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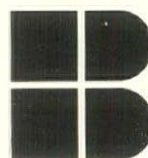
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IN MEMORIAM

Clifford Dowdey — 1904-1979

It is with deep regret that we announce the passing of our Editor of many years, Clifford Dowdey. Mr. Dowdey died at his Richmond home on May 30, 1979. We on the staff of *Virginia Record* join his family and his many readers in mourning the loss of a fine writer and a true Virginia Gentleman.

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ON OUR COVER is an interior view of the Crenshaw Residence, presented by Moseley-Hening Associates, Inc. on page 16 of this issue. (Cover photo by Huffman Studio)



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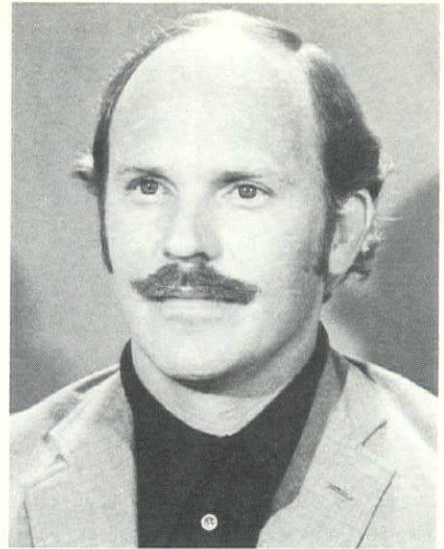
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By
Frederick E. Baukhages, IV, AIA

New Markets for Designers, Developers and Users — Urban Recycling

Increased attention is being focused on the opportunities to build new life and profit into old, but sound, city structures. If you have considered urban recycling as a new design market area or as an area for development potential and are questioning whether or not now is the time to move in that direction, your answer should be "yes." A resounding "yes" tempered with careful study and selectivity. Recycling is a viable market and there are already many, many projects completed to prove that it will work.

The odds are very good that recycling of in-town structures will dominate the building industry in the decade of the 80s. There are several reasons for that prediction. First there is the fact of the high cost of replacing any building. Construction costs for new structures will make old buildings, in many instances, too valuable to tear down. Second, the pass-over of in-town urban sites will stop as so-called urban sprawl will no longer be tolerated by local government officials. Third, there are many new markets for in-town sites. With smaller families where both husband and wife work, these people want to live and make their living in the city, where the action is. Fourth, recycling is an inviting creative opportunity because of its appeal to such families as well as the commercial enterprises that serve them.

Where we find, with increasing frequency, approval delays for new construction, builders are learning that recycling projects gain quicker approval because governments are realizing the importance of urban revitalization. With in-town locations, streets are already there, utilities are in and the existing residents are anxious to have dilapidated structures recycled. Beyond that, there appears to be a nationwide feeling of nostalgia that can be satisfied with recycled buildings where every home and every business can be different and individual and in which the occupants can take a special pride. Opportunities for urban recycling abound and can be found in large cities and small towns alike. There are old buildings in communities large and small which can be converted to commercial or residential use. Recycling is taking place in cities like Richmond as well as in small towns and villages such as Luray, Berryville, Middletown and many others. An important part of the recycling process is the approval of lending institutions. It appears that lenders are becoming aware of the value of recycling in their communities and their approval can be assured by applying the same sound principles used in securing financing for new structures. Show good planning and well-done, credible feasibility studies to a lender and he will support your recycling project.

Cities and towns, as mentioned earlier, are beginning to recognize the benefits of recycling. Not only is renovated property once again taxable but it provides jobs and other income to the city as people move in to work and live. As a result, it is more and more possible to get government support for recycling projects. It has been demonstrated that local governments are willing to help with legal and design problems. They will help persuade lenders to participate and they can and will provide subordinate financing to augment private support. The idea that the relationship between local government and those interested in recycling is, by nature, at cross purposes, is very much outdated. The cities, and even the towns, are doing their homework. If we work with them from the start, local government can and will be helpful.

The groundwork has been laid. The movement has started. It is up to us, design professionals, builders, developers, users and potential owners alike to nurture the movement. Urban recycling can and will be an important new market area of the design and construction industry.



