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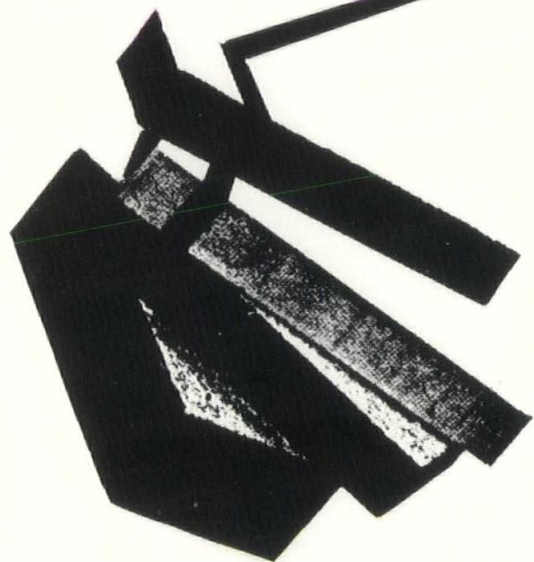
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An Editorial



As more and more new automobiles are produced each year, the question is raised "How do we dispose of the vehicles people no longer want?" Today's answer, the junkyard, will not suffice for tomorrow. Land is precious now but consider the future. Will we be able to assign untold acres of city and countryside merely for the deposit of abandoned cars?

Photograph by Harold Krauth



GRANITE STATE

ARCHITECT

Volume VI Number 3

June 1969

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Produced by New Hampshire Profiles Corp. Editorial and Sales Office 3 Sheafe Street, Portsmouth, N. H. 03801. General Manager Herbert F. Georges; Advertising Sales Ruth and Carll Downs, 120 Manchester Street, Nashua, N. H.

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Cover: The Insurance Center, Manchester, designed by John H. Benson.

Photo Credits: Cover, 12-15, Ernest Gould; 8-11, 16-19, Walt St. Clair.

GRANITE STATE ARCHITECT is published bi-monthly under the direction of the president and board of directors of the New Hampshire Chapter American Institute of Architects and is the official publication of that chapter. Advertising rates furnished upon request. Controlled circulation postage paid at Portland, Maine. Postmaster: Please send form 3579 to P.O. Box 900, Portsmouth, N.H.

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Notes And Comments

The concern for the future of man's environment is increasing with every notice of a marshland being filled, a nuclear power plant planned, a large dam proposed, a junk yard license approved or a housing development begun.

The following remarks, which are reprinted from *The Conservation Foundation Newsletter*, echo the questions and concerns which an increasing number of Americans are posing to public officials and businessmen. But this interest in the problems of environment is not limited to this country. In 1972 and at the request of Sweden and 51 other countries, the United Nations will sponsor a conference on Environment. Decision to hold this conference was passed as a resolution on Dec. 3, 1968, the same day that the then U. S. Ambassador James Russell Wiggins gave the following address to the General Assembly:

The evidence of mankind's gathering environmental crisis does not have to be sought in books or in scholarly documents. City dwellers on every continent of this crowded earth see it, hear it, smell it, absorb it and suffer from it.

It is in our air — filled with the noxious fumes of factories, furnaces, builders, wreckers, trains, trucks, buses, boats, aircraft and automobiles by the scores of millions.

It is in our lakes and rivers — suffocated by fertilizers that drain from our farmlands, and polluted by an ever-growing flood of industrial, agricultural, and chemical wastes.

It is in our land — more and more of which is buried under the encroaching megalopolis, or poisoned by pesticides, or wounded by strip mining and timber cutting, or strewn with the ugly rubbish of our fabulous productivity. Despite tardy ef-

(Continued on page 20)

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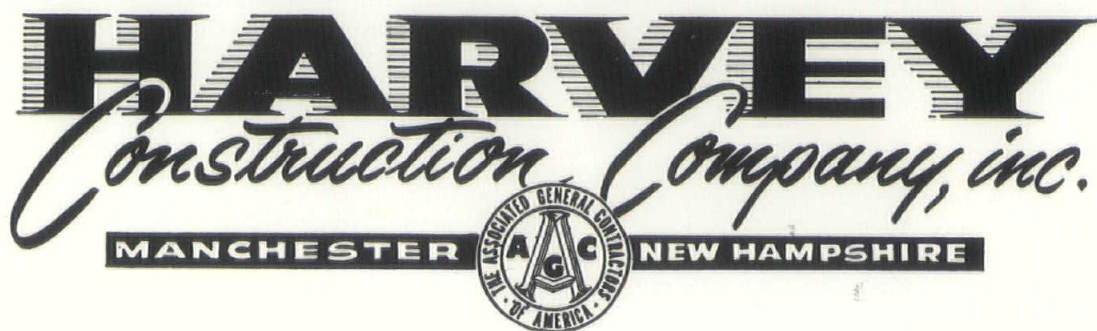
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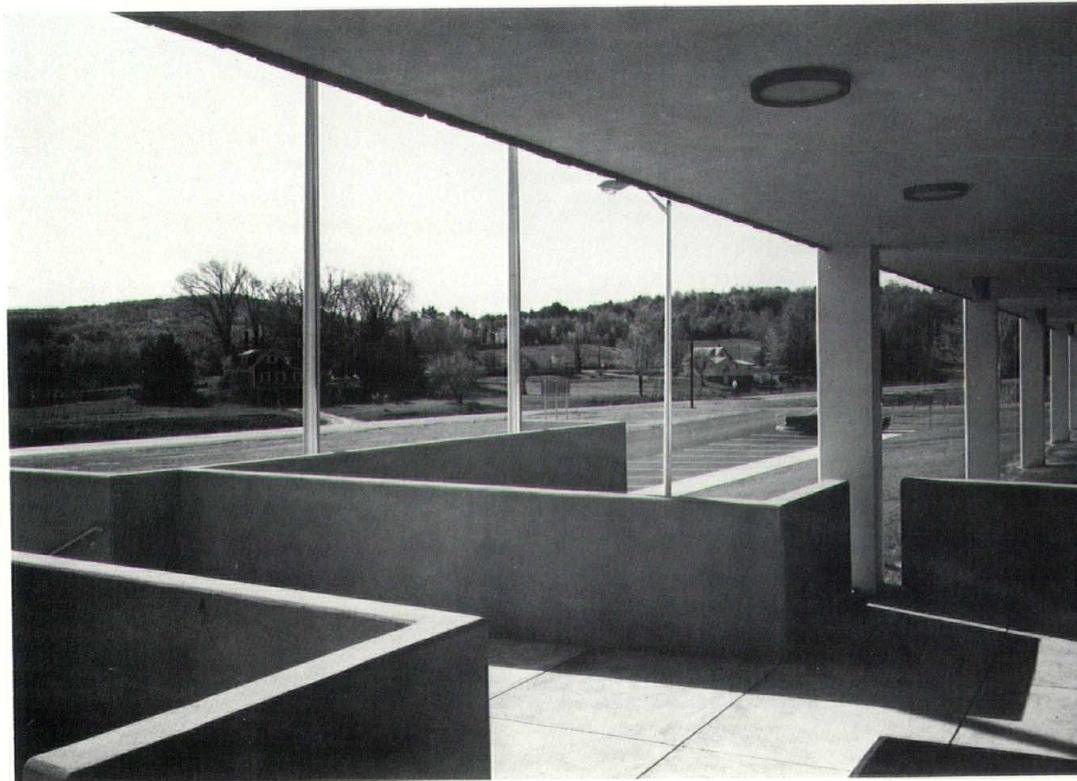
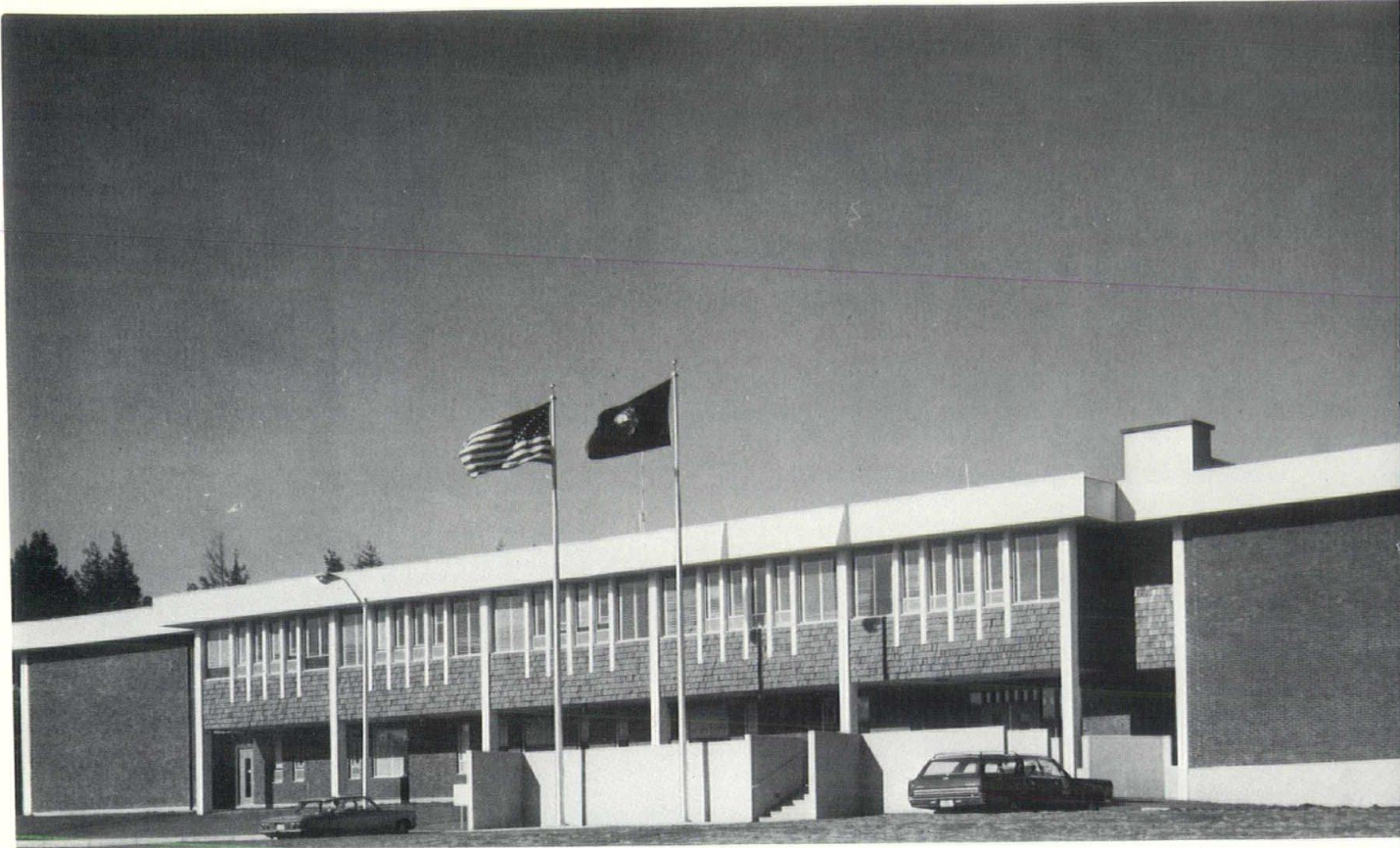


