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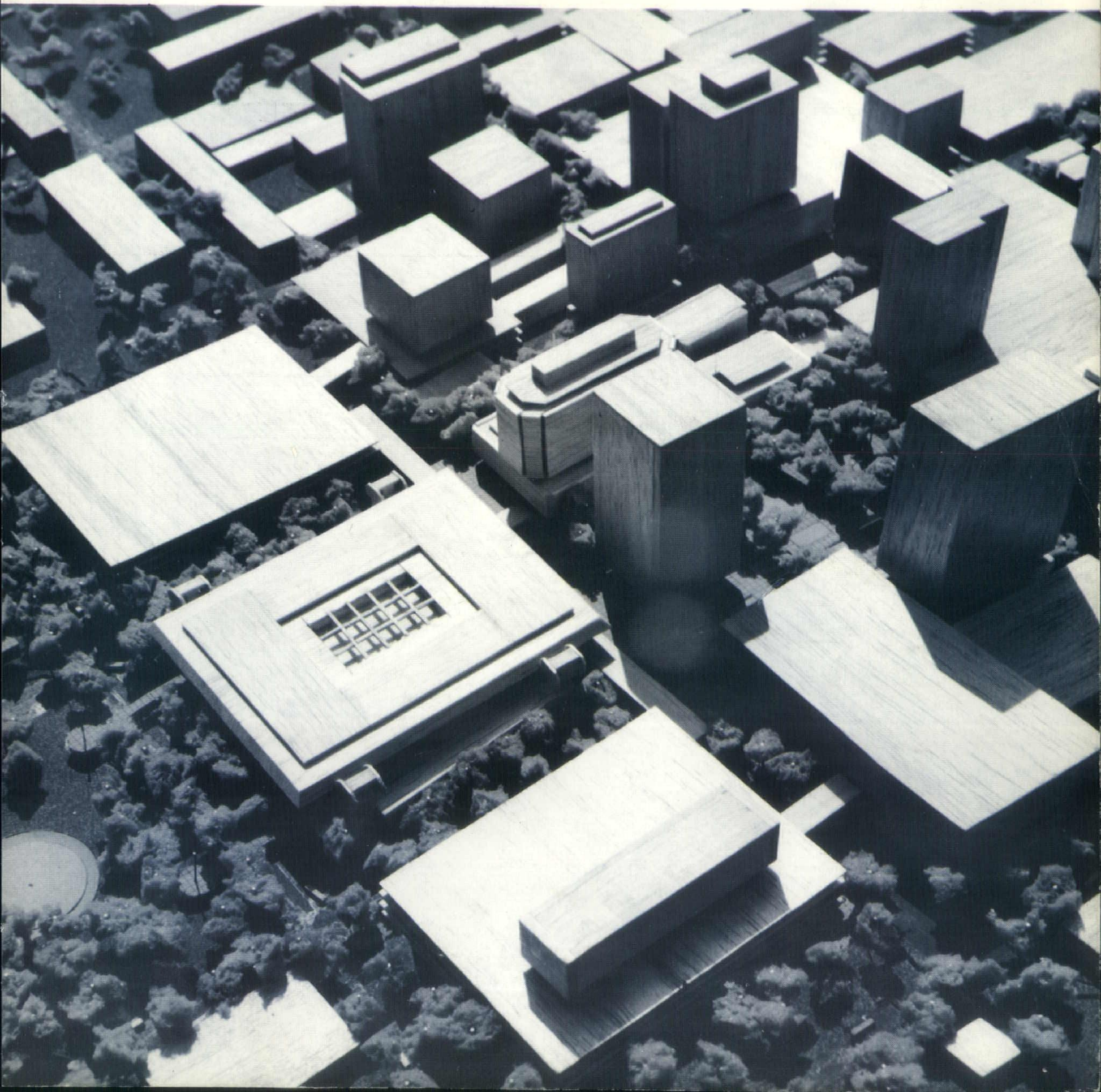
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COVER

An aerial view of the redevelopment plan featuring a convention center area for downtown Charlotte done by fifth-year architectural students at Clemson University.

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The latest steps in the remarkable progress of architectural education at Clemson University are described in this issue by Dean Harlan McClure. Undoubtedly great things are being done at Clemson and other schools of architecture for the education of the Architect, but what is being done anywhere in education for the appreciation of Architecture? Dr. Harold Taylor, former president of Sarah Lawrence College and now chairman of the National Committee for Support of the Public Schools, made some interesting comments in this respect at the national AIA convention this year. In part he said: "There is also a parallel in architecture to be made between the relation of the opera, theater, ballet and music of all kinds to its own audience. Again, too state it at its simplest, great art cannot exist without an audience. In economic terms, you can't put the show on. In esthetic terms, there is no need to, if no one wants it or appreciates it. . . . The citizens are the audience for architecture, but in few institutions of education is there any attempt to develop a sensitivity either to the visual arts in their formal sense—painting, sculpture, design—or to the visual art of the total environment. I would also argue that once we introduce theater, music, dance, poetry, painting, sculpture, and design into the school and college curriculum as full-fledged subjects, in equal status to the respectable "hard" subjects, we will be preparing people to pay attention to the ugliness or beauty of what surrounds them."

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SOUTH CAROLINA CHAPTER AMERICAN INSTITUTE OF ARCHITECTS

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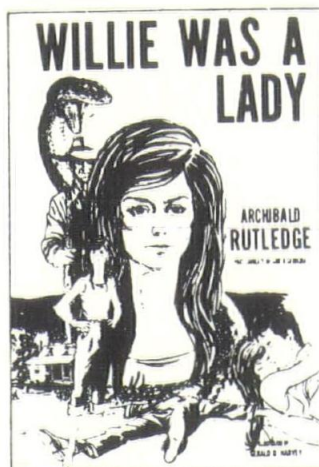
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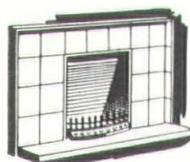
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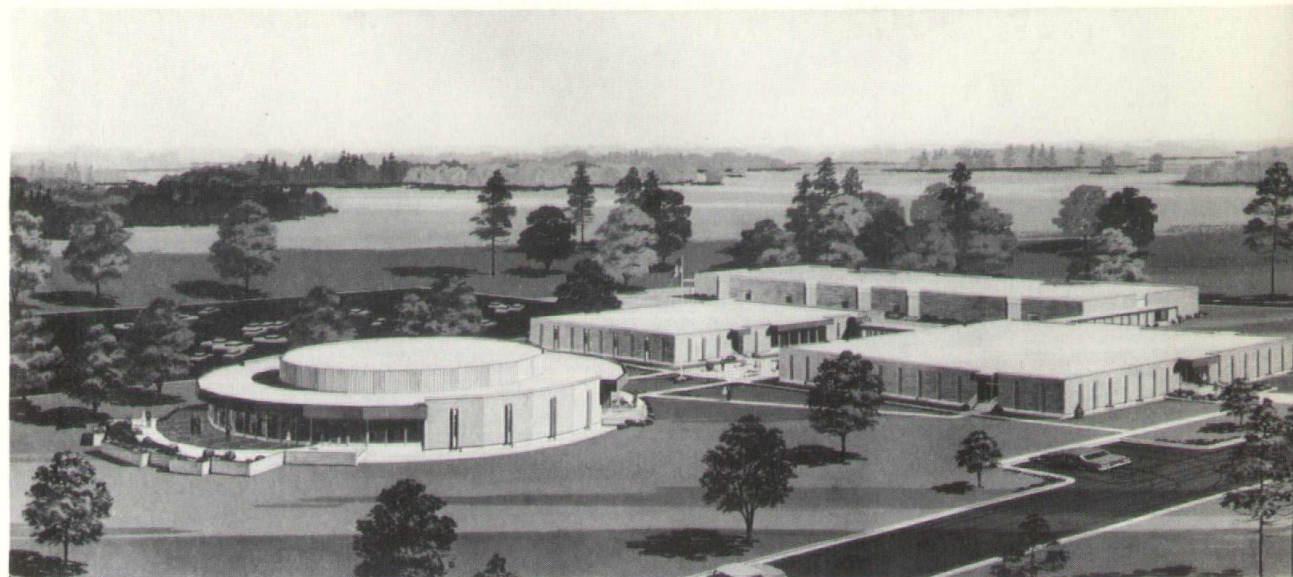
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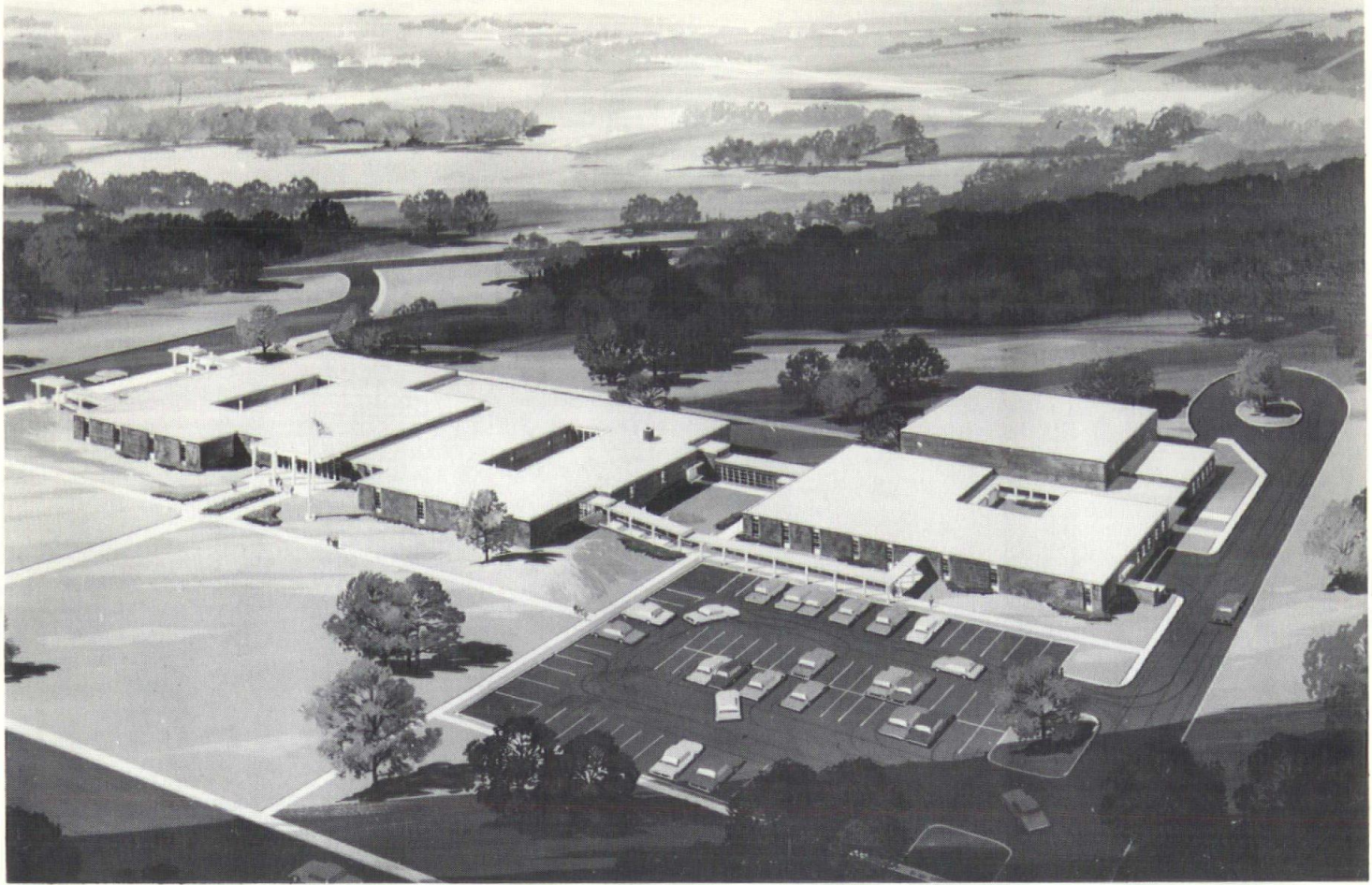
PREVIEWS



▲
AN ADDITION TO FLORENCE-DARLINGTON TEC by Lewis, Dowis and Barnes and Clark & McCall is being built by Construction Service Company at a cost of \$1,085,229. The 45,242 square feet of new space will contain a library, a circular 400-seat lecture hall, a classroom building and expanded shop facilities. More than 15,000 persons have been trained for new and expanding industries in the Pee Dee area.

A HEADQUARTERS BUILDING for Southern Bell by Maynard Pearlstine and LaFaye, LaFaye & Associates is now under construction in Columbia. McCrory Construction Company is general contractor for the 245,000-square-foot, \$5.5 million structure in which statewide operations for the telephone company will be consolidated. The eight-story steel frame will be faced with brick and pre-cast panels.

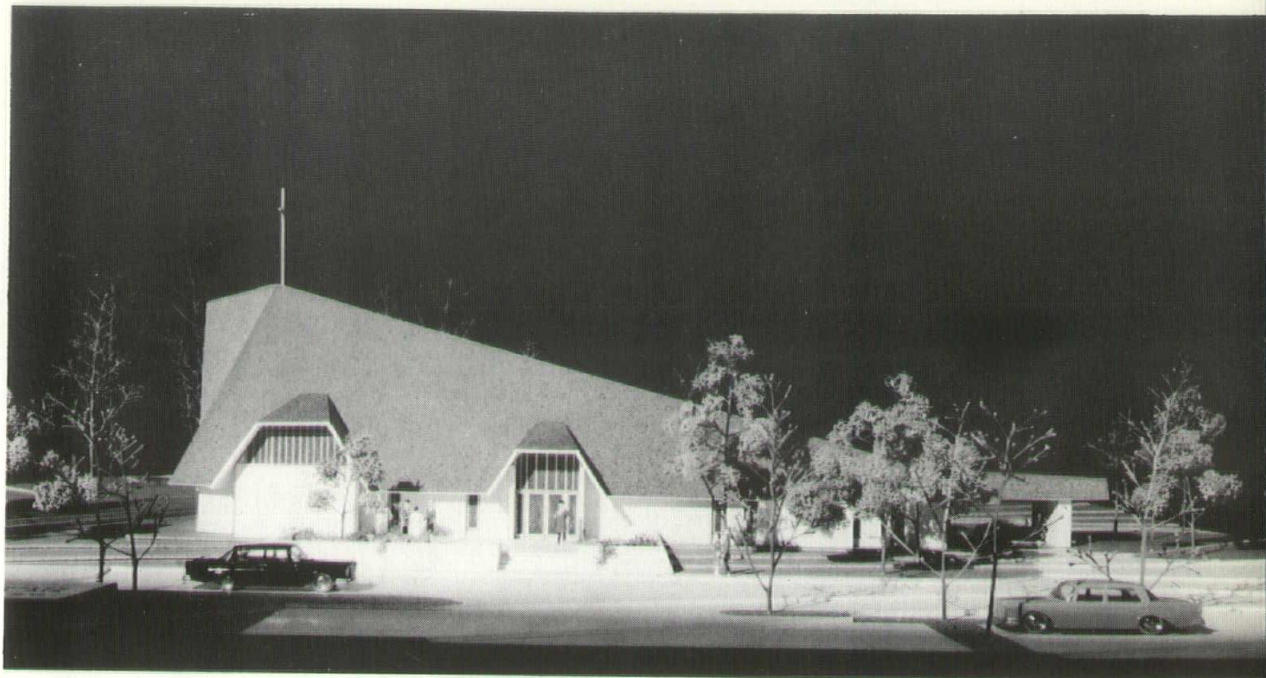




A JUNIOR HIGH SCHOOL by W. Manchester Hudson has been planned for Woodruff School District 4. The 64,700-square-foot building will contain a library, cafeteria, kitchen, offices, music room, twenty-eight classrooms, gymnasium and locker rooms. Due to the rolling contours of the forty-acre site, the one story construction will be built on three levels connected by covered walks.

