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NOVEMBER 1977





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ON OUR COVER is the Lewis Hall School of Law at Washington & Lee University. Designed by Marcellus Wright, Cox and Ladd, Architects, of Richmond, the project is featured on page 46 of this issue.  
(Cover Photograph by Sally Mann)



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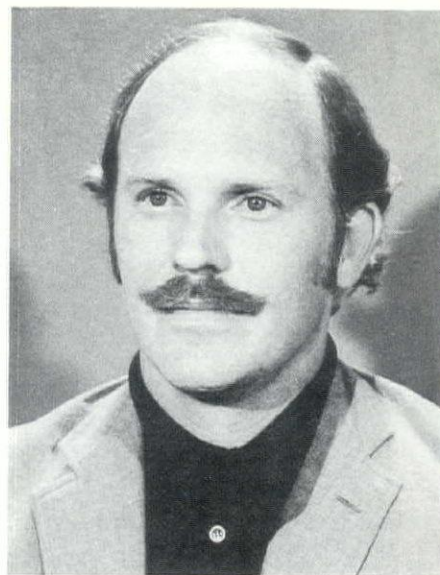
Architects and their clients are, either through lack of understanding or because of fixed prejudices, missing a very real opportunity. For the architect, it is an opportunity to secure commissions in a field relatively untouched and one which can provide higher rewards, professionally and monetarily. While for the client it is an opportunity to conserve, both his own resources and natural resources.

Construction economics have changed drastically since the Arab oil embargo and now favor renovation, restoration/conservation, preservation in most instances where a structure is sound enough to be adapted for reuse. When one considers the loss of inexpensive energy, cost of utilities and services, dwindling natural resources, concern for pollution of our environment and other constraints such as more rigid zoning and harder public and regulatory attitudes toward unorganized and almost any new growth, conservation of all our resources should indicate to designers and users a careful look at reuse or adaptive reuse. The architect and his client should investigate the possibilities and carefully weigh the alternatives before making a decision. In recent years many sound structures, some architecturally significant, have been excluded from consideration for reuse because the clients were interested in a new image or standing or because the architect was more interested in the rewards inherent in the design and development of a new structure. This exclusion has occurred even where feasibility studies were done, whether they were done objectively or from a biased, either consciously or unconsciously, point of view. In some instances, even when benefits of reuse or new construction were equal, the existing building has been forsaken because the training and philosophical orientation of the architect influenced the decision toward a new structure.

Social/economic/political stability of neighborhoods, districts, towns and even whole cities is an important consideration in how we live and function in our communities. New structures frequently ignore the need for replacement within the fabric of the city-scape and more often than not are designed to set a new trend aesthetically and scale-wise rather than to fit into the area. Most often the results prove to be devastating, particularly because the new structure does not set any trend but remains existing side by side and out of scale with its neighbors which were in scale and in harmony. In our recent history when it seemed energy, opportunity, and new construction would last forever, destruction of existing patterns and fabrics in our communities was carried out endlessly and in a completely unnatural manner. Even if this constant renewal was forever possible, it might have been better for the quality of our life if we had been more conservative and compatibility oriented.

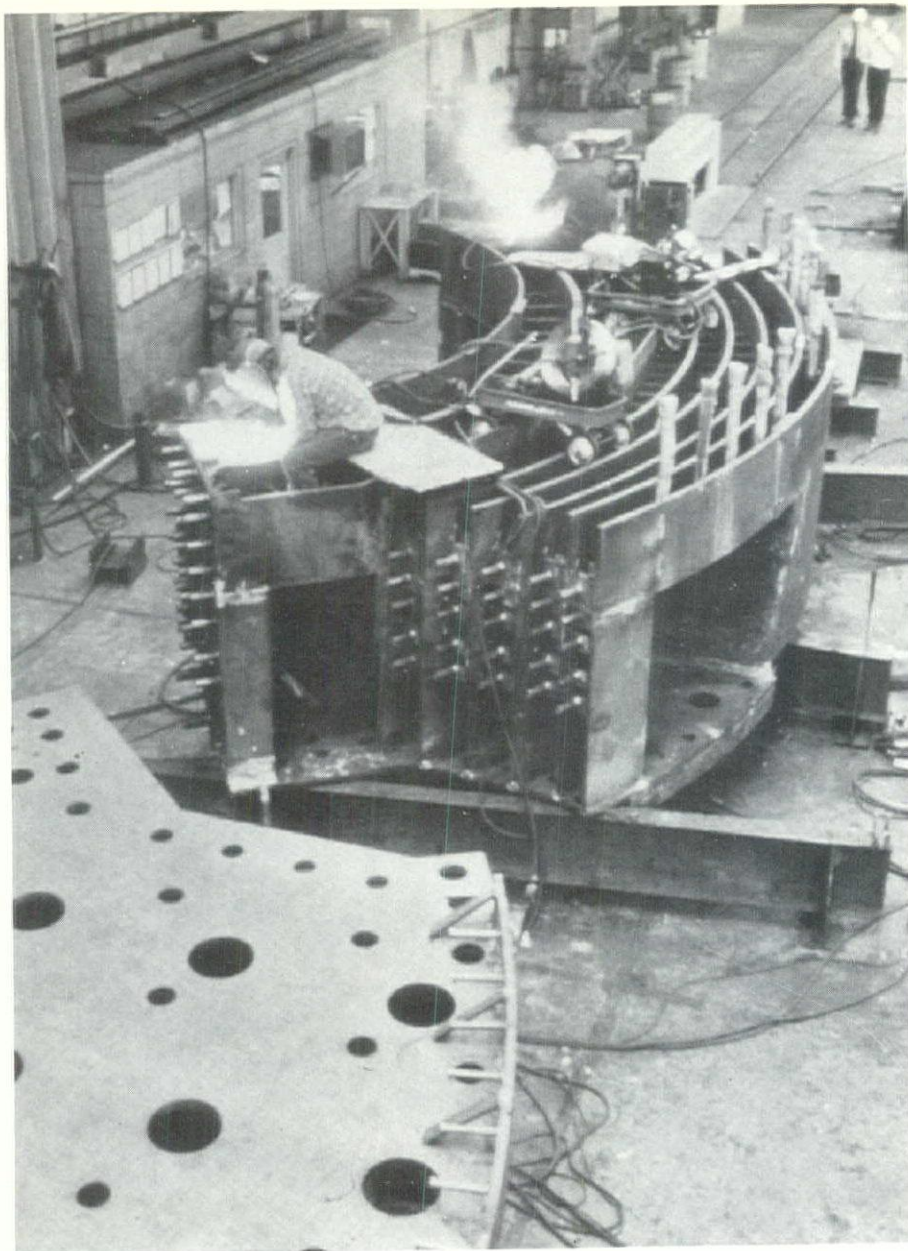
Fortunately for our society, it is becoming clearer day by day that conservation through adaptive reuse, renovation and preservation, where indicated by architectural quality, structural integrity or

*(Please turn the page)*



By  
Frederick E. Baukhages, IV, AIA





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historic significance, is a key to social/economic/political stability of our communities. Conservation, providing aesthetic and environmental rewards as part of the process, gives us savings in sub-structure cost such as streets, sidewalks, utilities, landscaping, zoning, and approval time saving. Architects and owners alike can receive yet another reward. For the architect, restoration has increased benefits since many additional services such as measured drawings, feasibility studies, program reevaluation and more detailed contract administration become basic services. The owner, in most cases, will meet his space requirements for fewer dollars and in shorter time and most likely he will have a lasting structure of which both he and the community can be proud.

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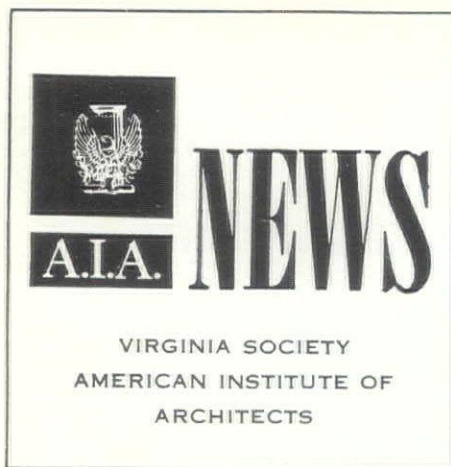
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NOVEMBER 1977

■ Every three months Virginia Architects have the opportunity to exhibit their creations and talents to a very large number of potential clients. The opportunity lies in the Virginia Architect's section of the Virginia Record Magazine which is distributed all over Virginia and to a vast variety of corporations, businesses, professional people and individuals. It is very important that their work be reproduced in a good quality, well designed manner to enhance the image of the Virginia Architect throughout Virginia and other states.

Before becoming involved with the Architect's Issue of the Virginia Record Magazine, I thought that the potential of this public relations medium left a lot to be desired in setting an image for the Virginia Architect. I had great ambition and enthusiasm for improving the Architect's Issue and developing it into the best public relations tool in the state. I was quick to find out and was very impressed with the high caliber and hard work of the former Architectural Editors and the Virginia Record's representative. Together they had vastly improved the Architect's Issue to its present appearance. The

frustrating situation that had plagued them and now plagues the current Architectural Editors is the relatively few projects submitted by our Virginia Architects. The amount of layout design freedom allowed the Architectural Editors depends almost entirely on the number of advertisements the Magazine can sell to the contractors and subcontractors of the various projects submitted. The more submissions by each Architect, the more advertisements that can be sold and consequently the more possibilities the Magazine Publishers can allow the Architectural Editors in the layout of the material. A few of the improvements that could be incorporated are more color reproductions, larger spreads for individual projects, a grouping of advertisements in the front and rear of the Magazine, and greater variety of graphics and paper.

Another important factor that can improve our Issue and the quality of our work would be the submission of good quality, well-composed, architectural photographs. This is best accomplished by the use of the professional architectural photographer. In photography, as in architecture, the best

work is accomplished by those who are dedicated to their work and have talent in their field of endeavor. The expense of a good quality photograph is well worth the cost for its use in both public relations and job development. The reproduction quality of a professional photograph is the most singular way in which every Architect could improve and enhance the reproduction of his creations and improve their appearance in the Architect's Issue of the Virginia Record Magazine.

Since these two factors were not revealed to me until we, the Architectural Editors, were directly faced with these problems, I felt a necessity to let the other Virginia Architects know the problems and to solicit their assistance in improving their image, not only in Virginia, but in other states as well. This could be the best Architect's Publication in the Nation with their help.

The Public Relations Committee  
Virginia Society, AIA

A handwritten signature in cursive script that reads "James H. Hening, Jr.".

James H. Hening, Jr., AIA



# WATKINS REGIONAL PARK NATURE CENTER

LARGO, MARYLAND

**FORREST COILE AND ASSOCIATES - ARCHITECT/ENGINEER**

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**VINCENT F. TANA - Photography**

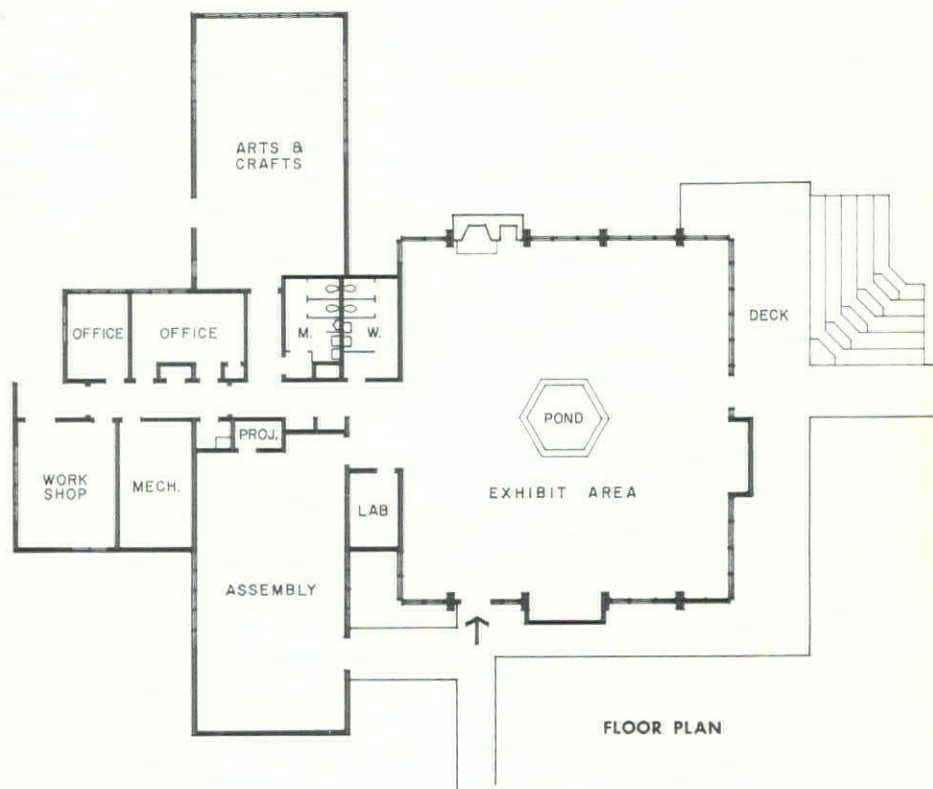
The serpentine walkway, cut neatly between tall stands of pine and oak, leads the visitor to a wooden footbridge over a deeply cut creek bed.

At the far end of the bridge Watkins Park Nature Center stands as a natural component of its surroundings. Hand-split cedar shakes, toned by the weather and laced by gently moving shadows from the surrounding trees, cover the broad expanse of the structure's roof. Exterior walls of bleached cedar are interrupted by the generous application of glass.

Inside, the use of materials common to the surrounding forest is continued. Interior walls are faced with natural cedar siding; glue laminated wooden arches span the steep cathedral roof.

The Nature Center educates the visitor as it serves as a point of entry and introduction to the park facilities. The exhibit area is a showcase of the park's features, highlighting the types of woodland birds, mammals, and characteristic plant life to be seen by the careful observer. In the center of the exhibit area, a built-in pond contains some of the aquatic life which may be found in the park's waterways. A stone fireplace provides supplemental heat as well as the warm tranquility of a glowing fire.

The arts and crafts room is used as an additional exhibit area. The room is completely surrounded by windows to provide maximum natural illumination.





Just outside the exhibit area, as an extension of the spacious wooden deck, amphitheater seating descends in a semicircle to the gently sloping site. This outdoor lecture hall allows the park naturalist to address large groups of visitors while they observe and become a part of the natural environment.

For more formal presentations, including lectures and children's educational and entertainment programs, the assembly hall is used. A rear projection room allows convenient showing of movies and slides.

In addition to the public areas of the Nature Center, office spaces are included for the park naturalist and his staff. A workshop and combined laboratory/darkroom complete the functional areas.

A concern for style as well as functional layout did not preclude the design of the Center for unrestricted use by all of its guests. Each exhibit, each element and feature of the structure from the access path to the outdoor amphitheater was designed toward the convenience of the handicapped visitor.

The Nature Center was designed to complement the administration building located nearby in the park completed by Forrest Coile and Associates in 1970. Both buildings blend naturally into the park's environment, providing an area where man's intrusion upon nature is kept to a minimum while his enjoyment of it is increased.

Bullock Construction Co., Inc. of Bowie, Maryland was general contractor and handled concrete work (slab on grade), carpentry, roof, wall and foundation insulation, gypsum board and painting.

#### Subcontractors & Suppliers

From Maryland were: B&C Paving, Inc., Mitchellville, paving contractor; Robert E. Lostraught, Inc., Camp Springs, foundations, masonry contractor & stonework contractor; Triangle Pacific Building Products Corp., Beltsville, millwork, paneling, cabinets (all wood except laminated beams) & windows; W.B. Maske Sheet Metal Works, Hyattsville, built-up roof; Belaire Plate Glass, Inc., Bowie, glass & glazing contractor; Amplitron Co., Rockville, sound system; and Joseph L.

Perrone Plumbing & Heating, Inc., Seabrook, plumbing contractor.

Virginia firms were: Cedar Roofs, Inc., McLean, cedar shake roofing; Fries, Beall & Sharp Co., Inc., Springfield, hardware supplier; B and B Floor Co., Springfield, resilient tile, carpet & special flooring (liquid applied vinyl); J & W Contractors, Inc., Alexandria, heating/ventilating/air conditioning

contractor; and Ewald Electric Co., Inc., Lorton, electrical contractor.

Others were: Structural Wood Systems, Inc., Greenville, Alabama, structural wood (glue laminated beams); and Maurice Electrical Supply Co., Washington, D.C., lighting fixtures/electrical equipment supplier. Sodding, seeding, etc. and landscaping were handled by the owner.