JUNE 1979

The following is an outline by James dePasquale, AIA, of some of the events and goals associated with the Celebration of Architecture Week, being presented by the James River Chapter of the Virginia Society of the AIA. This project illustrates some of the ways that the general public can be informed about architects and architecture.

The Public Relations Committee
Virginia Society, AIA

Edward A. Smith III, AIA

Celebration of Architecture Week, an event sponsored by the James River Chapter of the American Institute of Architects, features some thing special for everyone. Events are planned for both Richmond and Charlottesville, occurring from June 3rd through June 9th.

The purpose of Celebration of Architecture Week is to inform the general public about the relevance of design excellence in today's built environment and to bring attention to significant architecture of both the past and present. Additionally, it is hoped that Celebration of Architecture Week will be a challenge to practicing architects, heightening their own consciousness to strive for the very highest level of design quality.

In order to accomplish the stated purposes, the following events have been planned:

RICHMOND

Sunday, June 3

An OUTDOOR SLIDE SHOW, featuring Richmond's finest examples of old and new buildings, shall be held in Shockoe Slip beginning at 7:30 p.m. The event will also be part of the June Jubilee festivities, which culminate that evening.

Monday, June 4

Opening of the Second Bi-Annual ELEMENTS OF ARCHITECTURE AND INTERIOR DESIGN EXHIBIT at the F&M Gallery. The exhibit features examples of how the elements of form, texture, color, order, scale, and light are used in architecture and interior design. The exhibit is co-sponsored by the Virginia Chapter of the American Society of Interior Designers, and will be on display through June 30th.

Tuesday, June 5

CHILDREN'S DAY will be from 10:00 a.m. to 1:00 p.m. at the Reynold's Building along the James River and Kanawha Canal Locks at 12th and Byrd Streets. Ideas for this event were created by Sophomore Design Students at Virginia Commonwealth University, and included are participatory projects that will enable children to experience using the design elements of form, texture, color, order, scale and light. One of the planned projects includes making the children themselves become the various elements of design. Participants in this event are from the Arts and Humanities Center for Richmond City Schools.

Wednesday, June 6

ARCHITECTS' WEDNESDAY will feature OPEN HOUSE at several architectural offices from 2 to 6 p.m. Open for viewing are the following:

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1501 North Hamilton Street
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5603 Staples Mill Road

Thursday, June 7

TAKE A TOUR DAY is an opportunity for a person to engage in a self-guided tour of Richmond's finest examples of historic and contemporary architecture. Packets of information, outlining the various tours available, can be obtained at most local merchants.

Friday, June 8

An HISTORIC PRESERVATION PANEL DISCUSSION will encompass a wide variety of topics dealing with the

Saturday, June 9

rehabilitation of older structures. Speakers will include Michael Gold, Director of the Historic Richmond Foundation, Jack Zehmar, Architectural Historian for the City of Richmond, and Wallace Mills, AIA.

A KITCHEN WORKSHOP, from 11:00 a.m. - 4:00 p.m. at Regency Square, will include demonstrations about kitchen design, the planning process, and examples of well planned kitchens.

CHARLOTTESVILLE

Events planned for Charlottesville include television programs, a series of newspaper articles, and a design workshop planned to occur at the downtown Mall.

A poster for all of the events in Richmond has been designed by students at Virginia Commonwealth University.

Additional information about Celebration of Architecture Week can be obtained from the Virginia Society, AIA headquarters at 804-644-3041.

It is hoped that efforts by the James River Chapter will encourage other chapters around the Commonwealth to join in the Public Relations effort. The challenge is there, and something can be done about it if we just take the time. In the end, we can all benefit, and the cause for creating architecture of consequence will be furthered.

David R. Rosenthal, AIA Joins Dewberry, Nealon & Davis as Assistant Architect

Dewberry, Nealon & Davis, Architects and Engineers, announce the recent association with their Fairfax office, of David R. Rosenthal, assistant architect to Paul J. Temples, Partner-in-Charge of Architecture.

A 1949 graduate of Haverford College, Mr. Rosenthal received his MA from Johns Hopkins University in 1951. After a four year apprenticeship as construction superintendent with his family's business he entered Catholic University's Department of Architecture and was awarded a B. Arch. degree and the Alpha Rho Chi Medal in 1958. Registered in Virginia, Maryland, and the District of Columbia, Mr. Rosenthal opened his own practice in architecture in Alexandria, in 1965.

