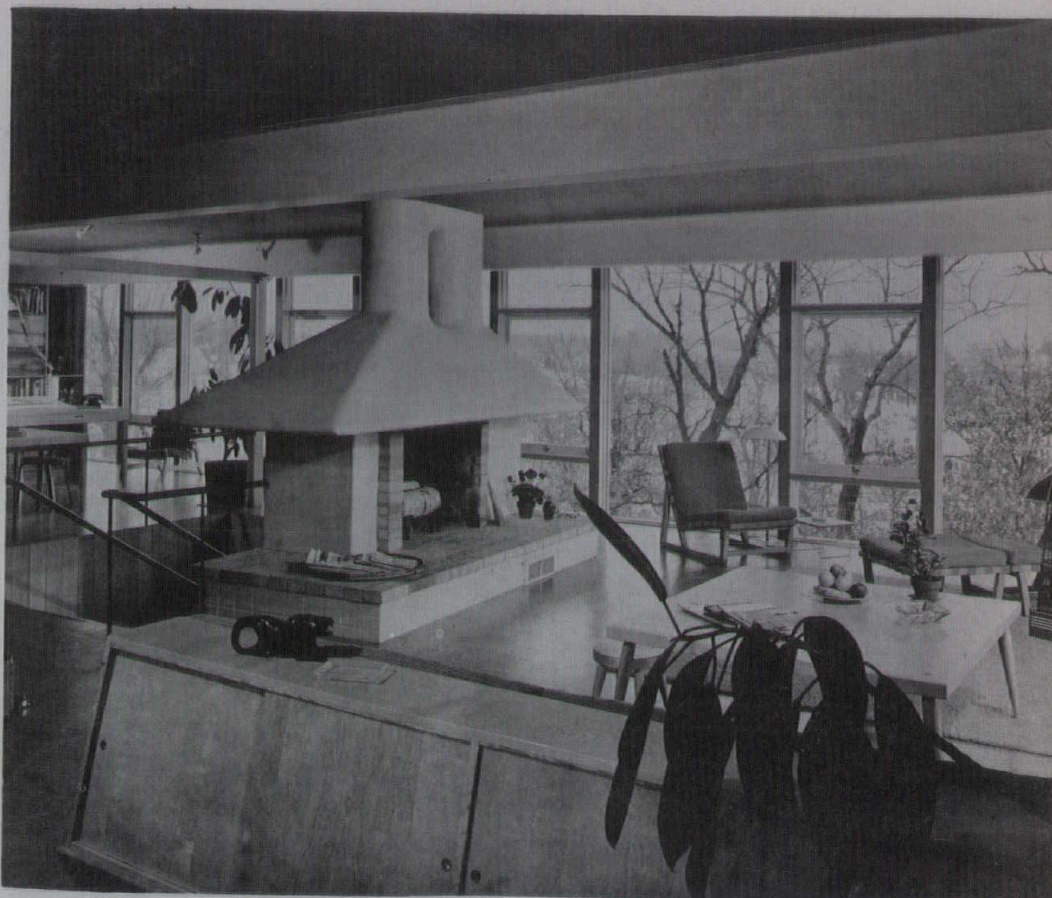


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of the Association of Collegiate Schools of Architecture, and served as Editor of the "Journal of Architectural Education." In 1958, the year the Department of Architecture at Clemson was made an independent School with Harlan McClure as Dean, he became National Secretary of the A.C.S.A., and after serving in this capacity for two years, was elected National President. In accordance with S. C. State Law he has been a member of the Board of Architectural Examiners, was appointed vice-chairman in 1961, and is currently chairman.

Among Harlan McClure's other honors are membership on the National Advisory Panel of the U.S. Housing Administration, Director of the National Council of Arts in Education, and member of the Steering Committee of the AIA/ACSA Teacher-Training Conferences. He has served as a member of the Educational Scholarship Committee of the National Tile Council, and this year was the educator member of the National Steel Council Architectural Awards Jury. Despite all of these duties and assignments he still teaches fifth year design. Feeling strongly that teachers must continue to be involved in practice to have any real continuing proficiency he has had such consulting practice as was possible in view of other responsibilities.

The McClures have restored an anti-bellum house in Pendleton, and attend the Holy Trinity Episcopal Church in Clemson. Ginnie McClure is an Industrial Design graduate from the University of Illinois, and teaches kindergarten art classes at Holy Trinity Episcopal Day School, and does hand weaving, and ceramics. Christopher, the oldest of the children is a political science sophomore at the Citadel; Wesley, a Junior at Pendleton High School is destined to be an architect; and Beth, a fifteen-year old sophomore at Pendleton High wants to be a lawyer. It is an active household.



HARLAN E. McCLURE HOUSE, 1950

Architect: Harlan E. McClure, F.A.I.A.

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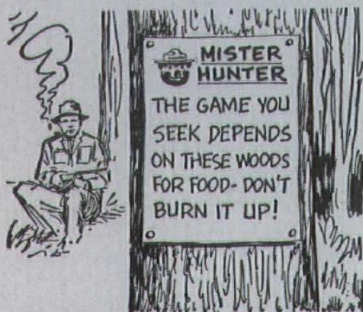


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U. S. C. WINS LIBRARY AWARD

ONE OF TWO NATIONAL FIRST HONOR AWARDS FOR DESIGN GIVEN TO USC UNDERGRADUATE LIBRARY.

A national "first honor award" in recognition of design and planning was presented the Undergraduate Library at the University of South Carolina on April 22nd in Columbia. W. E. Freeman, Jr., of Greenville, Southeastern regional director of the American Institute of Architects, presented the certificate for the AIA, which made the award in cooperation with the American Library Association and the National Book Committee.

The presentation took place during a ceremony attended by Gov. and Mrs. Donald S. Russell, AIA president Henry L. Wright and Mrs. Wright of Los Angeles, and other dignitaries.

Freeman said the purpose of the award program which was established this year is "to encourage excellence in library design and planning."

Dr. George Curry, chairman of U.S.C. Library Committee, responded to the presentation by saying the library is an example of a "renaissance" at the university since 1945.

William G. Lyles of Lyles, Bissett, Carlisle and Wolff responded for the Columbia firm. He said a "good client" is essential to good architecture, and that the university "fully played the role of a great client."

USC President Thomas F. Jones presided at the ceremony and the luncheon which followed in the Russell House. Wright was the luncheon speaker. In his address, AIA President Wright described the purposes and activities of the national association he heads. He said the AIA is seeking to have more "architectural oriented" courses in engineering schools.

"In looking at this campus," Wright said, "I was very impressed with the combination of the old and the new." He said the university has obtained "a very harmonious transition from the traditional to contemporary architecture."

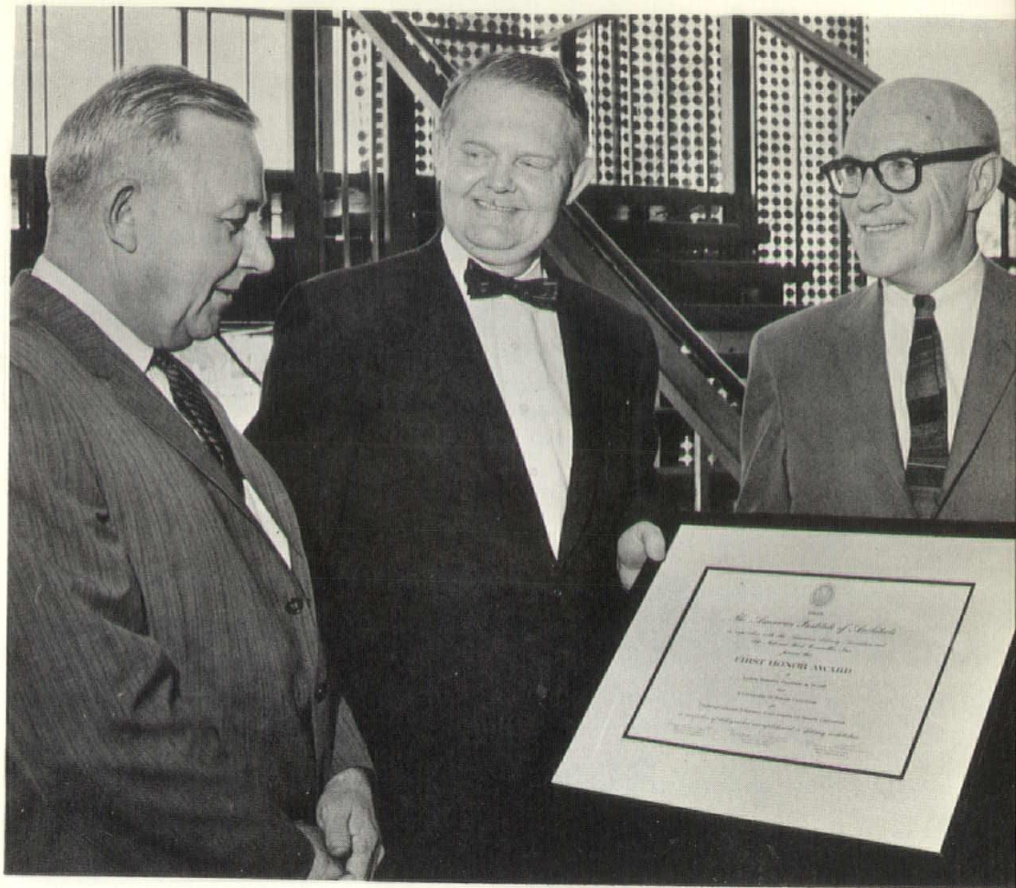
In the library ceremony, Dr. Jones first called upon Dr. William H. Patterson, dean of the university, who said Gov. Russell pointed out the need for an under-graduate library in 1956 during the governor's presidency of the university.