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# NORTHSIDE COMMUNITY PARK

## NORFOLK

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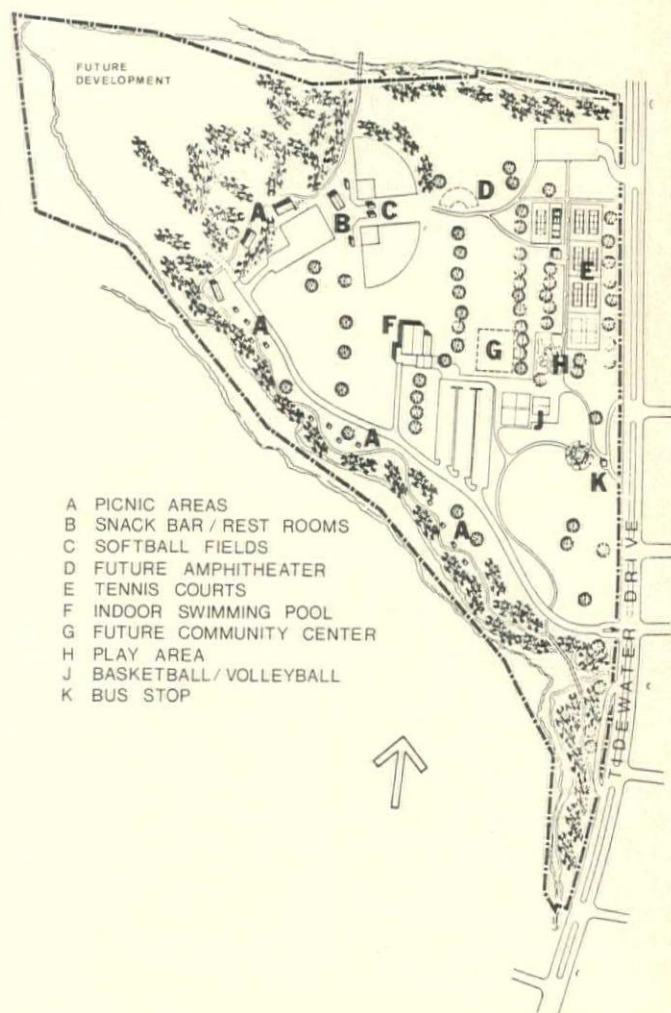
CARR CONSTRUCTION CORP.  
General Contractor for Recreational Facilities - Phase III

Interior Design and Photography BY THE ARCHITECT

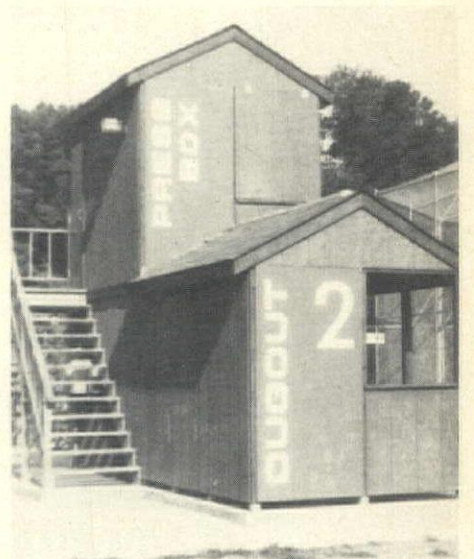
Recently completed and opened to the public, the new Northside Community Park will provide a much needed facility for the northern section of Norfolk. Situated on Tidewater Drive in the Oceanview area of the city, the Park will provide facilities for year-round indoor swimming, picnic areas, and outdoor recreation for all ages. Recreation facilities include softball diamonds, tennis courts, volleyball and basketball courts and tot lot equipment. Also included are a snack bar, rest rooms, three large picnic shelters, twelve small shelters, two bridges and trails.

Materials for the buildings were chosen to blend with the partially wooded site and to provide low maintenance and initial cost. The exterior of the buildings is rough sawn board with roof surface of asphalt shingles. Exterior metal is natural finished aluminum or ferrous metal painted with aluminum paint.

The interior of the Swimming Pool Building is generally painted concrete masonry walls accented with small areas of wood paneling and graphics. The roof is generally exposed wood









deck supported by laminated wood arches. Skylights are provided over the swimming pool.

The project was broken down into five construction contracts: (1) The Indoor Swimming Pool; (2) Recreational Facilities; (3) Tennis Courts; (4) Tennis Courts Phase III; and (5) Recreational Facilities — Phase III. The site work, utility work and landscaping was done by the owner, the City of Norfolk.

- National Construction Co., Inc. of Alexandria was general contractor for the Indoor Swimming Pool and also handled excavating, foundations, concrete work, reinforcing, carpentry, waterproofing, wall & foundation insulation, equipment and swimming pool.

#### Subcontractors & Suppliers

##### Indoor Swimming Pool

From Norfolk were: Lone Star Industries, Inc., concrete & masonry supplier; E.L. Hudson, masonry contractor; Hall-Hodges Co., Inc., steel grating; Mathews Decorating Co., caulking, gypsum board contractor, special flooring & painting contractor;

Binswanger Glass Co., glass & glazing contractor; Manson & Utley, Inc., ceramic tile, acoustical treatment & resilient tile; K & L Plumbing & Heating Co., plumbing contractor; C & P Air Conditioning Corp., heating/ventilating/air conditioning contractor; Graybar Electric Co., Inc., electrical equipment supplier; Service Electric Corp. of Va., electrical contractor; and Warner Moore & Co., Inc., skylights.

Others were: Structural Systems, Inc., Gaithersburg, Md., wood roof deck & structural wood; Swan Manufacturing Corp. Rockaway, N.J., handrails; Atlantic Roofing Co., Chesapeake, built-up roof, other roofing, roof insulation & sheet metal; The Ceco Corp., Kennelworth, Md., metal doors & frames, windows & hardware supplier; Pittsburgh Paints, paint manufacturer & special wall finish (glaze paint); Global Steel Products Corp., Deer Park, Long Island, N.Y., toilet partitions; David Rose Co., Poquoson, plumbing fixture supplier; Cargo Caire Engineering Corp.,

Amesbury, Mass., heat wheel; and, Lamp Seal & Stencil Co., Washington, D.C., graphics.

- A.T. Gregory Construction Corp. of Norfolk was general contractor for the Recreational Facilities and handled excavating, foundations, concrete work, reinforcing, roof deck (other), miscellaneous metal, carpentry, waterproofing, roofing, roof, wall & foundation insulation, sheet metal and gypsum board.

#### Subcontractors & Suppliers

##### Recreational Facilities

Norfolk firms were: Welch Pile Driving Corp., piling; Lone Star Industries, Inc., concrete supplier; John E. Wool Lumber Co., Inc., structural wood; Mathews Decorating Co., caulking & painting contractor; Seaboard Building Supply Co., Inc., metal doors & frames, windows, hardware supplier & toilet partitions; Martin Mathis Co., Inc., acoustical treatment; Ferrell Linoleum & Tile Co., Inc., resilient tile; Door Engineering Corp., toilet accessories; Schell Supply Corp., plumbing fixture supplier; Noland Co., lighting fixtures supplier; Square D Co., electrical equipment supplier; and L.E. Balance Elec. Systems, Inc., electrical contractor.

Others were: Pittsburgh Paints, paint manufacturer; Tony Annarino, Jr., Inc., Va. Beach, plumbing contractor; and A-1 Sheet Metal Co., Inc., Va. Beach, heating/ventilating contractor.

- L.J. Hoy, Inc. of Norfolk was general contractor for the Tennis Courts and handled excavating, sodding, seeding, etc., landscaping, concrete work, reinforcing, carpentry, painting and electrical work.

#### Subcontractors & Suppliers

##### Tennis Courts

Van Sumner, Inc., Chesapeake, paving contractor; Lone Star Industries, Inc., Norfolk, concrete supplier; Pittsburgh Paints, paint manufacturer; and Hercules Fence Div., Aluminum Specialties Co., Inc., Norfolk, fencing.

- Van Sumner, Inc. of Chesapeake was general contractor for the Tennis Courts — Phase III.

- Carr Construction Corp. of Virginia Beach was general contractor for the Recreational Facilities — Phase III, and handled excavating.



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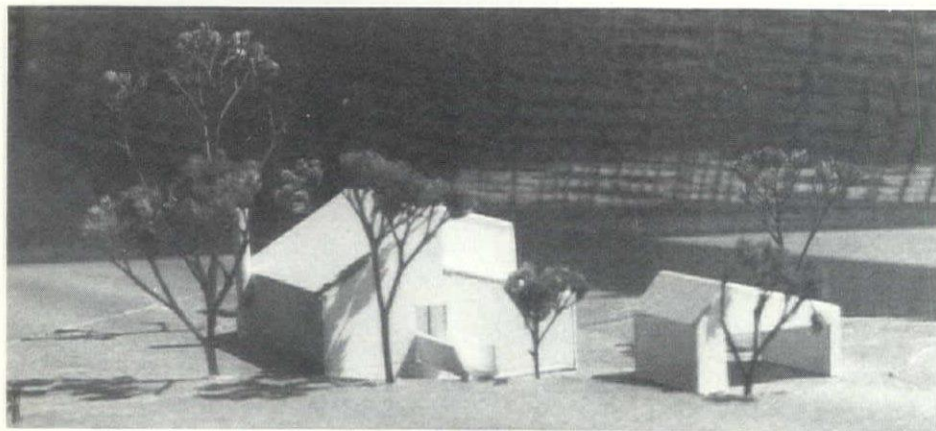
BROAD RUN, MANAKIN-SABOT

architectural  
design  
studio

james j. depasquale · aia  
ARCHITECT

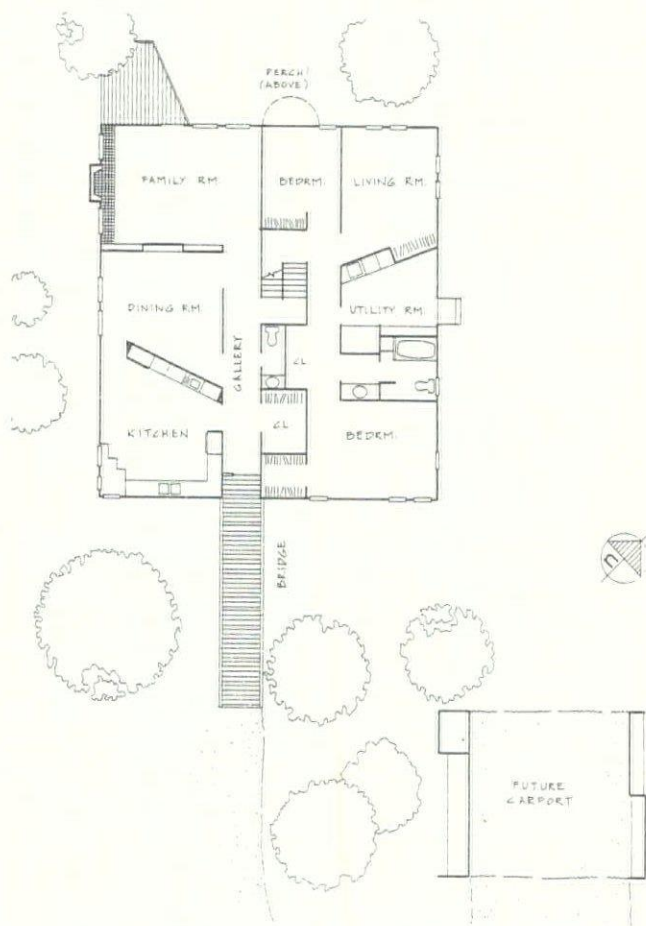
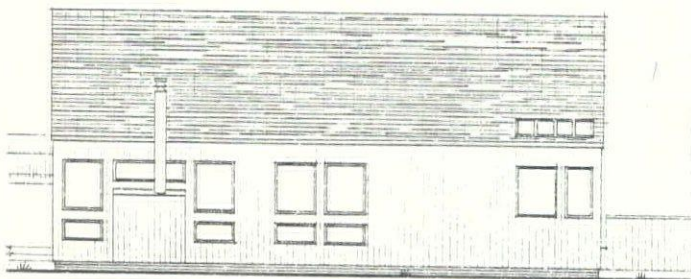
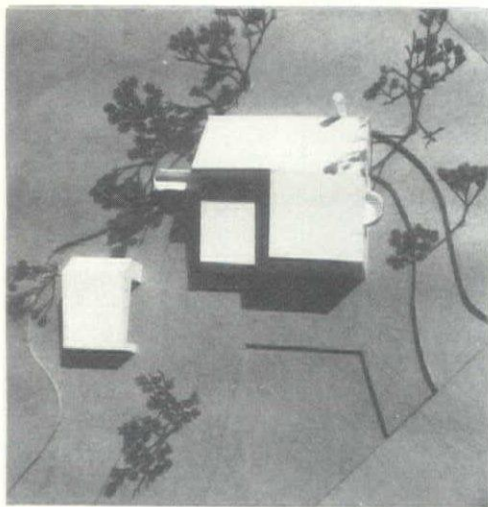
WILLIAM J. DAVIS, Consulting Engineer, Structural

DONALD B. HESLEP, INC., General Contractor



Site characteristics, the individual needs of the Kawczak family, and an emphasis on economical planning were the major design determinants for this 2400 square foot house.

The family room, living room, and master bedroom areas are located to capture the view towards a gently rolling hillside, and the gallery is on axis with a specially shaped window also orienting toward this view. The house was located on a portion of the site that included a "valley"; thus a





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bridge spans from the driveway area to the house. In order to integrate house and land, the main floor level is broken, stepping down the slope. This break also accentuates and distinguishes the separateness required between the public zone and the zone set aside for Mrs. Kawczak, Senior. The owner's Master Bedroom suite is then located above, with a balcony view into the sloped ceiling family room. At the end of the balcony is an outdoor porch with a view toward the hillside.

The plan is close to a square in shape in order to minimize the amount of perimeter wall used. A study of varying plan shapes indicated that a square can save as much as 10% in total construction cost over an irregularly shaped plan with 50% more perimeter wall.

Cedar board siding and cedar shakes will be used to help blend the house with its natural surroundings.

Donald B. Heslep, Inc. of Richmond was general contractor and handled carpentry.

Subcontractors & Suppliers  
(Richmond firms unless noted)

Vaughan English, Powhatan, excavating; Lone Star Industries, Inc., concrete contractor; R & M Masonry Brick Contractors, masonry supplier; Holmes Steel Co., steel supplier; N.B. Goodwyn, Chesterfield, millwork, wood doors, windows & gypsum board contractor; Powell's Kitchen Center, Inc., Sandston, cabinets; Cedar Roofs of Richmond, Inc., roofing; American Applicators, Inc., wall insulation; Ronald Black, ceramic tile; Louis Stratton, painting contractor; J.M. Clements, Inc., plumbing contractor; Daniel's Heating & Refrigeration Corp., heating/ventilating/air conditioning contractor; and R.C. Dawson Electrical Co., Inc., Hopewell, electrical contractor.

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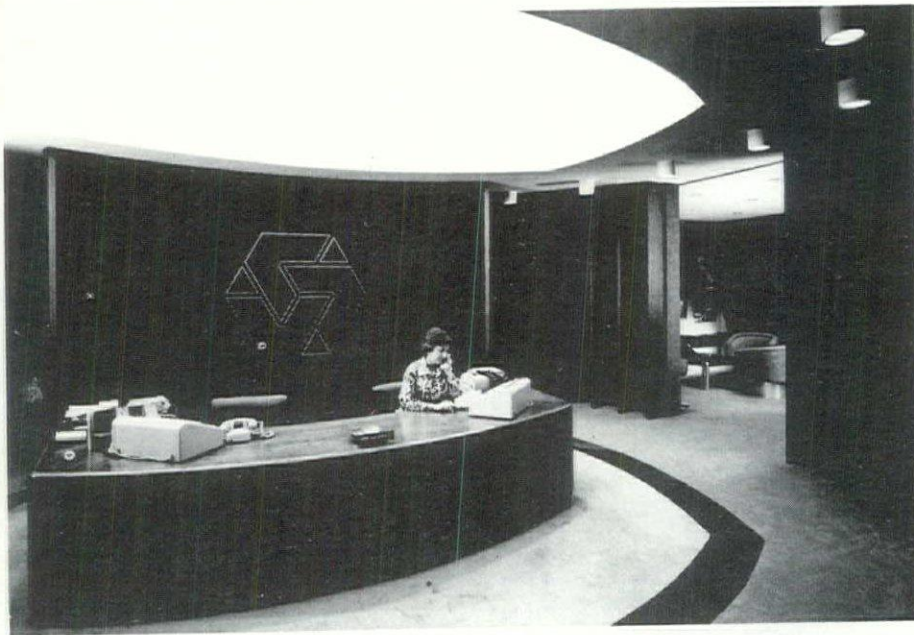
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Photography







Due to expanding facilities and needed space, in late March of 1973 Ballou and Justice, Architects & Engineers were commissioned to design a new Headquarters Building for the Bank of Virginia Company. The new building was designed to meet present and some future requirements, with the provision for two additional wings when needed.

In the Spring of 1976 the Bank of Virginia Company completed their move into the new building, located between Route 64 and West Broad Street (Rt. 250), a few miles west of Richmond's city limits, in Henrico County.

This \$12,000,000 Headquarters Building was begun in the Fall of 1973 when Davis and Spiers, General Contractors, Richmond, began work at the site. They completed the excavation, pile work and rough grading in the Summer of 1974.

The Whiting-Turner Contracting Co., Inc. of Baltimore, Maryland was awarded the building contract in July of 1974 and the building was occupied in the Spring of 1976.

The structure consists of a low-level basement area; four office floors and a penthouse. Each floor has an area of approximately 50,000 sq. ft.

The property has an extremely large parking area, which can accommodate 800 cars with room for expansion. In addition, there are some twenty spaces for visitors' cars near the main entrance. The parking area is well lighted and landscaped, and there are three exits and entrances to the 52-acre site; two from Broad Street and one from Cox Road (off Rt. 64).

Energy conservation was a major concern in the design of a building of this size and use. Departments such as the computer area which operates 24 hours a day, and the tremendous light, cooling and heating requirements required much engineering analysis. Robertshaw Controls Co. furnished the computer system programmed to reduce the electrical consumption by 20% to 25%. All electrical functions in the building are regulated by computer, which balances electric consumption. While there are standby boilers, the heating of the building is a function of its internal lighting — the ceiling plenum permits heat from each light fixture to be either







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rejected when air conditioning is needed, or recirculated as heating. In addition, the exterior of the building mainly consists of specially built, bronze tinted, duplex glass which acts as an insulating agent.

The first floor provides space for the main dining room, which also serves as a large meeting room; the kitchen facilities; three private dining rooms and a lounge. There is a branch bank near the main entrance for the convenience of the employees; and many offices of various bank functions.

The computer department and related offices occupies most of the second floor. The third floor consists of many general offices and departments of the bank, while the fourth floor is occupied by the executive officers, a board room and a number of large conference rooms.

Whiting-Turner Contracting Co., Inc. of Baltimore, Maryland, the general contractor for the project, handled concrete work, stonework, and carpentry. Davis & Spiers, Inc. of Richmond was general contractor for the foundation and pile work.