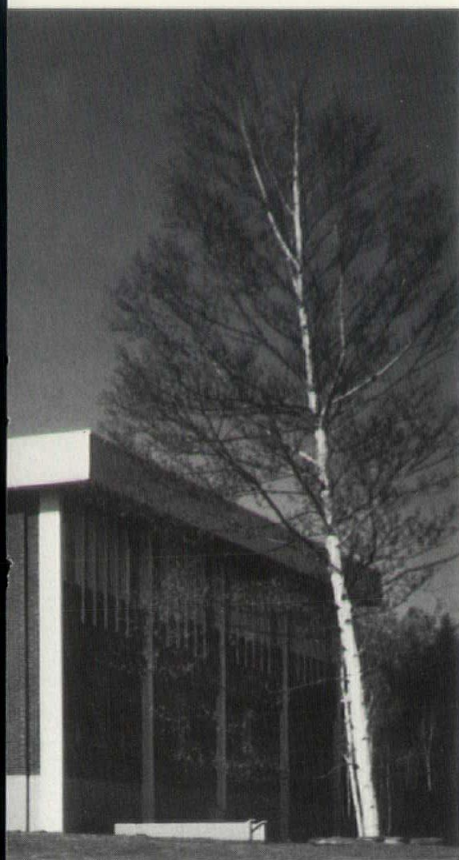
the way you want it built!

Here's one more example: the New Hampshire Vocational Institute at Laconia, for which we served as general contractors. Our task was to work from plans by Andrew C. Isaak, A. I. A., whose drawing of the new school is shown above. Below it is a photo taken while our sub-contractors were completing their jobs on the exterior and grounds.

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New Hampshire Vocational Institute

Laconia

Andrew C. Isaak Architect

Harvey Construction Co. General Contractors

THE New Hampshire Vocational Institute at Laconia was designed by Andrew C. Isaak, A.I.A., to accommodate a specific curriculum, to house sophisticated equipment, to provide economy in both construction and maintenance, and to reflect the beauty of its site, high on a hill overlooking Lake Winnepesaukee.

The curriculum includes such diversified courses as repair and maintenance of both automobile and marine engines, mechanical drafting, electronics, and graphic arts.

The decision to use pre-cast concrete columns and beams with a double-tee floor system was influenced by such factors as construction during the winter months, fire rating, and the weight of the machinery and gear required in workshops and classrooms.

The exposed structural columns and fascia of concrete — with the areas between the columns enclosed with a brick veneer on the lower level and a hand-split cedar shingle skirting enclosing the overhang of the upper level — heighten the feeling of unity with the site itself. A high monitor gives visual relief to the broad expanse of roof, as well as permitting natural light to enter the upper level corridors and

two laboratories in the interior of the building.

An aspect of spaciousness in the lobby is enhanced by the exposed concrete double-tee ceiling and the free-standing elevator shaft. The far wall carries a sculpture which was commissioned by the New Hampshire Fine Arts Commission. Bright-colored ceramic tile is used on the walls of the lobby and the alcoves along the corridors which accommodate more than two-hundred multi-colored lockers for the students.

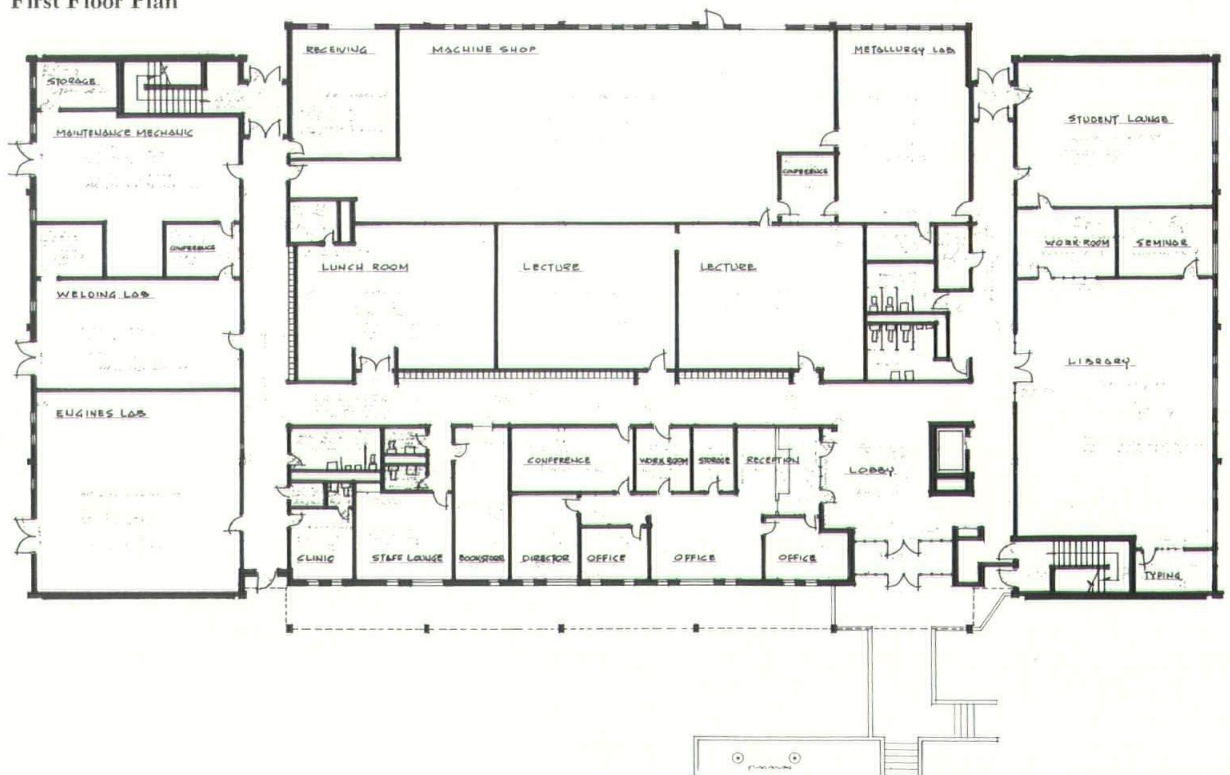
The walls of the classrooms and lecture rooms are of painted gypsum board, with vinyl asbestos tile floors and acoustical tile ceilings. Two of the four lecture rooms are separated by a folding partition for easy conversion to a large 72-by-35-foot hall for assemblies or for the showing of industry sponsored films and demonstrations. The administration areas and libraries have accent walls of paneling and carpeted floors which provide a feeling of relaxation for students and visitors.