Gov. Russell first initiated a study of McKissick Library, then asked Dr. Keyes Metcalf, director emeritus of Harvard University Library, to determine the needs of the university here. Dr. Metcalf's suggestions were accepted and became the basis for the new building.

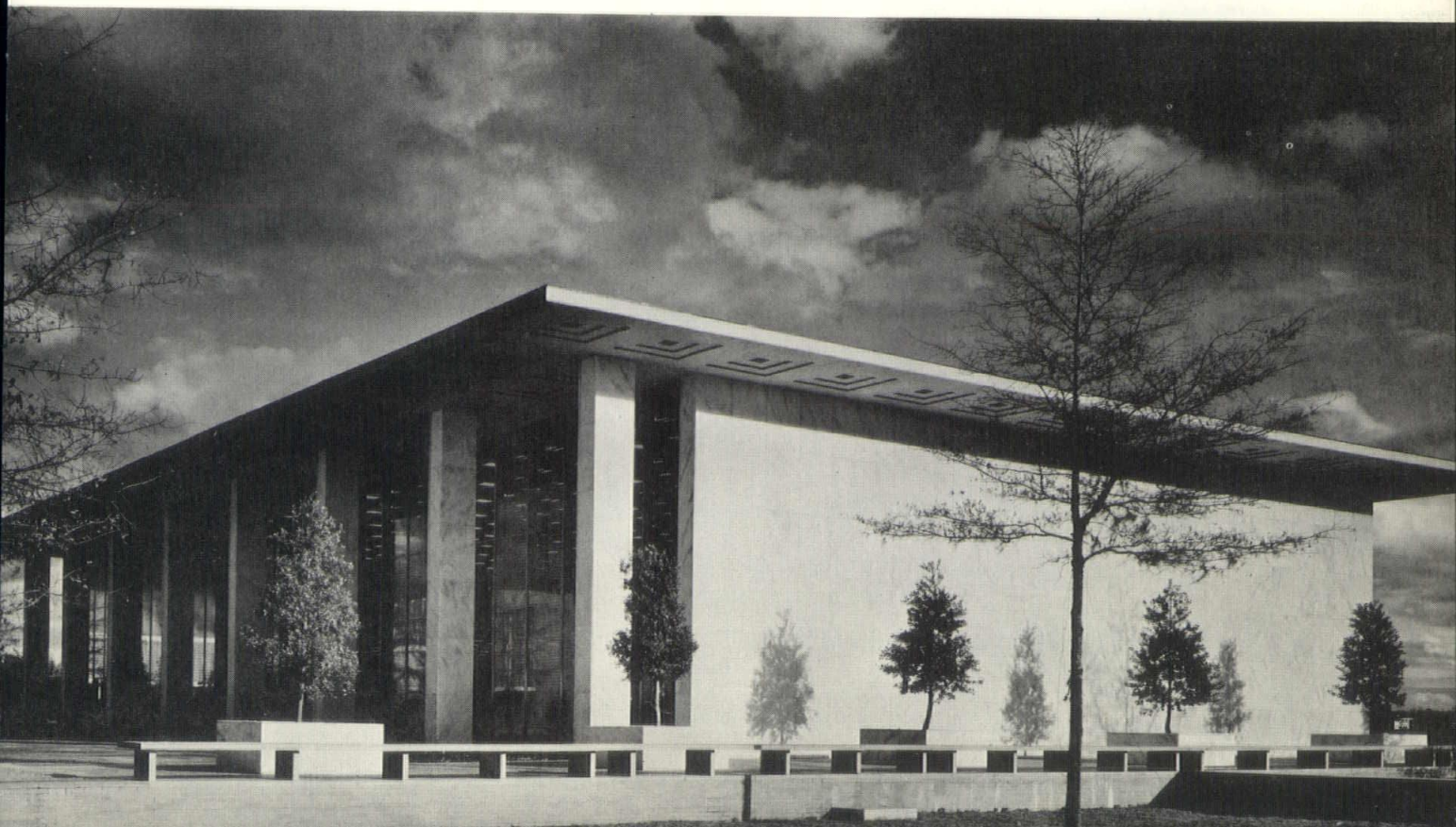
In addition to Lyles, Bissett, Carlisle and Wolff, the university also engaged the services of two architectural consultants to "help achieve overall unity of the new area on the campus."

Edward D. Stone, associate architect for the library, was one of the consultants obtained, the other was landscape architect Richard K. Webel of Innocenti and Webel, New York. John C. Heslep and Co., was the general contractor, and the interior decoration was by Jack Scoville Associates — both Columbia firms.

Dean Patterson, quoted laudatory comments concerning the building from many sources, including this one from the University of North Carolina: "Best new library in the country — first time North Carolina ever had to look to South Carolina for instruction in anything regarding education."



William G. Lyles of the architectural firm of Lyles, Bissett, Carlisle and Wolff (left) and President Thomas F. Jones of the University of South Carolina, receive commendations from Henry L. Wright on the presentation of the First Honor Award certificate for design and planning of the Undergraduate Library at the University.



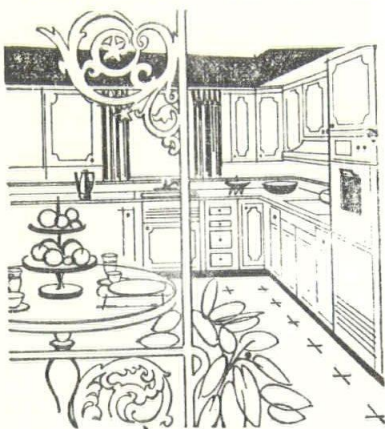
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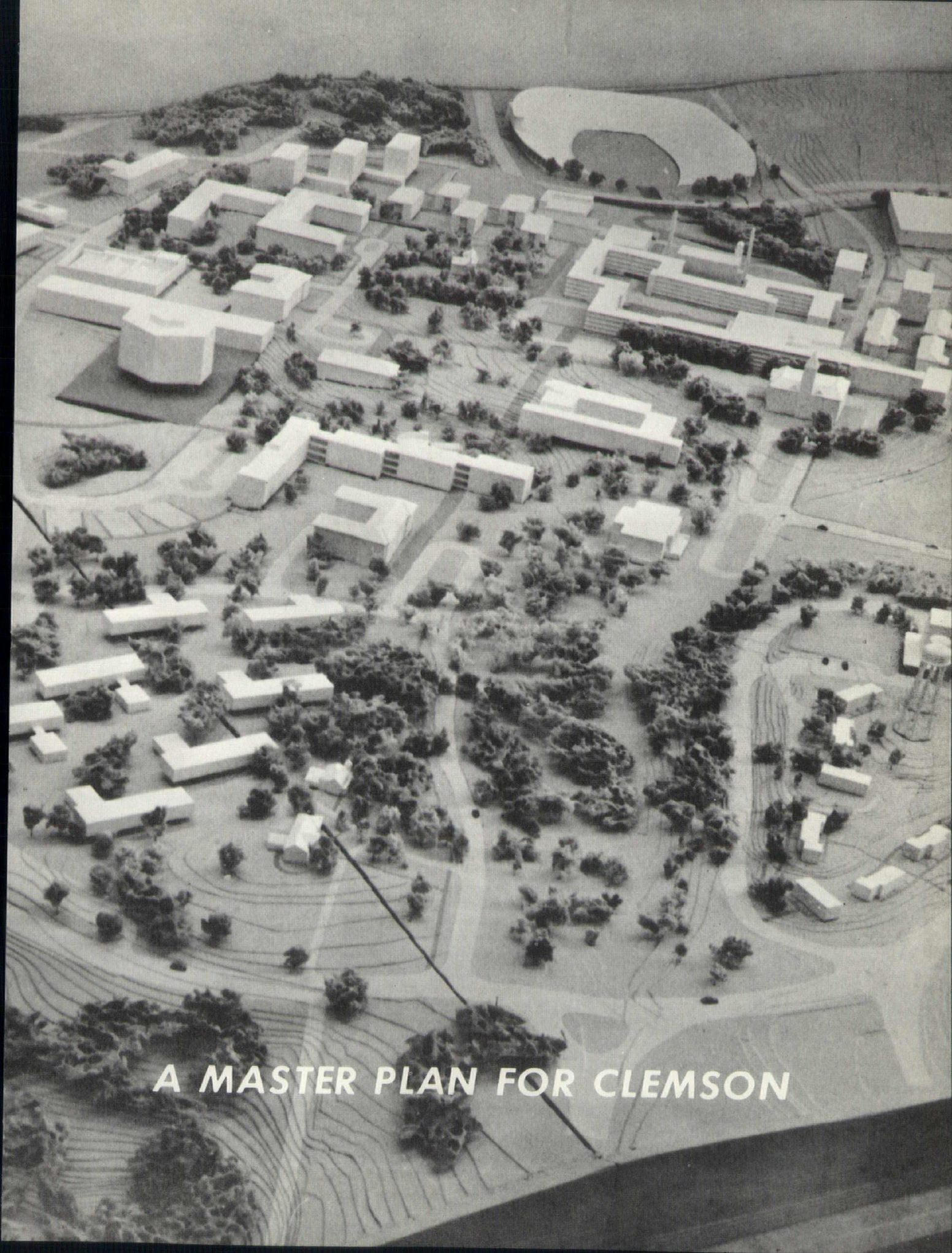
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A MASTER PLAN FOR CLEMSON