Active in the Virginia Society of the American Institute of Architects, Mr. Rosenthal was a 1973 founding member, and is recent past chairman, of the Society's Virginia Architects' Government Affairs Committee which maintains liaison with the Legislature on issues of professional concern. He has served Alexandria on its Board of Architectural Review, Middle Income Housing Board, Building Code Advisory Board, and was recently vice-chairman of the Board of Zoning Appeals representing that body on the City's Planning Commission.

Mr. Rosenthal was one of four authors of the AIA's 1965 *A Guide to the Architecture of Washington, D. C.* and its 1974 revised edition. An Attingham Fellow, he has occasionally lectured on various aspects of architecture at the Smithsonian Institute and is a visiting design critic in architecture at Catholic University.

Dewberry, Nealon & Davis is a multi-discipline firm with approximately 500 people providing architectural, civil engineering, surveying, landscape architectural design, structural engineering, mechanical and electrical engineering, airport and transportation and engineering service bureau. DND has offices in Fairfax, Vienna, Marion and Danville, Virginia and Severna Park, Gaithersburg, and Frederick, Maryland. For more than two decades Dewberry, Nealon & Davis has performed architectural and engineering design assignments throughout the state of Virginia, and in Maryland and surrounding jurisdictions for a broad range of public and private clients.

"Architecture USA" Stamps Introduced at AIA Convention

American architecture has been honored by the U.S. Postal Service through a commemorative series of stamps scheduled for introduction during special first-day-of-issue ceremonies June 4 at the American Institute of Architects' National Convention in Kansas City, Mo.

The four stamps, entitled "Architecture USA," depict historic structures from the Neoclassical period of American architecture (1780-1840). The landmarks, still in use today, were designed by four individuals — Thomas Jefferson, Benjamin Latrobe, William Strickland, and Charles Bulfinch — who helped shape American architecture.

The commemorative series marks a significant milestone in AIA's "Celebration of Architecture," a year long campaign to engender public awareness of architecture and its impact on the built environment. The stamps will be first sold from a special modular post office substation in Kansas City's H. Roe Bartle Convention Center, site of the AIA convention.

"The choice of these four historic building for the commemorative stamps honoring American architecture is most appropriate for our Celebration," said AIA President Ehrman B. Mitchell Jr., FAIA. "They represent monumental works important to the history of a young country as symbols of future greatness. Their human scale and efficiency have allowed them to remain in productive use since the time they were constructed."

"Jefferson's Rotunda at the University of Virginia, Latrobe's Baltimore Cathedral, Strickland's Philadelphia Exchange, and Bulfinch's Boston State House are all buildings where the art of architecture can be celebrated in the fullest sense," Mitchell added.

Modeled after the Roman Pantheon, the Rotunda was the focal structure of Jefferson's 1819 plan for the University of Virginia. The famous landmark was restored in 1976 for classroom, office, and library use.

Latrobe's simple geometric design for the Baltimore Cathedral was considered "revolutionary" at the time of its construction. One of the nation's oldest cathedrals, known also as the Basilica of the

Assumption, it has been in continuous use since its completion in 1818.

Innovation was also an integral part of Strickland's design for the Philadelphia (Merchants') Exchange in 1834. The building's round-columned facade was inspired by a 4th century B.C. Greek temple which still stands in Athens. Today, the structure serves as regional offices for the National Park Service.

Bulfinch's unique design for the State House in Boston called for a golden dome and drum of wood atop brick. Constructed when only 15 states comprised the Union, the structure still houses the governor's offices and the Commonwealth's legislative chambers.

Walter D. Richards, New Canaan, Conn., is the designer of the first block of "Architecture USA" commemoratives. A painter and printmaker, Richards is noted for his graphic and realistic art style. His previous design was the block of four 15-cent American Trees stamps issued in 1978. Earlier he designed the 10-cent Paul Laurence Dunbar stamp in 1975, the block of four two-cent Cape Hatteras stamps in 1972 and the block of four six-cent Beautification of America stamps in 1969.

Peter Cocci modeled the new stamps. The engravers of the vignettes were Joseph S. Wallace, Jr. (Virginia Rotunda), Joseph S. Creamer Jr. (Baltimore Cathedral, Philadelphia Exchange) and Kenneth L. Kipperman (Boston State House). Albert Saavedra engraved the lettering. All are of the Bureau of Engraving and Printing.