Exposed concrete floors are used in the labs and in the heavy-use machine and welding shops. Walls of these areas are of masonite panels and the ceilings are of pre-cast double-tee concrete.



Lobby sculpture (right) was commissioned by the New Hampshire Fine Arts Commission.

First Floor Plan



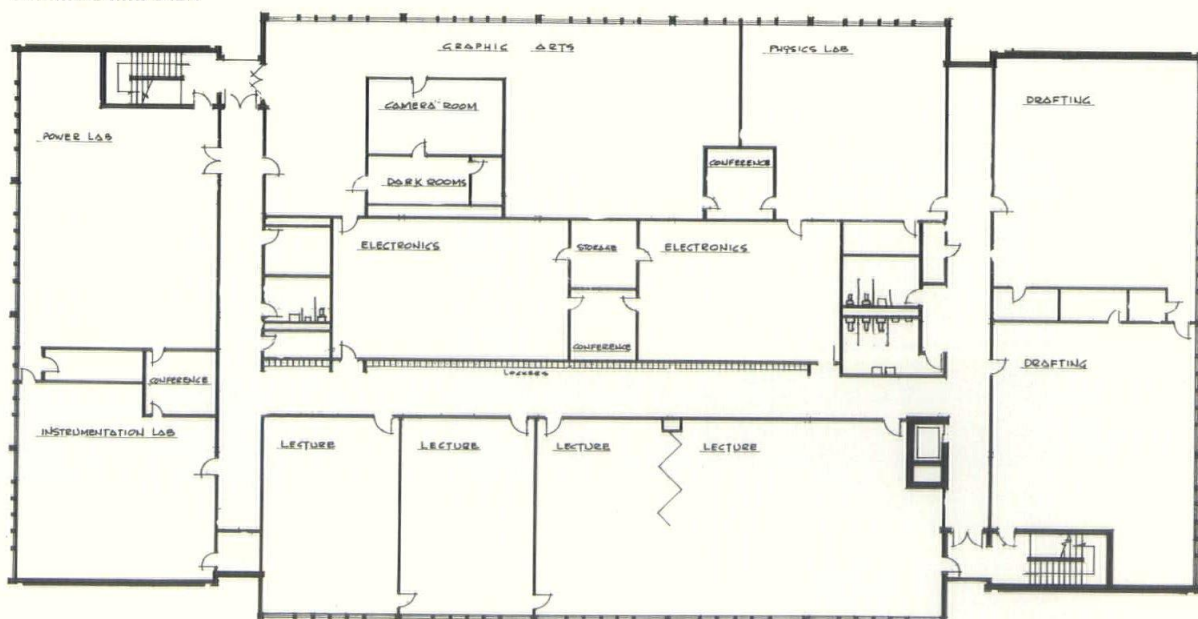
The 44,000-square-foot building is heated with an oil-fired forced hot water system and includes a fresh air supply and return system which provides air changes in every room. There is an automatic sprinkler system for the entire building, and water is supplied for both the domestic and fire water storage tanks by a drilled well.

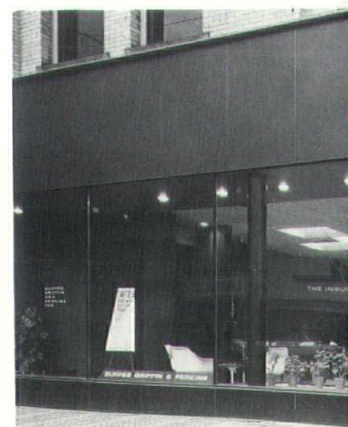
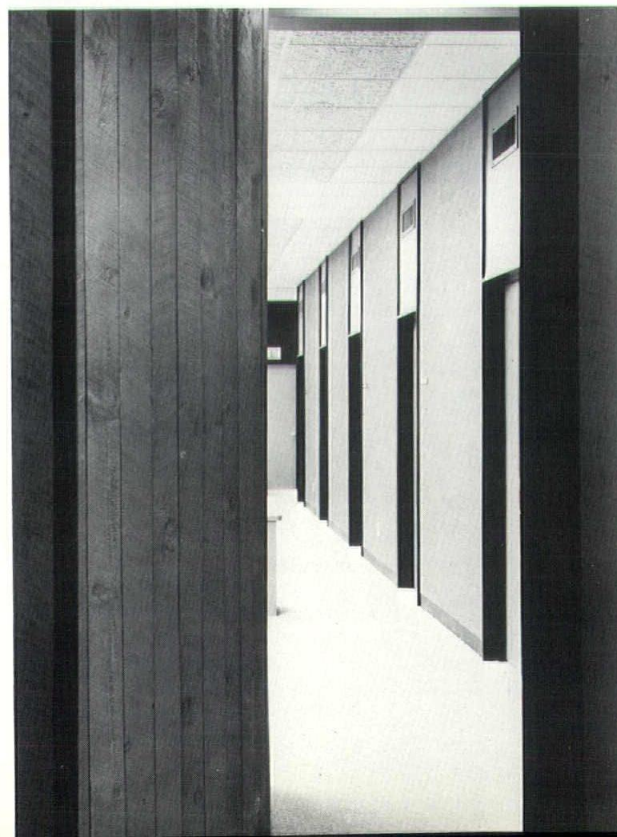
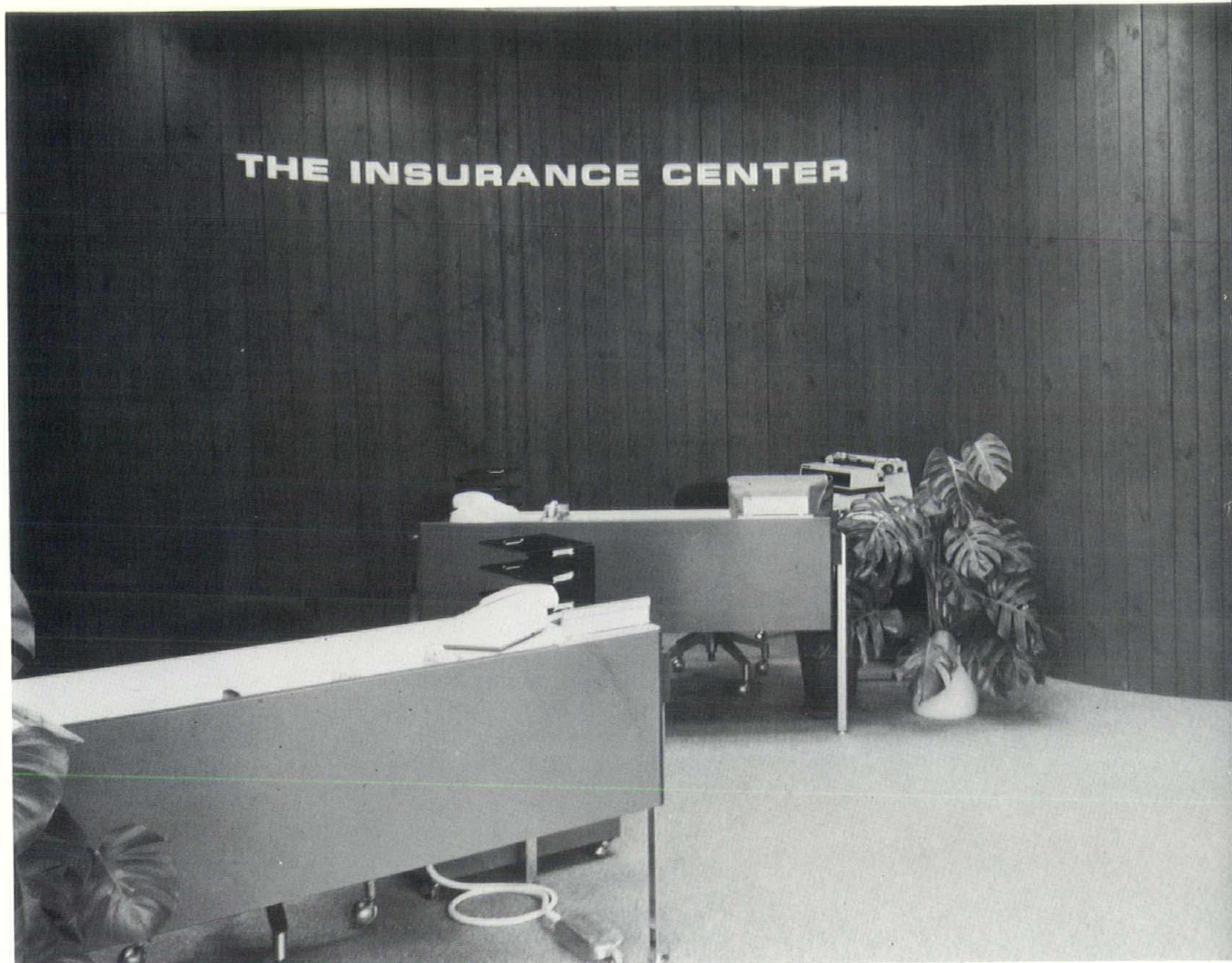
Building costs totaled \$866,000.00, not including site and equipment. These items added \$95,000.00, and included generators, rectifiers, exhaust hoods, compressor, and an oxygen-acetylene system for the sophisticated equipment being used for instruction purposes.