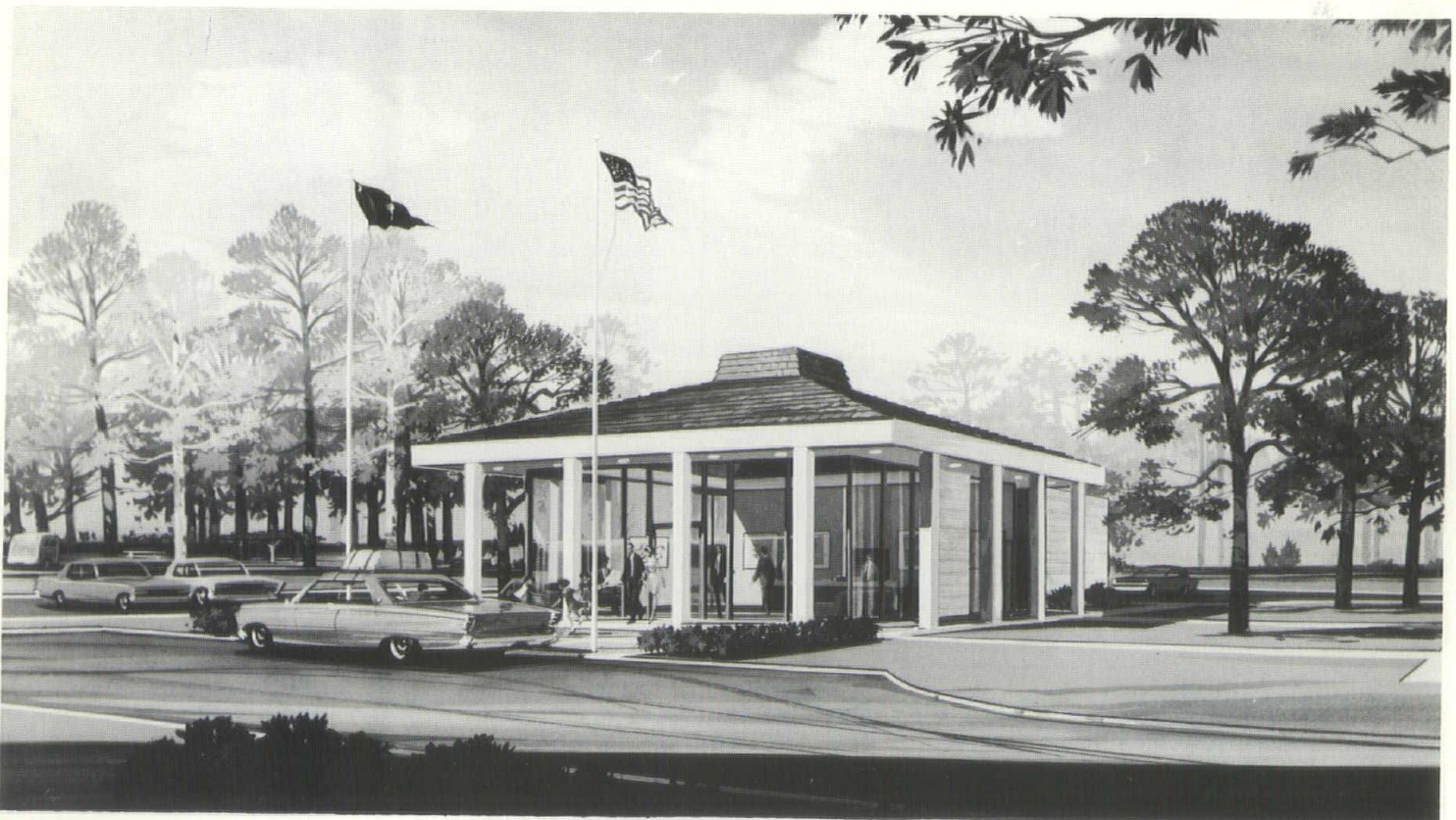
THE COMMUNITY SERVICES BUILDING in Charleston by Lucas and Stubbs & Associates, Ltd. was begun in June. It will be financed with \$600,000 in Federal, County and United Community Services funds to house three health department offices, family services, mental health clinic, vocational rehabilitation evaluation center and speech and hearing clinic. Future expansion of two floors is anticipated.





ST. JOHN'S LUTHERAN CHURCH in Clinton by Tarleton/Tankersley will feature a large "hood" type roof, covering all parts of the building and rising to a height of thirty-two feet over the altar providing a balcony for the choir and other usable space. A paved and landscaped entry court will provide an area of transition prior to entering the church.

THE TOURIST WELCOME CENTER at Little River by Geiger/Califf/Player will be the first of eight such buildings to be erected on major highways entering the state. Built by the South Carolina Highway Department and staffed by the Department of Parks, Recreation, and Tourism, the contemporary concrete frame structure reflects the state's tradition in its colonnade and slate roof.



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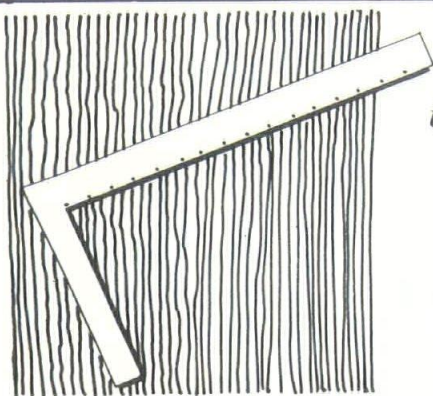
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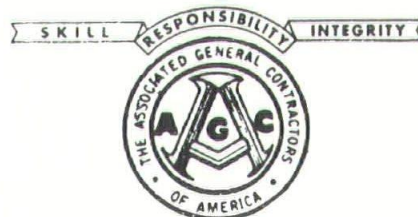


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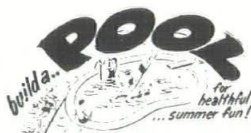
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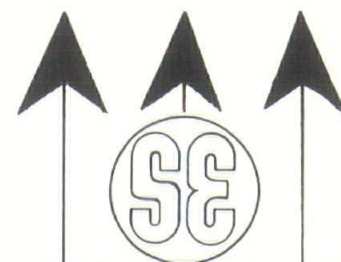
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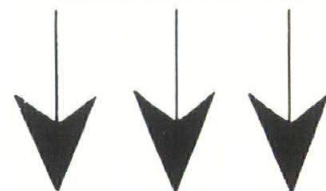
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NEWS

Church Group Plan Apartments

Two non-profit apartment projects sponsored by religious groups and federal loans are planned in South Carolina. The Episcopal Diocese of South Carolina will erect a \$2.5 million multi-story apartment building in Charleston. It will be for elderly persons of all denominations with Episcopalians having priority on the 200 units. Lyles, Bissett, Carlisle & Wolff are the architects. A sixty-unit low rent project designed by Demosthenes, McCreight and Riley is being built in Sumter by Mt. Pisgah A.M.E. Church. It will provide 30 two-bedroom and 30 three-bedroom, one- and two-story units, for low income families.

Names and Firms

Mrs. Robert E. McNair was made an honorary associate of the SCAIA Ladies Auxiliary at the recent summer meeting of the SCAIA in Myrtle Beach. The certificate presented by Mrs. Louis M. Wolff, Auxiliary President, cited Mrs. McNair's "interest and efforts in behalf of the preservation of South Carolina's architectural heritage." This honor echoes one given Governor McNair two years ago when as Lieutenant Governor he was made an honorary associate of the SCAIA in recognition of his outstanding work in behalf of architectural education in the state.

Charles Fraser, president of the Sea Pines Plantation Company of Hilton Head Island, was given one of the twenty-two awards in the first annual Awards for a Beautiful America Competition sponsored by *Holiday* magazine. He was honored for "demonstrating that private, as well as public interests, desire to protect our vanishing shoreline, by developing a planned seashore community that, although a commercial enterprise, maintains high standards of design and nature protection."

Cornelius T. Cummings, 53, president of Cummings and McCrady, Architects-Engineers of Charleston, died on May 11th. One of the more colorful members of the SCAIA, "Pony" Cummings served as a director of the group and as president of



THE RUTLEDGE STATE OFFICE BUILDING designed by Lyles, Bissett, Carlisle and Wolfe won the Southern regional award, one of five, presented in the first national American Institute of Architects—Marble Institute of America Awards Program for "excellence in architectural design and excellence in the use of marble for building purposes."

Pictured above at the presentation at the Octagon in Washington are left to right—L. P. Hamilton and F. E. McEachern of the State Budget and Control Board; W. A. Carlisle, Charles M. Nes, Jr., 66-67 President of the AIA; L. M. Wolff and Robert French, project architect for the award winning building. An accompanying \$1000 scholarship has been awarded by LBC & W to Dennis Ryan, a Clemson architecture graduate who is doing graduate study in urban design at the University of Pennsylvania.

the Clemson Architectural Foundation. In 1939 he organized the firm of Halsey and Cummings which merged with The John McCrady Co., Engineers, in 1957. Besides architecture, he was also an authority on peat which he produced on his Creighton Hill Plantation in Colleton County. He served as president and chairman of the board of the Peat Producers Association of the U. S., attending the International Peat Congress in Leningrad, Russia in 1963. His usual motion for adjournment was a highlight of SCAIA business meetings.

Louis M. Wolff was one of 82 architects who were made Fellows of the American Institute of Architects during the annual convention of the AIA in New York this May. Director of professional services in the Columbia firm of Lyles, Bissett, Carlisle and Wolff, he received architectural degrees from Clemson and the University

of Pennsylvania. Active in professional affairs, he has been president of the SCAIA and vice chairman of the hospital advisory council of the State Board of Health. His Fellowship was awarded for "notable contribution in design." Election to the College of Fellows is, with the exception of the Gold Medal, the highest honor which the Institute can confer on its members and is based on six categories—design, education, service to the profession, public service, science of construction, and literature. The Jury of Fellows makes the annual selections from nominations proposed either by executive committees of local chapters, five Fellows or ten or more corporate members. Other members of the South Carolina Chapter who have been made Fellows include the late Charles C. Wilson 1914, Albert Simons and the late Nat G. Walker 1934, Samuel Lapham 1937, the late Heyward S. Singley and G. Thomas Harmon III 1956, Harlan E. McClure 1962, and William G. Lyles 1964.

Left Holding The Bag

The frustration which often haunts the architect was sadly expressed in this letter received by the REVIEW recently in answer to a request for material for publication.

"About the _____, it was very kind of you to remember me in this connection; but, sad-o-sad to tell-o, the "archi-teck for this job now is quite another fellow.

They went off on a package deal and left me holding the bag—a rather large bag of plans, models, and renderings; however, not the rendering you probably saw in the paper recently—that one wasn't ours.

Seems that we haven't done much to help the war on ugliness. When we produce something we think is good, we either don't get it built or they build it and then don't know where to stop—the client keeps on garnishing the job as in the case of our _____ building witness the signs, benches, etc.

Hope one of these days we'll have something for you that neither you nor I will be ashamed of."

Architects Exhibit In Greenville

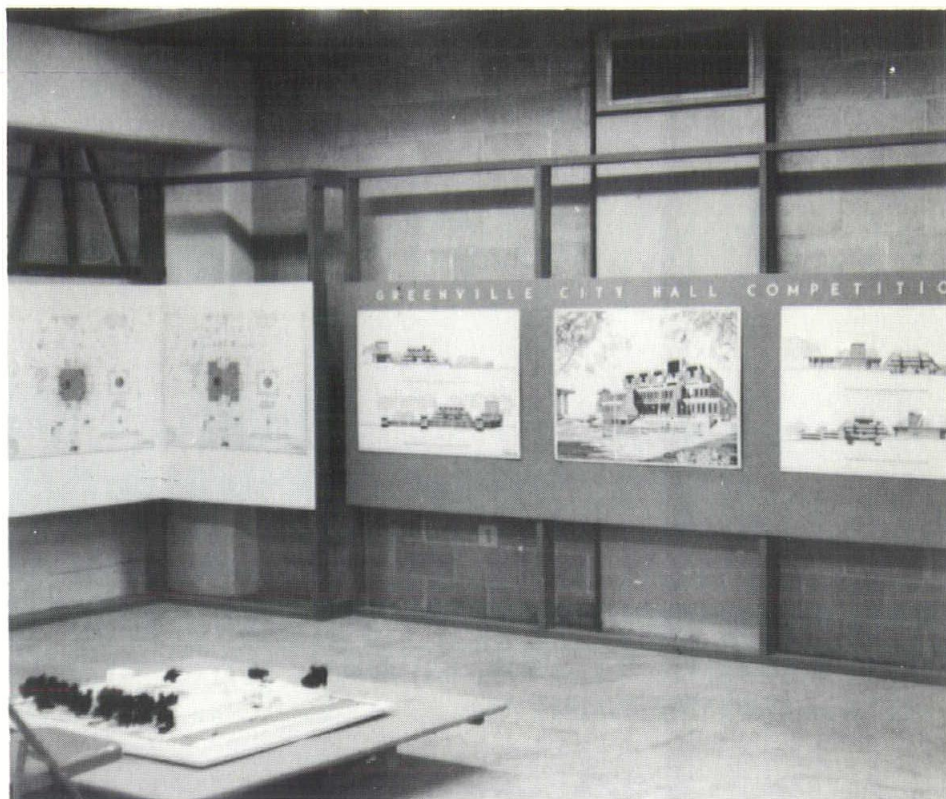
Greenville architects have gained the reputation of being most active in matters, both professional and civic. An example of this activity is seen each spring in the Annual Greenville Arts Festival. This year, as in the past, the Greenville Council of Architects has contributed "know-how" and talent by having one of its members, James R. Lawrence, on the steering committee in charge of design and layout for the over-all arrangement of exhibits, performances and other functions. Along with the responsibility for over-all design, the Council had an area for exhibiting the works of its members of approximately four thousand square feet divided into three areas. The first of these areas consisted of two thousand square feet and was devoted to the display of renderings, photos, plans, and models of completed and proposed projects. These projects ranged from mail boxes to multi-story buildings.