#### Subcontractors & Suppliers (Richmond firms unless noted)

Randolph Snead, sodding, seeding, etc.; Manakin Service Center, mulching, etc.; Watkins Nurseries, landscaping contractor; Lee Hy Paving Corp., paving contractor; Owens Steel Co. of N.C., Inc., Gastonia, N.C. and RRR Co., reinforcing & mesh; Lone Star Industries, Inc., concrete supplier; Concrete Structures, Inc., prestressed concrete; William E. Tucker, masonry contractor; Ernest Brothers masonry supplier; Flamingo, mortar; Economy Cast Stone Co., stonework supplier; Roanoke Iron and Bridge Works, Inc., Roanoke, steel-supplier/erection/grating, miscellaneous metal & handrails; Inland-Ryerson Construction Products, Baltimore, Md. and Wheeling Corrugating Co., steel roof deck; Miller Mfg. Co., Inc., and Erdman Lumber Co., Baltimore, Md., millwork; American Furniture & Fixture Co., Inc., paneling, cabinets, special flooring (parquet) & wood doors; also Erdman Lumber Co., Baltimore, Md., wood doors.

Others were: N.W. Martin & Bros., Inc., waterproofing & built-up roof;

E.S. Chappel & Son, Inc., caulking; John G. Kolbe, Inc., kitchen equipment contractor; Anning-Johnson Co., Melrose Park, Ill., concrete roof deck; R.G. Atkinson Irrigation Services, outside sprinklers; W.W. Nash & Sons, Inc., fireproofing; Dixie Metal Fabricators, Inc., sheet metal; Walker & Laberge Co., Inc., Norfolk, glass, glazing contractor, windows & window wall; Kawneer Co., Inc., Niles, Mich., metal doors & frames; Pleasants Hardware, hardware supplier; and, F. Richard Wilton, Jr., Inc., plaster contractor & gypsum board contractor.

Also, Peter Bratti Associates, Inc., New York, N.Y., ceramic tile; Waco Insulation, Inc., insulation; Taylored

Floors, Ashland, resilient tile; The H. Chambers Co., Baltimore, Md., carpet & wall covering; Shaw Paint & Wallpaper, Inc. Norfolk, painting contractor; Va. Co.-Building Maintenance Equipment, Norristown, Pa., window washing equipment; Robertshaw Controls Co., controls; Otis Elevator Co., elevators; Worsham Sprinkler Co., Inc., sprinkler contractor; Lloyd E. Mitchell, Inc., Baltimore Md., plumbing contractor (American-Standard fixtures) & heating/ventilating/ air conditioning contractor; The Howard P. Foley Co., electrical contractor; and, Cates Building Specialties, overhead doors, folding doors and gates, flagpoles & toilet partitions.

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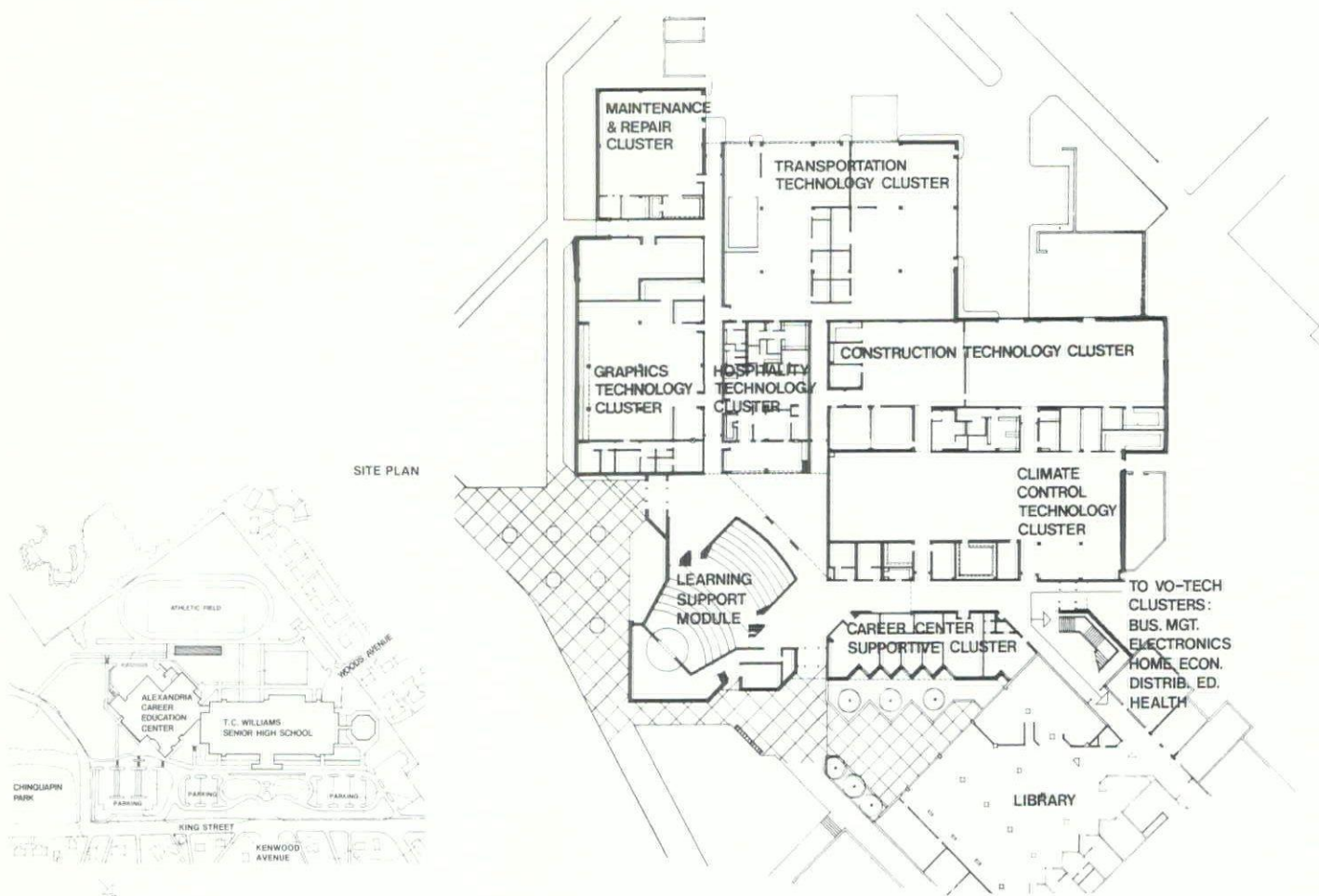
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RUSSELL LEDFORD CO. - General Contractor

STEVE EGGLESTON - Photography

PAGE TWENTY-TWO

VIRGINIA RECORD

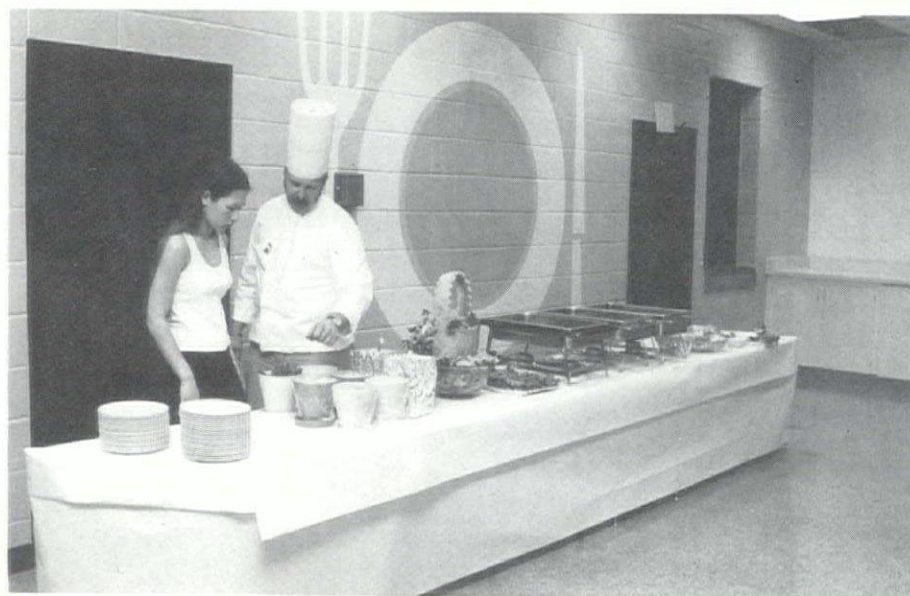
*Founded 1878*



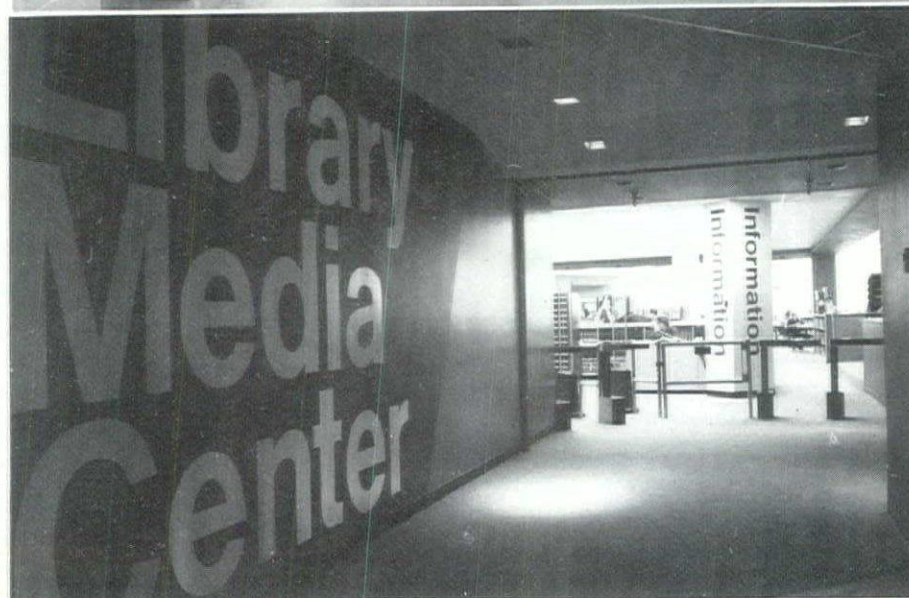
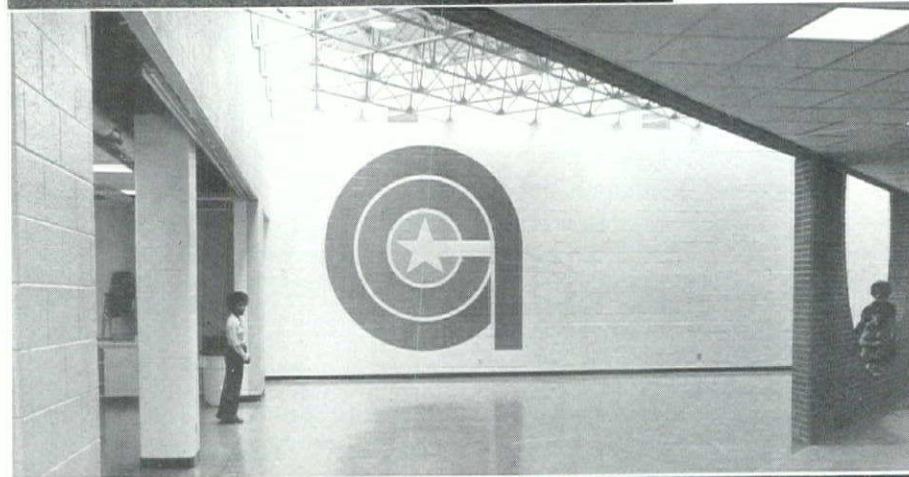
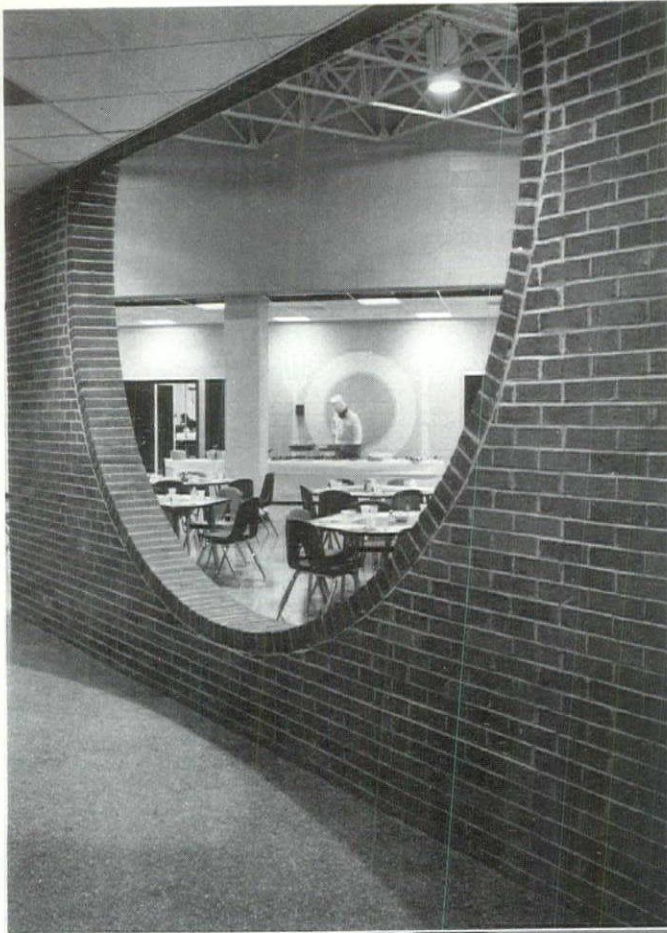


The new Alexandria Career Education Center is a school and community effort to make education more meaningful and more relevant to today's youth. For high school students it represents one of the most challenging opportunities ever offered them by their school system. The career center hopes to go far beyond the scope of even the most advanced comprehensive high school. The school system is positive that the center will break old patterns of education and embark on a broad and highly inventive approach to career development.

Physically the 63,000 square foot career center is located on the east side of T.C. Williams. It will be an extension of the existing high school, thus creating the best of two worlds, career and academic development. The career center will house its own environment control plant as well as a supportive administrative cluster. →







The Transportation Technology Cluster prepares students with entry skills in the automotive mechanic field. They learn to perform an engine-diagnosis and then carry out repairs correctly and efficiently, using whatever special tools and equipment necessary. The student repairs, overhauls, and maintains vehicles by applying knowledge of service procedures, and by using hand and power tools and specialized equipment.

In the Auto Body Repair and Refinishing course students learn the skills and technology essential for this trade. They become familiar with the techniques of working with metals, plastics, fiberglass, and other materials used in construction and proper repair of automobile bodies, through learning how to use tools of the trade. Within this cluster is a sub-cluster in operational procedures. Initial instruction is on laboratory demonstration units, followed by instruction on actual operating vehicles. Customers are allowed to have work performed on their vehicles, paying only for parts and materials used.

The cluster is flexible enough to allow students to complete and exit at various levels of instruction and training.

The Graphics Technology Cluster provides instruction and training for students at the junior and senior levels for careers in the field of printing. The classroom serves as a laboratory where students acquire the fundamentals necessary for job acquisition and advancement. Independent study is directed toward sharpening job skills needed for each student's specialized area.

Students may concentrate on one skill or explore the total graphics industry. They work with an array of advanced type setting and printing equipment, study new kinds of typography and learn binding operation and press reproduction.

Students are also exposed to both basic photography techniques and design fundamentals. Each phase of the sub-clusters is based on career choices available in this field.

The Construction Technology Cluster prepares students for entry level employment in the many areas of construction. Basic manipulative skills



and technical knowledge is gained through actual hands-on experience that illustrates correct use of tools, safe work habits, and cooperation among related trades.

Masonry, a sub-cluster, directs its training through mock construction of walls, partitions, fireplaces, chimneys and other structures of brick and block. Carpentry, also a sub-cluster, teaches through building erection, wall construction, installation and repair of structures, and proper use of carpentry hand and power tools. In both of these sub-clusters, students learn to read blueprints, estimate quantities of materials, learn building layout, and coordinate work with other building trades.

Electricity, another sub-cluster, permits the students to obtain the basic theory and skill development needed for entry level positions as electricians apprentices in residential wiring. Laboratory training in class and on location exemplify the close team work between the construction trades.

The Climate Control Technology Cluster provides the opportunity for students to acquire skills to service, maintain and install heating and air conditioning systems through both classroom instruction and laboratory experience. Students develop an understanding of the theory of heating and air conditioning and a good working knowledge of the purpose, design, and operation of these systems. Procedures for diagnosis and correction of faulty equipment is stressed and creates a most useful means of cluster proficiency. Students gain experience in working with food-storage walk-in systems, reach-in boxes, deep freeze units, water coolers, and ice machines. Studies of air conditioning system controls, load determination for controlling climate conditions, the refrigeration cycle, and characteristics of refrigerants as theory orientation are also included.

The Maintenance and Repair Cluster is structured so that students who have not made a decision on a career can have actual hands-on experience in as many trade areas as they wish. They will acquire sufficient knowledge and basic skills necessary to make a valid career choice. Basic operation funda-

mentals of electrical matters, small appliances and small gas engines help students determine career choice objectives.

A highlight of the Hospitality Technology Cluster is the separate facilities for training in commercial cooking, baking, and meat preparation. Food services prepares the student for employment in food-related occupations. Instruction and training include food preparation and service, menu planning and food purchasing, use and maintenance of equipment, sanitation, and employment policies. Emphasis is placed on selective buying and handling of food supplies and on instruction in all aspects of food service and distribution, as well as all areas of restaurant management.