A MASTER PLAN FOR CLEMSON

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The late Daniel H. Burnham, architect-planner, pioneer of the Chicago School and hence one of the founders of the modern architectural movement made this important statement: "Make no little plans; they have no magic to stir men's blood and probably themselves will not be realized. Make big plans; aim high and hope and work, remembering that a noble logical diagram once recorded will never die, but long after we have gone it will be a living thing asserting itself with ever-growing insistency. Remember that our sons and grandsons are going to do things that would stagger us; let your watchword be order, and your beacon be beauty."

Thomas Clemson conceived of this school as a college which would become an outstanding service institution in South Carolina, providing training in agriculture and technology. Since its forming social changes and advancements have changed our general outlook towards collegiate education. At the time of Burnham and Clemson a very small percentage of the population went to the colleges and universities of the country. Today a college education is within the reach of the vast majority of

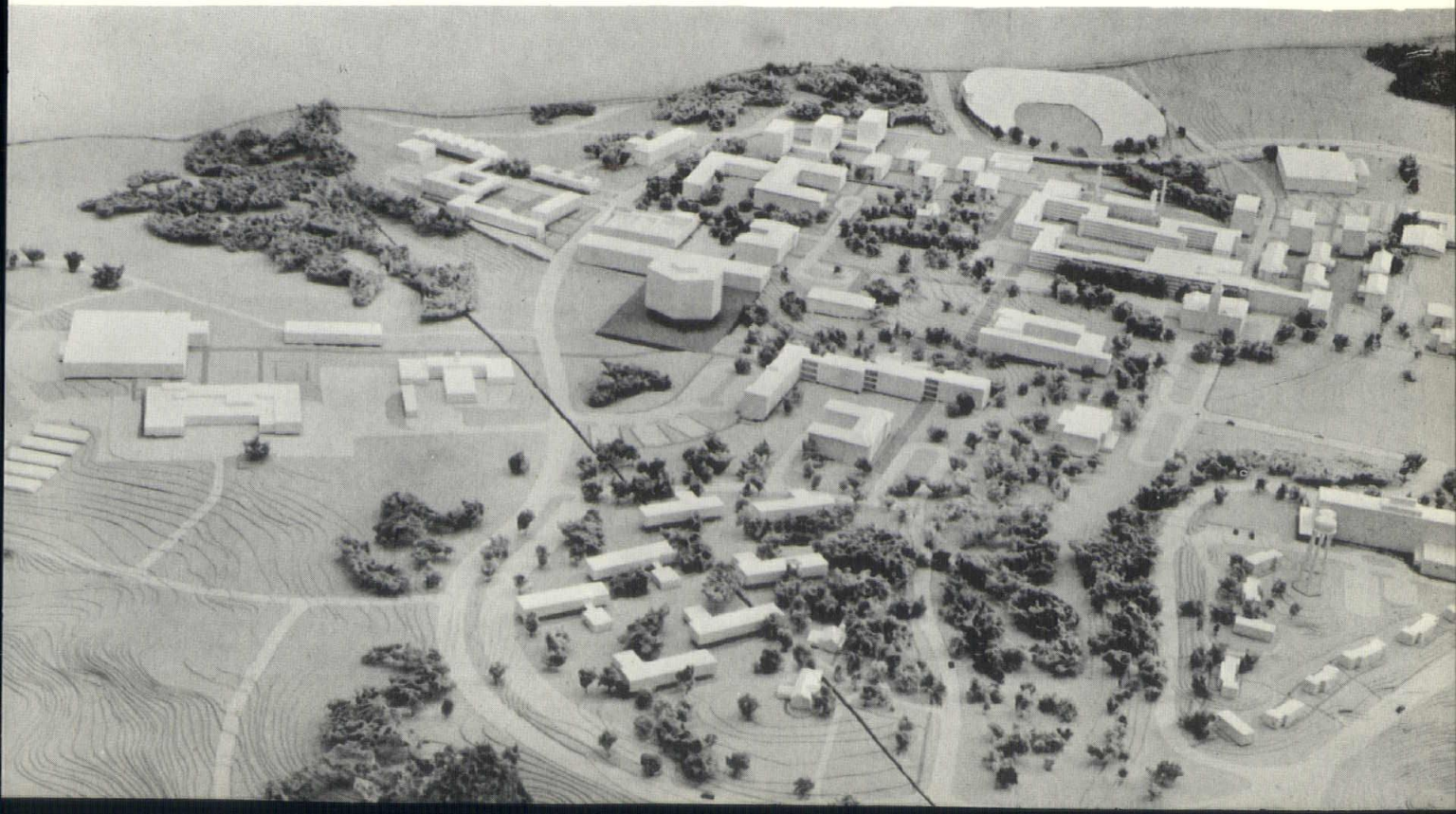
American citizens providing they are qualified for admission. The resultant loads are well known.

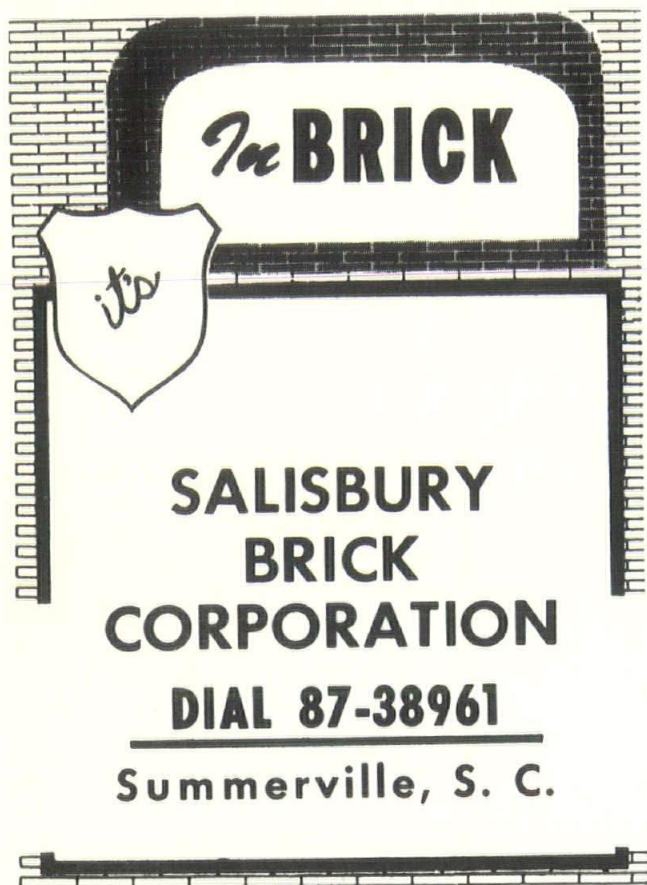
Following World War II returning veterans swelled Clemson's enrollment. This expansion required considerable quick physical growth which took on rather miscellaneous forms and needed cohesive direction. A broad reassessment of the college's future course and areas of service, and the relation of these to a physical plan was needed. A Master Plan was developed for the college by the firm of Perry, Shaw and Hepburn of Boston in the 1950's and although this document had served as a useful geographic allocation of spaces, it needed to be carried into far greater depth. A plan was required that would envision the actual visual design and coordinate site relations. The administration, being fully aware of these needs and these challenges asked the architectural faculty of the college under the direction of Harlan E. McClure, Dean of the school, to prepare a new and more developed Master Plan. Prof. George Means and a team of students undertook the preliminary research. Clemson's plan, as indeed all master plans, needed to take into account the existing per-

manent buildings on the campus, and the romantic and pleasant natural environment, which is rolling and wooded. The few buildings which had preceded this plan found themselves in the center, albeit disjointed by burgeoning growth. Service elements once on the outskirts of the campus were now in the middle of the expanded facilities. The automobile was beginning to play a major role in campus life, and automotive criss-crossing of campus had made the normal student pedestrian activities a real hazard.