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& State University
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Transferred from the Washington-Metro Chapter
Northern Virginia Chapter



STEPHEN ANTHONY HIGBEE, AIA
With Gulf Oil Real Estate Development Co.
1973 Graduate of Pratt Institute
Northern Virginia Chapter



CHARLES T. DUGGINS, Associate
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& State University
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JAKOB JOFFEE, AIA
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& State University
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Maintains his practice in Charlottesville
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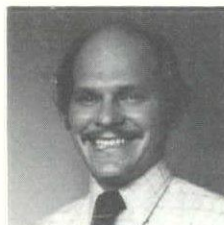
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1970 Graduate of the University of Texas
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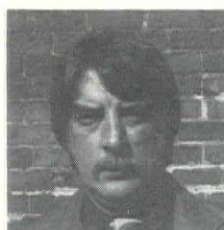
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& State University
Northern Virginia Chapter

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With the VVKR Partnership
1972 Graduate of the University of Virginia
Northern Virginia Chapter

CHARLES F. DETTOR, AIA
Partner in the firm of deWolf & Dettor
1950 Graduate of Catholic University
Transferred from the Washington-Metro Chapter
Northern Virginia Chapter

DANIEL J. FEIL, AIA
With Naval Facilities Engineering Company
1971 Graduate/Bachelor of Architecture,
1975 Graduate/Master of Urban Affairs,
Virginia Polytechnic Institute & State
University
Northern Virginia Chapter

JAIME ALBERTO GUTIERREZ, AIA
With Salditt, Lipp & Helbing Architects &
Engineers
1973 Graduate of the University of Maryland
Northern Virginia Chapter

ALAN LEE HANSEN, AIA
With Swaney-Kerns Architects, Ltd.
1974 Graduate of Pennsylvania State University
Northern Virginia Chapter

FREDERIC K. KUNTZ, AIA
With the VVKR Partnership
1973 Graduate of the Pennsylvania State
University
Northern Virginia Chapter

WILLIAM P. LAFFOON, AIA
With Wright, Jones & Wilkerson
1974 Graduate of Virginia Polytechnic Institute
& State University
James River Chapter

ELIZABETH J. MACKLIN, Associate
Free Lance Architect
1972 Graduate/Bachelor of Arts.
1975 Graduate/Master of Architecture,
University of Washington, Seattle, WA
Northern Virginia Chapter

RICHARD C. MATZ, AIA
With Hardwicke Associates, Inc.
Transferred from Mid-Florida Chapter, AIA
James River Chapter

MARIN I. SABIC, AIA
With LBC&W
Transferred from Buffalo-Western New York
Chapter
Northern Virginia Chapter

SUSAN B. SPIRITO, Associate
With Edward Winks Architecture
1976 Graduate of Cornell University
James River Chapter

MARVIN CORNELIUS TURNER, JR., AIA
With the VVKR Partnership
1970 Graduate/Bachelor of Environmental Design,
1971 Graduate/Master of Architecture,
Texas A & M
Northern Virginia Chapter