Library.

Ground Floor Plan





*(left) The curved walls naturally lead clients to the private offices.
(above) The exterior black fascia continues a design which was selected for an earlier remodeling on the same block.*

Granite State Architect

The Insurance Center

Manchester

John H. Benson Architect

Blanchard Stebbins General Contractor

IT is particularly satisfying for a young architect to have his first major project selected as an award winner. For the Insurance Center in Manchester, John H. Benson, AIA, coordinated a diversity of shapes, colors and textures to create an unusual yet workable office space. His concern for details was respected by the jury which selected the Center for a Second Award in Design at the last annual meeting of the New Hampshire Chapter, AIA. The jury commented "a dull space made interesting . . . good color treatments."

The need for new offices resulted from the merger of two insurance agencies into Burpee, Griffin & Perkins, Inc. The agents had selected part of a former department store for their office and the architect was charged with designing a reception-public area, general office, a conference room and six individual offices for the principals. In his desire to create a new image for the firm through the medium of architecture, Benson suggested the use of common materials and shapes used differently and individually to treat each primary area.

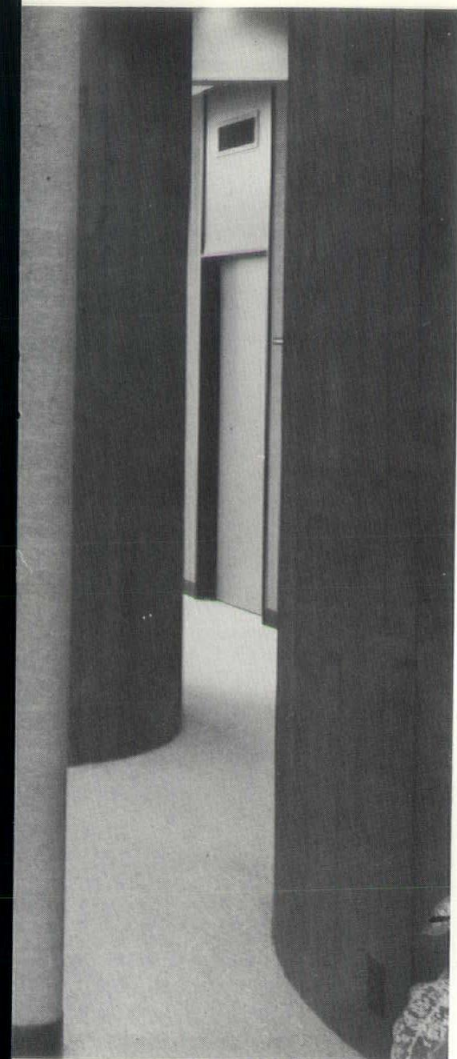
The reception area was defined through the use of curved walls which created a graceful flow pattern appropriate to the configuration of the existing space. Adjacent is a small conference room which was designed to accommo-

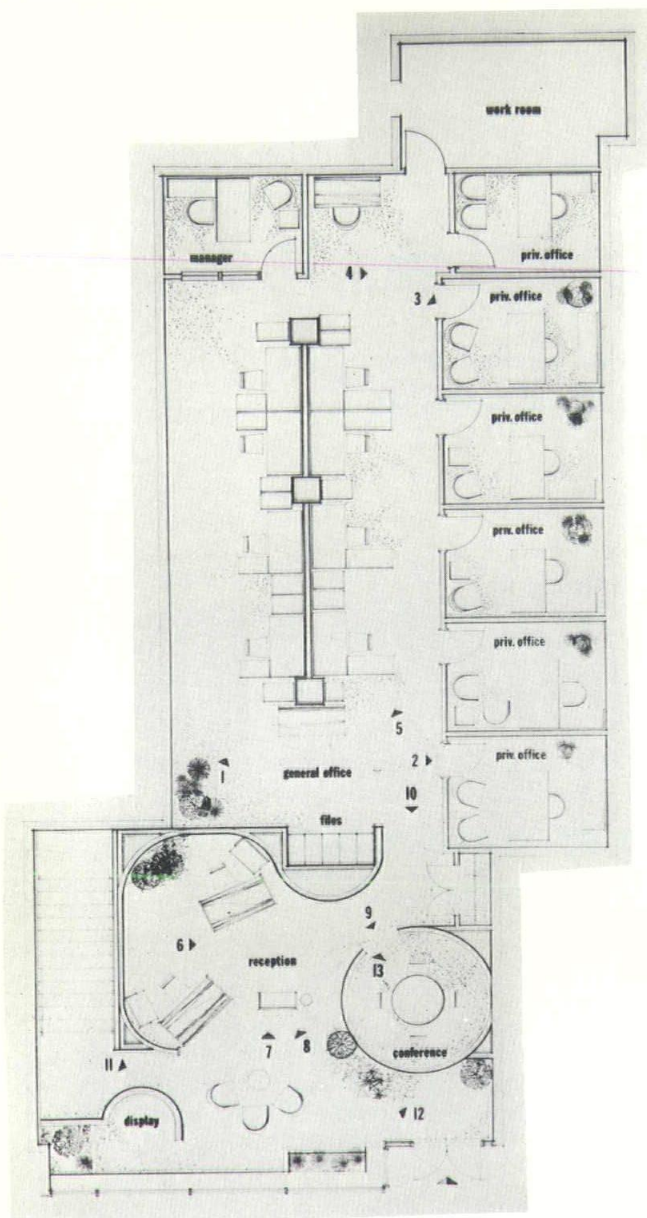
date a circular table. Walls are 1"x4" dark stained, rough sawn pine which easily adapted to the curves. Carpeting is similar throughout to continue the basic flow but lighting and two types of ceiling panels vary as part of the overall concept and for functionalism. Recessed lighting defines the reception work station as does the rough textured, relief rabbeted ceiling panels which create additional interest.

Spot lighting accents the curved walls and display surfaces.

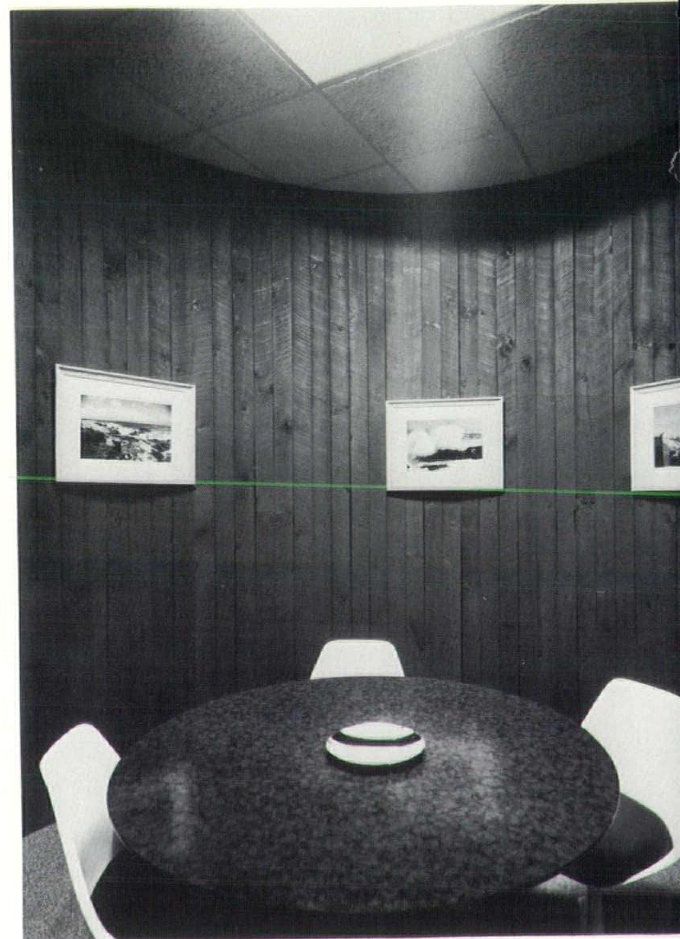
Since all of the furnishings in the general office were similar, Benson sought to give each station, or typist, a feeling of identity. This was accomplished by arranging the desks around a partial height partition and by placing lighting over areas where work is performed. Each space is defined and yet the staff is easily accessible to the principals. The partition also minimizes the hazard of disturbing the entire office when a client enters. The use of lighter colors accented by gold, black, blue and olive adds visual interest and creates a pleasant environment. Office doors are royal blue and the full height of the door frames, from floor to ceiling, was accented.