The second area of exhibition space was devoted to the new Greenville City Hall design (Review 1/67). This was shown by the use of drawings submitted in the competition for the design of the Municipal Building and also by a study model prepared by the winning architects, J. E.

Sirrine Company, during their planning.

The third area of approximately one thousand square feet displayed a twenty-seven panel exhibit produced by the A.I.A. entitled "Design for Cities: Yesterday, Today and Tomorrow." This exhibit traces

the history and social purposes of urban design from early Grecian civilization through projects proposed for the future in the United States. It is made up of about 100 photographs and maps accompanied by a written text.



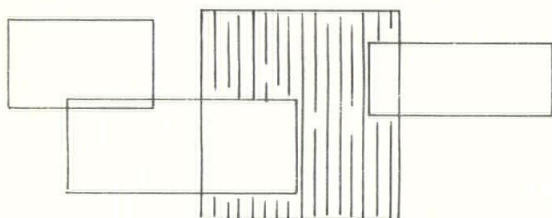
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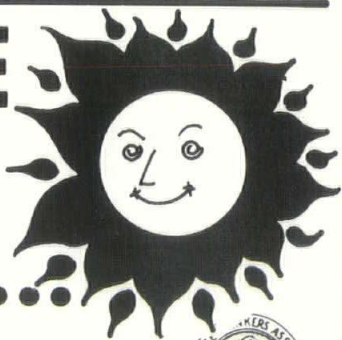
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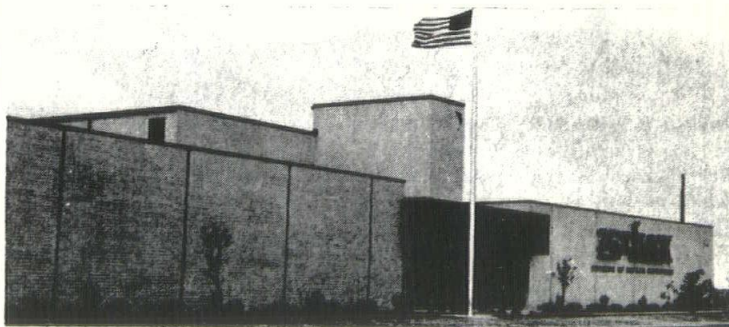
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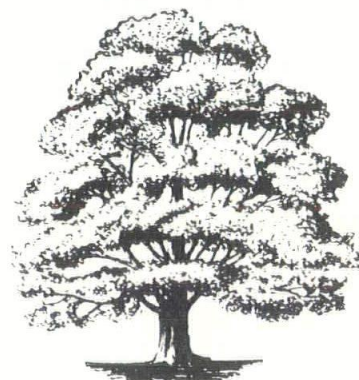
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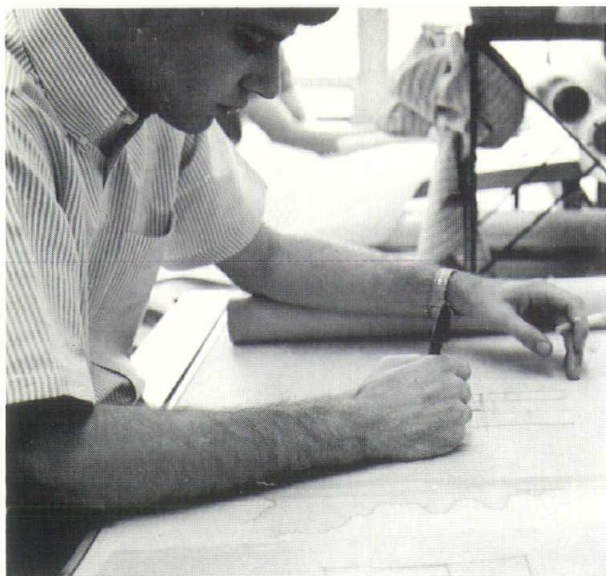
Railroad Avenue - Phone 245-2456 - P. O. Box 504
Bamberg, South Carolina

CLEMSON EDUCATION AND PRACTICE



In the master plan of Clemson University coordination between architectural practice and architectural education for the past decade has resulted in an increase in compatibility between buildings and in campus function. The School of Architecture has the permanent and continuing task of revising the master plan

and of projecting future building groupings. The buildings themselves are designed by various architectural firms with design reviews by Dean Harlan McClure. On the following pages the latest of these buildings are presented along with the new curricula of the school and some student projects, in the school.



NEW DIRECTIONS — THE ARCHITECTURAL CURRICULA AT CLEMSON

Harlan E. McClure, F.A.I.A.
Dean, Clemson School of Architecture
Secretary, National Architectural
Accrediting Board

Later in the year the American Institute of Architects will publish the results of a major two year research project dealing with the education of the architect. A brief summary of some of the salient features of this study were revealed to the A.I.A. Convention in New York City. Some of us in architectural education have been involved in exploration and development over the past ten years which has brought us quite logically to a point of change which reflects our gradual evolution. Several schools, including our own, have developed new curricula independently from each other and based on local studies and conclusions. Yet an astonishing pattern of consistency is occurring in these programs. They very closely parallel the recommendations being formulated by the A.I.A. Research Group.

A kaleidoscopic essay in the March issue of **Progressive Architecture** discussed some of these happenings, picturesquely styled "The Revolution in Architectural Education." I would like to explain the changes in the curricula which are being implemented with the class now entering Clemson and relate these to the larger educational picture.

We have become increasingly concerned with our growing responsibilities in education for our profession in its manifold aspects. It seems to us the job requires careful continuing critical study. Relative success and failure need to be measured and assessed. We believe that our admissions procedures as well as our academic and interne programs must take the following factors into account:

- (1) The aspirant admitted to the school must be strongly motivated or he will not succeed in the academic realm or in the profession itself. Several criteria, including personal

interviews, are used to identify motivation.

- (2) To serve our profession, in each of its several areas, one must have certain natural aptitudes. These can be measured to a fair extent from academic records in secondary school and in prior college work. We are working with the Educational Testing Service at Princeton on Architectural Aptitude Testing, and require the examination of all applicants. It is conducted at Clemson several times each year.
- (3) A broad, strong general education is essential to the architect and should both precede and accompany professional studies. This cannot be adequately accomplished in a five-year curriculum.
- (4) In addition to areas normally covered, professional education must include such other studies as behavioral sciences and building economics. The range of disciplines encompassed in professional practice in long range prognosis suggest development of graduate studies for specialist skills beyond generalist capability. Many clues may be found in the history of medical education.

For the past twelve years we have sought to choose and educate persons for the architectural profession within a standard five-year program. As that program has developed, despite ever more sophisticated admissions criteria, the more demanding curriculum requirements and higher required standards of performance have virtually extended the program to six years duration. Most of our graduates have actually required that amount of time to complete the professional degree.

We have regretted the lack of an opportunity to award a preliminary non-professional degree to persons not permitted to complete the course due to lack of appropriate professional aptitudes. For all of these reasons the following six-year program was presented to the architectural faculty last fall. After study and modification it was adopted by the school faculty and through usual channels by the general university faculty and administration. It is now to be immediately implemented. Several new faculty members have been added to the staff of the School of Architecture to further enrich the school's personnel in the area of city planning. The two-year graduate program in city planning is to be offered to persons who have completed the pre-architectural degree and wish to further their studies in this area and also to students with appropriate educational background and baccalaureate degrees in the areas of civil engineering, economics, landscape architecture, law, political science, or sociology. Such students may enroll in the graduate program providing they meet certain standards of quality. Candidates entering the curriculum from a non-design discipline will be required to take a special preliminary course designed for their needs and accordingly may be excused from other courses in which they have previously achieved proficiency.

The tremendous number of vacancies in planning positions in governmental agencies and in private firms throughout the nation has made the immediate development of the planning curriculum essential. As the Clemson School of Architecture has offered strong courses in planning and urban design for the past twelve years, this expansion is both logical and proper.

For the past five years the School of Architecture has had the prime responsibility for an inter-disciplinary five-year curriculum in building construction designed to educate potential building contractors. This course provides training for key positions in the building industry through its educational sequences including general studies, management, construction science, and relative technique discipline. As there is presently a tremendous demand for graduates of this curriculum, there will be no changes in this curriculum at the present time.

The School of Architecture is indebted to the Clemson Architectural Foundation for its continued support of the program. As each new development unfolds, the Foundation achieves an even more important place. We take pride in entering the thirteenth year of foundation history this fall. The school will have 400 students and thus be in a stronger position to serve the professions of architecture, city planning, and building technology.

1967-68

CLEMSON UNIVERSITY

ADMINISTRATION

Robert Cook Edwards, B.S., LL.D.
President

Victor Hurst, B.S., M.S., Ph. D.
Vice President for Academic Affairs

THE SCHOOL OF ARCHITECTURE FACULTY

Harlan Ewart McClure, A.B., B. Arch., ARK,
K. K. H., M.Arch., FAIA
Dean, School of Architecture; Professor
and Head Department of Design Studies.

Emery A. Gunnin, B.S., P.E., AIA
Executive Officer, School of Architecture: Professor.

Cesare Fera, Ph.D.
Visiting Professor; SP. SEM Professor
and Head, School of Architecture, University of Genoa (Italy).

Harold N. Cooledge, Jr., B.S., B.Arch., M.A.,
Ph.D.
Alumni Professor Art and Architectural
History.

George C. Means, Jr., B. Arch., M. Arch.,
AIA
Professor, Secretary Department of Design
Studies.

Joseph L. Young, B. Arch., M. Arch., AIA
Professor.

Robert H. Hunter, B.S., M.F.A.
Associate Professor and Head Department of Visual Studies.

Lamar Brown, B. Arch., P. E., AIA
Associate Professor and Secretary Department of Building Science.

Vernon S. Hodges, B. E., M. Arch.
Associate Professor and Secretary Department of Art and Architectural History.

John Edward Pinckney, B. Arch., M.L.A.
Associate Professor and Secretary Department of Planning Studies.

Richard T. Reep, B. Arch., M. Arch., AIA
Associate Professor.

Horace H. Williamson, B.E., B. Arch., M. Arch., AIA
Associate Professor.

Ralph Knowland, B. Arch., M.B.A., R.A.I.C.
Associate Professor.

John T. Acorn, B.A., M.F.A.
Associate Professor.

Ireland Regnier, B.F.A., M.F.A.
Associate Professor.

Joseph W. Wells, B. Arch., Ecole de Beaux
Arts, AIA
Associate Professor.

Kirk R. Craig, B.S., B. Arch., M. Arch., AIA
Lecturer

Frank P. Morris, P.P., A.G.C.
Lecturer

Kenneth J. Russo, B. Arch., M. Arch., AIA
Assistant Professor.

Anders J. Kaufmann, B. Arch., M. Arch.,
AIA
Assistant Professor, Chairman, Architectural Research.

James R. Washburn, B. Arch., M. Arch., AIA
Assistant Professor.

William F. Nahory, B. Arch., M.C.P., AIA,
A.I.P.
Assistant Professor.

Samuel Wang, B.F.A., M.F.A.
Assistant Professor.

L. Kapelis, B. Arch., D.C.P., M. Arch.,
A.R.A.I.A.
Assistant Professor.

Kenneth Carpenter, B. Arch., M. Arch.
Assistant Professor.

Majorie Schreiber, B.A., B.D.
Instructor.

Jeremy Pike, B. Arch., A.R.A.I.A.
Teaching Assistant.

J. Thomas Pflieger, B. Arch.
Teaching Assistant.

Charles Bischoff, B. Arch., R.A.
Teaching Assistant.

Gary Graham, B. Arch.
Rudolph Lee Gallery Curator.

Maxine Trively, A.B.
Librarian.

Carole McAlister, B.A.
Assistant Librarian and Slide Curator.



**CURRICULUM TO IMPLEMENTED
WITH THE ACADEMIC YEAR 1967-68
Undergraduate**

1st Year

Arch. 101 Intro. Art and Arch.	3
Engl. 101 English Composition	3
Hist. 203 History of Civilization	3
Math 106 Anal. Geom., Cal. I	4
Mod. Lang. 101 Elementary Lang.	3
AS or MS Basic	1
	17

Spring

Arch. 102 Intro. Art and Arch.	3
Engl. 102 English Composition	3
Hist. 204 History of Civilization	3
Math 205 Anal. Geom., Cal. II	4
Mod. Lang. 102 Elementary Lang.	3
AS or MS Basic	1
	17

2nd Year

Fall

Arch. 205 Visual Arts	2
Arch. 253 Basic Design I	4
Engl. 203 Survey of Engl. Lit.	3
Math 206 Anal. Geom., Cal. III	4
Mod. Lang. 201 Intermediate Lang.	3
AS or MS Basic	1
	17

Spring

Arch. 206 Visual Arts	2
Arch. 254 Arch. Design II	4
Engl. 204 Survey of Engl. & Am. Lit.	3
Mod. Lang. 202 Intermediate Lang.	3
Physical Science	4
AS or MS	1
	17

3rd Year

Fall

Arch. 315 Arch. History I	3
Arch. 353 Arch. Design III	5
EM 201 Statics	3
Elective Group I	6
	17

Spring

Arch. 316 Arch. History II	3
Arch. 354 Arch. Design IV	5
EM 304 Mech. of Materials	3
Elective Group II	6
	17

4th Year

Fall

Arch. 305 Visual Arts	2
Arch. 415 Arch. History III	3
Arch. 453 Arch. Design V	5
CE 308 Structural Analysis	4
Engl. 301 Public Speaking	3
	17

Spring

Arch. 306 Visual Arts	2
Arch. 416 Arch. History IV	3
Arch. 454 Arch. Design VI	5
CE 416 Structural Design	4
Elective Group III	3
	17

B.A. (pre-Architecture) = 136 Total Semester Credits

A year of controlled office internship will be required between 4th & 5th years, world conditions permitting.