In consequence, the new plan was based on the simple concept of planning around a ring road system. Within this ring, most of those facilities which are used for academic purposes and for student housing would be accommodated. Motor cars would be excluded to a maximum extent from the ring and would make sallies into the important areas within the core, as required by service and access. Student parking would be entirely without the ring. For the most part student housing would be assigned

to space within the ring and the campus center would thus once again be turned over to pedestrian use. The sudden sprawl of campus growth had made it impossible for students to easily walk from one class to another within the assigned time limit. This required in the plan a shifting of the center of gravity. Thus, those facilities which would be used by all of the students were located at the geographical center of the ring, this including buildings such as library and liberal arts structures. A relocation of focus from Tillman Hall to a place near the present Motor Pool was envisioned. The important functional groupings or zones clustering around this center became the student housing area both male and female; the technological area embracing engineering, textiles, and architecture; and the agricultural grouping. Each group is placed as nearly equidistant from the library and liberal arts area as possible. Agriculture was completely developed before the plan and thus its location and its radiating services needed to be considered





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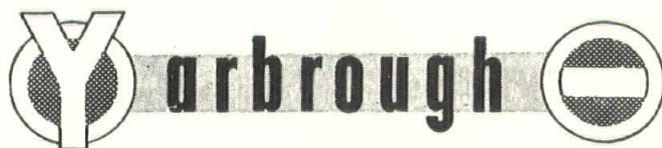
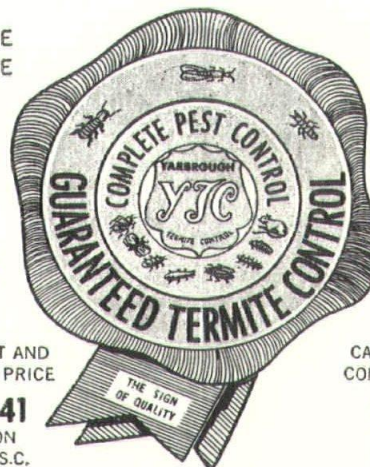
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carefully. The Master Plan has attempted to enhance the plantation house of John C. Calhoun and open it to a campus vista by developing the open space at the core related to it. Generally it has been planned to develop new buildings in a manner to give greater coherence and order to the physical scheme. A common brick color has been adopted. No college which has developed over a period of years can escape being a collection of varying styles, periods, and architectural decor, and even materials. The Master Plan does not attempt to negate any of these statements but rather to pull them into a comprehensible order.

The general collegiate athletic facilities around the area commonly known as Death Valley is located just outside the ring road enabling great athletic day crowds to be accommodated with relative ease. The relocation of a main access and the establishment of focal point will cause the visual climax to become the new library. The old library will be reassigned for use as an administration building. It is very important that Tillman Hall, a building lacking great architectural quality, but possessing charm and historic associations be preserved. The Master Plan suggests by the removal of the Chapel a happier relationship between Tillman Hall and the adjoining dormitory facilities will be achieved.

The first of the college's new women's dormitories is presently under construction and these are adjacent to the central liberal arts area which will probably be the academic area of major interest to women students. Ultimately, high rise dormitories will become prominent features of the men's campus, as space becomes a premium commodity. Three of these will be ultimately constructed in the parking lot near the present old barracks. The other three will be located along the ring road near the textile building. Plans also call for the erection of three more small dormitory buildings like those completed in the same area. Married student housing of a permanent type has already been introduced to the East Campus area. It is planned that the temporary prefab structures housing married students will be removed and future units added will be similar to East Campus construction. The accompanying photographs will show the manner in which academic housing and student activity areas can be interrelated causing a functional alliance to exist.

A great university can perhaps exist without a great physical plant, but the environment does indeed suggest the spirit of the institution. It is hoped that the Master Plan will assist in such proper development.

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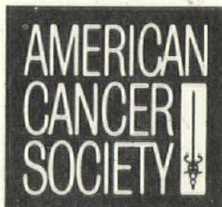
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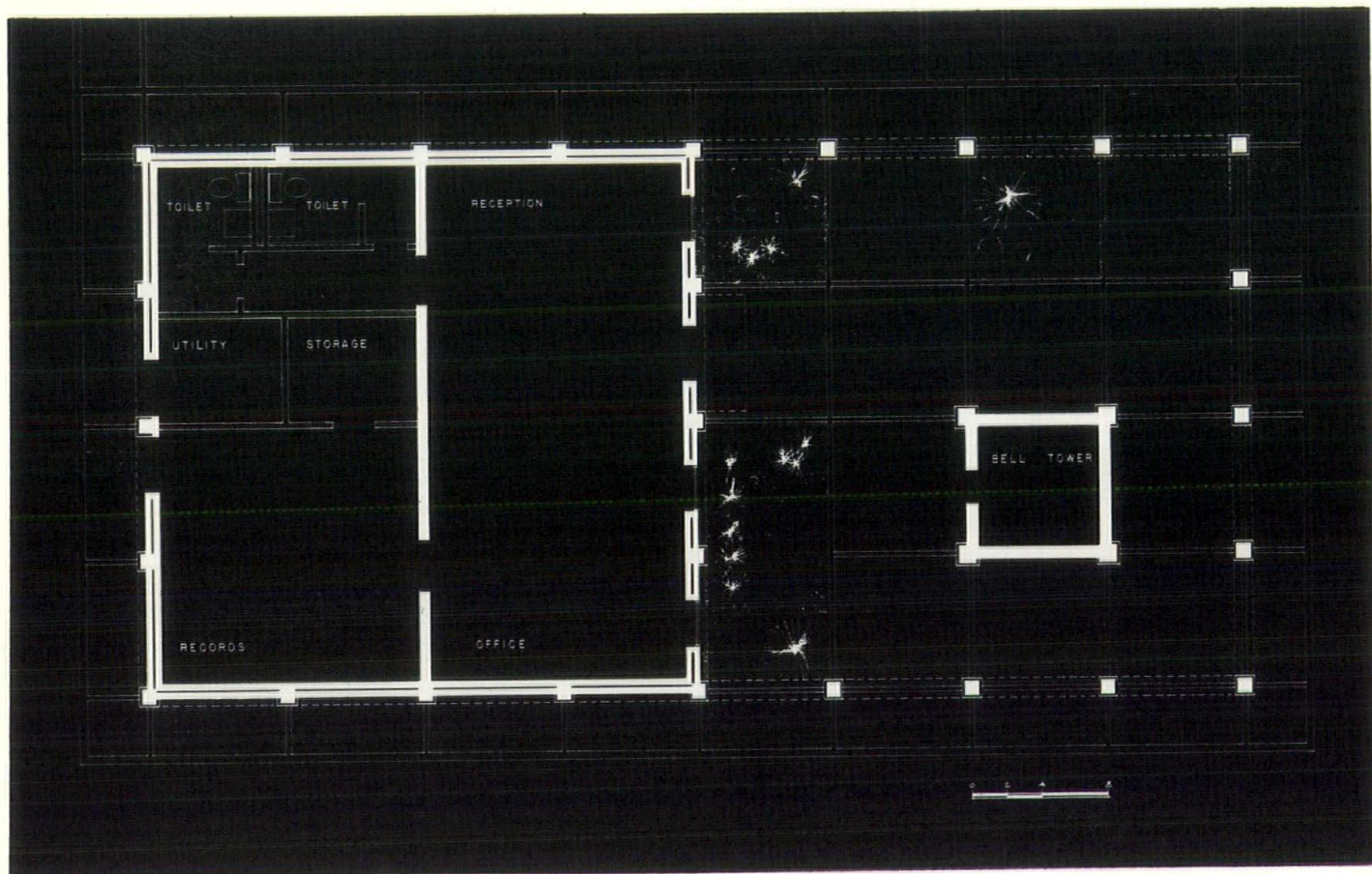
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HONOR AWARD

WINTER MEETING S. C. A. I. A. CLEMSON, SOUTH CAROLINA

ELMWOOD CEMETERY, Columbia, S. C.

Architects: Lyles, Bissett, Carlisle & Wolff



Designed to form a focal point for an existing cemetery and to provide a visual landmark at the entrance to the City of Columbia from an interstate highway, this structure was planned as a prominent but dignified building to house the administrative operations of the Elmwood Cemetery.

It has been placed on a high point of land near the cemetery

entrance. The structure for the building and the bell tower is of reinforced concrete painted white with brick in a light brown tone as an infill material and as the material for paving in the court surrounding the tower and the administration building.

It was completed in August, 1961 by Southern States Construction Company of Columbia, S. C.