This same concern was multiplied six times over in the design of the principals' offices. Because each had existing furnishings and a personal idea of what his own





Conference room.



environment should be, an attempt was made to create individualized offices within the total concept.

The exterior black fascia continued a design pattern which had been utilized for another remodeling project on the same block and adjacent to the agency. Since the clients are civic minded, an area for insurance information and other displays of interest to the public was located at one corner of the

large front window. It serves also to conceal a stairway to the basement of the building.

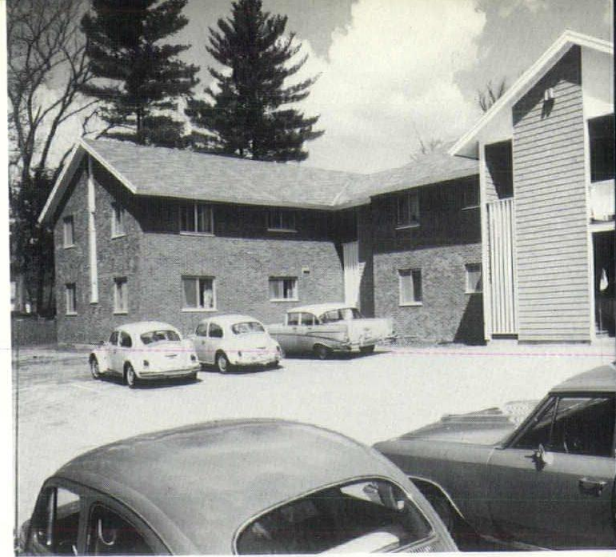
John Benson believes that architects should become involved with the total design of spaces they create. His treatment of colors, textures and shapes combined with the selection of the reception area furniture and round planters for the Insurance Center support his commitment.



Private office.

General clerical area, with offices of the firm's principals at right.





Married Students





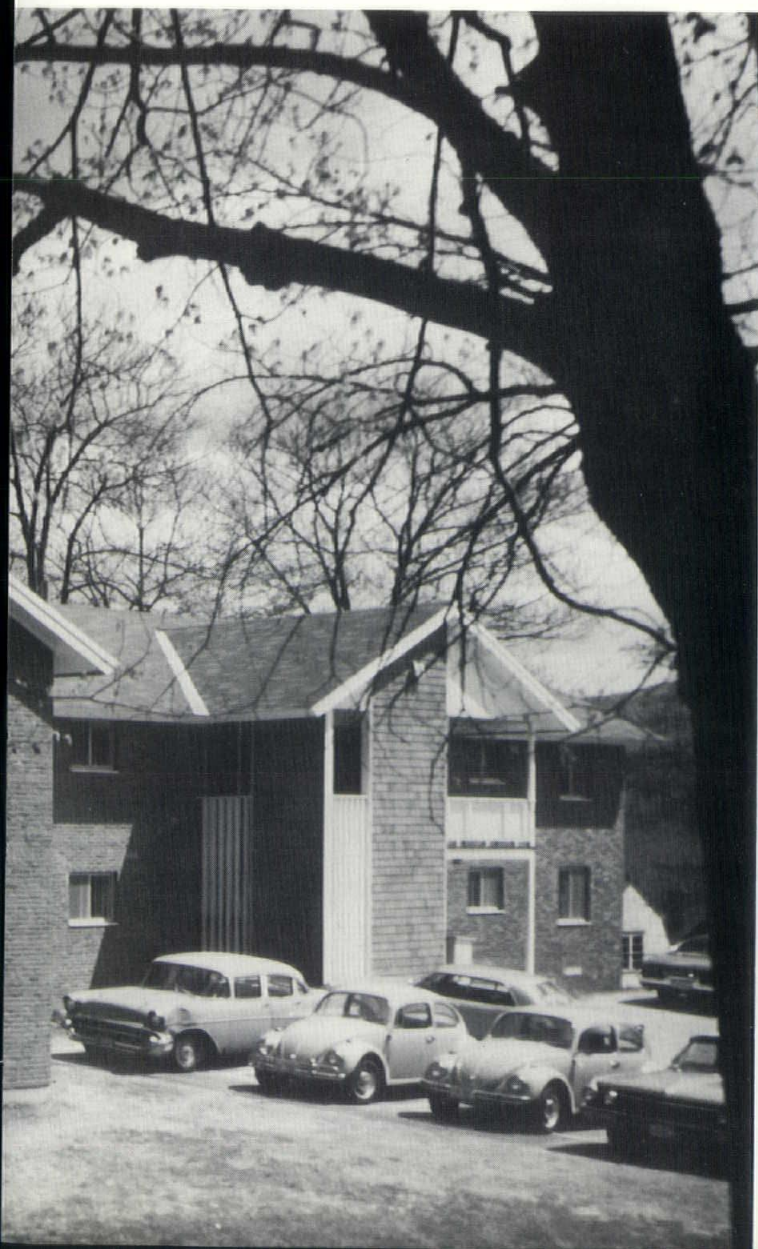
A challenging site and a residential location were among the important elements considered by Architect Frank J. Barrett, A.I.A., in his design for Married Student Housing at Plymouth State College.

The 30 apartment complex, the first constructed by the college, is situated on a 1.6 acre hillside

Frank J. Barrett Architect

Connecticut Valley Construction Co. General Contractor

Housing • Plymouth State College



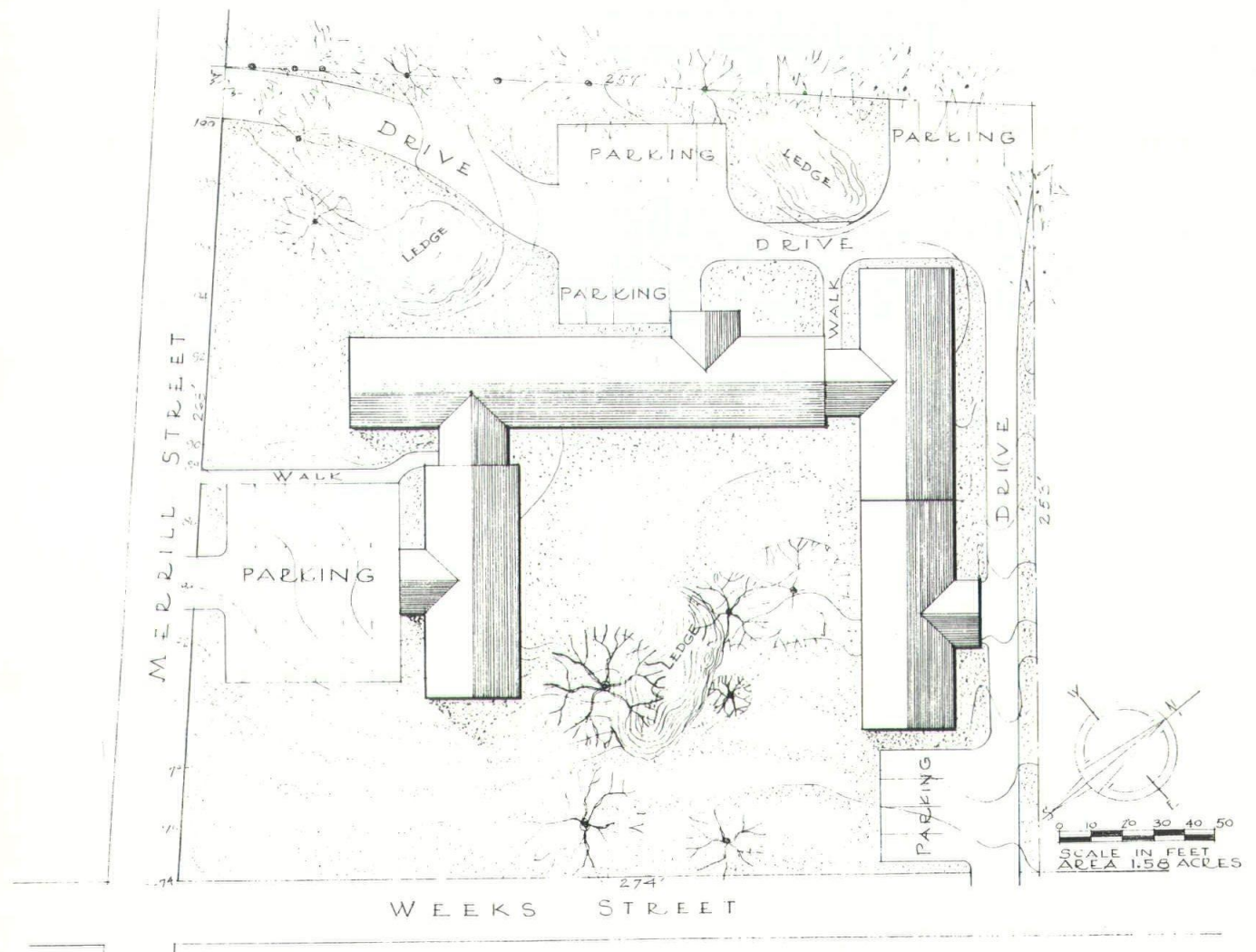
plot with several rock outcroppings and fine views of the Pemigewasset River Valley. The final siting depended on an advantageous use of the ledges and conformation to local zoning regulations. Exceptional trees were retained wherever possible. Because of a location adjacent to a residential section, the two story buildings were designed to give a small, intimate, domestic scale.