Classroom experience is enhanced by the student operated snack bar connected to the lab facilities. Here students are taught quantity food preparation using the same equipment and tools used in large commercial establishments. The students rotate

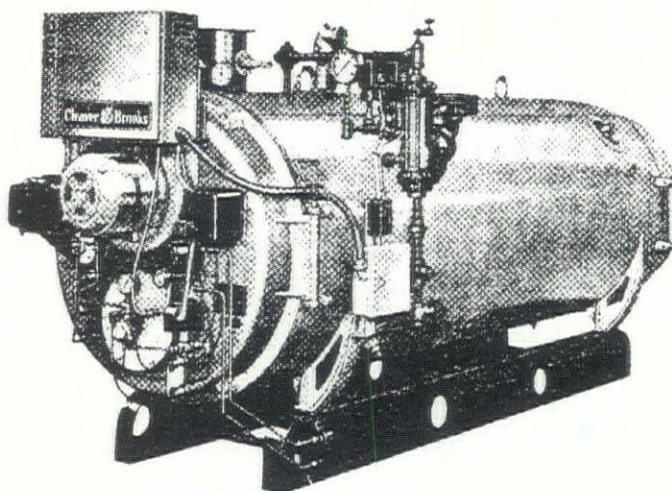
through all work stations to gain a working knowledge and to develop basic skills at each station.

The Learning Support Module has been designed as a general use facility for both school and community, and can accommodate up to 158 persons. Here, as in all other areas of building, the emphasis is upon total efficiency and flexibility.

The placement service sub-cluster is a career information center that serves all cluster programs. This sub-cluster is responsible for advising students of occupational opportunities and requirements necessary for employment as well as job placement.

The adult education sub-cluster is designed to develop and improve talents and skills of out of school youth and adults of the community. The career enhancement module sub-cluster will enable students to broaden that career choice foundation through exposure to cross discipline lectures, public presentations, and large group discussions. The community involvement of this

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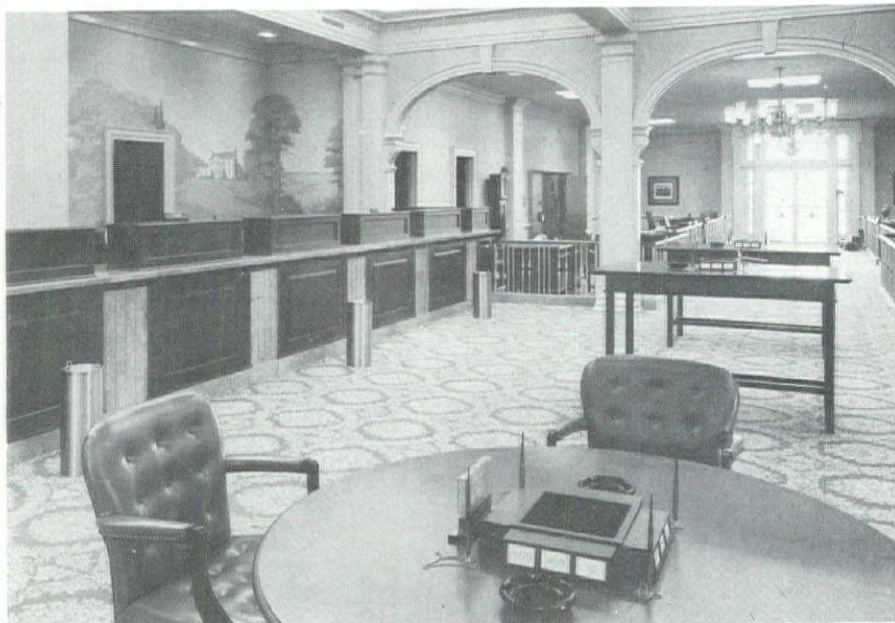
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module has unending application for the residents of Alexandria.

Additional Vocational Clusters are housed in the newly remodeled areas of T. C. Williams. There are a variety of clusters which require minimum remodeling, thus utilizing available space and thereby integrating career education programs into the existing high school.

The Business and Office Technology Cluster consists of curricula in the fields of data processing, computer technology and clerical and office occupations.

The Marketing Technology Cluster offers studies in salesmanship, advertising display, store organization and operation, product information and merchandising mathematics, fashion merchandising and senior marketing.

The Electronics Technology Cluster places its emphasis in home entertainment equipment repair and is an ongoing program in the system.

The Home Economics Cluster provides knowledge and skills necessary for employment in designing and dress-making.

The Health Career Cluster offers practical nursing for high school seniors and adults. This program consists of classroom theory coupled with pre-clinical experience at the Alexandria Hospital. The student is then eligible to take the state board examination for registration as a practical nurse.

Russell Ledford Co. of Silver Spring, Maryland was general contractor.

#### Subcontractors & Suppliers

Maryland firms were: Pleasant Excavating, Clarksburg, excavating; Pied Piper, Silver Spring, soil treatment; The Ceco Corp., Bladensburg, reinforcing; Strescon Industries, Inc., Silver Spring, prestressed concrete; Columbia Welders & Iron Works, Inc., Silver Spring, steel supplier/erection/joists/roof deck/grating, miscellaneous metal & handrails; Overhead Door Co. of Northern Washington, Beltsville, special doors; Hope's Windows, Inc., Silver Spring, windows & skylight; Boatman & Magnani, Inc., Capitol Heights, terrazzo; Hamilton Painting, Brentwood, painting contractor, special wall finish, wall covering; Global Steel, Silver Spring,

toilet partitions; S.W.G., Baltimore, toilet accessories; H.M.S. Electric Corp., Chevy Chase, electrical contractor; Republic Steel Corp., Baltimore, metal lockers; and Industrial Photographic Products, Inc., Silver Spring, darkroom revolving door.

Others were: Dominion Caissons, Alexandria, caissons; Southern Produce & Nursery, Alexandria, planting; Newton Asphalt Co., Inc. of Va., Alexandria, paving contractor; Martin Fireproofing Corp., Buffalo, N.Y., gypsum plank deck; CBS, Washington, D.C., curb & gutter, walks & aprons; Virginia Concrete, Springfield, concrete supplier; Arban, Fairfax, precast coping; Ruffin & Payne, Inc., Richmond, carpentry, structural wood & millwork; Prospect Industries, Inc., McLean, waterproofing membrane;

and, Virginia Roofing Corp., Alexandria, built-up roof, other roofing & roof insulation.

Also, Roanoke Engineering Sales Co., Inc., McLean, metal doors & frames; Fries, Beall & Sharpe Co., Springfield, hardware supplier; Acoustic Ceilings, Inc., Fairfax, acoustical treatment; Marty's Floor Covering Co., Inc., Alexandria, resilient tile & carpet; Marumsc Plumbing & Heating, Inc., Manassas, plumbing contractor (interior); Calvert-Jones Co., Inc., Alexandria, heating/ventilating/air conditioning contractor; Greensteel, Inc., Lorton, chalk & tackboard & projection screens; Gill Co., Inc., Vienna, commercial foods equipment; Watters, Fredericksburg, chainlink fence; and Douglas Distributing Corp., Washington, D.C., kitchen unit.

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PILAND CONSTRUCTION CO., INC. - General Contractor

R. ANDERSON MOBERG, AIA - Photography

Story by GERALD S. SWENSON

With the expansion of the Newport News Shipbuilding and Dry Dock Company north along the shoreline of the James River, the Shipyard Employees' Credit Union began its own expansion plans to serve the employees of the North Yard. An

unused brick structure in the upper fringes of downtown Newport News stood in a likely location for the branch office.

The task of renovation appeared formidable. For many years, the North End Pharmacy and the Rainbow Soda

Shop had occupied the structure; stubs of pipe and conduit, and worn linoleum flooring told where counters and display cases once stood. Utilities ran across the high ceilings at odd angles, disappearing into thickly plastered walls. Outside, city commerce and

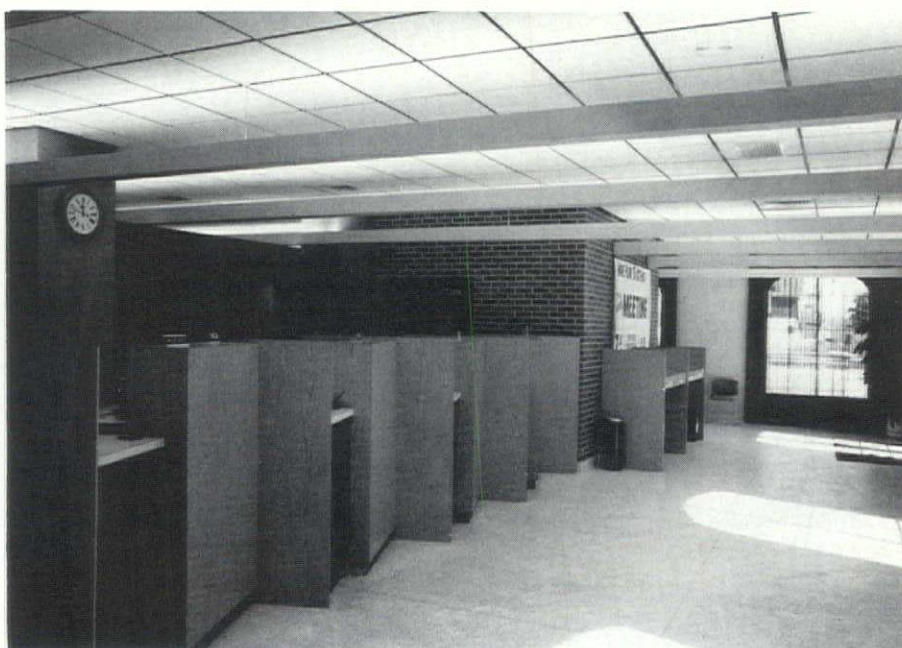




the natural elements had combined to wear and discolor the red brick walls.

But new lines for utilities were run. New brick facing and paint were applied to the exterior walls. Handsomely veneered cabinetry replaced soda fountains and prescription counters. The interior and exterior of the building gradually took on a new appearance.

Lightly arched windows and entryways with wide expanses of tinted glass now look out upon Newport News' morning thoroughfare. Scalloped clay roofing tiles running along the roof's edge were retained to provide a subtle contrast between the new and the old. Unpretentious signage announced the building's new function — the appearance matches. The once





unnoticed structure on the corner of 50th and Huntington is now seen.

The building's interior gives no hint of its former function. The wall between the two shops was eliminated — banking is conducted in the former pharmacy, the soda shop is the loan department. The only hint of the previous separation of the two elements is a slight rise between unequal floor elevations. A combination of

complimentary finishes — face brick on selected interior walls, terrazo flooring, and blonde cabinetry — combined with the limited application of bright colors, creates an inviting, non-institutional atmosphere.

Indirect lighting fixtures, pendant mounted, create diffused illumination which is supplemented by the natural light through generous window areas. This lighting technique reduces eye-

strain while it reinforces the warmth of the interior.

The building's mechanical components were designed toward maximum versatility in this low-tonnage application. Manual duct dampers with wall mounted controls are used to regulate air quantities to the various areas of the building when only the banking side fills with people during the noon hour rush. Similarly, high volume exhaust fans with automatic shut-off rapidly evacuate the smoke which accompanies this brief influx of patrons.

Dual heat pumps operate either singly or in tandem allowing the use of one unit at maximum efficiency for most days or both units for extremes in temperature.

As a result of an emerging sensitivity to the appearance of downtown Newport News, the community was as much involved in this renovation as the owner and his architect. Productive discussions among all those interested in the development of the Credit Union led to a final design which is a welcome addition to the building's urban environment.

Piland Construction Co., Inc. of Newport News was general contractor.

Subcontractors & Suppliers

(Newport News firms unless noted)

L.H. Perry, Inc., masonry contractor; Benson-Phillips Co., masonry supplier; Virginia Steel, Inc., Hampton, miscellaneous metal; Elliott & Co., Tarboro, N.C., cabinets; PPG Industries, Inc., Norfolk, glass, glazing contractor, windows & storefront; Waterfront Lumber Co., wood doors; Seaboard Building Supplies, hardware supplier; Able Drywall & Acoustics, Portsmouth, plaster contractor, gypsum board contractor & acoustical treatment; David G. Allen Co., Inc., Raleigh, N.C., terrazzo; Southeastern Tile & Rug Co., Inc., Hampton, resilient tile; Shaw Paint & Wallpaper Co., Inc., Hampton, painting contractor & wall covering; Everett Waddey, paint supplier; Brunk Mechanical Corp. plumbing/heating/ventilating/air conditioning contractor; Lam, Inc., Wakefield, Mass., lighting fixtures supplier; A.M. Savedge Co., Newport News, electrical contractor; and Mosler Safe Co., Richmond, vault & security systems.

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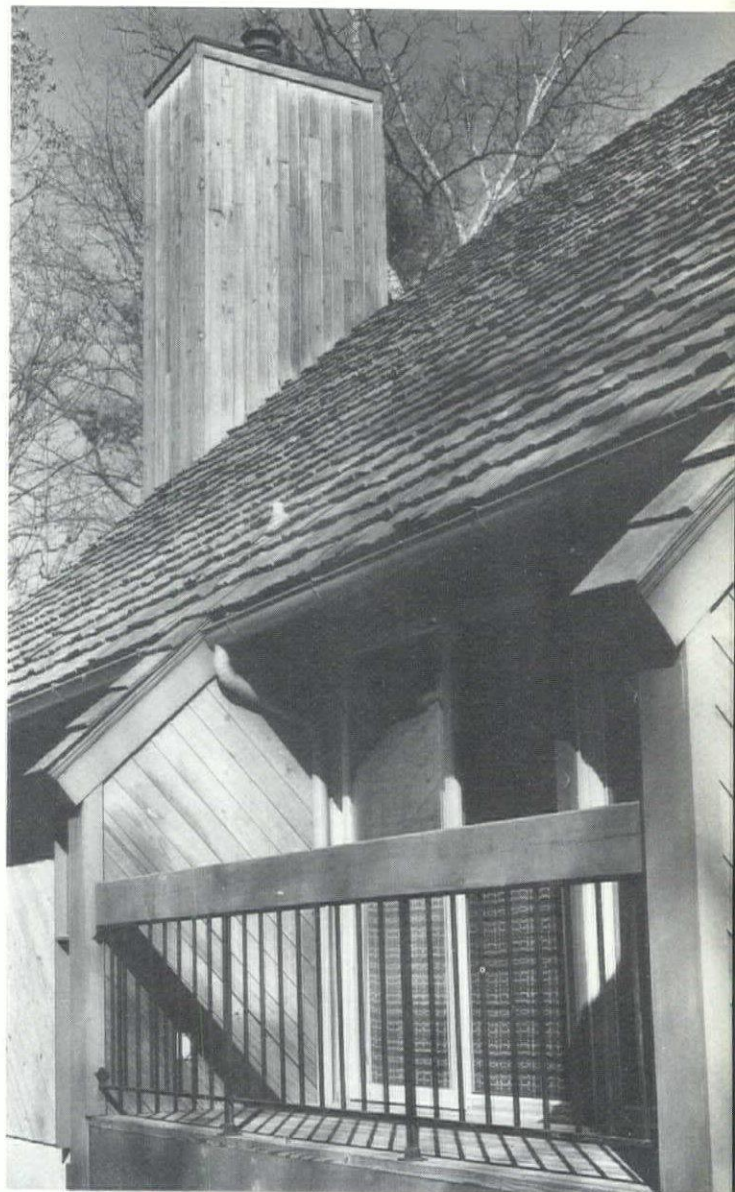
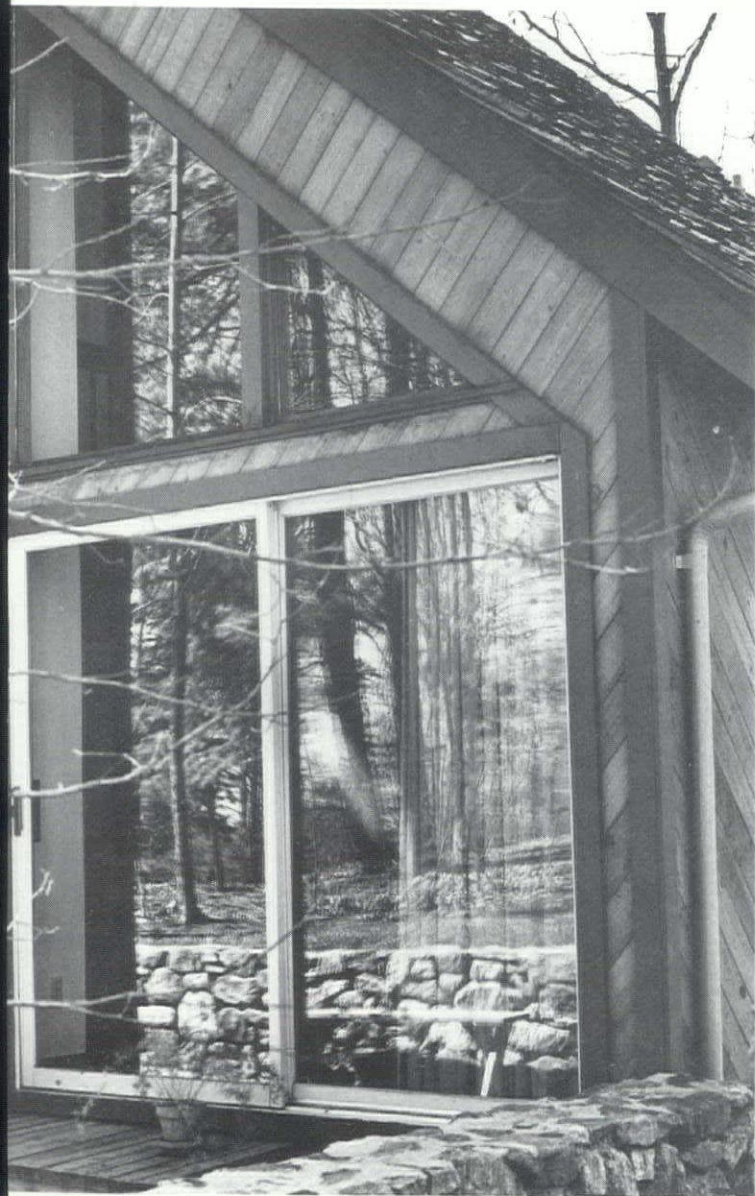
THE GELLETLY CO., INC.  
General Contractor