LESLIE WEAVER, Associate
With Marcellus Wright, Cox & Ladd
1970 Graduate of the University of Virginia
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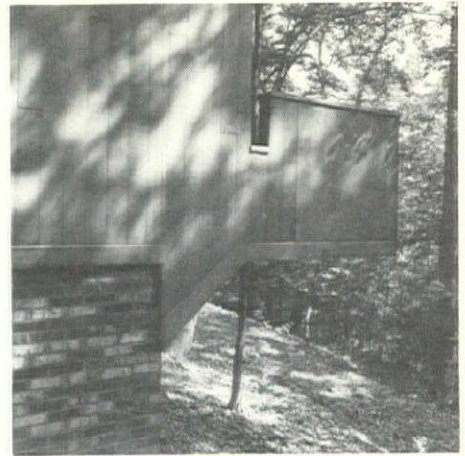
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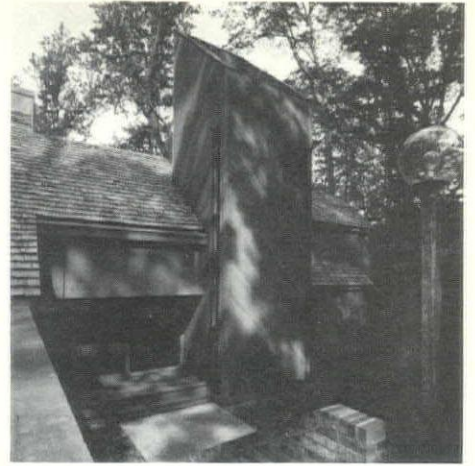
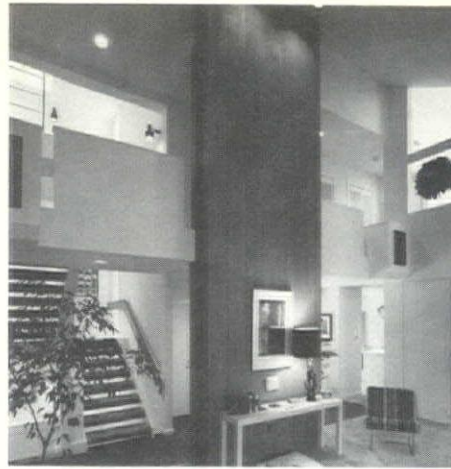
Crenshaw Residence

Richmond

Moseley-Hening Associates, Inc. — Architect

Mechanical Engineer, Wm. G. Brandt, Jr. & Assoc. •
Electrical Engineer, Wm. G. Brandt, Jr. & Assoc. •
Structural Engineer, Dunbar, Milby & Williams •
General Contractor, W. W. Browning Corp. •
Photography, Huffman Studio.





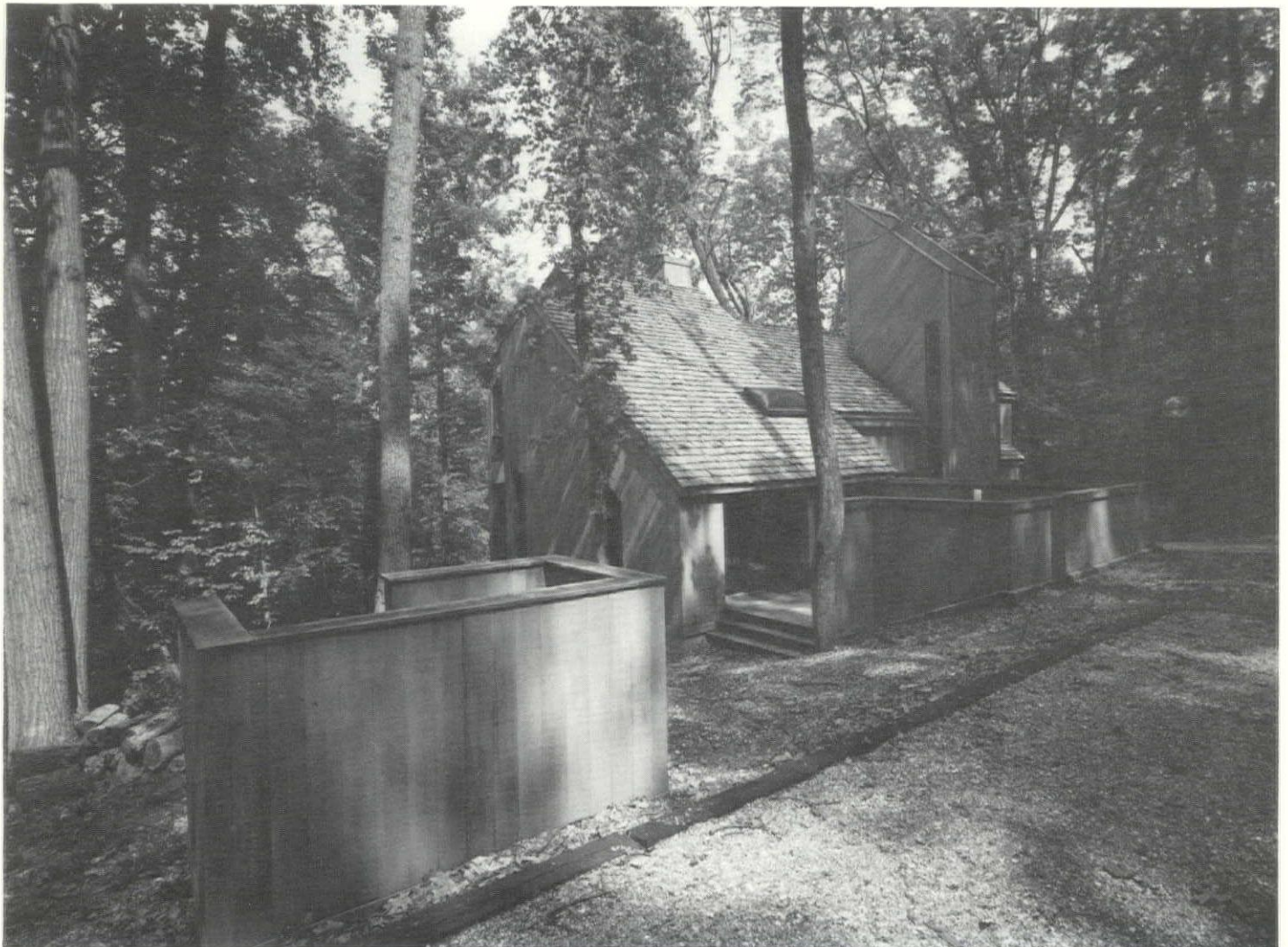
Located on a 4.5-acre, heavily wooded site in the City of Richmond, this unique residence is situated on the side of a 75-foot hill, commanding a magnificent view of the James River, and its rapids. The house was designed to blend with, and take advantage of the natural features of the site. The owner, then a bachelor, wanted a different and exciting house that could be expanded, as his needs demanded. A master plan was approved that anticipated all his conceivable needs, and the first phase has been completed, and is here exhibited.