**Graduate
Fall**

5th Year	
Arch. 811 Town Planning Theory	3
Arch. 853 Grad. Arch. Design	8
Arch. 875 Mechanical Plant	2
Arch. 881 Office Practice	2
Arch. 891 Arch. Struct. Seminar	2
	17

Spring

Arch. 31 Town Planning Theory	3
Arch. 854 Grad. Arch. Design	8
Arch. 876 Mechanical Plant	2
Arch. 882 Office Practice	2
Arch. 892 Arch. Struct. Seminar	2
	17

6th Year

Fall

Arch. 855 Thesis Research	2
Arch. 857 Grad. Arch. Design	10
Arch. 861 Economics Seminar	3
Arch. 893 Arch. Struct. Seminar	2
	17

Spring

Arch. 858 Architectural Thesis	17
	17

1st Professional Degree, Master of Architecture = 68 Additional Graduate Credits

**CURRICULUM FOR BUILDING
CONSTRUCTION FOR 1967-68**

1st Year

Fall

Arch. 141 Elem. of Bldg. I	5 (3,6)
Arch. 101 Intro. to Art & Arch. I	3 ()
Math 106 Anal. Geom. Cal. I	4 (5,0)
Engl. 101 Engl. Composition	3 (3,0)
AS or MS Basic	1 (2,1)
	16

Spring

Arch. 142 Elem. of Bldg. II	5 (3,6)
Arch. 102 Intro. to Art & Arch. II	3 ()
Math 205 Anal. Geom., Cal. II	4 (5,0)
Engl. 102 Engl. Composition	3 (3,0)
AS or MS Basic	1 (2,1)
	16

2nd Year

Fall

Arch. 241 Elem. of Bldg. III	4 (2,6)
Math 206 Anal. Geom., Cal. III	4 (5,0)
Engl. 203 Survey of Engl. Lit.	3 (3,0)
Econ. 201 Prin. of Economics	3 (3,0)
CE 200 Elem. Surveying	2 (1,3)
AS or MS Basic	1 (2,1)
	17

Spring

Arch. 242 Elem. of Bldg. IV	4 (2,6)
Physical Science	4 (5,0)
Engl. 204 Survey of Engl.&Am. Lit.	3 (3,0)
Econ. 202 Prin. of Economics	3 (3,0)
CE 203 Top. Surveying	1 (0,3)
AS or MS Basic	1 (2,1)
	16

3rd Year

Fall

Arch. 341 Bldg. Construction	4 (2,6)
Arch. 315 Arch. History I	3 (3,0)
EM 201 Statics	3 (3,0)
Acct. 201 Prin. of Accounting	3 (3,0)
Engl. 301 Public Speaking	3 (3,0)
	16

Spring

Arch. 342 Bldg. Construction	4 (2,6)
Arch. 316 Arch. History II	3 (3,0)
EM 304 Mech. of Materials	3 (3,0)
Acct. 202 Prin. of Accounting	3 (3,0)
Psych. 301 Gen. Psychology	3 (3,0)
CE 299 Digital Computation	1 (0,3)
	17

4th Year

Fall

Arch. 445 Construction Management	2 (2,0)
Arch. 415 Arch. History III	3 (3,0)
CE 308 Structural Analysis	4 (3,3)
Geol. 406 Eng. Geology	3 (2,3)
Soc. 201 Intro. Sociology	3 (3,0)
Elective	3
	18

Spring

Arch. 446 Const. Management	2 (2,0)
Arch. 416 Arch. History IV	3 (3,0)
CE 416 Structural Design	4 (3,3)
CE 331 Soil Mechanics	3 (2,3)
Soc. 351 Industrial Sociology	3 (3,0)
Elective	3
	18

5th Year

Fall

Arch. 541 Adv. Bldg. Const.	8(3,15)
Arch. 575 Mech. Plant	2 (2,0)
Econ. 322 Leg. Env. of Bus.	3 (3,0)
Elective	3
	16

Spring

Arch. 542 Adv. Bldg. Const. (Thesis)	8(3,15)
Arch. 576 Mech. Plant	2 (2,0)
IM 301 Cost Accounting	3 (3,0)
Elective	3

16

Total hours 166; without military 162

CITY PLANNING CURRICULUM Graduate

1st Year

Fall

CP 811 Intro. to City Planning	3 (3,0)
CP 853 Intro. to Planning Studio	5(0,15)
CP 821 Urban Social Structure	3 (3,0)
Math Sem. Quantitative Methods in Planning	2 (2,0)

13

Spring

CP 812 City Planning Theory	3 (3,0)
CP 854 Planning Studio II	5(0,15)
CP 831 Economics of Land Planning	2 (2,0)
CE 712 Urban Transportation Plan.	3 (3,0)

13

Summer: Required City Planning Office Internship = 4 cr.—CP 953

Spring

CP 842 Gov. & Planning Law	3 (3,0)
CP 822 Urban Systems	3 (3,0)
CP 863 Planning Thesis	6(0,18)
CP 872 Planning Administration and Practice	2 (2,0)

14

Sixty Units required for the Master of City Planning Degree

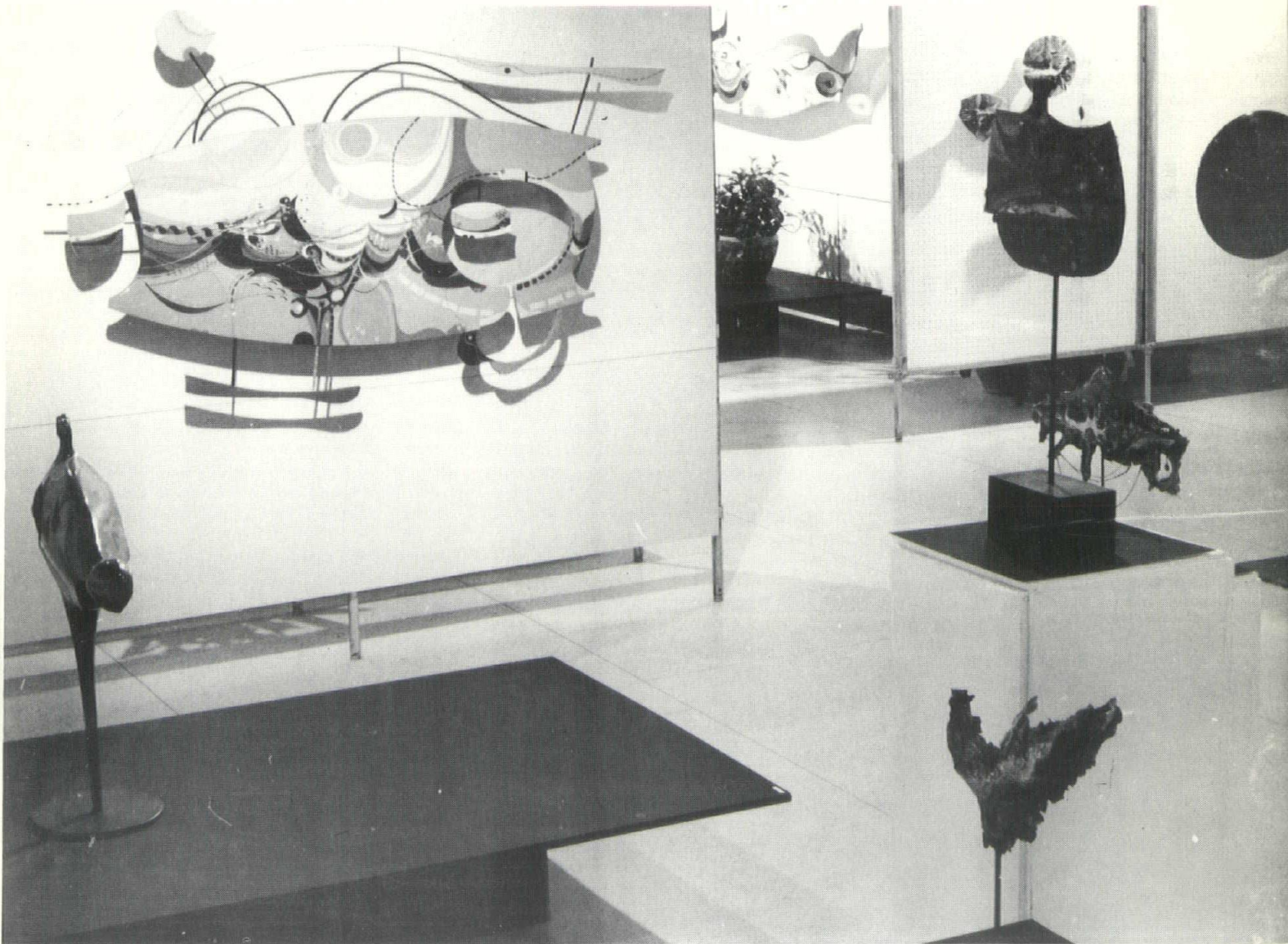
2nd Year

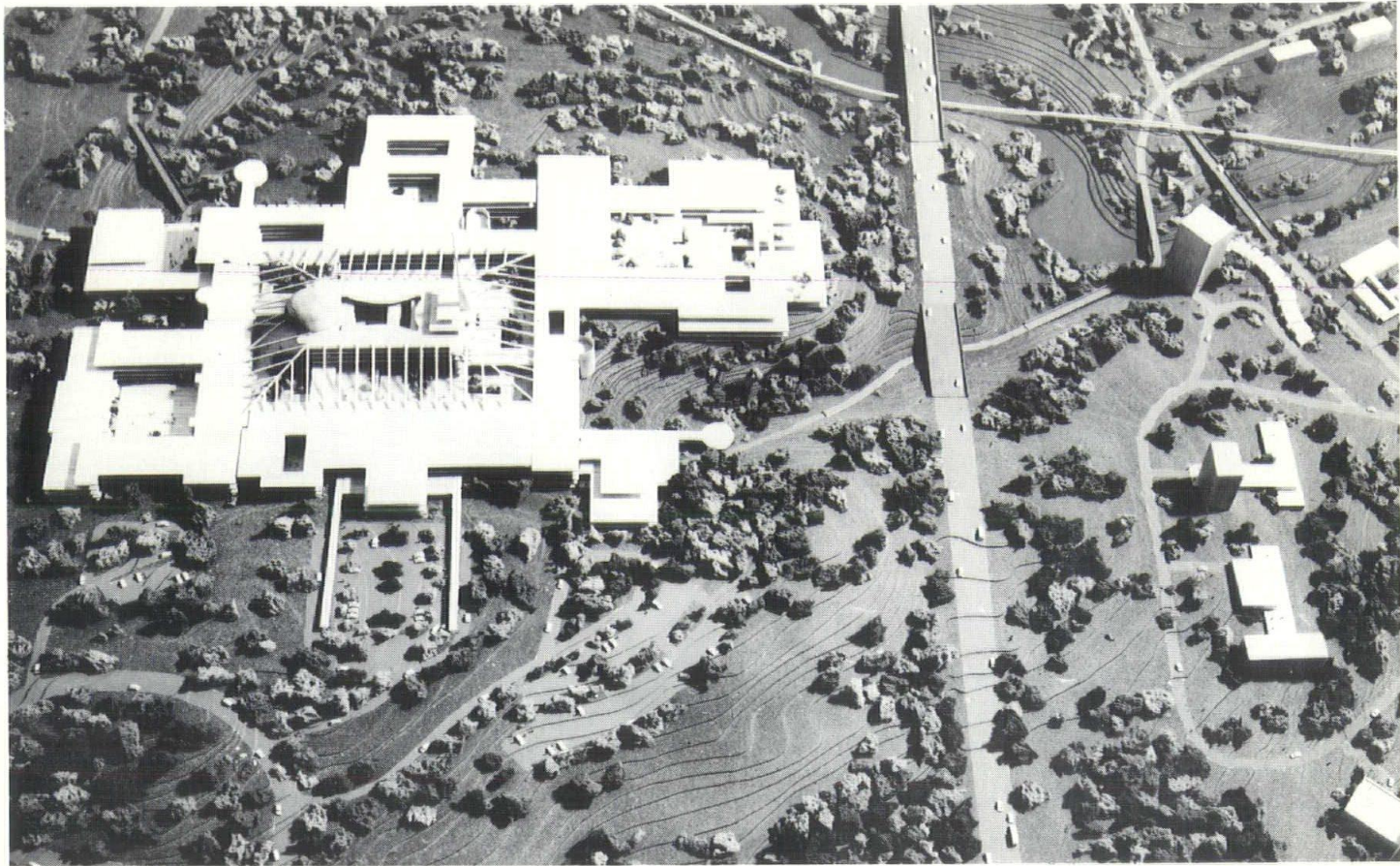
Fall

CP 841 History of Planning	3 (3,0)
CE 419 General Photogrammetry	3 (2,3)
CP 863 Planning Studio III	3 (0,9)
CP 871 Planning Analysis	2 (2,0)

11

An exhibit of environmental painting-sculpture by Robert Hunter in the Rudolph Lee Gallery. Associate Professor Hunter has just returned from a year as a Duke Foundation Fellow to receive his appointment as Head of the Department of Visual Studies.





THE EDUCATIONAL PARK — A VERTICAL STUDIO PROJECT

George C. Means, Jr., A.I.A.
Professor of Architecture
Senior Vertical Studio Master

A Vertical Studio proposal for an educational park in a compact urban area of Greenville, South Carolina, was undertaken by the group under the direction of Associate Professor Edward Pinckney. This project accommodated the entire complex within the framework of the megastructure.

The Vertical Studio Design Faculty meets each year for planning several months before the term. Last year it expressed the desire to have the Vertical Studio Project during 1967 undertake studies that would improve the students' knowledge of passing problems in the field of education. After a preliminary meeting with Dean McClure, the faculty felt that a consultant should be retained through the Clemson Architectural Foundation for programming a design problem dealing with the educational needs of the future. Dr. Stanton Leggett, partner in the well-known firm Englehardt, Englehardt, and Leggett, educational consultants from New York, was invited to come to Clemson to speak informally with the Vertical Studio Design Faculty concerning this proposed educational project.

Dr. Leggett felt that there were two areas that needed investigation, one at the community college level and one at the public school level. After long discussions it was

recommended that the Vertical Studios proceed with the design of a new concept, the educational park. This design project (it has yet to be tested and confirmed by many educators) offered an area for real exploration. The concept includes all of the public school educational facilities from kindergarten through high school and a two year community college. Elementary and high school ages were divided into six lower schools, three middle schools, and one upper school plus a two year community college. An educational park, in the view of Dr. Leggett and other educators, is essentially a non-graded experiment in education. The student progresses at a rate which is commensurate with his demonstrated ability.

In order to fully understand this new education concept, the Vertical Studio Faculty, with the help and sponsorship of the Clemson Architectural Foundation, undertook a major field trip to Florida to visit the only two experimental educational

parks in the United States. One park is located in Fort Lauderdale, and is known as the Nova Educational Experimental Park. It includes all levels of education required in our program. The other is the Melbourne City Educational Facility in Melbourne, Florida, which is experimenting in the upper school aspects of this new educational program.

Nova means innovation. Its very title stimulated our students and the school personnel tried to promote the program to us as we attended classroom activities during an entire typical day. The architectural students, not only saw the educational process but were immersed in the educational program with the Nova students themselves. They saw seven and eight year old students doing things normally reserved for much more mature minds. They witnessed a group of educators dedicated to this laboratory experiment with the young people of Nova. They also discovered many difficulties and unsolved problems in this new innovation and before leaving discussed these with the authors.