This residence was constructed on a site which had limited views toward the Blue Ridge Mountains. The rolling hills that surround the house are heavily wooded, therefore all of the vistas from

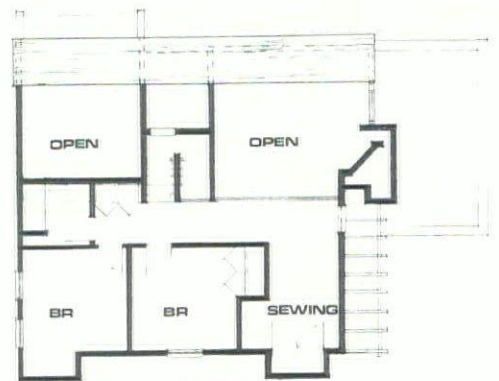
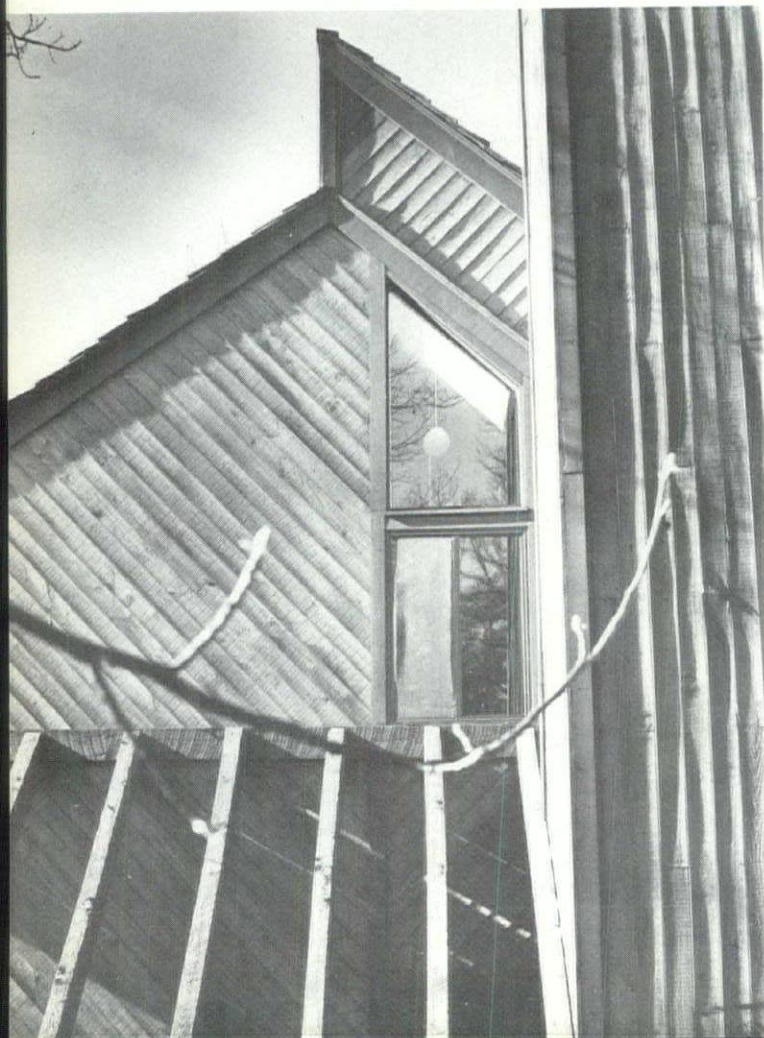
the inside to the exterior were captured through the use of the placement of the windows and the shapes. Dr. & Mrs. Broome also requested that the house blend in with the heavily wooded area

and reflect the indigenous barn shapes which are found throughout this part of Albemarle County.

The exterior siding is treated, rough-sawn shiplap pine, placed in both







SECOND FLOOR



ENTRANCE



vertical and diagonal patterns with insulated glass throughout.

Cathedral ceilings above the living room open up into the sewing area and create a visual space, with rough-sawn timbers reflecting the open loft areas found in barns. Clerestory windows at the apex of the roof send shafts of light throughout the interior and exaggerate the effect of the wood beams. A cathedral ceiling over the master bedroom incorporates high clerestory windows, giving the owners an uninterrupted view of the tops of the trees and the sky.

The entrance to the house is emphasized by passing under the rough-sawn cedar timbers, along a landscaped garden. The circulation of the plan reflects the life style of the owner. Outside areas are defined through the use of field stone walls and patio flagging.

The house has been designed to have a two-car garage, storage and covered walkway added which will connect into the family room. Rough-in plumbing in the walk-out lower level enables a future bathroom and game room expansion.

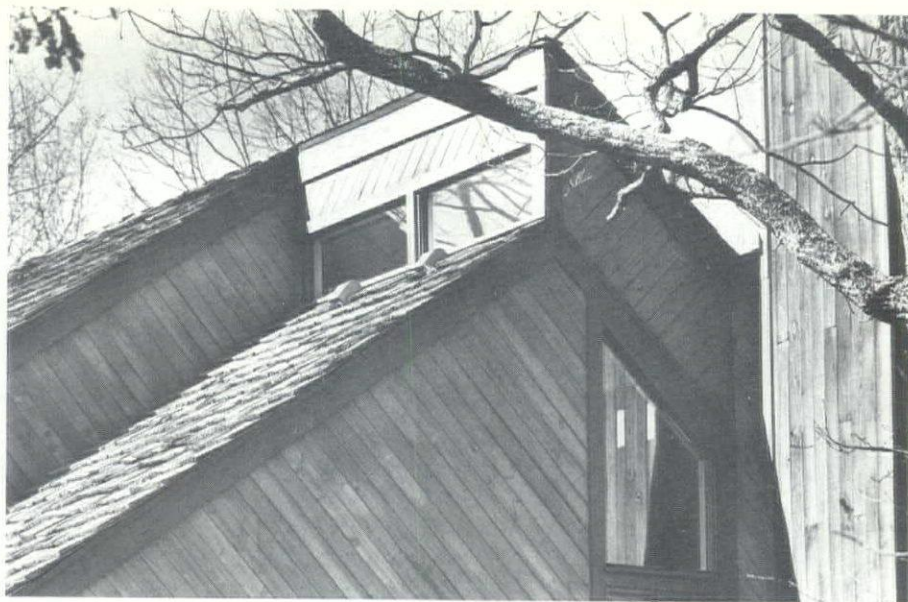
The heating and air conditioning is through heat pumps zoned to permit the most efficient energy use.

The Gelletly Co., Inc., of Charlottesville was general contractor and handled excavating, foundations, carpentry and painting.

#### Subcontractors & Suppliers

(Charlottesville firms unless noted)

Cedar Roofs of Richmond, Inc., Richmond, roofing; Virginia Glass Co., Inc., glazing contractor; Troxell Dry-wall Co., gypsum board contractor; Floor Fashions, ceramic tile & carpet; Oliva & Lazzuri, Inc., ceramic tile; Paint Plus, paint supplier; Noland Company, plumbing fixture supplier; Bryan & Beck, Inc., plumbing/heating/ventilating/air conditioning contractor; Piedmont Electric, lighting fixtures/electrical equipment supplier; Ryalls Electric Co., Inc., electrical contractor; and Barnes Lumber Co., manufacturer of siding.











# **GREAT NECK BRANCH LIBRARY**

**CITY OF VIRGINIA BEACH**

**THE DESIGN COLLABORATIVE - ARCHITECT**

**LASZLO ARANYI, AIA - PRINCIPAL IN CHARGE**

**BOWMAN & ASSOCIATES, P.C., Consulting Engineer, Mechanical/Electrical**

**JOE D. GLENN, JR. & ASSOCIATES, P.C., Consulting Engineer, Structural**

**THE DESIGN COLLABORATIVE - DOROTHY SLONE, Interior Design**

**BEACH BUILDING CORPORATION, General Contractor**

**LASZLO ARANYI, Photography**

## **SITE**

The library is located in an area that was part of the sewage treatment system of the City of Virginia Beach just a few years ago. Today it is developing into an area providing varied city services: a fire station, a park and a junior high school. Additional land is still available for future buildings including a proposed Public Health Center.

## **BUILDING LAYOUT**

In addition to the main library stack and circulation area, the Great Neck Branch Library includes a small exhibit area, a children's story area complete with a stage and crafts section and the library system's centralized Cataloging and Processing Center. The 10,400 square foot facility has the capacity to house 35,000 volumes and will provide seating for about 120 library users. The building takes advantage of its natural surrounding without sacrificing much valuable wall space through the use of glass enclosed reading areas.

## **INTERIOR DESIGN**

Books stacks are arranged in a diagonal pattern in order to gain better control by allowing the staff to view each aisle from the circulation desk. With this arrangement, lighting fixtures are located over each aisle so that book titles may be easily read.

The interior color scheme is coordinated to provide restful and quiet surroundings with some accent colors to avoid monotony. Most of the colors will be supplied by the books and the people in the building.



## LIGHTING

All lights are fluorescent in order to save on energy and reduce maintenance. The light fixtures are slightly recessed in the vaulted ceiling system to deemphasize the light source itself. Most of the light fixtures are switched so half the tubes can be turned off during daylight hours.

## HEATING AND AIR CONDITIONING

Four roof top units serve the building and provide four separate zones of comfort conditioning. The air enters and leaves the room through the narrow slits in the ceiling system. Humidification is provided during the heating season to prevent the books from drying out.

## SIGNS

The signs were designed to enable library patrons to locate easily the various sections of the library. Attached to the shelving end panels is a changeable sign system to allow for collection shifts within the Dewey Decimal sequence.

## CONSTRUCTION METHODS

With the exception of exterior masonry bearing walls, the structural system, movable partitions, ceiling system, lighting, heating and air conditioning units are integrally designed into a system called space grid, which allows for large open spaces, while providing flexibility to meet changing requirements.

An innovative consideration is the use of a loose laid membrane roofing system. Rubber elastomeric sheets, 3/64 inch thick, are laid over 1½ inches of loose laid insulation. The sheets are secured at the perimeter of the roof. Only three major splices are required to cover the entire roof surface, thus greatly reducing the probability of leaks. Gravel ballast is spread over the membrane. The roofing system can be installed much more efficiently than the conventional gravel and pitch build-up roof and should prove to be basically maintenance free over the life of the roof system.

## HANDICAPPED PROVISIONS

The building is designed to be easily accessible to the handicapped. Provisions include separate parking, ramps and toilets equipped for the handicapped users. All accessories such as telephones, water fountains, and mirrors are mounted at the proper height for wheel chairs.

## SERVICES

A wide range of services such as children's programs, interlibrary loan, reference, basic book collections for educational and recreational reading as well as special programs will be offered to Virginia Beach residents.

## CONTRACTORS, SUBCONTRACTORS AND SUPPLIERS

Beach Building Corporation of Virginia Beach was general contractor and handled foundations, concrete work and carpentry.

From Virginia Beach were: Variegated Construction Services, excavating & grading; Asphalt Roads & Materials Co., Inc., paving contractor; C.L. Pincus, Jr. & Co., steel erection; Fett Roofing & Sheet Metal Co., Inc., membrane roofing & sheet metal; Architectural Products Co., metal doors & frames; Seaboard Paint & Supply, hardware supplier; Matthews Painting & Drywall, Inc., gypsum board contractor, painting contractor & paint supplier (Fuller O'Brien Paints); Bennett Hooks, ceramic tile & resilient tile; Carpet Circus, carpet; and Bay Harbour Trane, heating/ventilating/air conditioning contractor.

Norfolk firms were: Terminix, soil treatment; Hall-Hodges Co., Inc., reinforcing; Stephenson Masonry, Inc., masonry contractor; Walker & Laberge Co., Inc., glass, glazing contractor, window wall & storefront; and Kemp's Plumbing & Heating Corp., plumbing contractor.

From Chesapeake were: Burton Lumber Corp., millwork, paneling & wood doors; and Brooks Electric Co., Inc., electrical contractor.

Butler Manufacturing Co. of Kansas City, Missouri was steel supplier, and handled steel joists, steel roof deck, acoustical treatment and wall covering.

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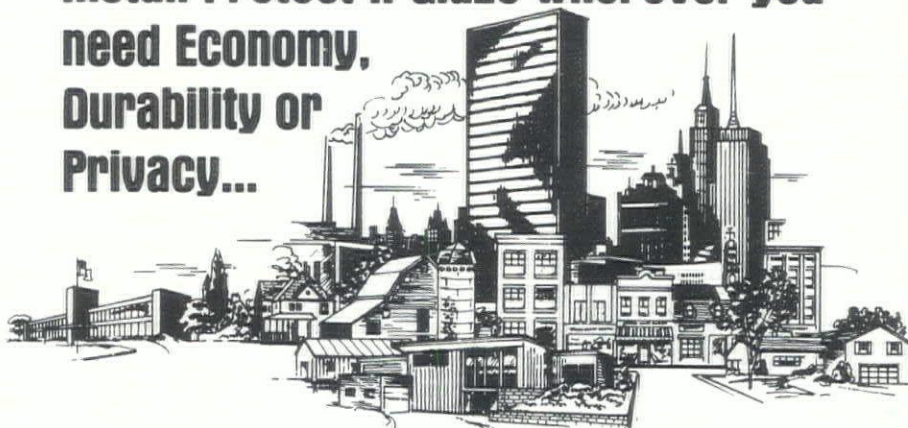
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# 3 CHURCH PROJECTS

BY HERMAN C. GRUBE, AIA

## NEW SANCTUARY ROCK CHURCH VIRGINIA BEACH

LEI LOHMAN, P.E.  
Consulting Engineer,  
Mechanical/Electrical

CRAIG & STROUD  
Consulting Engineer,  
Structural

ART ROSS  
Photography

The outreach activities of this evangelical church, coupled with a dynamic husband and wife pastorate team, created the need for a larger and more flexible worship and learning center.

"Brother John" as he is more affectionately known, insists that the overall design of the new sanctuary was given to him by revelation. It must be in the round and should seat well over 3,000. Parking for the new sanctuary was just squeezed in.

A special design feature, suggested by Deacon Ken Thompson of the church, was that of a reverse sloping floor to allow headroom as the balcony floor was lowered to a more horizontal sight line to the chancel.

Since the church encourages visiting ministry, there was a need for larger facilities for meetings and educational use, with space requirements several times higher than normal. Much study went into the preliminary plans by the church prior to final acceptance.

Since peripheral parking was found to be the best solution, this brought about the need for several entrances as important as the main lobby. The four fire stairs serve the front classroom areas which partly wrap around the circle. Two other fire stairs handle the offices and church functions which again partly wrap around the rear  
*(Continued on page 41)*

## ADDITIONS TO WEST RADFORD CHURCH OF GOD RADFORD

ART ROSS  
Photography

Some church organizations enjoy a steady stream of growth like the West Radford group. Crowded class rooms forced the expansion program — a 10,500 sq. ft. addition. There was a need for space in all areas of activity; namely, worship, fellowship and educational. Thus, the present sanctuary had to be enlarged.

Renovation of existing classroom facilities was done along with increasing the seating capacity.

A two-story educational wing on the left answered the need. It also included pastor's study and church office.

The much needed fellowship hall completed the right wing addition with scissor trusses spanning 40' to give it height and a supporting 20'x20' kitchen.

Connecting these functions, a new entrance vestibule and prayer room were added.

A new air conditioning system was added to the existing 300 seat sanctuary, as well as the new fellowship hall. Because of scheduling different classes in accordance with various age groups, the educational wing utilizes self-contained, window type air conditioning units. The pastor's study and general office are also served this way. Electrical demands required additional, larger service.

The facade of the existing sanctuary required removal of old stonework. A brick veneer was added in its place to blend in with the two new wings.

Additional parking was afforded in the rear lot, adjacent to the front lot.

In spite of severely cold weather, the  
*(Continued on page 43)*

## DENBIGH CHURCH OF GOD NEWPORT NEWS

D.W. ALCORN  
Consulting Engineer  
Mechanical/Electrical

CRAIG & STROUD  
Consulting Engineer  
Structural

ART ROSS  
Photography

From a small beginning of just over a hundred persons, this Pentecostal Church group hung in there, holding services in an old library building in downtown Newport News.

With an extremely low budget of less than \$280,000 for everything, including furnishings, this faithful group, led by a dedicated pastor, took on the task of building their permanent house of worship.

A radial, arched, laminated wood roof was chosen to span the 80' diameter.

Because of the close contact the minister enjoys with his flock, the chancel platform reaches out in the midst of the congregation, solidifying the relationship as the word is spoken. A small balcony over the main entry doors takes care of the overflow crowd.

Green upholstery was chosen to accent the warm tones of natural stained fir planking and laminated wood arches. The brick veneer framed wings with 40' rafters accelerated construction.

Air conditioning zones controlling each wing and the sanctuary separately were located within the attic and loft spaces. Lighting of the sanctuary is controlled by several dimmer switches for diversity.

An array of color was provided by a careful balance of vinyl wall covering to  
*(Continued on page 43)*





*Denbigh Church of God*



*New Sanctuary  
Rock Church*



*West Radford Church of God*



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## ROCK CHURCH

(From page 38)

portion of the circle. A wood lamella dome covers the circle from a 22' spring line. Steel columns, fireproofed, support the dome at tension ring.

Several packaged air conditioning units, situated for optimum results, provide a comfort level in keeping with the size of crowd which varies from service to service.

Lighting is low level, blending with a warm accent umber of the padded pews.

Direct telephone access from usher stations to a Control Booth up above balcony and chancel platform provides flexibility during services.

Acoustically, there is no bell action. The fiberglass faced sounding baffles, fronting the balcony and rear wall, coupled with suspended acoustical hexagonal ceiling sections, provide adequate acoustics.

Special electronic phone jacks, located in specific pews, assist the handicapped.

Perhaps the most important aspect of this house of worship stems from the people power it provided to build the church. Many persons of various faiths contributed time, money and talent, learning as they worked, to provide the skill required to complete the church within the requirements of time and money. As a result, the church was nearly paid for at the time of opening.