The house is approached by automobile, from Hill Drive, along a small, winding, entrance road that terminates in a parking area, among the trees. Entry is through a sunken entrance court that terraces at the main living level. The entrance foyer is a long, low, gallery that connects all spaces of the house, but partially conceals the dramatic view to the river by strategically located partitions. As one enters the main, two-story high living room, the magnificence of the site's attributes unfold, through large glass areas. The huge trees, and the rapids of the river far below, all become a part of the living spaces within.

Interior spaces flow into each other, and are connected by the entry-gallery on the main level, and a bridge on the upper level. A circular stairway to the master bedroom from the kitchen, provides for convenient accessibility, and a 10' x 10' skylight, directly over the bed is a prominent feature in the master bedroom.

An observation look-out, reaching almost 100 feet above the river, is accessible by a ship's ladder, through a skylight hatch, culminating the main stair tower. The strong verticality, of the stair tower, serves visually to anchor the house into the side of the hill, and balance the horizontality of the roof and wall planes.

(Continued on page 57)



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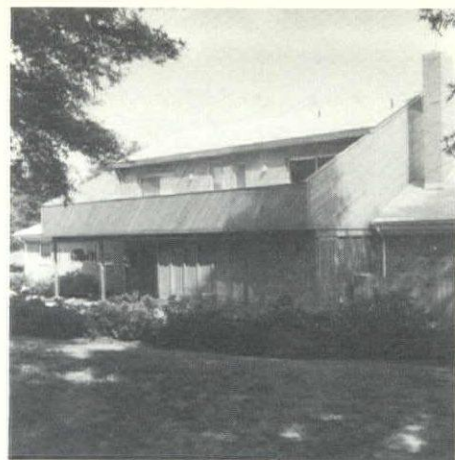
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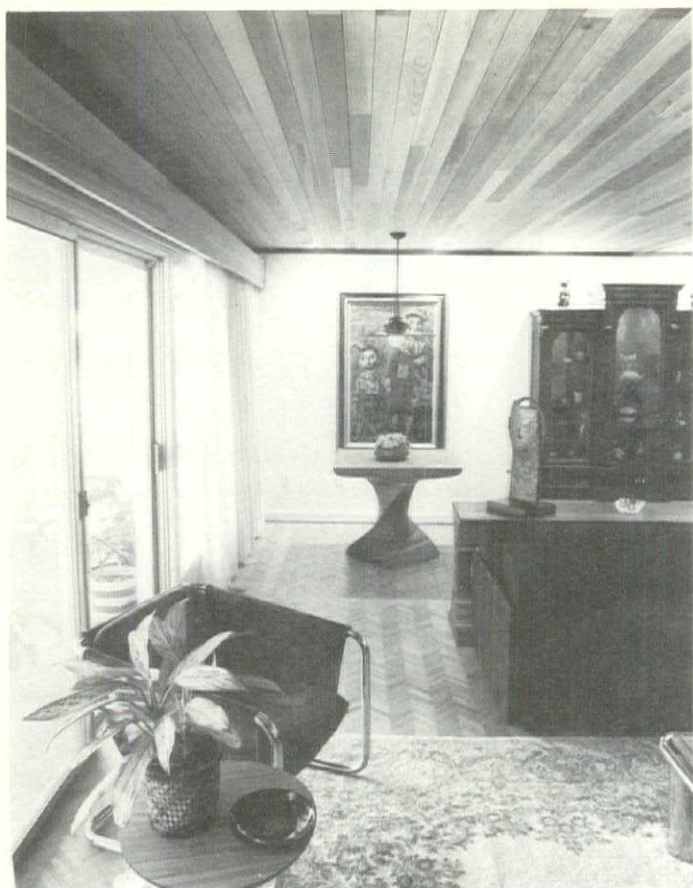
Horwitz Residence, Additions/Alterations