At the Melbourne City Educational Fa-

cility a similar experience was had. However this experiment is on a smaller basis than Nova, and is tied in more closely with the normal secondary school system as we know it in South Carolina. The school principal at Melbourne City, Charles Brown, is the father of the whole experimental idea.

The itinerary during the field trip, in addition to visiting the two experimental schools, included visits to Florida Southern College, Cape Kennedy, and St. Augustine.

Upon their return to Clemson the third and fourth year students assigned to each of the five Vertical Studios gave a complete report to the second year students who did not participate due to other academic courses. The younger students also had a special seminar session with Dr. Leggett. All seminar sessions in architecture are difficult to evaluate. The students learned a great deal about education on the field trip. It was now their task to relate this educational knowledge to an architectural solution.

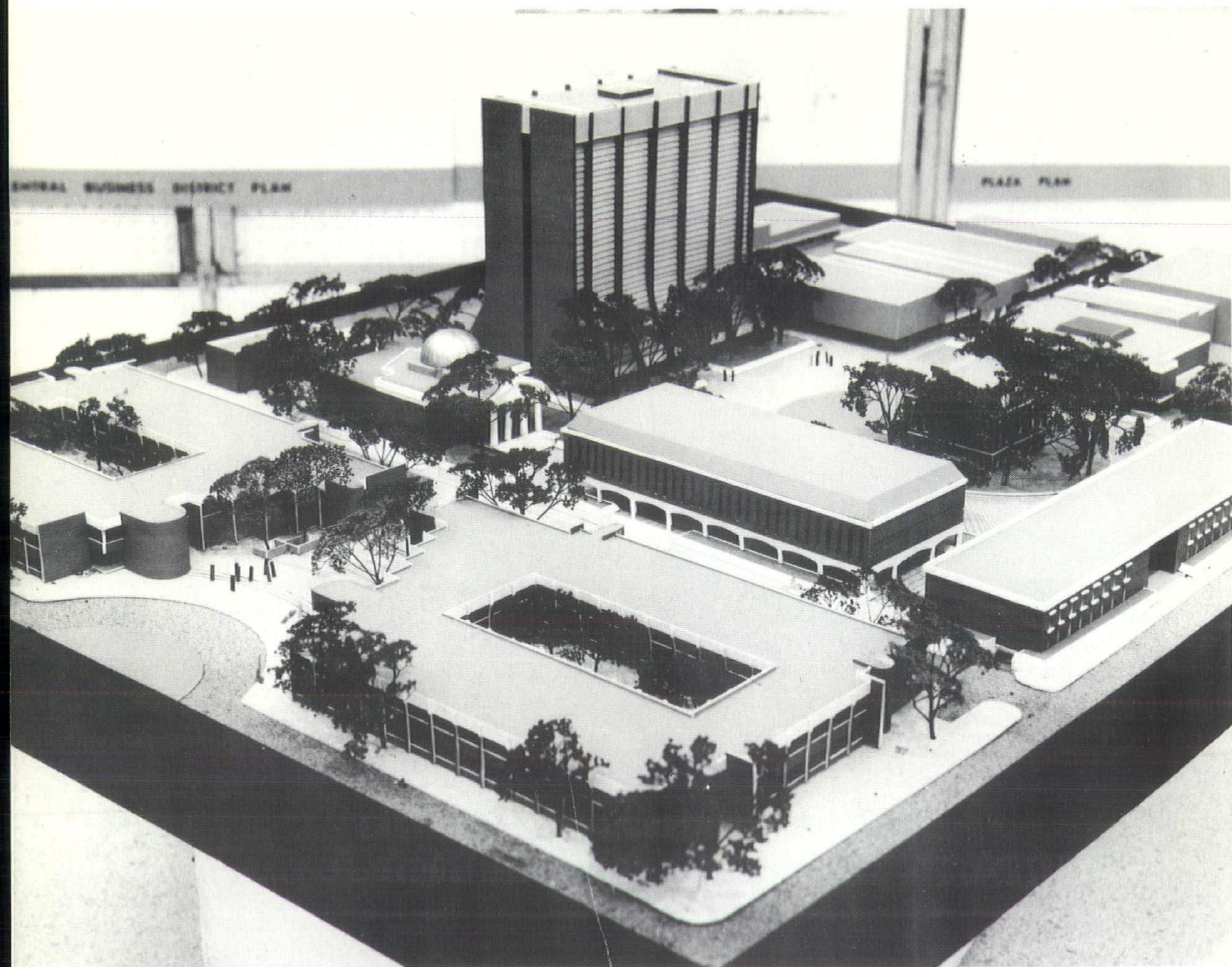
The locations finally approved for the

five studios were in Anderson, South Carolina, an urban site; Spartanburg, South Carolina, a suburban site; Oconee County, a rural site; and two urban educational parks in Greenville, South Carolina.

The Vertical Studio Masters, Professors Williamson, Russo, Cetto, and Pinckney and the author felt that the students' participation in the program was superb. Vertical Studio Projects are exciting and yet difficult to analyze in the beginning phases because size, purpose, and time are all factors. The project was ambitious but could not have been undertaken without adequate preparation, and Foundation support.

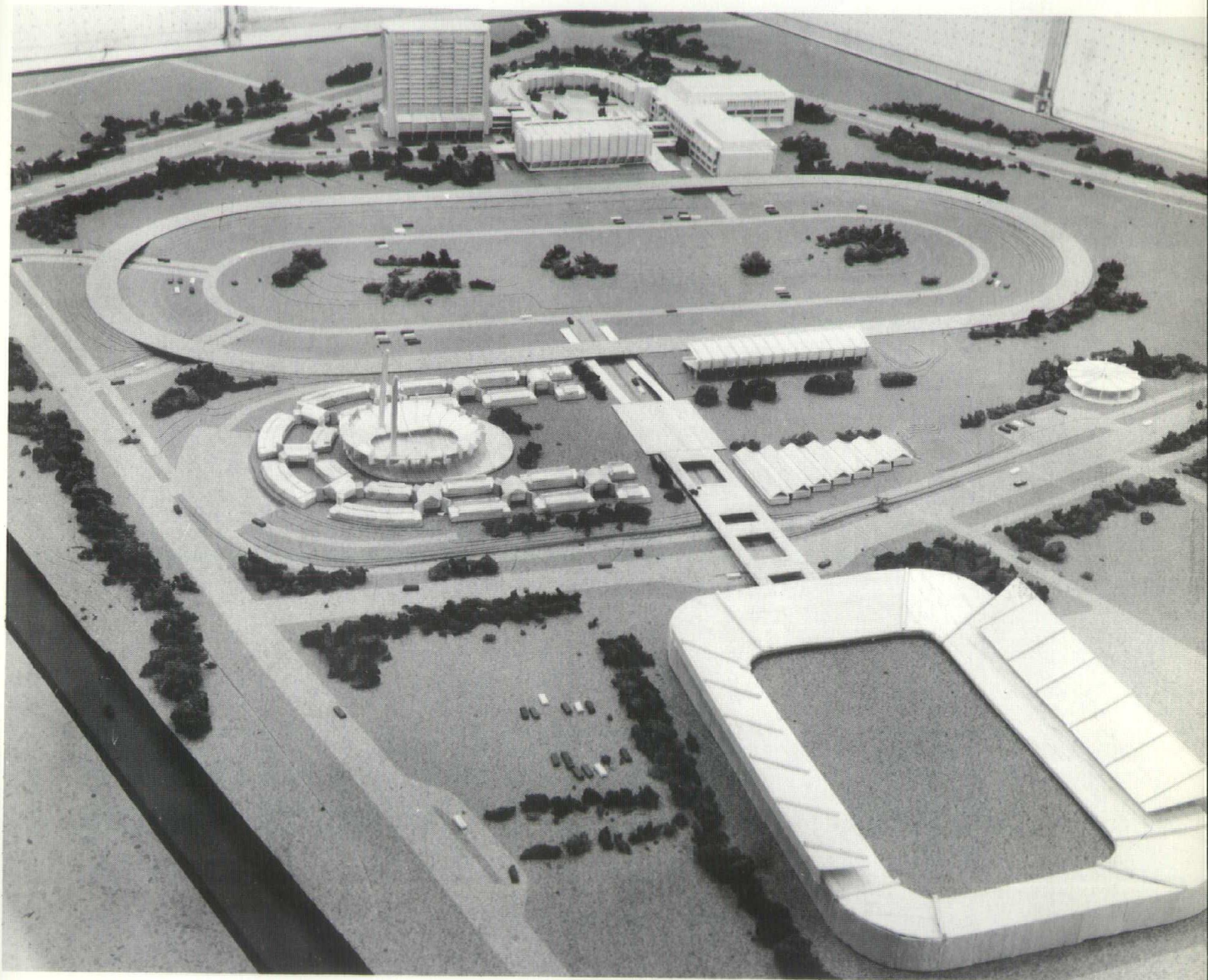
The Vertical Studio conducted by visiting professor, Max Cetto, of Mexico City undertook the study of an educational park on a non-urban site in Oconee County. This complex in the foothills of the Blue Ridge Mountains lies midway between Seneca, Walhalla and Westminster and serves the needs of the entire county.





Fifth-Year Design—A Master Plan For Lancaster

Two groups of fifth-year students in the 66-67 academic year undertook studies of the city of Lancaster, conducting planning surveys and producing this general master plan and design proposal for the urban core. A fourteen-story office building for Springs Mills rises from the center of the business district. The twin structures with open court yards in the foreground are also office buildings. The existing courthouse in the trees in front of Springs building becomes the focus of the Civic Plaza containing a public library, police station and jail.

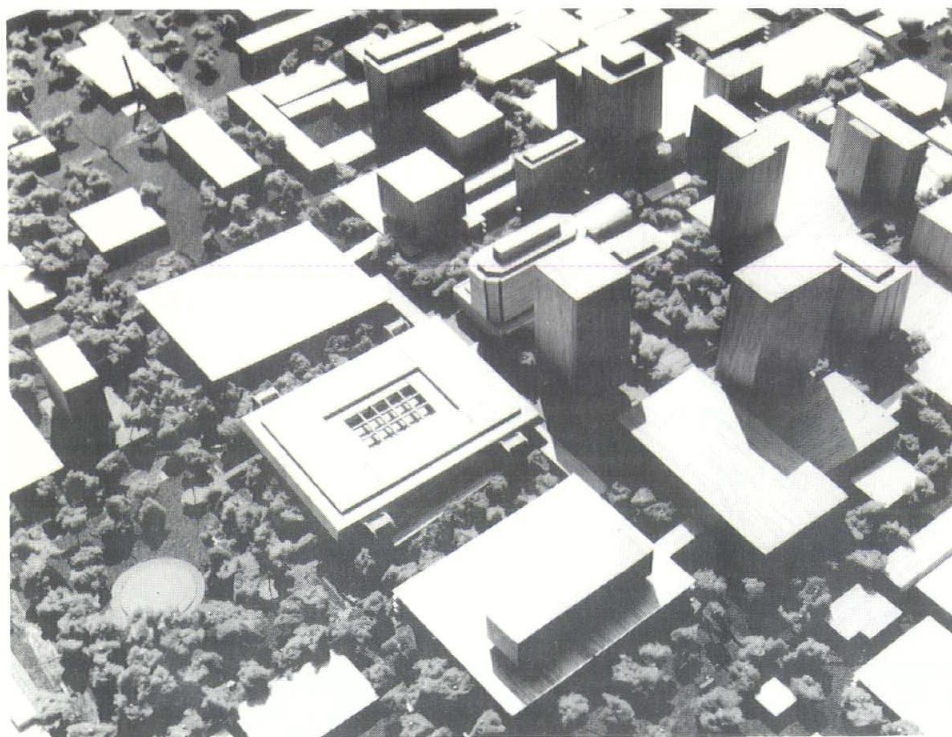


And For The State Fairgrounds

Another group of fifth year students worked on this redevelopment plan for the South Carolina State Fairgrounds. In the foreground is the remodeled football stadium connected by a pedestrian bridge

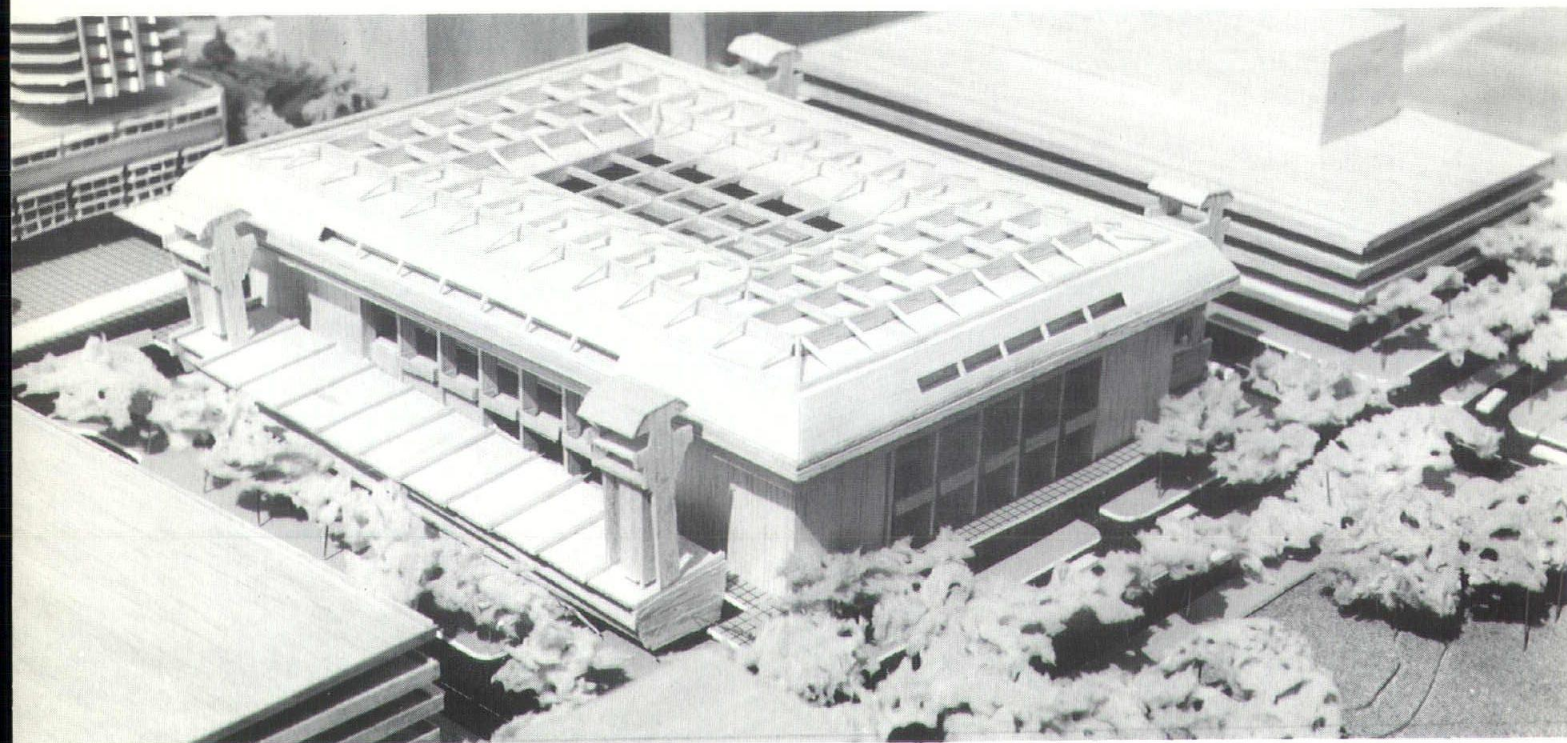
over the street to the State Fair exhibition pavilions dominated by a livestock arena. Beyond is an elevated racetrack inside of which is the parking area for the complex. This is connected by underpasses to the

traffic arteries, amusement areas and the convention center in the background. This center contains a multi-story hotel, convention hall, merchandising mart and group recreational facilities.