Rock Church acted as its own general contractor and handled excavating, sodding, seeding, etc., landscaping, foundations, concrete work, carpentry, paneling, cabinets, caulking, wall insulation, glazing, gypsum board, plumbing, heating, ventilating and electrical work.

Subcontractors & Suppliers  
(Virginia Beach firms unless noted)

Asphalt Roads & Materials Co., Inc., paving contractor; Hall-Hodges Co., Inc., Norfolk, reinforcing; Lone Star Industries, Inc., Norfolk, concrete supplier; Bryan Smith, masonry contractor; Paracrete Masonry Unit Manufacturer, Richmond, masonry supplier; Batchelder & Collins, Inc., Norfolk, mortar; Rae Steel Co., Inc., steel supplier/erection, miscellaneous metal & handrails; Guille Steel Products Co., Inc., steel joists & steel

roof deck; Eastern Roofing Corp., Norfolk, other roof deck, built-up roof, roof insulation & sheet metal; and Koppers Co., Inc., Raleigh, N.C., structural wood.

Also, Seaboard Building Supply Co., wood doors & hardware supplier; Schell Supply Corp., plumbing fixture supplier; and Southeastern Electric Supply Corp., electrical equipment supplier.

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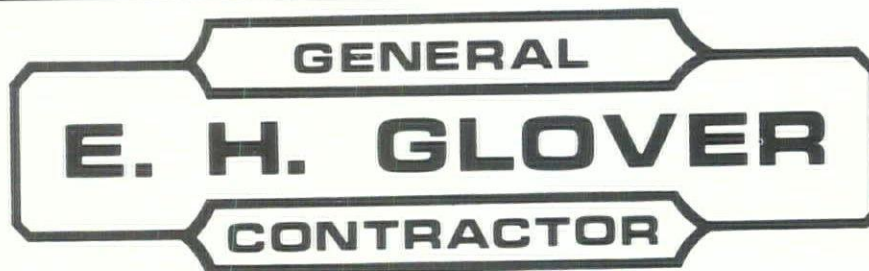
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## WEST RADFORD CHURCH OF GOD

(From page 38)

project was completed well within a nine month period.

Subcontractors & Suppliers  
(Radford firms unless noted)

S&S Construction Co., excavating & paving; S.C. Voliva Construction Co., Va. Beach, sodding, seeding, etc., landscaping, landscaping contractor, foundations, concrete contractor, carpentry, cabinets, waterproofing, caulking, roofing, foundation insulation, sheet metal, glazing contractor, and acoustical treatment; Reed Lumber Co., Christiansburg, reinforcing, masonry supplier, mortar & miscellaneous metal; North Radford Septic Tank Service, Inc., concrete supplier; D. Bowers Masonry Contractor, Christiansburg, masonry contractor; and, Sale Bros. Supply, Inc., handrails, structural wood, millwork, paneling, metal doors & frames, wood doors, & hardware supplier.

And, Miles Insulation Co., roof & wall insulation; Fiberglass Specialties, Inc., Henderson, Texas, fiberglass, windows & equipment — Baptistry & Steeple; Holmes Drywall & Decorating, plaster contractor & gypsum board contractor, painting contractor, paint supplier, special wall finish & wall covering; J.C. Law & Son, Norfolk, ceramic tile; DeHart Tile, Inc., resilient tile & carpet; Seaboard Paint & Supply Co., Inc., Va. Beach, specialties; E.B. Morris, Pulaski, plumbing fixture supplier & plumbing contractor, Chapman Heating & Cooling Co., heating/ventilating/air conditioning contractor; and Star Electric Co., lighting fixtures/electrical equipment supplier & electrical contractor.

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## DENBIGH CHURCH OF GOD

(From page 38)

enhance the lounges which served several groups of children under the Day Care System.

The owner handled carpentry, cabinets, waterproofing, some wall insulation and painting.

Subcontractors & Suppliers  
(Newport News firms unless noted)

Lewis Lovett, Hampton, excavating; F.J. Mears, sodding, seeding, etc., landscaping & landscaping contractor; Hill Concrete Construction, Inc., foundations, concrete contractor, reinforcing & foundation insulation; Travis, Inc., Williamsburg, foundations & masonry contractor; Benson-Phillips Co., Inc., concrete supplier, masonry supplier, mortar & stonework supplier; Howard Herman, stonework contractor; Chesapeake Steel, Inc., Norfolk, steel supplier/erection/joists/grating; Warner Moore & Co., Inc., Norfolk, roof deck; Koppers Co., Inc., Morrisville, N.C., structural wood; R.T. Norris Building Supplies, paneling; Colonial Glass, Williamsburg, caulking, glass, glazing & windows; and Leonard Roofing Co., Hampton, built-up roof & other roofing.

Lowe's of Newport News, Inc., roof & wall insulation; Seaboard Paint & Supply Co., Inc., Norfolk, metal doors & frames, wood doors & hardware supplier; W. Causey, plaster contractor; Able Drywall & Acoustics, Portsmouth, gypsum board contractor & acoustical treatment; Brunk Tile & Interiors, ceramic tile, structural (glazed) tile, terrazzo & special flooring; Jim Way, carpet; Classic Paint & Wallpaper Centres, paint supplier & wall covering; Hampton Paint Mfg. Co., Inc., Hampton, paint manufacturer; Coastal Plumbing, Norfolk, plumbing fixture supplier & plumbing contractor; Bay Harbour Trane Air Conditioning Co., Va. Beach, heating/ventilating/air conditioning contractor; Noland Co., lighting fixtures/electrical equipment supplier; York Electric, electrical contractor; Iron Shop, Bloomall, Pa., stairways; Drexel Furniture Co., Hickory, N.C., church furnishings.

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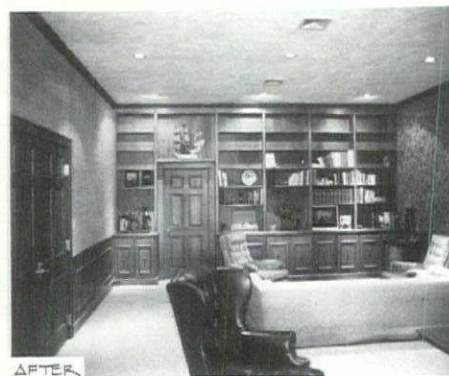


# EXPANSION/REMODELING FOR HARVEST MOTORS

SALEM

**BYRON R. DICKSON, JR. - ARCHITECT**

Photography by THE ARCHITECT



From Candy Company to automobile dealership, a most productive exercise in "adaptive" use.

Harvest Motors in 1963 purchased their neighbor, Old Dominion Candy Company, thereby increasing their Salem, Virginia dealership to 15 acres and acquiring a very serviceable 19,000 square foot light manufacturing facility. After the candy company ceased operation in 1975, the first item of expansion was the immediate addition at the rear of this existing building of a 4,800 square foot truck repair area. This taken care of, attention was focused on the refurbishment and expansion of the remaining space.

The growth of Harvest Motors parallels the development of the City of Salem. This dealership can trace its origins back to 1902 when the Salem Livery was purchased and in 1917 began selling cars. Today, the organization is the pride and property of Mr. George P. Moore, Jr., a dynamic entrepreneur, who since 1962 has developed the franchise to its present level of activity. Mr. Moore added in July of this year the Pontiac line to his stable of Fords and Jeeps. Harvest Motors is now the largest automobile facility in the Roanoke Valley in terms of area to display inventory, sell and service cars and trucks.

The program for revitalization of the candy company facility was divided into three phases. Phase One was the immediate alteration of 15,000 square feet of existing space into service and parts storage usage. Phase Two called for the provision of 3,000 square feet of

high integrity office space and sales area. Phase Three would provide a 2,400 square foot addition to the front of the existing building which will be used for outdoor display of automobiles. Also, Phase Three includes the development of attractive landscape amenities.

Phase One alterations included the development of service bays and automobile preparation areas. Two highly specialized paint booths accommodate the needs of a busy finishing department. The large, parts storage area is essential to accommodate the inventory needed to insure that customers' needs will receive immediate attention.

Phase Two called for the administrative area to be remodeled into plush executive quarters to accommodate upper management and a portion of the sales staff. An executive dining room with kitchen, customized office space and a conference board room are provided.

Phase Three is an addition to the front of the existing building. A large canopy over the outdoor display area will protect four to six automobiles. Exterior circulation patterns serve to accentuate a beautiful two stage fountain which has become the focal point of the total complex.

Interior finishes are primarily carpet on floors, a fairly balanced mixture of paint and decorative wall coverings on vertical surfaces and acoustical tile ceilings. The administrative areas have a year-round air conditioning system which operates on electricity. Ample use is made of creative lighting tech-



niques. Interior design motifs are generally traditional in character.

Exterior surfaces adjacent to the main approach arteries have been given a new brick facing topped by a metal canopy/fascia.

The new facility was occupied by the service function in 1975 while the administrative activities did not move in until the spring of this year. The landscaping and paving were completed in July.

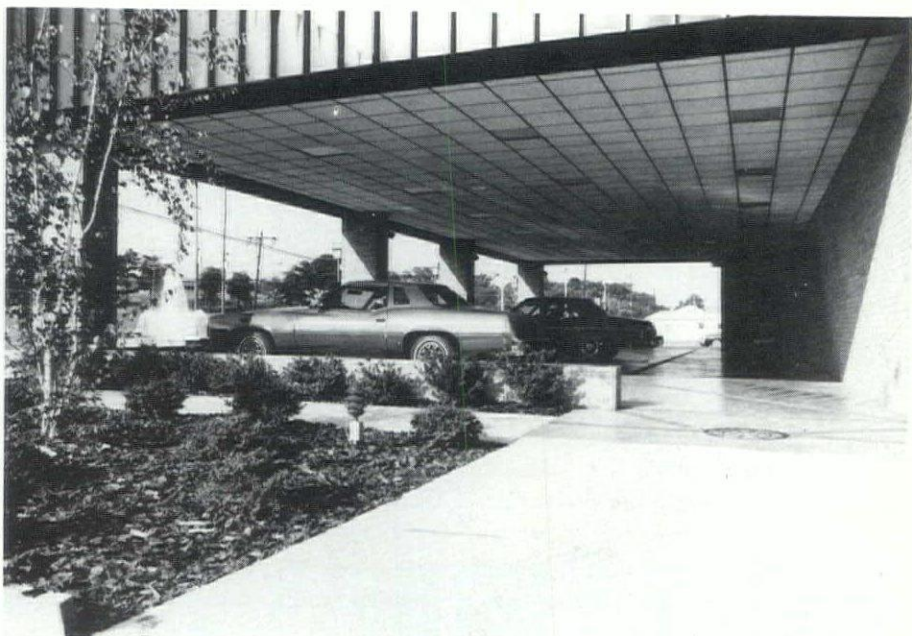
The owner acted as general contractor and handled carpentry, plastering and plumbing.

#### Subcontractors & Suppliers

(Roanoke firms unless noted)

Evergreen Landscaping, Bedford, sodding, seeding, etc., landscaping & landscaping contractor; Adams Construction Co., paving contractor; Days Construction Co., Inc., Salem, concrete contractor, masonry contractor, steel erection & pre-engineered metal building; Salem Ready Mix, Salem, concrete supplier; Old Virginia Brick, Salem, masonry supplier; Flamingo, mortar; Classic Cabinets, Inc., millwork, paneling & cabinets; and Valley Roofing Corp., roofing.

Also, PPG Industries, Inc., glass, glazing contractor, metal doors & frames and windows; Southern Tile & Carpet Co., Inc., ceramic tile & structural (glazed) tile; Harwood Paint & Wallpaper, paint supplier; Dorns Interiors, special wall finish & wall covering; Noland Co., plumbing fixture supplier; Bud Weaver Sheet Metal Co., heating/ventilating/air conditioning contractor; Westinghouse, lighting fixtures supplier; and Bob Moore, electrical contractor.







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**FIRST NATIONAL BANK OF CHRISTIANBURG**  
**BYRON R. DICKSON, JR. - ARCHITECT**

**LAWRENCE E. PERRY, Consulting Engineer, Mechanical/Electrical**

**RICHARD L. WILLIAMS, Consulting Engineer, Structural**

**THE DESIGN/BUILD TEAM, Project Coordinator**

**Interior Design by THE OWNER**

**Landscape Design & Photography by THE ARCHITECT**

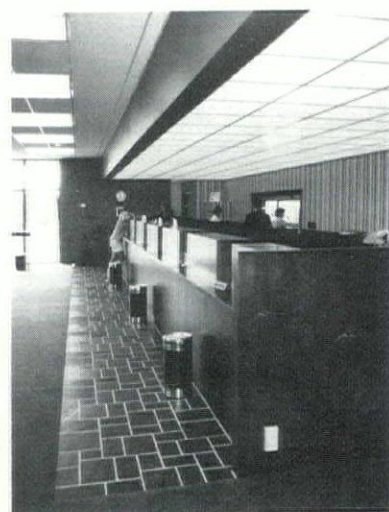
**DAYS CONSTRUCTION CO., INC., General Contractor**

This past May, the Blacksburg Branch of the First National Bank, Christiansburg, opened for business to service this Western Virginia university town. This new location on the southwest corner at the intersection of Main Street and Prices Fork Road provides a central location from which to render banking services to both university student and town resident.

The First National Bank of Christiansburg was organized in 1908. As an independent bank, this financial institution grew steadily until six years ago when growth accelerated at an unprecedented rate. Today, through the efforts of a dynamic, participating group of directors and the energies of

their young president, Samuel H. Tollison, offices are operating in the Virginia communities of Riner, East Christiansburg (Hills Shopping Center), Downtown Christiansburg and now Downtown Blacksburg.

The new Blacksburg facility is housed in a two-story structure approximately 9,000 square feet in total size (4,500 square feet each floor). The first level contains the primary banking functions including lobby, teller's stations (6), vault, offices and conference room. The second floor is given to support and expansion area. On this level are employee support, bookkeeping, a record's vault and additional office space.







The primary structural system is steel joist floor and roof framing supported by a masonry bearing wall perimeter together with a row of interior columns. Footings, foundation structure, and safe-deposit vault are of reinforced concrete.

Drywall and stud construction is the basis of the interior partition system. Wood doors in metal frames provide interior circulation access. Exterior windows and doors are of aluminum construction.

Finishes are generally carpet on floors, painted walls and acoustic tile ceilings. Resilient flooring is provided in abuse areas and decorative wall covering adds accent to vertical services.

The building has been provided a year-round air-conditioning system utilizing electricity for energy. Insulation provisions and system design are respectful of the energy limitations existing now and predicted for the foreseeable future. The location of glass areas is just one example of the passive energy-saving considerations applied to concept development.

Four drive-up lanes will accommodate an anticipated large volume of vehicular business. A walk-up teller is located adjacent to the pedestrian walk leading to the VPI & SU campus which is immediately adjacent.

Landscaping concepts seek to restore the vegetation character which existed prior to project development. Due to site circulation drainage patterns and plant depreciation, it was decided to

refurbish almost all of the existing growth.

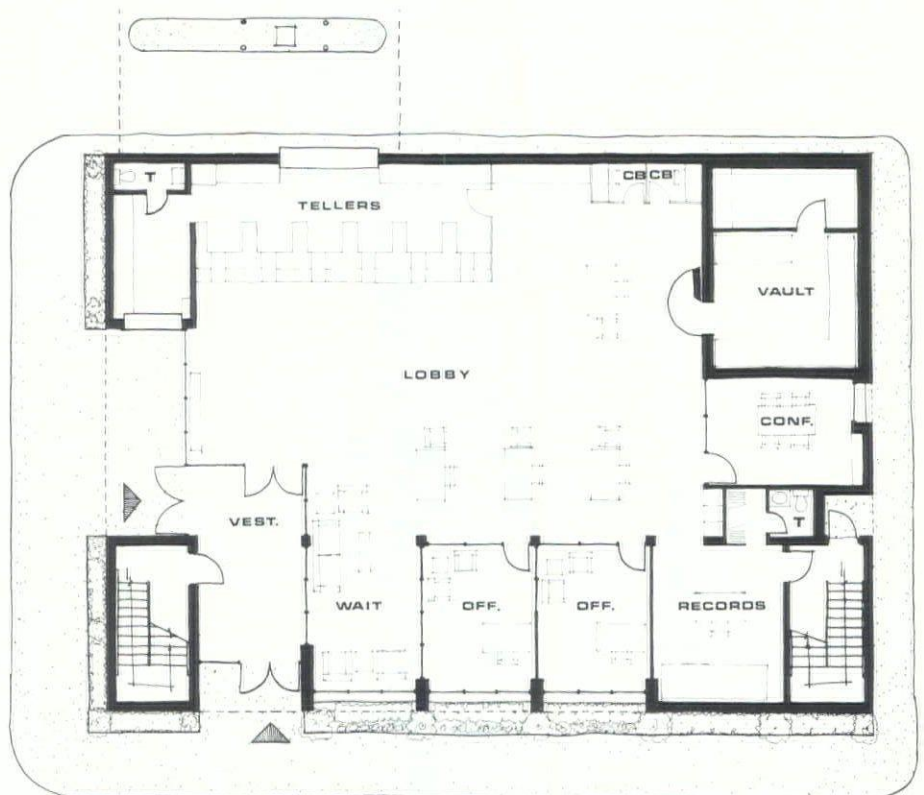
Days Construction Co., Inc. of Salem was general contractor and handled foundations and concrete work.

#### Subcontractors & Suppliers

Salem firms were: Valley Steel, reinforcing; Old Virginia Brick, masonry supplier; Flamingo, mortar; John W. Hancock, steel supplier; L.H. Sawyer Paving Co., Inc., paving contractor;

Marion Glass, glass & glazing contractor; and Viking Electrical Contractors, Inc., electrical contractor.