Henrico County

Interplan — Architect

Structural Engineer, Archimedia • Interior Design,
Interplan • General Contractor, Thomas H. Harris,
Jr., Builder, Inc. • Photography, Interplan.





serve the process of construction, and have gained an understanding of the systems that comprise their structure. Their patience and understanding involvement have made it possible to realize this project.

Thomas H. Harris, Jr. Builder, Inc. of Richmond was general contractor and handled carpentry and structural wood.

Subcontractors & Suppliers (Richmond firms unless noted)

R. H. Pierson Contractor, Inc., Glen Allen, masonry contractor; Luck Quarries, Inc., Manakin, stonework supplier; Richmond Primoid, Inc., sun-deck; Ruffin & Payne, Inc., millwork & cabinets; Jacobs "Ladder" General Contracting, Ashland, roofing; Davenport Insulation, Inc., roof & wall insulation; Pleasants Hardware, hardware supplier; E. H. Martin Tile Co., Sabot, ceramic tile; Costen Floors, Inc., special flooring; W. R. Stansbury & Bro., painting contractor; Wade L. Eatmon Plumbing & Heating, plumbing contractor; Eveready Equipment Sales, Inc., air conditioning contractor; and J. L. Parker, electrical contractor.

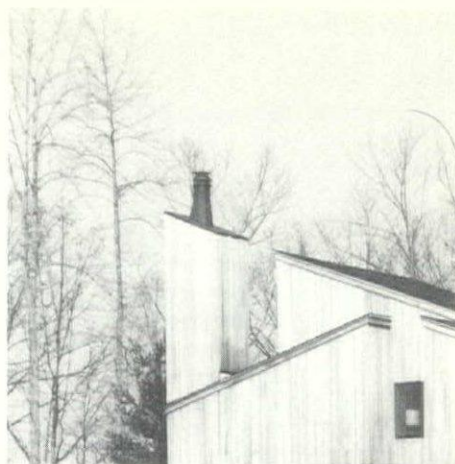
The owner commissioned the architect to design for additional living space and to provide a spatial environment that would better suit the interests of the family. These interests are quite varied, and include small group gatherings relating to community work, underwater photography, collection of sea shells and coral, and collection of paintings and sculpture.

The existing residence was a large single story structure with an almost 5000 SF unusable attic space. The required additional living space was logically provided in the attic by removing a portion of the existing roof and extending wall areas on existing bearing points.

The required addition of a screened-in porch allowed simultaneously on its roof a large sun-deck off the upper floor area. They orient toward the private, landscaped garden and patio area at the rear of the property; from the street side the new addition is hardly visible, as the only apparent change is an extension of the hip roof-line.