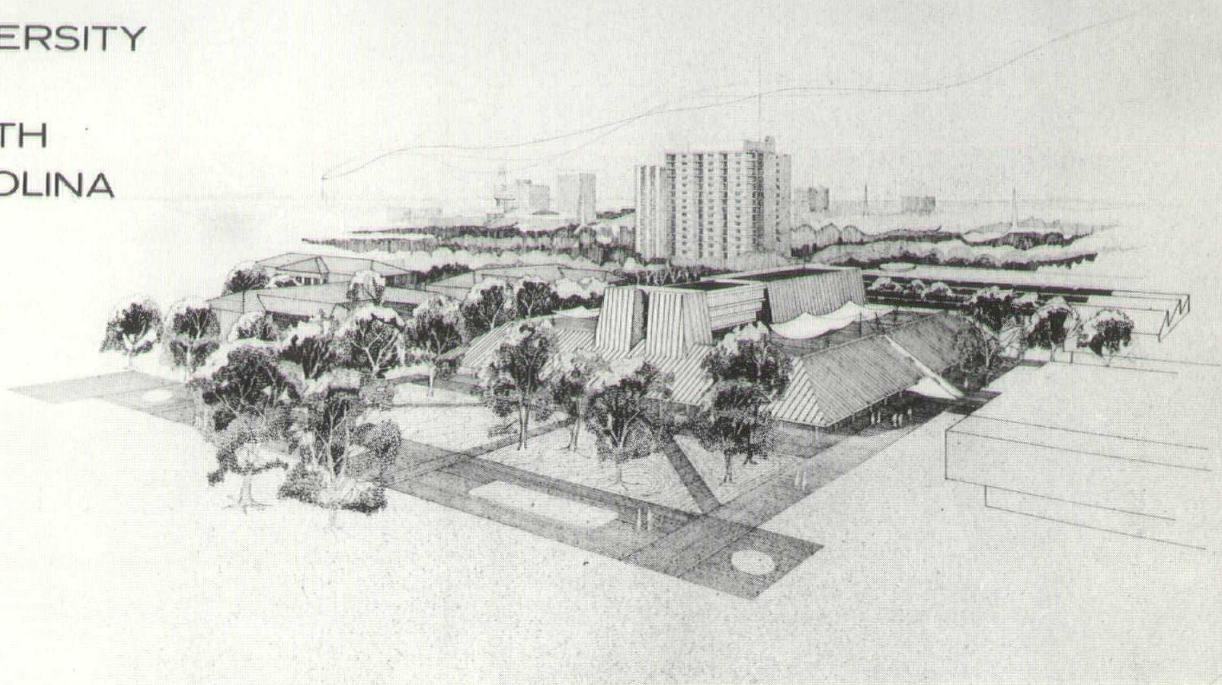


Fifth-Year Thesis — A Convention Hall For Charlotte

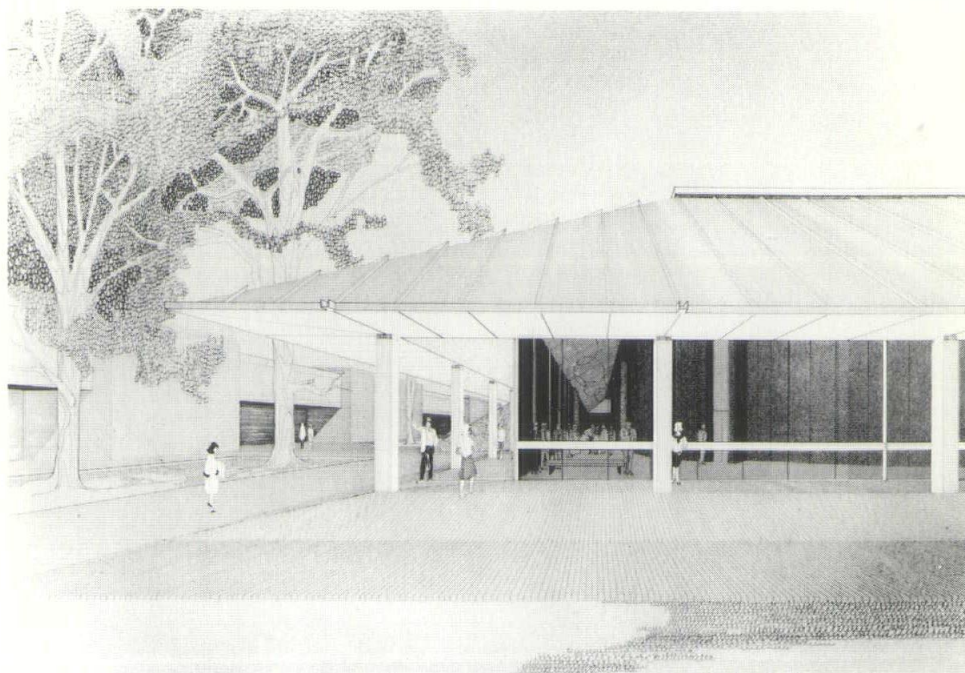
An outstanding fifth-year thesis was this convention hall for Charlotte, North Carolina done by William Parsons, shown as a part of the city redevelopment plan and in detail. A two-way Vierendeel truss system has been used to span the convention hall and the voids in the system house a roof-level office building approached by four independent stairtowers. Parsons is entering the two-year graduate architectural construction program at M.I.T. with National Science Foundation and LBC&W scholarships.

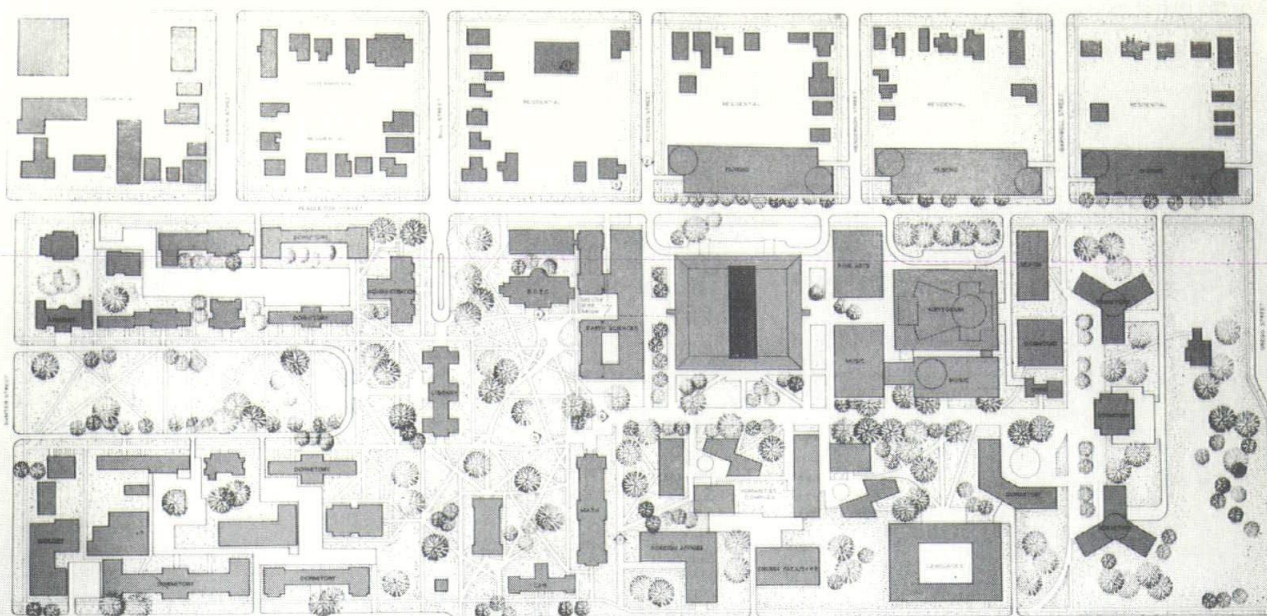


A
 DRAMA
 CENTER
 FOR
 THE
 UNIVERSITY
 OF
 SOUTH
 CAROLINA



This thesis by fifth-year student Lesesne Montieth won an award in the thesis competition sponsored by the National Institute of Architectural Education. Its great sloping metal-covered roof shelters four auditoria of varying shapes and purposes opening onto a continuous exterior corridor, a stagehouse and three floors of classrooms in a cutaway area. Montieth is entering the Graduate School of Architecture at Princeton University this fall.





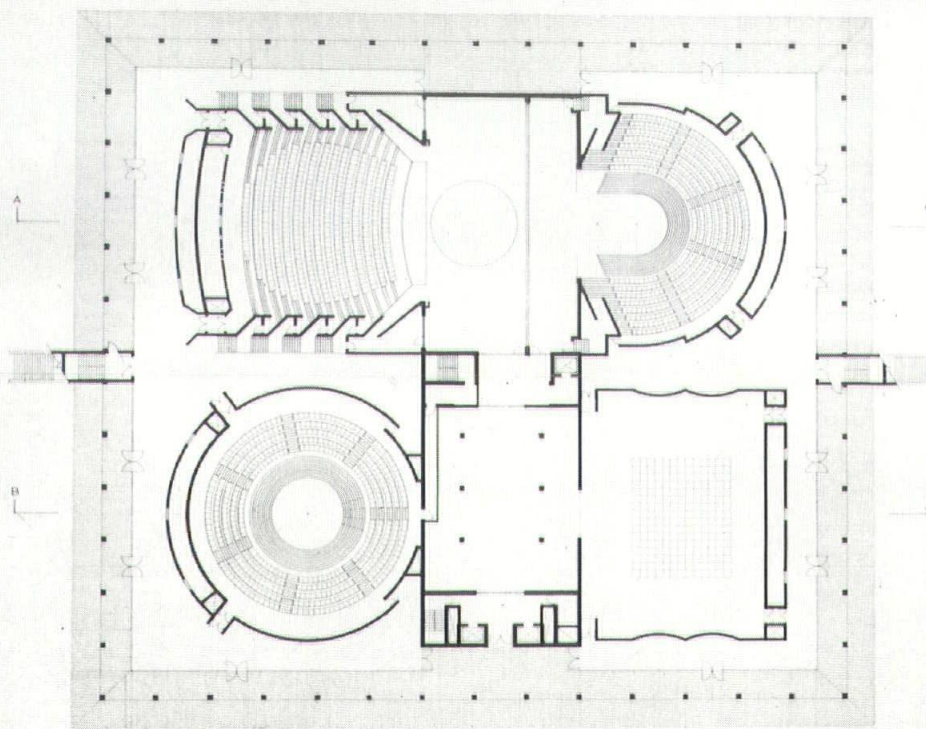
SITE PLAN

SCALE 1" = 100'