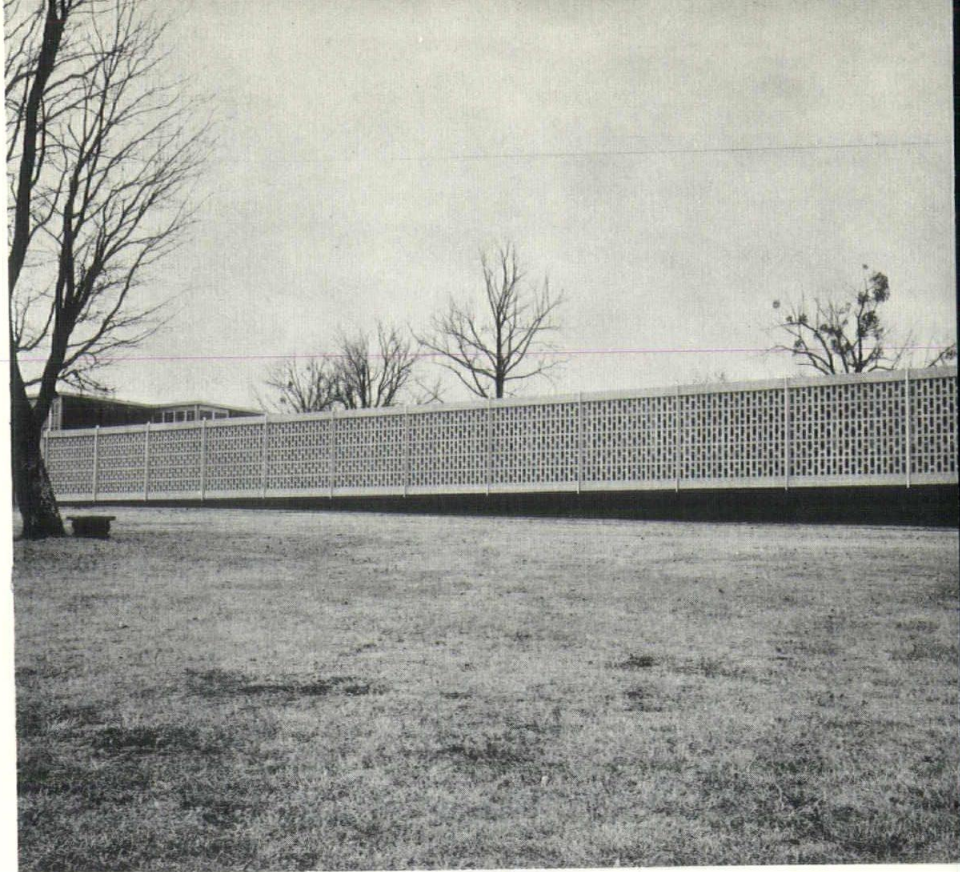


AWARD

WINTER MEETING S. C. A. I. A. CLEMSON, SOUTH CAROLINA

NORTH GREENVILLE JUNIOR COLLEGE SCIENCE BUILDING

Architects: Lillard - Westmoreland - McGarity



This building is part of a two-year Baptist Junior College which is growing in size and in scholastic rating. The original school was an Academy established in the late 19th century to serve the scattered population of the semi-mountainous surrounding area. Over the years it developed into a Junior College serving an ever widening area. The school is now in a ten-year building program. This Science Building is the fifth new building in this development.

The Junior College campus is located in the foot-hills with mountains very close to the north. All the main buildings are located on the highest part of the campus; however, because of the rapid drop in elevation, every building has a different floor elevation. The Administration building is on the

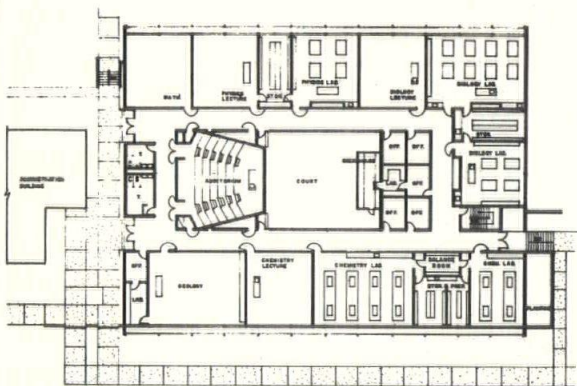
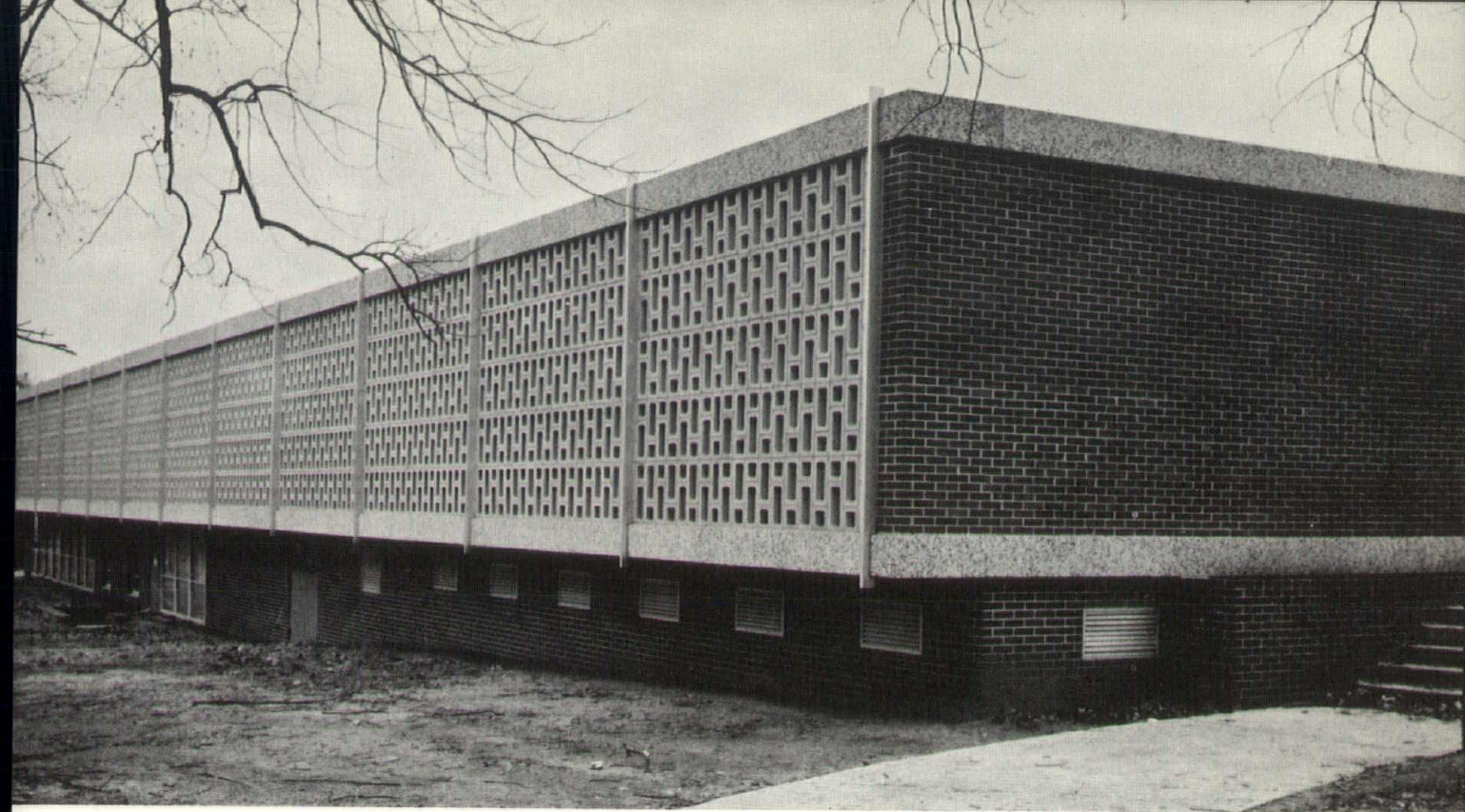
highest part of the hill. There is an outstanding view to the north and to the east, and all buildings are sited to maintain this view.

Consequently, this is the pre-dominating feature of this building planned to house a Science Department and Home Economics Department. The Planetarium, to be built at a later date, will be separated from the main building so it can be more accessible to other departments of the school and to outside groups.

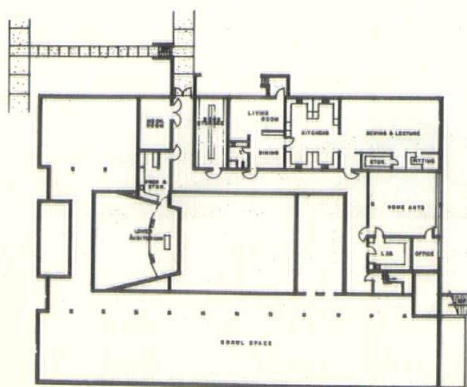
The early morning and late afternoon sun was a particular problem the School Administration wanted solved; hence the white concrete veil block sun screen. This screen, cantilevered from the main wall is sufficient to block the direct rays of the sun but reflects light into the building.

The structure is reinforced concrete to the first floor line, then structural steel and steel bar joist roof. The deck is poured lightweight concrete on a corrugated metal deck. The face brick match is that of the new buildings on the exterior. The interior is of exposed lightweight concrete block, painted. Exposed aggregate pre-cast concrete beams at the first floor line and at fascia frame the concrete block screen. Floors on the first floor are sand bed terrazzo, and on Ground Floor they are vinyl asbestos.