From Roanoke were: Don's Roofing, built-up roof & roof insulation; South Roanoke Lumber Co., wood doors; W.E. Donald, painting contractor; Dickerson-Trent, Inc., plumbing contractor; and Johnston-Vest Electric Corp., heating/ventilating/air conditioning contractor.



FIRST FLOOR PLAN



# LEWIS HALL SCHOOL OF LAW

WASHINGTON & LEE UNIVERSITY  
LEXINGTON

## MARCELLUS WRIGHT COX & LADD - ARCHITECT

GWSM, INC. - Landscape Architects

HANKINS & ANDERSON

Consulting Engineer, Mechanical/Electrical

HARRIS, NORMAN, GILES & WALKER

Consulting Engineer, Structural

BOLT BERANEK AND NEWMAN, INC.

Acoustic Consultants

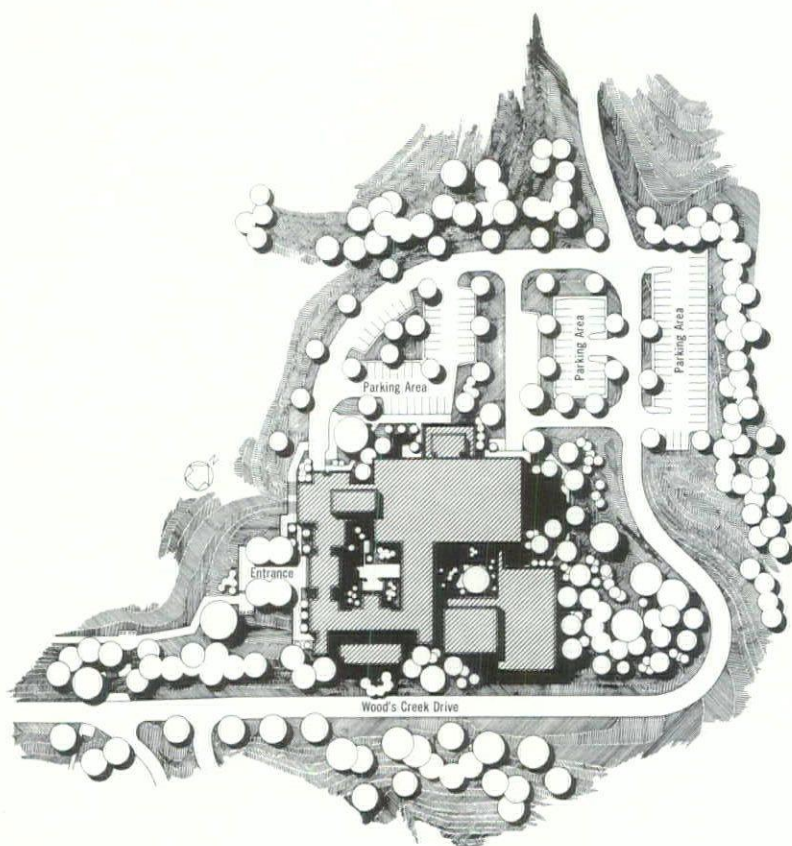
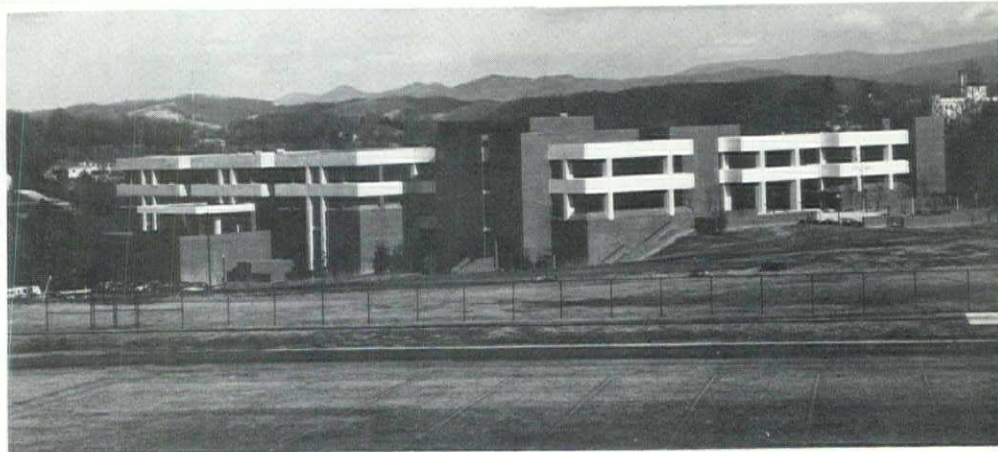
KELLY/HOUGH, INC.

Construction Methods Consultants

GEORGE W. KANE, INC.

General Contractor

SALLY MANN - Photography



Among the many law school buildings in this country, Lewis Hall is unique. It was planned for a relatively small school of law — a maximum of 350 students and 20 full-time professors — yet it has more educational space than many schools that have more than twice its number of students. It has been wired and equipped with the capacity to accept every type of communication now known: computers, television, audiovisual facilities. It is of contemporary design, yet this design is compatible with and complementary to the charm, scale, and originality expressed in the University's Front Campus, a National Historic Landmark because of its architectural distinction. It is a functionally efficient building, yet aesthetics was a prime consideration. It has provided every student with a degree of privacy for study, yet its design encourages students to mingle and exchange ideas.

In the early planning stages of the new building, many locations on Washington and Lee's 300-acre campus were considered, but inevitably the planners returned to the site suggested in the campus master plan — across Wood's

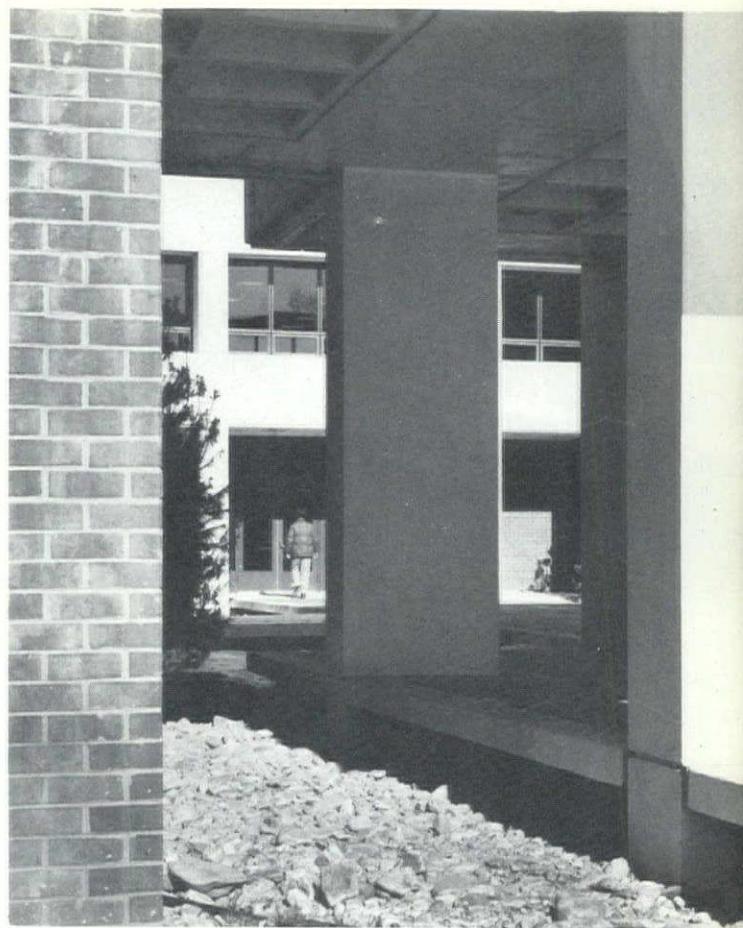


Creek from the undergraduate campus.

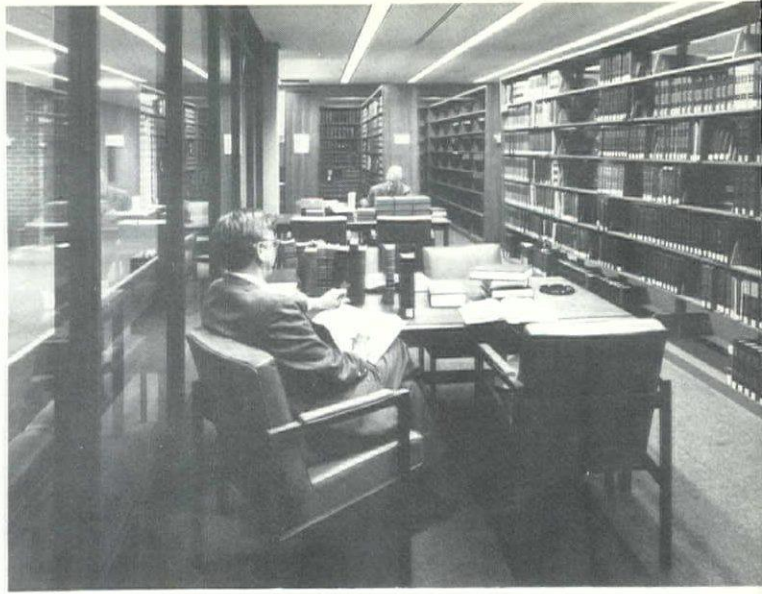
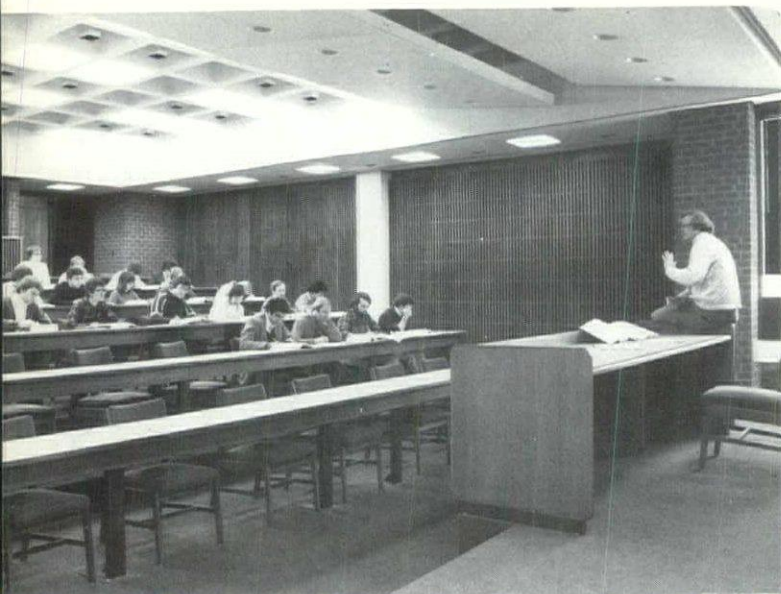
Because a footbridge already spanned the ravine, Lewis Hall is within easy walking distance of the Front Campus. An old railroad right-of-way, wide enough for an access road above the stream, provided a convenient and economical approach.

On three sides from the hillside location, one can look out to pine-covered mountains, a restful view that counteracts the pressures of intensive study. In the fourth direction are the older buildings, providing a visual tie that links the law school with the undergraduate campus.

A major design consideration was the scale of the building. The new building, planned for 350 students, was conceived as a complete law community with its own service centers, individual study areas for each student, faculty offices that would promote research and continue to encourage close student-teacher relationships, a library with sufficient stack space for decades of expansion, and facilities for staffing research projects. →







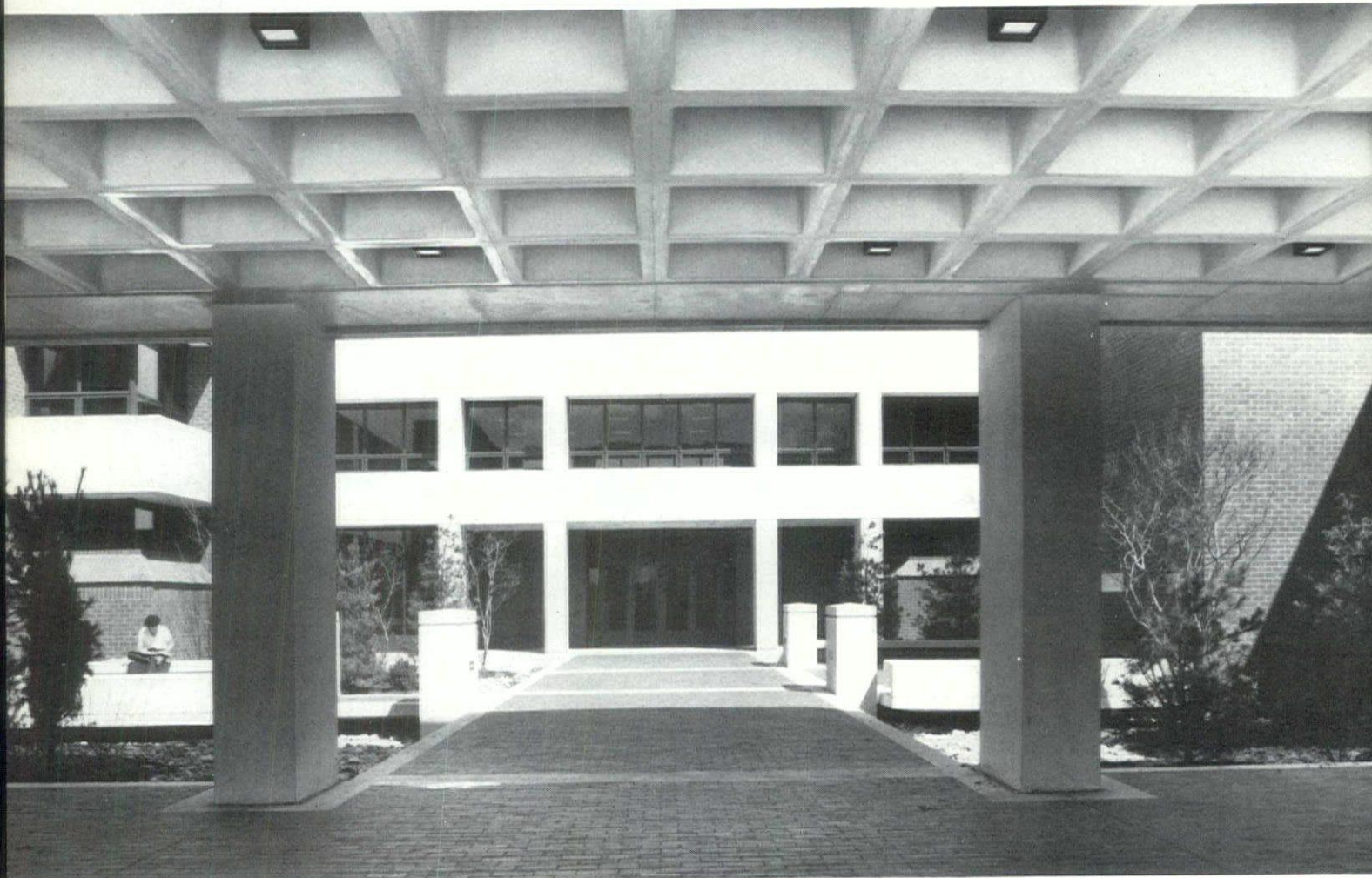
In providing the 123,000 square feet of programmed space, care was taken to preserve the human scale that characterizes the historic campus. The terrain enabled the design of a four-level building that has only a two-story front elevation. Near the entrance an old oak, 100 feet high, is surrounded by new plantings of native trees, shrubs,

and bushes, tying the building to its site. As these plantings reach their full growth, Lewis Hall will fit even more comfortably into its surroundings.

The space required for the functional program of the law school influenced the exterior design. Everyone involved recognized that any attempt to duplicate the 19th-century architecture

could never be successful, but would result instead in a building so monolithic that it would conflict with the traditional scale of the campus. Consequently, the building evolved into a contemporary design that complements and enhances the historic campus.

The materials chosen for construction





**MAIN LEVEL**

Library Covered Terrace

Librarian's Office

Rare Book & Manuscript Room

Secy.

Cat. Lib. Off.

Catalogue Clerical Area

Order Dept. Clerical Area

Lib. Off.

Card Catalogue Indexes & Directories

Main Reading Room

Student Study Carrels

Vis. Atty's Office

Student Study Carrels

Media Control & Graphics

Reserve Book Stacks

Circ. Desk Comp. Term.

Reading Lounge

Student Study Carrels

Entrance Pavilion

Entrance Court Yard

Lobby

Gallery

Rear Court Yard

Moat Court Room

Jury

75-Seat Classroom

75-Seat Classroom

75-Seat Classroom

Lounge

Vest

Conf.

50-Seat Classroom

50-Seat Classroom

**UPPER LEVEL**

This floor plan illustrates the layout of the upper level, featuring various offices, administrative spaces, and common areas. Key rooms include:

- Law Review**: Located on the left side.
- Mechanical Equipment Room**: Adjacent to the Law Review room.
- Seminar**: A large open space in the center-left.
- Faculty Offices**: Multiple clusters throughout the top and middle sections.
- Faculty Sec'y Suite**: A central office suite.
- Faculty Library**: A large rectangular room in the center-right.
- Kitchen**: Located near the Faculty Library.
- Lobby**: A central gathering area.
- Research Offices**: Several smaller offices along the bottom left.
- Dir. of Law Ctr.**: Office of the Director of the Law Center.
- Student Records Work Area**: A dedicated workspace at the bottom.
- Vault**: A secure storage area.
- Recp.** (Reception) and **Secy.** (Secretary) stations are distributed across the lower half.
- Dean's** office is located at the bottom right.
- Conf.** (Conference) rooms are scattered throughout.
- Restroom & Shower**: Facilities for staff and visitors.
- Placemen & Admin. Off.**: Administrative support spaces.
- Sup. Stor.** (Superintendent's Storage): A small storage area.
- Facility Lounge**: An additional lounge area on the right side.
- Facility Offices**: Additional administrative offices on the right.
- Entrance**: The main entry point at the bottom center.