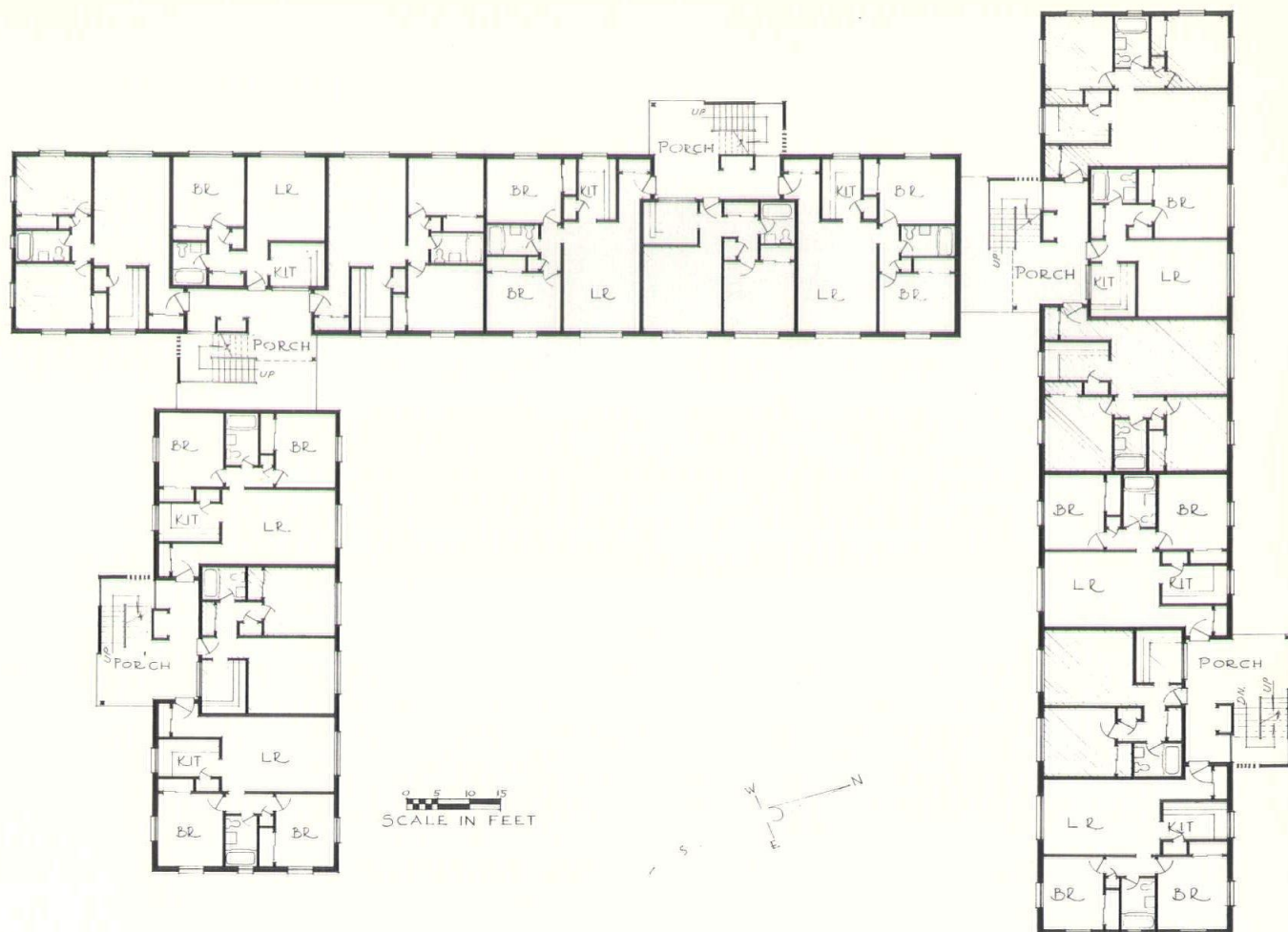
The complex consists actually of six apartment units repeated five times. One unit has a full basement for a coin-operated laundry and individual storage lockers. There are ten one bedroom and 20 two bedroom apartments, each with kitchen, bath, and living room. All apartments are completely furnished and have wall-to-wall carpeting except in the kitchen and bathrooms, where vinyl asbestos tile was specified. Interior finish walls are painted sheetrock throughout. All bathrooms have ceramic tile consisting of 4'-0" high dados and full ceiling height in tub recesses.

The wood frame complex is faced with random red brick accented by vertical grey wood shingle panels at the entrances. Construction time at the site was shortened through the use of prefabricated items such as trusses, wall panels, etc. The buildings are heated from the college's central plant.



Kitchens are compact but functional and equipped with major appliances.





All units are furnished and have wall-to-wall carpeting and ceramic tile bathrooms.



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(Continued from page 6)

forts to relieve these conditions, they pose a rising threat to human well-being in every nation and community, at whatever stage of development.

In the last century, a mere tick on the celestial clock, we have loosed upon the earth such a mass of humanity and such a torrent of energy as to transform much of the earth beyond all recognition. For the first time, we are brought face to face with the stark facts that space upon this planet is finite, that the resources of this planet are exhaustible and are not easily renewed. We are made aware that by his sheer numbers and his heedless ingenuity, man can injure his environment so as to hasten his own extinction. We have not much time left in which to learn to proportion our population to available resources, and to become good enough trustees of our inherited wealth of air, water, earth, and forms of life so that our posterity may hope to survive in a condition better than bestial struggle.

And in words which might well serve as an agenda for action today as well as an agenda for the 1972 conference on the environment, Wiggins declared:

What are we going to do about long-lasting pesticides such as DDT, which are sprayed on crops at a rate of more than 100 million pounds a year? Minute concentrations of DDT can be lethal to fish and birds and to the ocean plankton which are a vital link in the chain of life. DDT has been detected in places as remote as Antarctica. How can we prevent a rising level of such pollutants throughout the world?

What are we going to do about the rapidly rising quantities of inorganic nitrogen fertilizers, which drain from the farmlands of the world into lakes, rivers and estuaries and combine with urban sewage to rob those waters of their oxygen and their ability to support life? How can that pollution be curbed without hampering the world-wide effort to grow more food?