First Floor ceilings are acoustical plaster. Ground Floor ceilings are 2' x 2' lay-in type acoustical tile. Heating is by unit ventilators with steam from the central boiler plant converted into hot water at the Science Building.



FIRST FLOOR PLAN
SCALE 1/8" = 1'-0"
GRAPHIC SCALE



GROUND FLOOR PLAN
SCALE 1/8" = 1'-0"
GRAPHIC SCALE



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BUILDINGS IN THE NEWS

WOMEN'S DORMITORY - Clemson

Architects:

John H. Weems, A.I.A.



First in a planned series of seven, this new building will house 144 girls in 72 rooms grouped in sections of six for control purposes with a study hall provided for each section. Wall-to-wall carpeting throughout and a roof-top sun deck complement the facilities of the four-story, non-combustible brick structure of reinforced concrete and structural steel.

The first floor is designed for group living. It includes a spacious lounge, with fireplace and kitchenette, a recreation room with kitchenette, a laundry room with coin-operated washers and dryers,

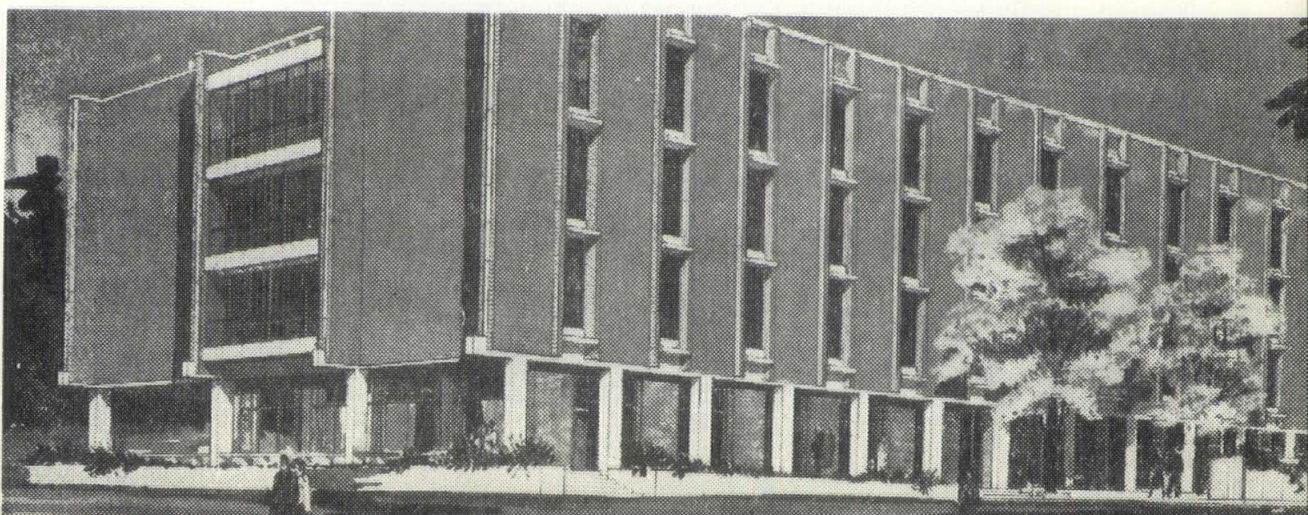
and an apartment for the resident counselor.

Until other dormitory units for women are added, the coeds will dine with Clemson men in the college dining hall of the Student Center.

The modern building will contain 24 resident rooms on each of the second, third and fourth floors. Each room has two closets, two chests of drawers, wall-hung mirrors, single beds and individual study desks. Solar blocks will assure privacy and protection from the sun. Draperies will be provided by the occupants.

For each suite of six rooms there will be study, bath, washing and drying facilities. Each resident floor will have study rooms at both ends, clothes and luggage storage rooms, shampoo sinks and hair dryers, laundering facilities and telephone service. There will be elevator service to all floors and each room can be reached over an intercom system.

The building contains nearly 38,000 square feet of floor space. General construction contractor is the Roberson Construction Co. of Columbia.



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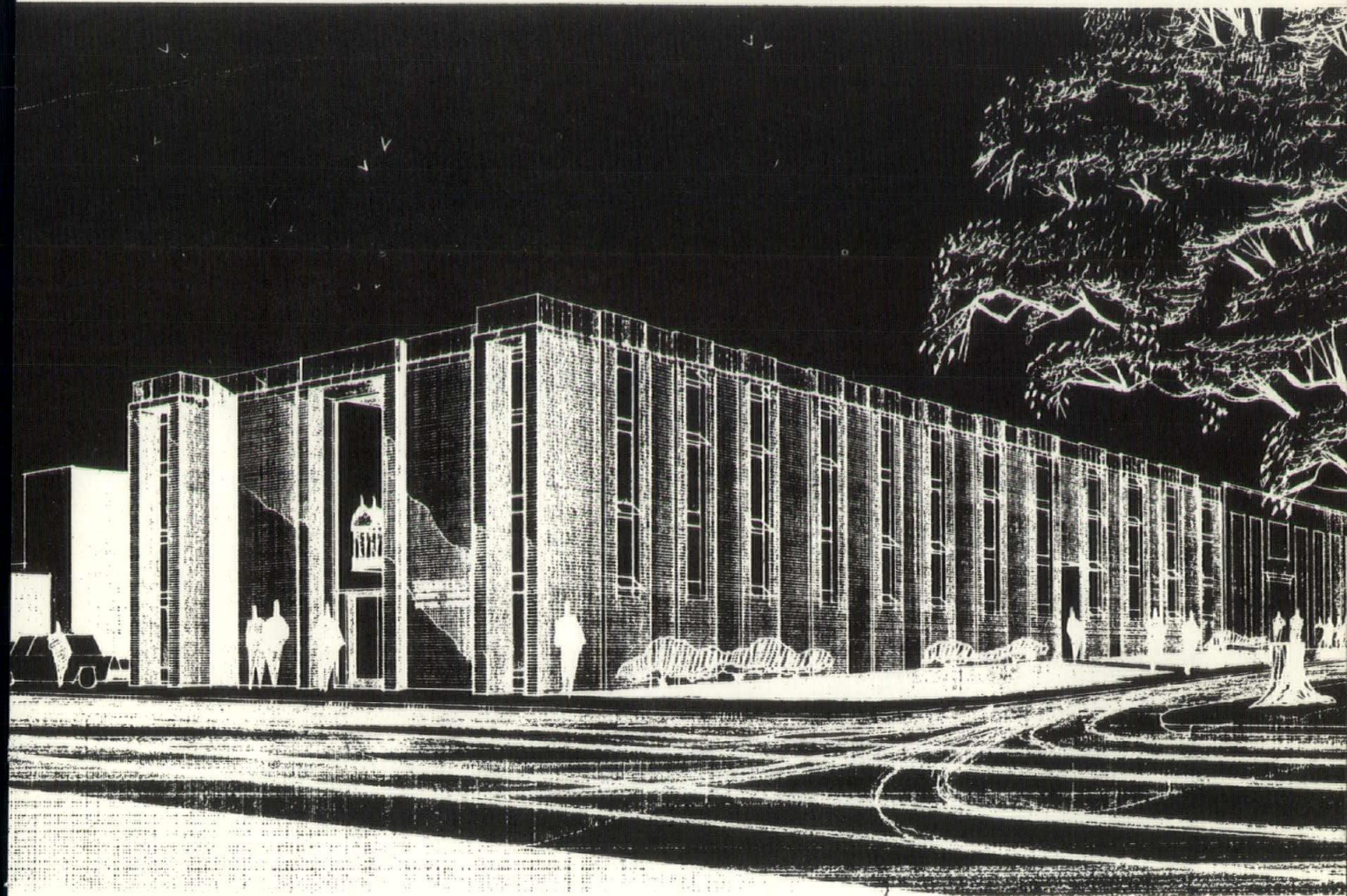
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BUILDINGS IN THE NEWS