**LOWER LEVEL**

Book Stacks, Bindery, Mail Sorting and Repair

Life, Poet, Book Store

Student Study Carrels

Upper Stack Area

Student Study Carrels

Faculty Office

Student Study Carrels

Student Programs Area

Burks Scholars Room

Control

Stack Lounge

Tel.

Lounge

Student Assoc.

Mechanical Equipment Room

Rear Court

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Lower Stack Area

Photocopy Equipment Location

Mechanical Equipment Room

Tax Materials Reading Area

Loading Dock

Electrical Equipment Room

Mechanical Equipment Room

Dup. & Exchange Stacks

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discussion with his colleagues. In every group of carrels there is a "break" area or lounge where students can get together to talk. Throughout the building, lounges and informal conference areas — ranging in size from just a few seats to a large room that will accommodate as many as 30 — encourage students to discuss their work with one another. On the lower level, student activity centers bring the students together.

In a building this size, corridors may seem to be so long that they destroy the human scale of the interior. In Lewis Hall corridors acquire visual interest through constantly changing vistas, small lounge areas, and changes in building materials, thereby creating the illusion that they are smaller than they really are.

Lewis Hall was planned around two large courtyards, each planted with trees and a variety of bushes and flowering shrubs. As a result, every room in the upper two levels and most of the rooms in the lower level look out upon nature, and as one walks down a corridor or down a staircase, these courtyards suddenly burst into view.

The interior of the building incorporates a "village" concept: clusters of rooms or activity centers with a common function are pulled together by a corridor, a view, or even the use of the same building materials. Each cluster connects with another. The concept helps to preserve the human scale of the building and likewise creates a more natural traffic flow through Lewis Hall.

George W. Kane, Inc. of Durham, North Carolina was general contractor.

**Subcontractors & Suppliers**

Plecker Brothers, Millboro, earthwork; Roadside Nurseries, Inc., Altavista, landscaping & miscellaneous site improvements; Lone Jack Co., Lynchburg, bituminous paving; The CECO Corp., Richmond, concrete formwork; Bethlehem Steel Corp., Richmond, concrete reinforcing; Charles W. Barger & Son, Lexington, cast-in-place concrete; Exposaic Industries, Inc., Winston-Salem, N.C. precast architectural concrete; General Shale Corp., Glasgow, brick; Lightweight Block Co., Inc., Roanoke, masonry block; Montague-Betts Co.,



Inc., Lynchburg, structural steel & miscellaneous steel; and Snow Lumber Co., High Point, N.C., carpentry & millwork.

Also, Seager Waterproofing, Inc., Greensboro, N.C., dampproofing & waterproofing; Leonard Smith Sheet Metal & Roofing Co., Salem, sheet metal & built-up roofing; Bonitz All-Weather Crete Co., Greensboro, N.C., roof insulation, All-Weather Crete; C.E. Thurston Co., Roanoke, building insulation; Construction Specialties, Inc., Salem, louvers; Augusta Steel Corp., Verona, hollow metal doors & frames; Hope's Window Co., Silver Spring, Md., steel windows & frames; Contract Hardware, Inc., Lynchburg, finish hardware; General Glass Co., Inc., Charleston, W. Va., glass & glazing; J.R. Maness Co., Denton, N.C., acoustical tile & resilient tile; and, Herring Decorators, Winston-Salem, N.C., painting.

And, Modern School Equipment, Inc., Richmond, chalkboards & bulletin boards; Ward Tile Co., Charlotte, N.C., ceramic tile; Erwin Jones & Co., Inc., Charlotte, N.C., general casework; Flowers School Equipment Co., Inc., Richmond, darkroom & graphics casework; Watrous, Inc., Bensenville, Ill., toilet room access; Liskey Aluminum, Inc., Baltimore, Md., accessible flooring; Dover Elevator Co., Greensboro, N.C., elevators; and G.J. Hopkins, Inc., Roanoke, mechanical & electrical contractor.

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**B.E.C. OF VIRGINIA, INC., Consulting Engineer, Structural**  
**EDWARD L. GROSS, INC., General Contractor**  
**DAVID BOURBON, Photography**

The main showrooms of Cope Ford, Inc. in Woodbridge, Virginia were originally an amalgamation of an empty food store building, an attached masonry wing and an adjacent metal structure. The firm of Peck, Peck and Williams - Architects was hired to renovate the existing structures and unify the separate elements.

The problem was solved by tying all sections together with 10' high ochre fascia panels floating over a deeply recessed entryway. Six brick fin walls were erected to support the new structure. Separate entrances were provided for the main showroom and the service department. The existing brick was painted a deep brown to set off the fascia and owner's sign.

Edward L. Gross, Inc. of Manassas, was general contractor.  
Subcontractors & Suppliers

Gilco Construction Co., Falls Church masonry contractor; Quality Roofing Co., Inc., Manassas, built-up roof & insulation; and Custom Electric, Manassas, electrical contractor.



## **SHIPPS CORNER CENTRAL OFFICE VIRGINIA BEACH**

**FRANK E. WILLIAMS, JR.**  
**Consulting Engineer**  
**Mechanical**

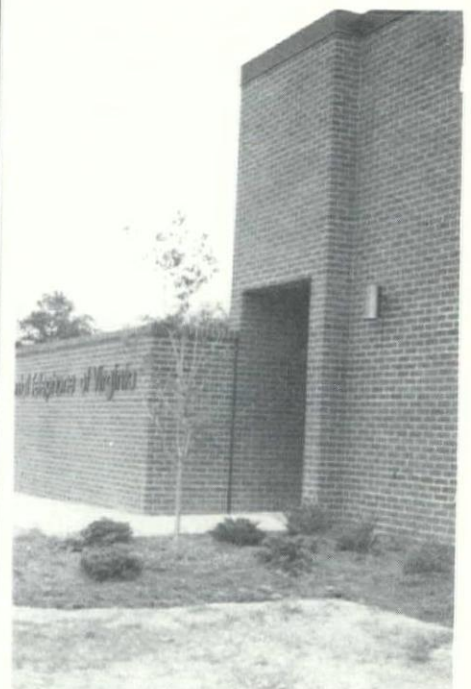
**ALEX R. PEREZ**  
**Consulting Engineer**  
**Electrical**

**B.E.C. OF VIRGINIA, INC.**  
**Consulting Engineer**  
**Structural**

**L.J. HOY, INC.**  
**General Contractor**

**DAVID BOURBON**  
**Photography**

Shipp's Corner Central Office, a \$200,000 Project in Virginia Beach was designed by Peck, Peck & Williams - Architects for Continental Telephone Company of Virginia. The building





houses equipment rooms, a managers office and ancillary rooms.

Since the sandy soil of the area is not capable of supporting a septic system, and no public sewer is available, a rather unique self-contained system was utilized. The massing of the building is pleasant and geometric, with a brick garden wall forming an area for air-handling and outdoor equipment.

The entire building is a brown brick with contrasting door and trim colors. Shippo Corner is one of nine such buildings done by Peck, Peck & Williams for Continental Telephone. The completion of this building translates into better telephone service for the Norfolk-Virginia Beach area.

L.J. Hoy, Inc. of Norfolk was general contractor and handled excavating, foundations, concrete work, carpentry, waterproofing, caulking, wall insulation and foundation insulation.

#### Subcontractors & Suppliers (Norfolk firms unless noted)

Hall-Hodges Co., Inc., reinforcing; Lone Star Industries, Inc., concrete supplier; Snow, Jr. & King, Inc., masonry contractor; Chesapeake Steel, Inc., steel supplier/erection/joists/roof deck & miscellaneous metal; Eastern Roofing Corp., built-up roof, roof insulation & sheet metal; Seaboard Building Supply Co., Va. Beach, metal doors & frames, hardware supplier & specialties; Ajax Co., Inc., ceramic tile; Walker & Laberge Co., Inc., acoustical treatment; Bay Tile Corp., Portsmouth, resilient tile; Colonial Painting Co. of Tidewater, Va. Beach, painting contractor; PPG Industries, Inc., paint manufacturer; E.B. Sams Co., Inc., plumbing contractor; Va. Environmental Control Corp., heating/ventilating/air conditioning contractor; General Electric Supply Corp., lighting fixtures/electrical equipment supplier; and Charles W. Davis, electrical contractor.

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Consulting Engineer, Structural

**SAYRE & SUTHERLAND**

Consulting Engineer, Soils

Interior Design by **THE ARCHITECT**

**HEINDL-EVANS, INC.**

General Contractor

**HUFFMAN STUDIO, Photography**





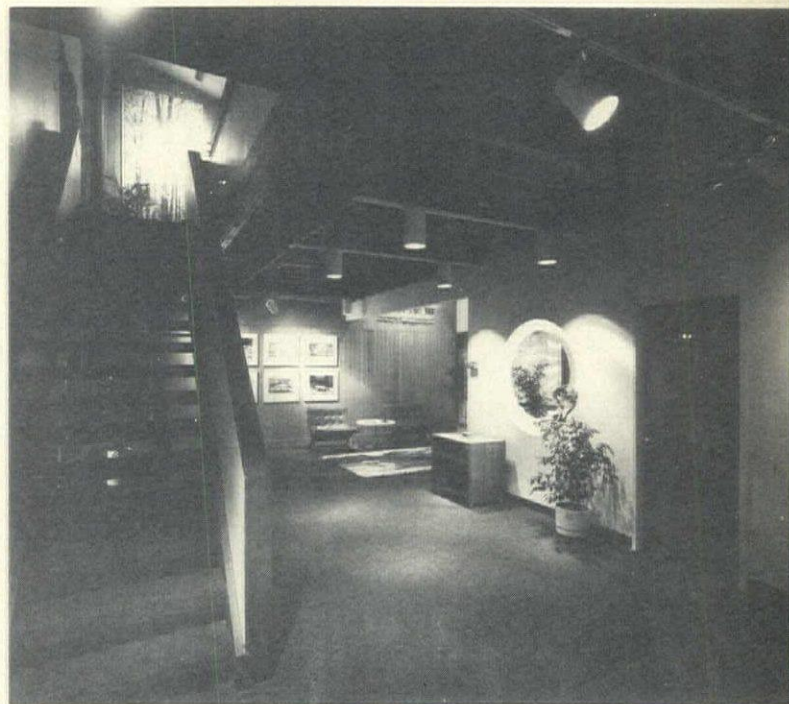
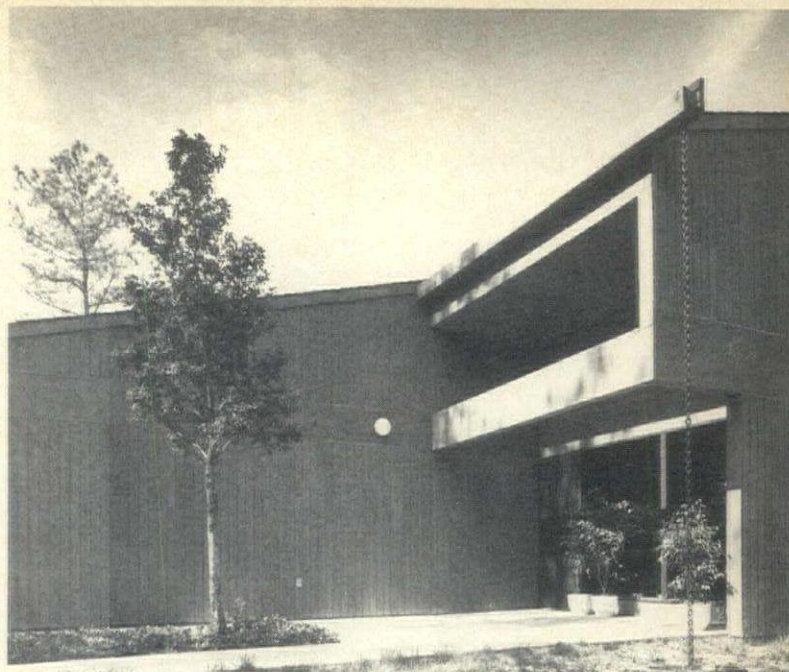
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Architecturally, the structure seeks to provide a creative working environment through the use of such features as cathedral ceiling and loftspace offices. The building portrays the firm's fondness for natural materials and colors and a rustic textural quality.

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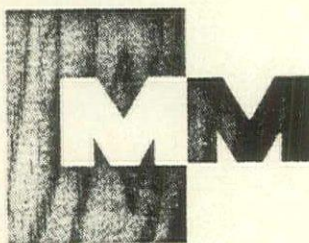
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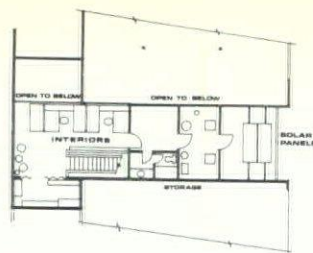
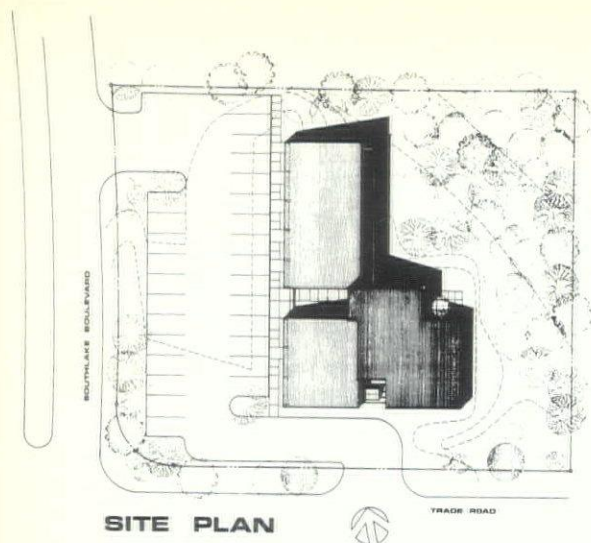
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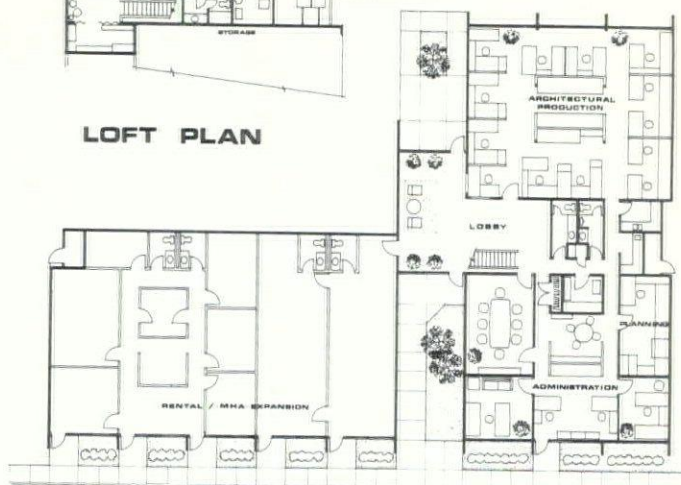
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LOFT PLAN

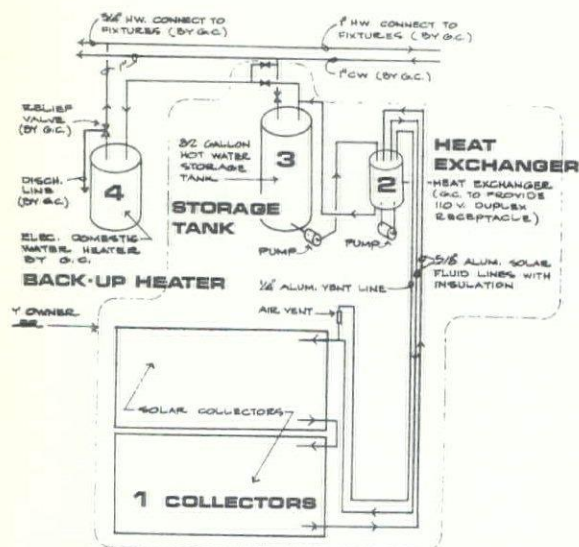


FIRST FLOOR PLAN

Heindl-Evans, Inc. of Mechanicsville was general contractor and handled excavating, sodding, seeding, etc., foundations, steel erection and carpentry. The architect handled landscaping.

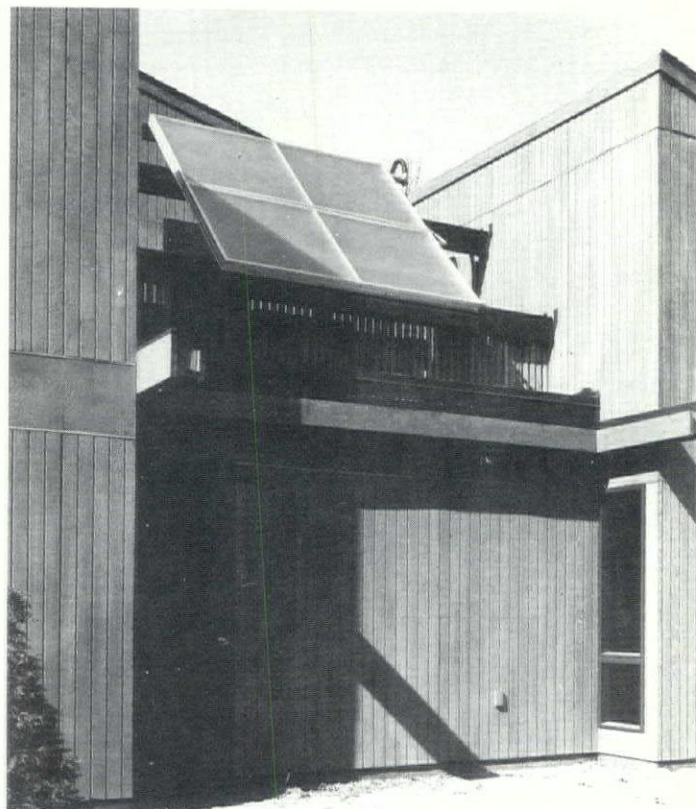
Subcontractors & Suppliers  
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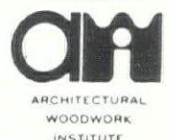
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