What are we going to do to prevent contamination by radioactive wastes from the growing number

(Continued on page 22)



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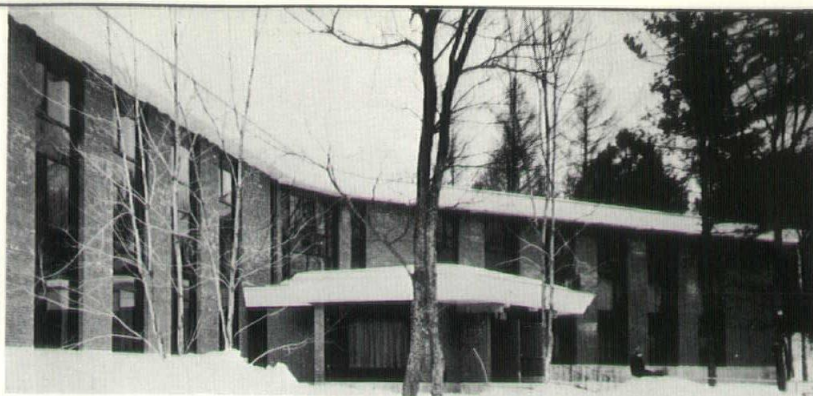
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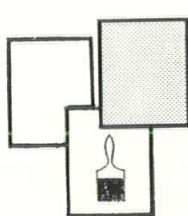
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(Continued from Page 20)

of nuclear power stations throughout the world? In the present generation, for the first time since the world began, all of us have been exposed to man-made sources of radiation whose effects are still not fully known.

What steps should we take to preserve the immense diversity of the earth's plant and animal species? It is that diversity which gives stability to the intricate balance of living nature in every environment. In the industrial century just past, over 70 species of mammals alone have been exterminated — more than in the previous 2,000 years of the world's history. Today some 1,000 other animal species face the same danger.

What are we going to do about the accidental spilling of oil from tankers and other ships? Since the Torrey Canyon disaster of 1967 there has been some advance in the methods of combating that menace, but such accidents continue to occur, with devastating effect; and with the giant tankers of yesterday being dwarfed by the 300,000-ton monsters now coming off the ways, the potential for future disasters is very great.

And what are we going to do about the steadily rising burden of carbon dioxide in the earth's atmosphere? In the past hundred years, since fossil fuels began to be burned in huge quantities, atmospheric carbon dioxide has increased by close to 10%. That increase will probably total about 25% by the year 2000, given the rapidly accelerating rate of fuel consumption. Will the resulting green-house effect cause

a permanent warming of the earth's climate, and perhaps even a rise in the world sea level as the polar ice caps melt? No one is sure, though much of human destiny could depend on the answer.

One could mention many other problems common to industrial nations which will surely be considered by the conference on the human environment, such as the safe and economical disposal of solid wastes, the preservation of forests and ground cover, whose loss has been a prime cause of catastrophic floods in many lands, the ever-rising clamor of noise that surrounds our cities, our factories, our highways and our airports — and, not least important, the education of our children to respect and defend their environment, for without the support of public opinion nothing enduring can be achieved.

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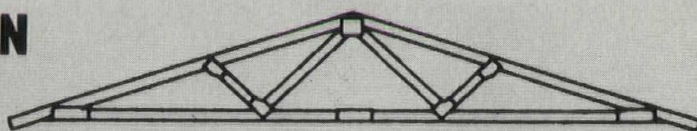
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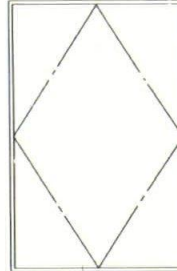


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Report On 2nd Homes

How far away should your second home at the lake or mountain be? "The ultimate test is how long the kids will be quiet in the car," according to a Houston architect writing in the April issue of the AIA Journal, official publication of The American Institute of Architects.

In a more serious vein he states that the second-home market is an area in which architects and builders have a fresh, exciting opportunity to work together.

"The leisure home is not really an escape from city life; rather, it is an escape to something. It is an escape to the American dream, of pioneering, of conquering nature," declares Clovis Heimsath, AIA, whose article is accompanied by a 12-page portfolio of second houses, ranging from the individual, custom-designed home to resort condominiums.

Heimsath, a member of AIA's national Committee on Housing, sees the second home environment as based on five levels or criteria: 1) nature, 2) recreation, 3) convenience, 4) continuity, and 5) symbols. Some of his comments on the five:

1. Nature — "A distant view of the mountains may be grand, but the sound of a waterfall or the shade of a large oak tree is much more personal."

2. Recreation — "If possible, the community must be usable, at least to some degree, the year 'round."

3. Convenience — "Distance can be judged by how long children will keep quiet in the car — the ultimate test."

4. Continuity — "So many leisure home developments that look fine with 20 houses seem shabby when they get to 100 to 200. So many leisure homes look worse as they are more successful, the visual chaos offsetting to some degree the success in numbers. Here is the reason for the master plan, the restrictions, the maintenance plan and, in the case of developments, perhaps elected officers."

5. Symbols — "We live by symbols; we are all familiar with status symbols, but I dare say we have many more we go by. Geographic

symbols are the most pertinent here."

Heimsath concludes his article by saying, "It is in executing this real role in building — the creation of environments which has to do with far more than drawing elevations — that the architect and builder can work together, providing amenities on the one hand, profits on the other."

Wilson Appointed

Guy K. C. Wilson, AIA, a past president and a director of the New Hampshire Chapter, AIA has been appointed to fill the unexpired term of John Noble on the State Capital-Concord City Planning board. Noble resigned his position in April for the term which expires in January 1970.

Adams at Indian Head Millwork

George E. Adams has joined the architectural sales department of Indian Head Millwork Corporation in Nashua. Adams, who has ten years' experience in all phases of the millworking industry, lives in Nashua with his wife, Monique, and their three children.

Municipal Notes

CENTER HARBOR — The town approved a combined municipal building and fire station at a cost of \$85,000.

GILMANTON — Reversing last year's stand, the national building code was adopted by a 115-99 vote.

LEMPSTER — The High View Church Farm, Inc., a non-profit corporation with sizeable land-holdings, convinced the town to appropriate a \$55,000 share in the construction of a man-made lake for flood-control and recreation.

SUGAR HILL — The town approved a zoning ordinance at a special meeting after the 1968 town meeting turned down a proposal — a house lot must have a minimum area of two acres and frontage of 200 feet.



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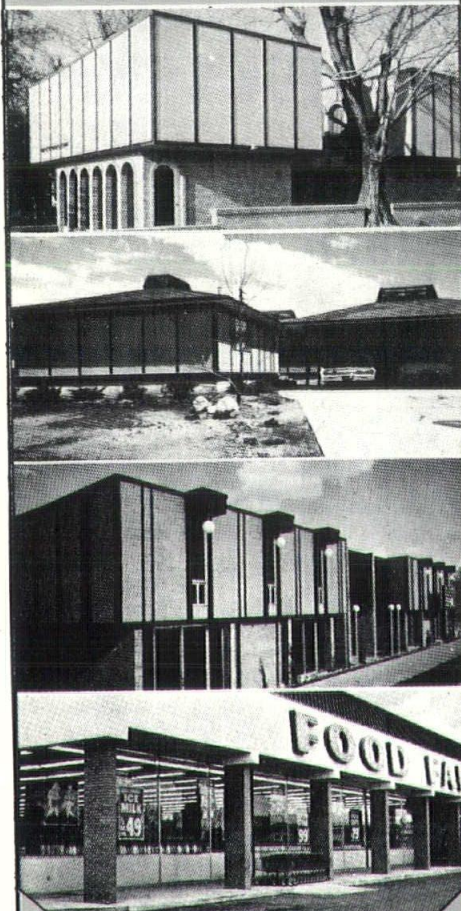
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Book Reviews

THE ROBIE HOUSE: FRANK LLOYD WRIGHT — A complete description of a famous F. L. W. house, including site plans and sketches of furnishings, prepared by the Historic American Buildings Survey. Published by the Prairie School Press. Price \$2.50 or 5 copies for \$10.00.

The Robie House (1908-1909) is one that has been copied by numerous architects. Frank Lloyd Wright described it as a "masonry structure of tawny brick and stone with red tile roof, eaves of copper, wood work of oak throughout." Organized around a great hearth where interior space, under wide sweeping roofs, opens to the outdoors, it features a bold interplay of horizontal planes about the chimney mass. The structurally expressive piers and windows established a new form of domestic design.

The detailed drawings in this book include each floor and some of the outstanding pieces of furniture. Environmental provisions are illustrated and even the first and second floor window patterns are included.

This large paper covered volume is one of the most meaningful among those produced by H.A.B.S. The Prairie School Press is devoted to the publishing of material concerning the development of the history of modern architecture. Recent available titles include facsimile editions of Frank Lloyd Wright's "The House Beautiful," and Marianna Van Rensselaer's "Henry Hobson Richardson and His Work" as well as "Architectural Essays From the Chicago School" edited by W. R. Hosbrouck.

The firm also publishes the Prairie School Review, a quarterly journal devoted to the history of modern architecture.

OLD VERMONT HOUSES by Herbert Wheaton Congdon. Published by Noone House, Peterborough, N.H. Price \$3.95. "The charm of Vermont architecture eludes precise definition. Most of our houses are not markedly different from those in Maine or Connecticut, yet the

true Vermonter recognizes the specific characteristics as readily as his wife knows the individual hens in her flock" — so the late Herbert Congdon wrote in this book which was the result of his great love for Vermont and consequently for its ancient structures.