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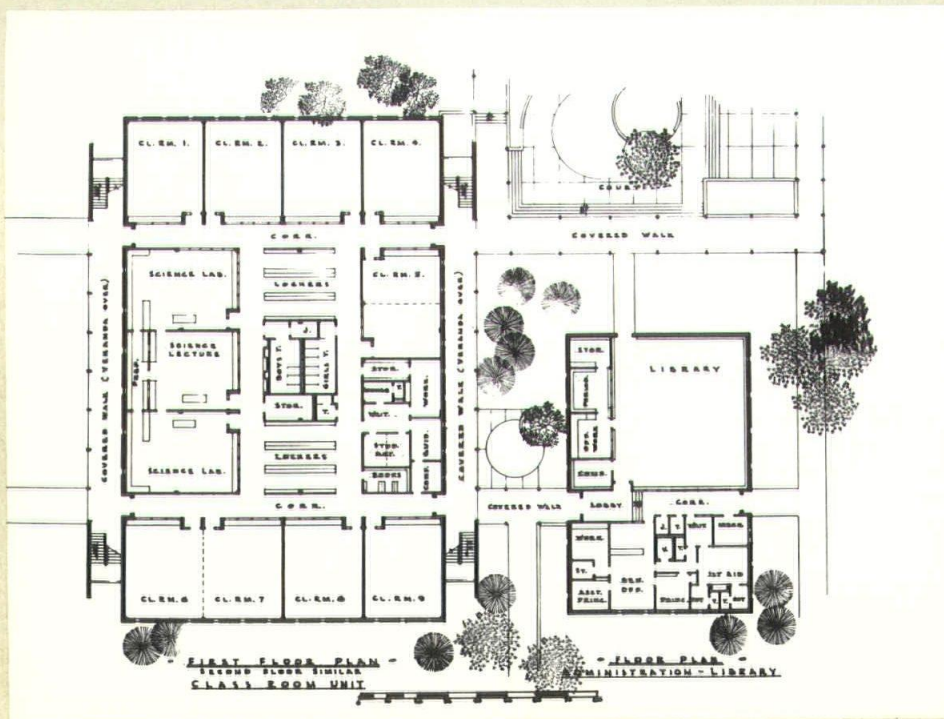
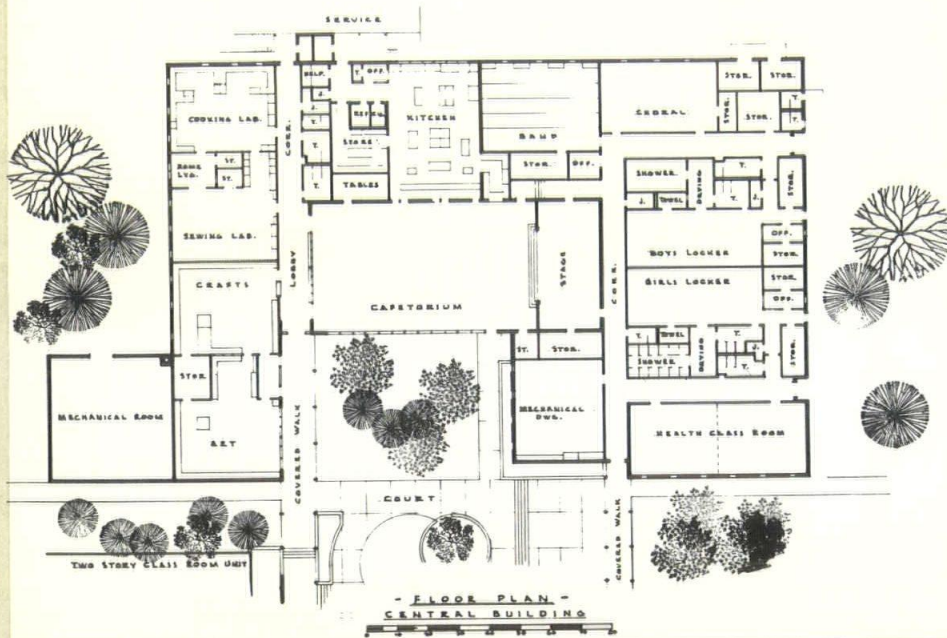
The Lawyers Building next door to the Greenville County Courthouse is being expanded by the construction of a three story addition to the front of the existing building. Craig & Gaulden, Architects concerned with the relationship of this building to the existing structures nearby, used a matching brick for the exterior with stone trim. The interior of the building will be planned for maximum flexibility through the use of movable office partitions. It is anticipated that the building will cost in the neighborhood of \$225,000.

BUILDINGS IN THE NEWS

W. J. KEENAN JUNIOR HIGH SCHOOL, COLUMBIA

Architects:

Lafaye, Fair, Lafaye & Associates, A. I. A.



Columbia's first air conditioned school is now under construction and is scheduled for completion by September of this year. The school will contain classrooms for 900 students with expansion to either 1,350 or 1,800 students if needed. It has been planned in the "Little School" concept with individual units of 450 students, each containing its own classrooms, administration area, and locker rooms.

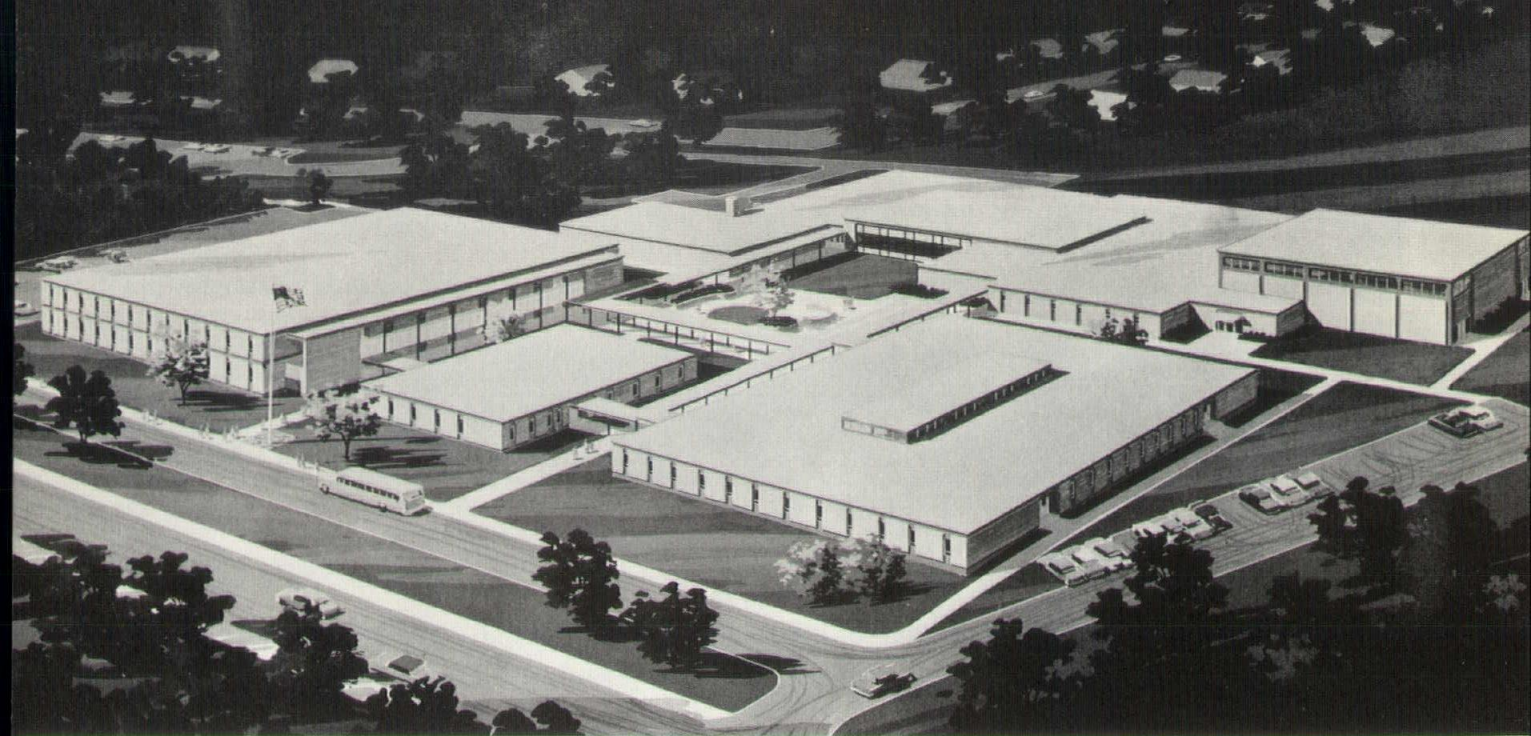
At present the school will consist of the following three units:

1. A two story classroom building containing a "Little School" of 450 students with nine classrooms, two science laboratories with lecture room, plus administration work rooms surrounding a core of toilets and open locker space.

2. An overall Administration Building and Library easily accessible to the "Little School" units and to visitors.

3. A central building containing cafeteria, stage and kitchen, arts and crafts, home economics, music, mechanical drawing and physical education classrooms, and the boiler room.