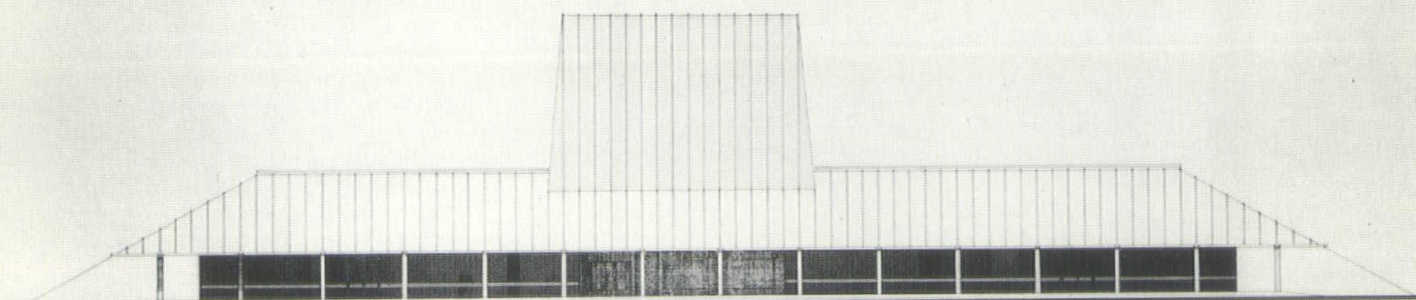
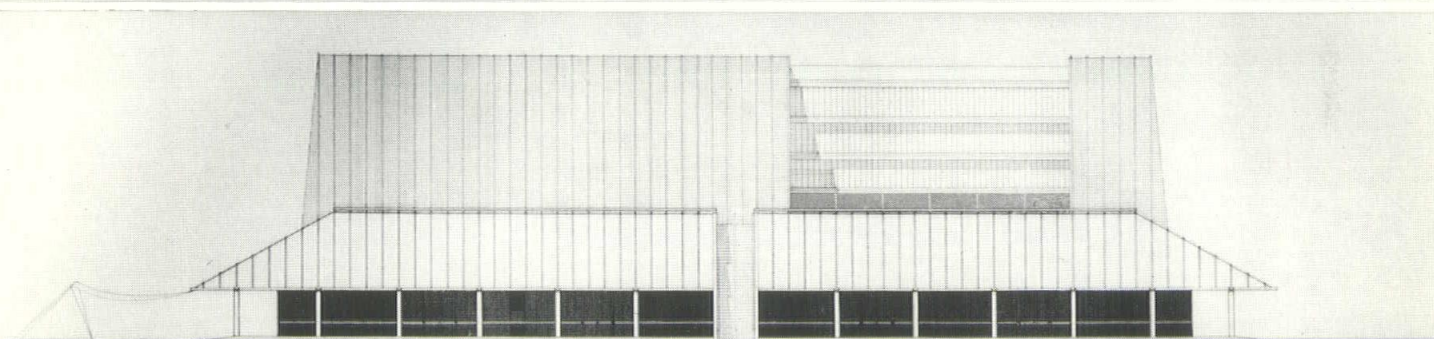
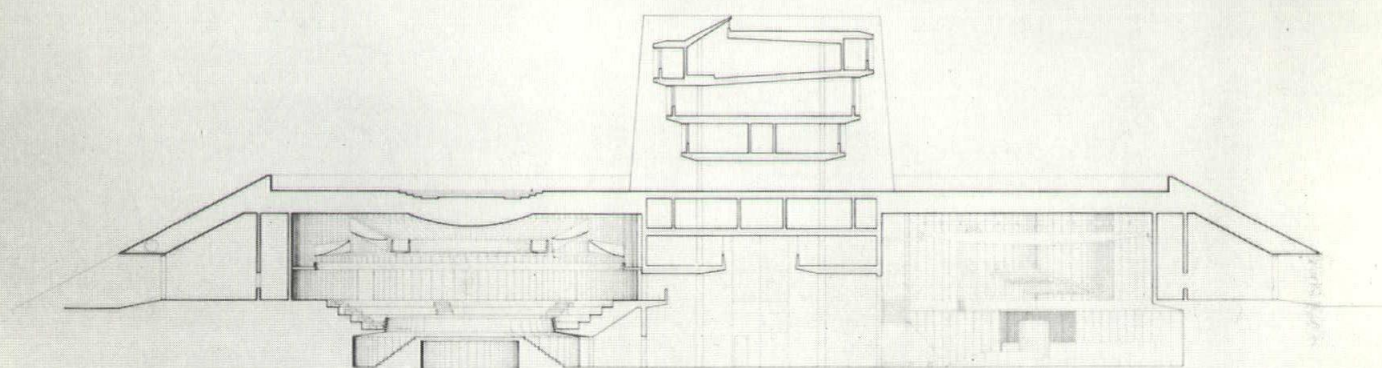
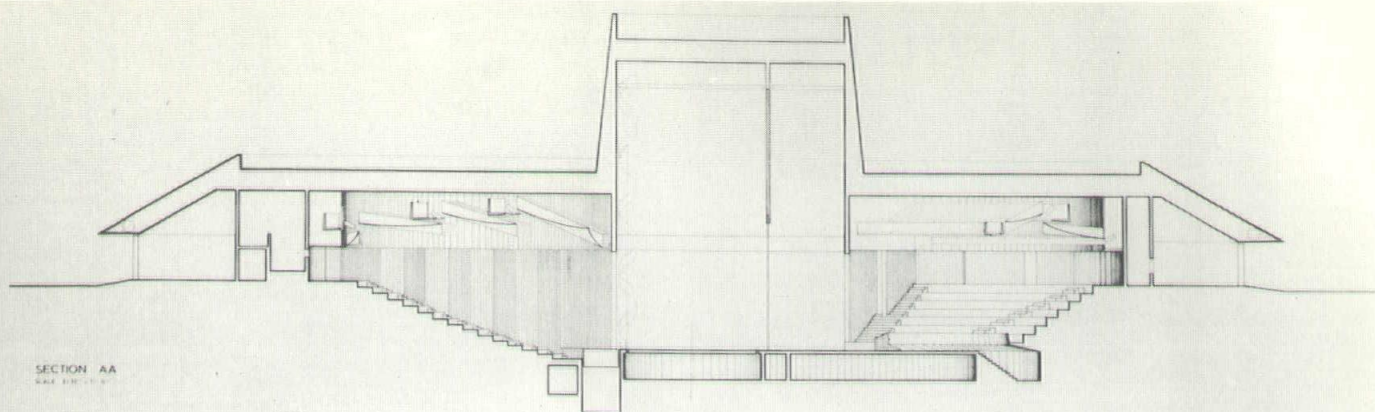
SITE PHOTOGRAPHS

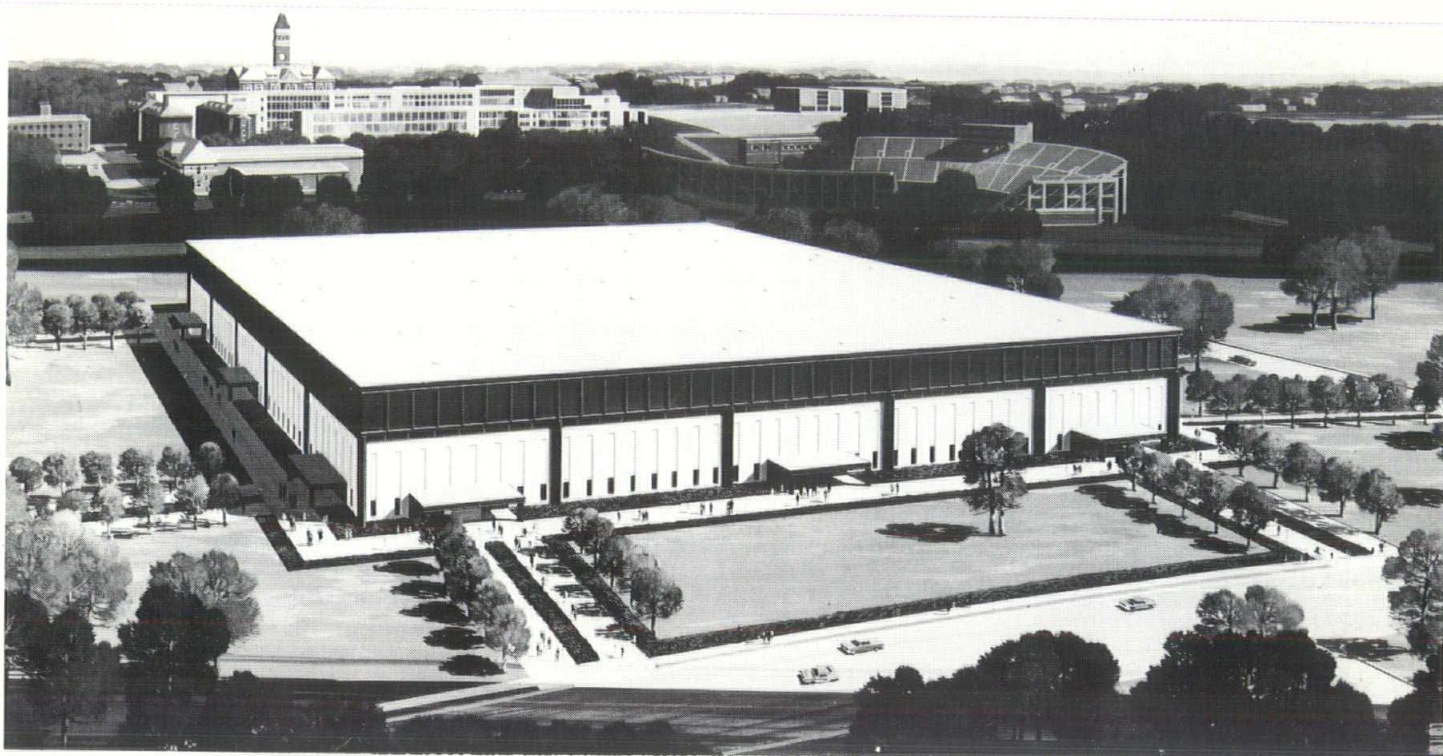
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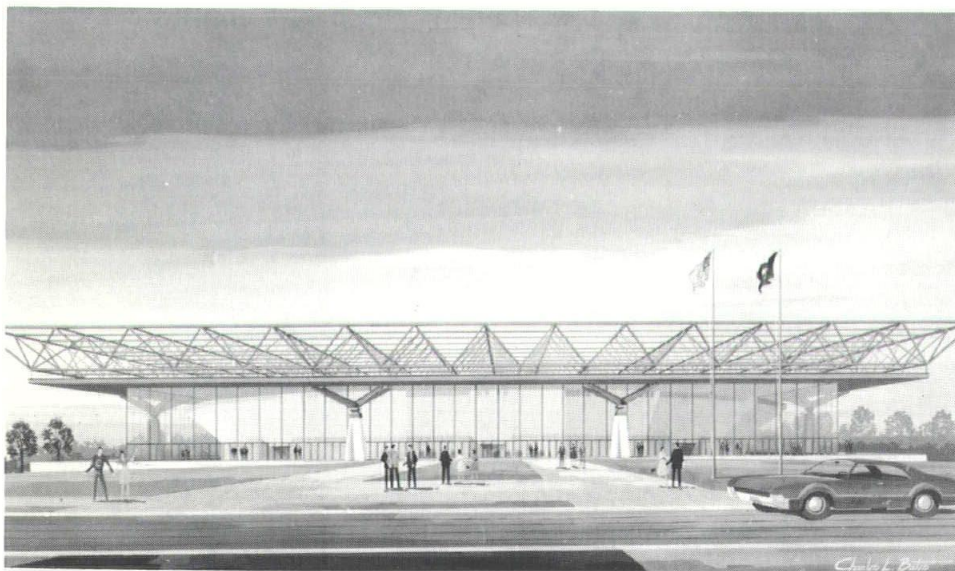
PLAN

SCALE 1" = 100'





A MULTI-PURPOSE AUDITORIUM FOR THE CAMPUS



Littlejohn Multipurpose Auditorium by J. E. Sirrine Company will be a 300 foot by 300 foot square structure located on a large block near Clemson's football stadium. The structure will cost approximately \$3,110,000, not including the seats or air conditioning and is so designed that the air conditioning can be added in the future if necessary. Occupancy is scheduled for June of 1968.

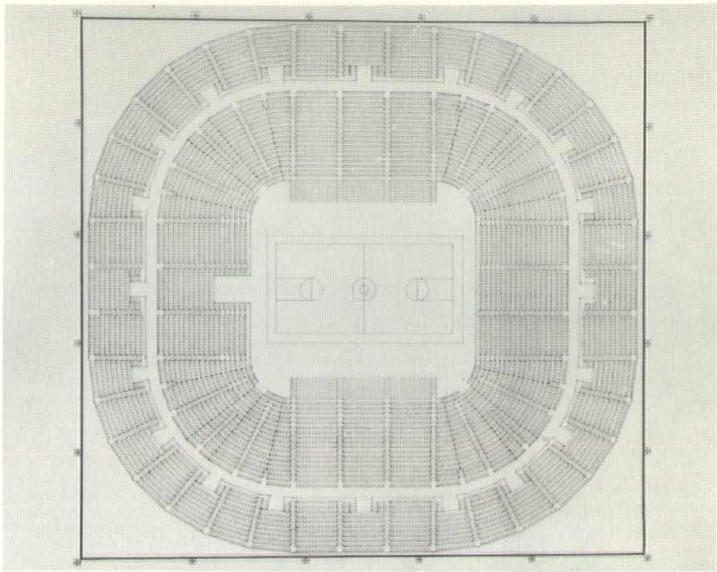
The seating is related to the grade outside the building much like the football stadium in that spectators enter the auditorium midway between the playing floor and the upper rows of seats. There are eighteen rows of seats below grade and eleven rows above grade. 10,630 people may be seated for basketball with an additional 1,200 seats added for auditorium events.

The giant clear span of 300 feet is ac-

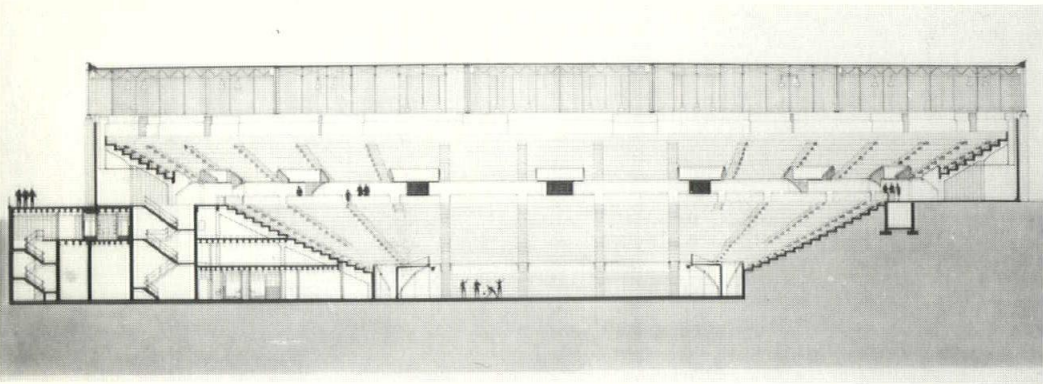
completed with 60 foot by 60 foot square bays in the roof system made up of 15 foot deep steel girders. The distance from the playing floor to the bottom of these girders is 60 feet and it is 45 feet from finished grade to top of the roof. The exterior of the building consists of 30 foot high white precast panels containing vertical windows of solar bronze glass. The 15-foot roof girders are of exposed Cor-ten Steel.

Shown in the smaller photograph is an early design featuring an exposed space frame with a suspended roof beneath.

The building contains locker rooms, mechanical rooms, office and storage space in a 75-foot wide, three-story space under the west end seats. A tunnel gives truck access to the arena floor. Access and egress is facilitated by 20 vomitories and across aisle under which is a utility tunnel. There are twelve large exits, three on each side of the building allowing for quick entry and exit.