First published in 1940, the book seems as refreshing and enlightening today as it was when Mr. Congdon first traced the history of the Green Mountain state's architecture from the earliest log cabin to the stately mansions of the Greek Revival. Details about the buildings and

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the craftsmen-farmers who built them are well described in a readable style. Here is a book not only for architects but for anyone interested in Americana and all things pertinent to the New England scene.

INDEX OF OPPORTUNITY IN ARCHITECTURE & DESIGN, published by Resource Publications, Inc., Princeton, N.J. 32 pages. Price \$2.00. Careers for graduating and experienced architects are featured in this new directory which offers information on specific jobs with nation-wide companies. This paperbound guide is one of seven volumes in Resources' professional career series. Each full page profile of an architectural firm is prefaced by an editorial introduction discussing field of architecture and its related area, industrial design. Company profiles detail employer's size, areas of specification, job openings, benefits, special features and interviewing procedure. A resume service is included in the INDEX to enable job-hunters to send their personal data sheets directly to participating employers without charge.

CONTRACTING WITH THE FEDERAL GOV.

What architects and engineers need to know about contracting with the Federal Government is covered from A to Z in a new, 190-page book, "Contracting with the Federal Government — A Primer for Architects and Engineers."

The only publication of its kind which gives the rules, regulations, and problems involved in this work, the "Primer" was produced under the auspices of the Committee on Federal Procurement of Architect-Engineer Services. The Committee is composed of representatives of The American Institute of Architects, American Institute of Consulting Engineers, American Road Builders Association, American Society of Civil Engineers, Consulting Engineers Council, and National Society of Professional Engineers.

Written to take the mystery out
(Continued on Next Page)



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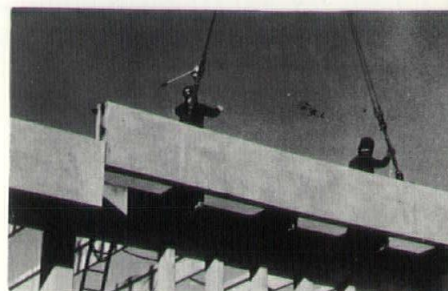
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of Government contracting, the book explains: how architects and engineers are selected, how the fee is set, what the standard contract clauses are and what they mean, and how to obtain contract price adjustment. Readers will learn how to find out about available pro-

jects, how to negotiate contracts, what to know when performing the work, and what to do if problems are encountered.

Copies of the book are available for \$6 prepaid, from: "Primer," Room 713, 1155 15th Street, N.W., Washington, D.C. 20005.

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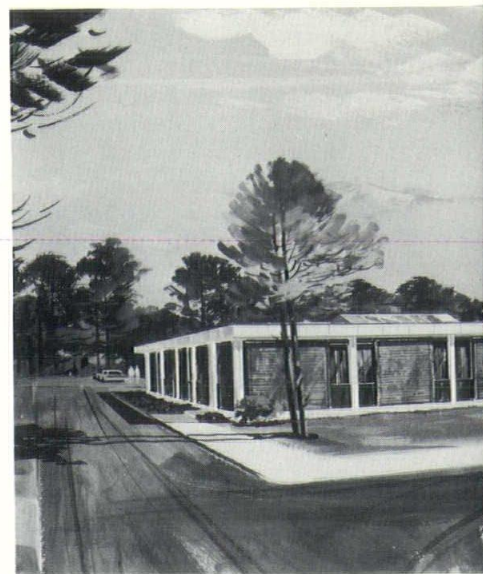
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Donald Dennis, AIA, is the architect for the administration building of the Pease Federal Credit Union now under construction off Lafayette Road in Portsmouth. The 11,500-square-foot building is due for completion in August. The general contractor is the Pierce Company, Stratham.

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AIA Appoints Director Of Technical Programs

Robert Allan Class, AIA, of Stewart, Noble, Class & Partners/Architects, Philadelphia, and past president of the Philadelphia Chapter, AIA, has been appointed Director of Technical Programs by The American Institute of Architects.

Mr. Class joined the AIA staff, April 7, in the Department of Professional Services, directed by Frank L. Codella, AIA, Administrator. Mr. Scheick said, "We feel extremely fortunate in obtaining the services of Bob Class for this important post in this department. He brings an exceptional working knowledge in the areas of architectural practice and the building industry, which are the heart of the Technical Programs responsibilities. He is joining the staff at a time when we are moving ahead with programs intended to make significant improvement in the productivity of architectural practice."



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**Ludwig Mies Van Der Rohe
Named Honorary Chairman
Of AIA-RAIC Convention**

Internationally known architect Ludwig Mies van der Rohe, FAIA, recipient of the 1960 AIA Gold Medal, has been named honorary host chapter chairman of the 1969 joint convention of The American Institute of Architects and The Royal Architectural Institute of Canada. The meeting will be held in Chicago, June 22-26, under the theme FOCUS NOW.

Program plans for this 101st AIA convention and 62nd RAIC meeting include 12 workshops and several seminars, plus an exhibit of Frank Lloyd Wright architecture. In addition to the concurrent 19th Building Products Exhibit, there will be a continuous Film Festival showing area architectural landmarks.

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**Architects Chosen
For AIA Headquarters**

The Architects Collaborative, a Cambridge, Mass., architectural firm, has been selected to design the new national headquarters building in Washington, D. C. for The American Institute of Architects. The announcement was made by George E. Kassabaum, FAIA, president of AIA. Mr. Kassabaum said, "The firm was chosen on the basis of the outstanding buildings they have designed, their sensitivity to the difficult architectural problem of designing a new building that closely relates to the historic Octagon House, the services they have performed for other clients, and their capabilities for handling this project."

The firm's principals are: Norman C. Fletcher, FAIA; Walter Gropius, FAIA; Sarah P. Harkness, AIA; John C. Harkness, FAIA; Louis A. McMillen, AIA; Richard Brooker, AIA; Alex Cvijanovic, AIA; Herbert K. Gallagher, AIA; William J. Geddis, AIA; Roland Kluver, AIA; Peter W. Morton, AIA, and H. Morse Payne, AIA.

AIA's new headquarters building will occupy the site of its current offices, built in 1940 and 1950, at 1735 New York Avenue, N.W., and the AIA-owned Lemon Building at 1729 New York Avenue, N.W. The Octagon House at 1799 New York Avenue, N.W., which was built in 1798-99 and served as the temporary White House for President Madison, is being restored by the AIA Foundation. It will reopen to the public as a National Historic Landmark in January, 1970.

The design for the new building by The Architects Collaborative must be submitted to the Fine Arts Commission which, in 1967 and 1968, declined to approve previous designs on the basis of their incompatibility with the historic Octagon House. At that time, the design called for a \$4,000,000 construction budget and a building 72 feet high extending from New York Avenue to 18th Street. On September 23, 1968, the AIA accepted with regret the resignation of the architect and later appointed the committee to select a new one.

Granite State Architect

Dodge Report

The F. W. Dodge Division of McGraw-Hill Information Systems Company has reported on March contracts for future construction in the state of New Hampshire. According to George A. Christie, Chief Economist of Dodge, the latest month's construction activity followed this pattern:

	1969	1968	Per Cent Change
TOTAL CONSTRUCTION	\$16,640,000	\$30,690,000	Minus 46%
Nonresidential	\$ 6,223,000	\$19,111,000	Minus 67%
Residential	\$ 4,755,000	\$10,597,000	Minus 55%
Nonbuilding	\$ 5,662,000	\$ 982,000	Over 100%

For the year-to-date, on a cumulative basis, the totals are:

	1969	1968	Per Cent Change
TOTAL CONSTRUCTION	\$37,613,000	\$48,040,000	Minus 22%
Nonresidential	\$17,874,000	\$28,922,000	Minus 38%
Residential	\$ 9,983,000	\$16,969,000	Minus 41%
Nonbuilding	\$ 9,756,000	\$ 2,149,000	Over 100%

National Building Costs Up 8.1% in Twelve Months

Building construction costs rose an average of 8.1% in the twelve months from April 1968, to April, 1969, according to the Boston Regional office of Marshall and Stevens, Incorporated, nationwide appraisal firm. N. Nicholas Cates, Regional Manager, stated that "Local cost increases were somewhat above the nationwide increase, averaging 8.5% over April, 1968, in the Eastern District. The replacement cost of a quality single family residence built in April, 1968, in the Eastern District for \$30,000 would cost \$33,060 today."

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