Ground space has been allocated for another classroom building for 450 or 900 students, a gymnasium and a shop. All of the building units are to be linked by wide covered walks and will surround a large, paved landscaped court. All

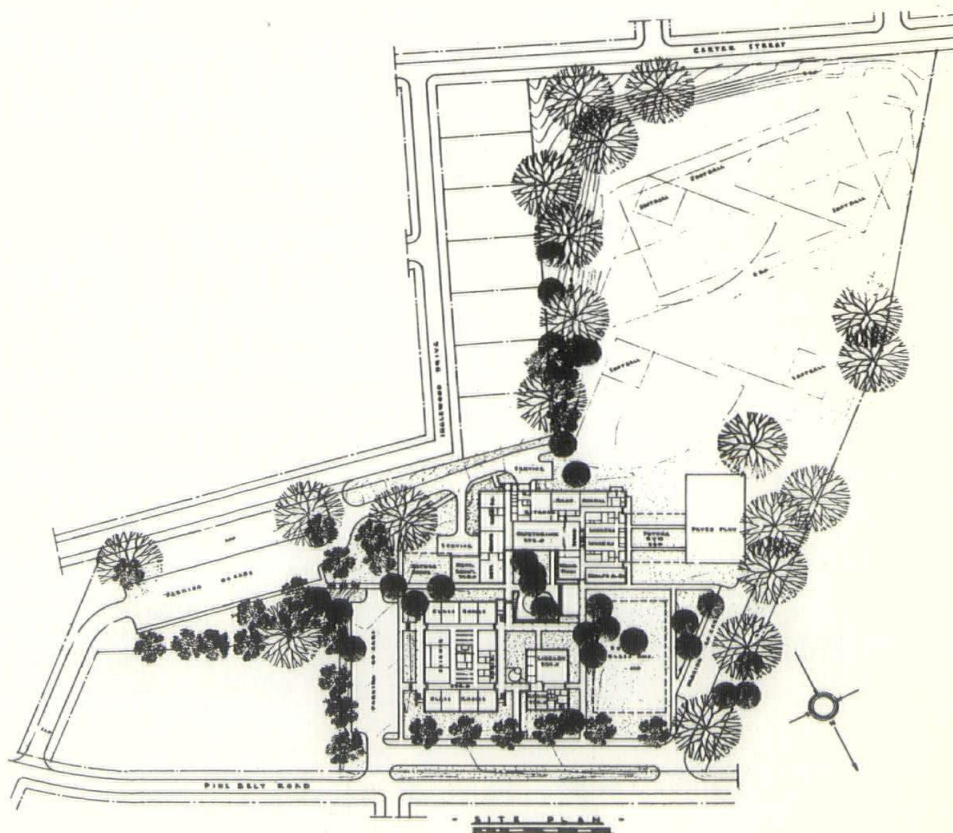


though the site slopes fifty feet from front to rear, space has been provided for an athletic field containing four softball fields or two practice football fields, plus parking for both school use and community use of the school.

Much of the design of the school was determined by the effective use of year around air conditioning. Windows and corridors were kept to a minimum in all areas; exterior corridors and stairs were used where feasible; building units were kept as compact as possible and tightly grouped; roofs were heavily insulated to minimize heating and cooling losses. Unit ventilators are planned for most areas to allow individual room control of cooling, heating and ventilation.

The exterior of the building will be composed of light, warm tan brick, narrow aluminum with white cast stone spandrels, cornices and horizontal bands. The two story unit features open verandas and stairs on the north and south sides with heavy steel fin columns and decorative aluminum grille railings.

In addition to the architects, Lafaye, Fair, Lafaye & Associates, the structural engineers were Johnson and King; Electrical engineer E. Roy Huffstetler, Jr.; mechanical engineers M. R. Durlach & Associates; landscape architect Kenneth B. Simmons F.A.S.L.A. General contractor is McCrory Construction Co.



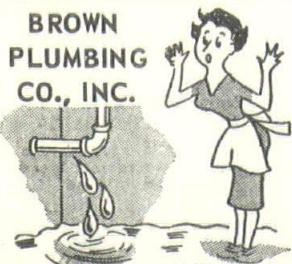


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BUILDINGS IN THE NEWS



EAST GATE BUSINESS COMMUNITY - Columbia, S. C.

Architects:

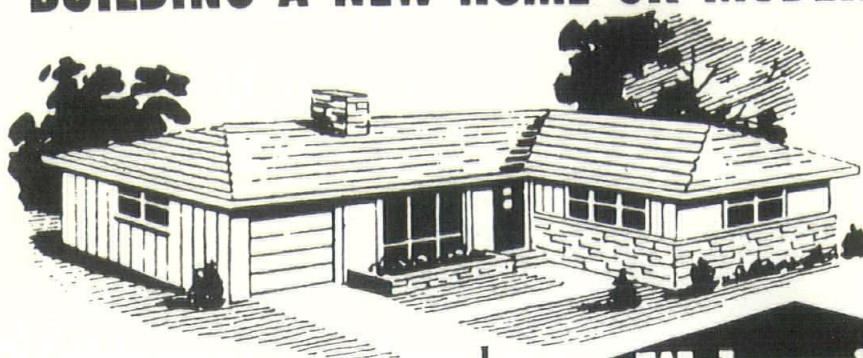
Reid Hearn & Associates, A. I. A.

This shopping center, the first planned development of any size in the eastern section of Columbia, will be placed at the intersection of two major arteries. It will consist of two large units — a supermarket with small shops closeby at the major intersection, and a two story office and shop structure.

The supermarket will be constructed of exposed laminated timber beams supporting the roof structure with exterior walls of

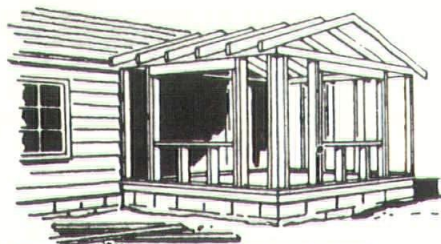
glass and masonry. The two story building will be of masonry and steel construction and will contain offices on the second floor and shops on the first level. A paved plaza at the sloping street side of the building will form the roof for a liquor store at a lower level that will have its own entrance and parking spaces directly off the street. Construction on the project is expected to begin in the immediate future.

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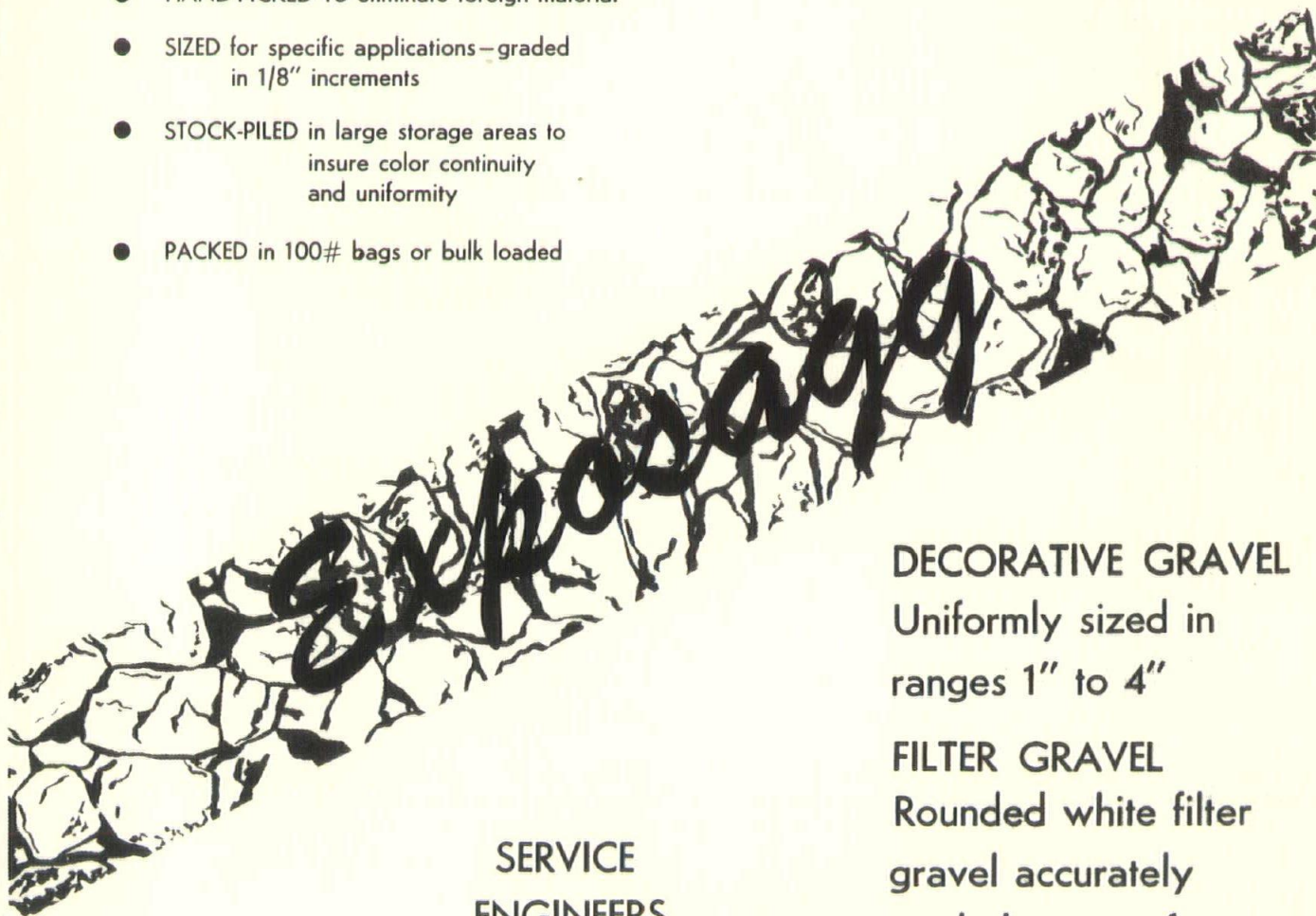
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