SEATING PLAN

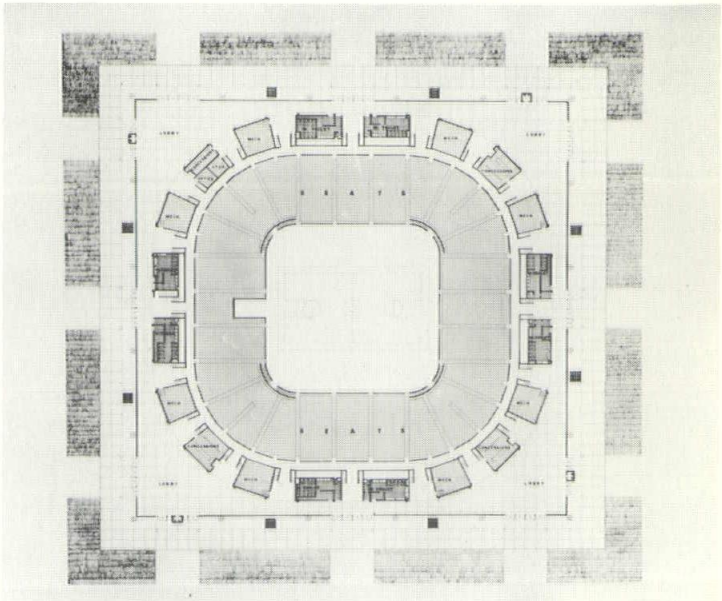


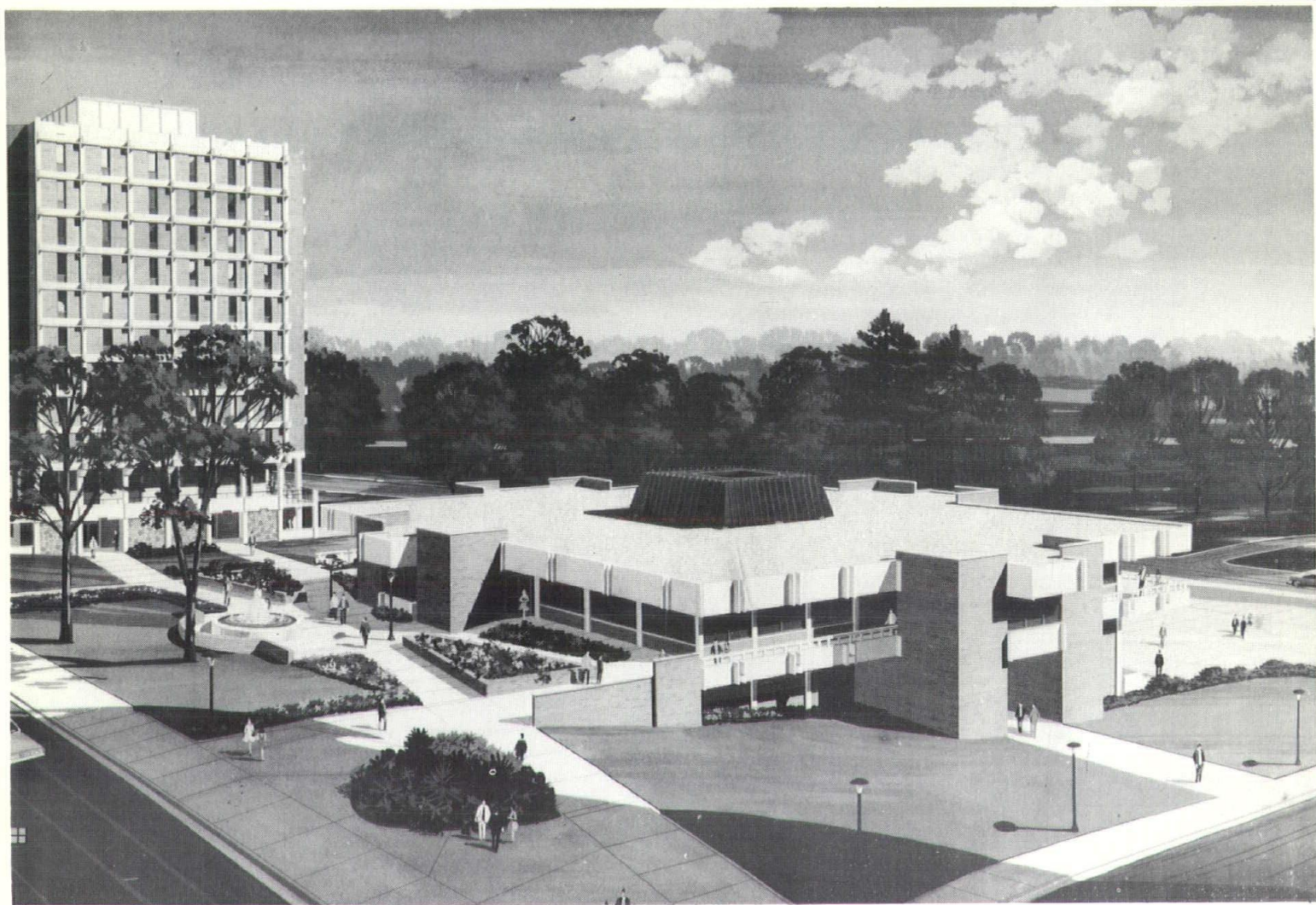
SECTION

To provide for a student body of 10,000 by 1975, Clemson has outlined an ambitious ten-year building program. In addition to the buildings shown on these pages now under construction or due to begin soon, many other facilities have been projected. These include:

- Single student dormitories
- Married student apartments
- Physical training and recreation building
- University union
- Fine arts auditorium
- Biological science building
- Additions to architecture building
- Forestry and wood products building
- Additional library space
- Electrical engineering building
- Economics and industrial management building
- Additions to plant and animal science building
- Earth sciences building
- University extension and continuing study building
- Education building

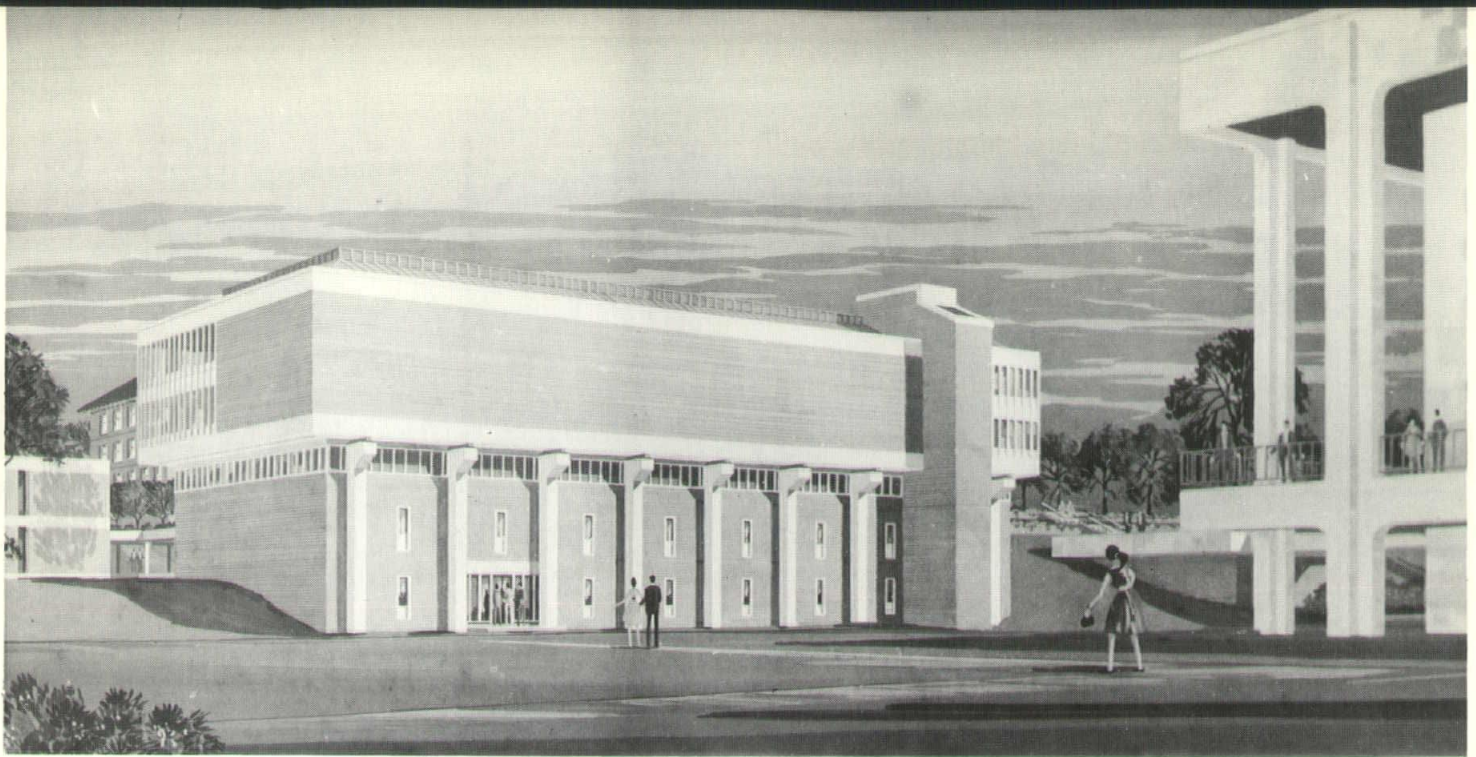
LOBBY PLAN





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HIGH RISE RESIDENCE HALL No. 1 AND EAST CAMPUS CAFETERIA by Hallman and Weems are now under construction and a twin tower will soon go up. The eleven story \$2 million residence hall is scheduled for completion this fall. The \$1 million cafeteria will be in operation next fall accommodating 2000 students daily in a two level operation. All of the buildings in the East Campus Area to date have been designed for continuity by Hallman and Weems. These include, in addition to the twin towers and cafeteria, two four-story women's dormitories completed several years ago and the student health center also under construction to replace the rambling wooden hospital erected in 1893.



THE GRADUATE RESEARCH CENTER by **J. E. Sirrine Company**, scheduled for occupancy in early 1969, will be used for research in various fields of engineering and health. Positioned to the right of the new library, this building will be connected to the Internal Combustion Engineering Building and Riggs Hall with covered passages. Six vertical utility shafts will supply all five floors and the roof which has usable open laboratory area. In

addition to laboratories the center will provide computer, lecture and seminar rooms and offices located on corners. The structure will be of poured concrete frame and pre-stressed concrete piers. Exposed concrete spandrel beams will reflect the general horizontal lines of adjacent buildings and the face brick will blend in color and texture.

AND CLASSROOM AND RESEARCH FACILITIES



DAVID WISTAR DANIEL HALL by **Lafaye, Lafaye and Associates** will provide classroom and office space for the English and Modern Languages Departments. The classroom unit will have four floors containing fifty-five classrooms of varying sizes, three language and speech laboratories, a 400-seat auditorium-lecture room and various work, study, club and service areas. The faculty office tower will have nine floors and will be con-

nected at each level of the classroom unit by foot bridges. It will contain 115 single and double offices and two suites for the department heads. Construction is due to start in the near future on this complex which will be located to the left of the new library and to the rear of the arts and sciences classroom building.

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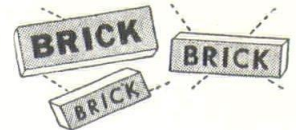
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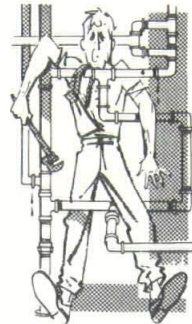
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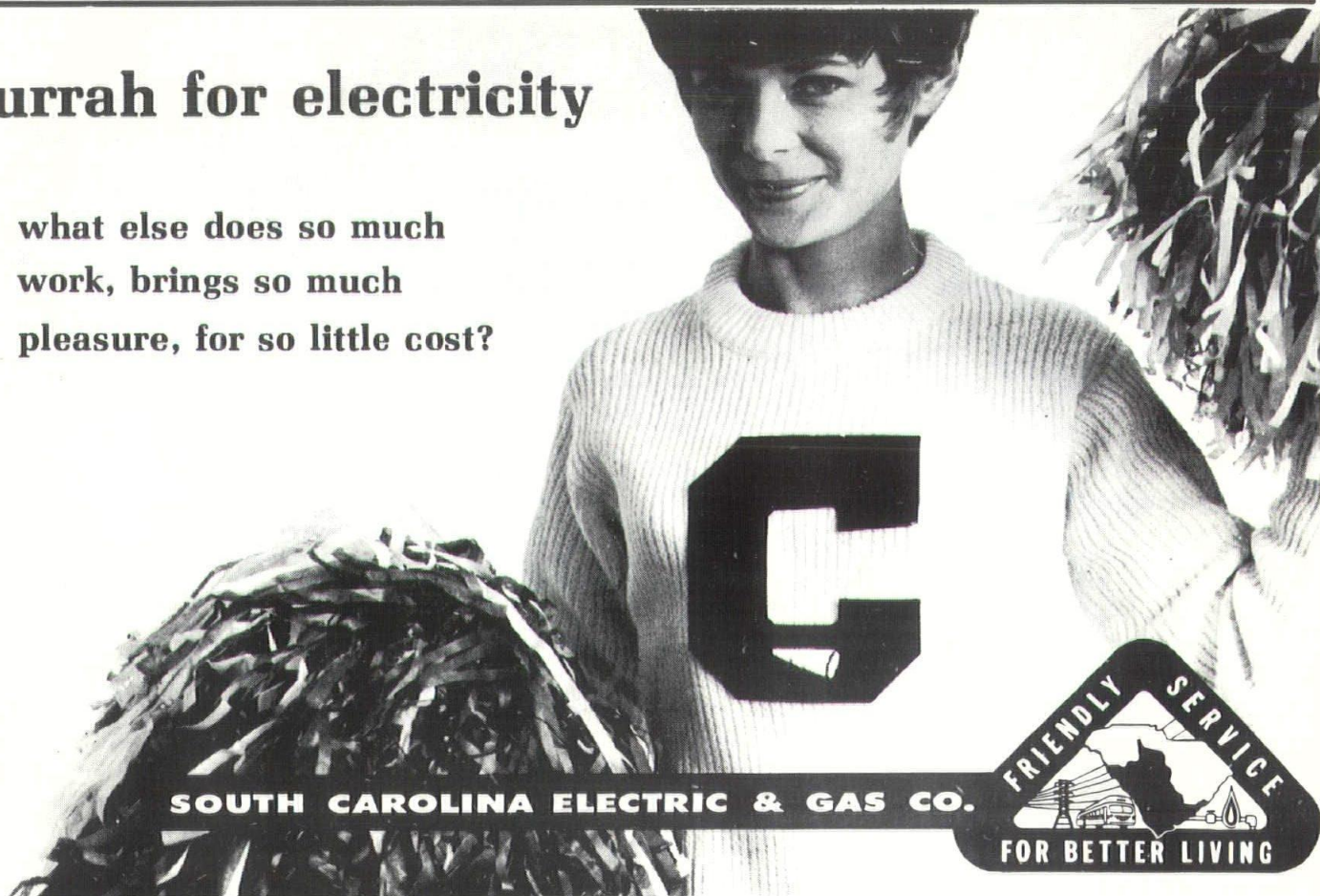
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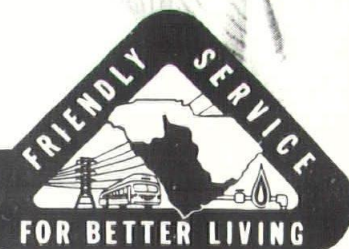
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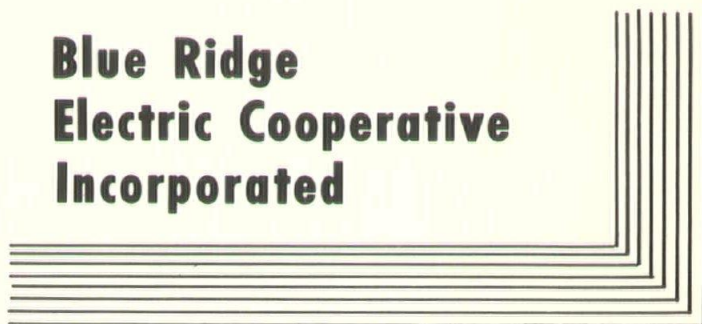


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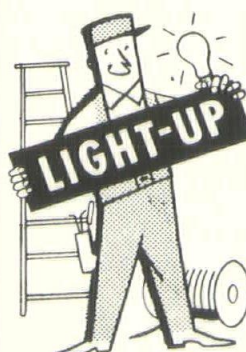
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