The owners, a family of five, lived in the house throughout the construction. They were able to ob-





W. B. Trevillian, Jr. Residence

Albemarle County

John B. Farmer, Jr., AIA — Architect

Mechanical Engineer, John B. Farmer, Jr., AIA •
 Electrical Engineer, John B. Farmer, Jr., AIA •
 Structural Engineer, John B. Farmer, Jr., AIA •
 Landscape Architect, the Owner • Interior Decorator,
 Mrs. Ceil Manzer • General Contractor, Double C.
 Corporation • Photography: Exterior — Robert E.
 Troxell; Interior — John B. Farmer, Jr.; Plans —
 Gitchell's Studio and Kaminer & Thomson, Inc.





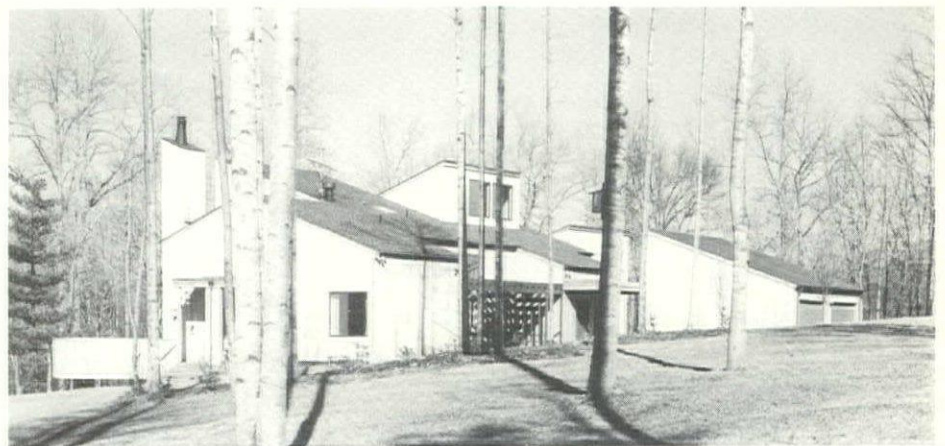
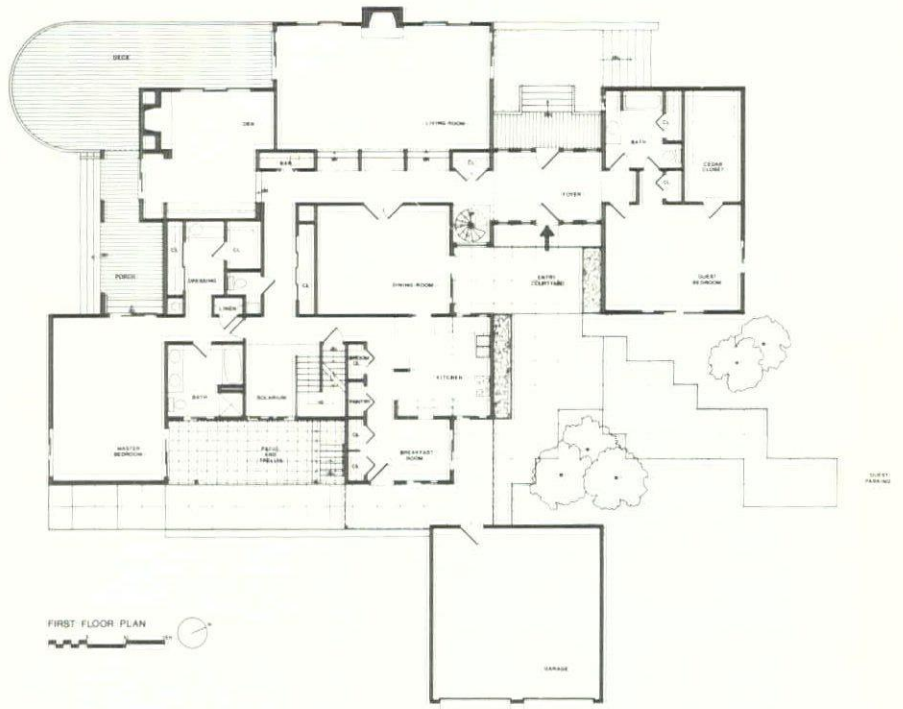
The W.B. Trevillian, Jr. residence is located on eleven acres of gently sloping land within sight of the Blue Ridge mountains in Virginia. Near Charlottesville, it sits in a forest clearing surrounded by poplars, oaks and pines which enclose the house in summer, and then opens up to a mountain view during the winter months.

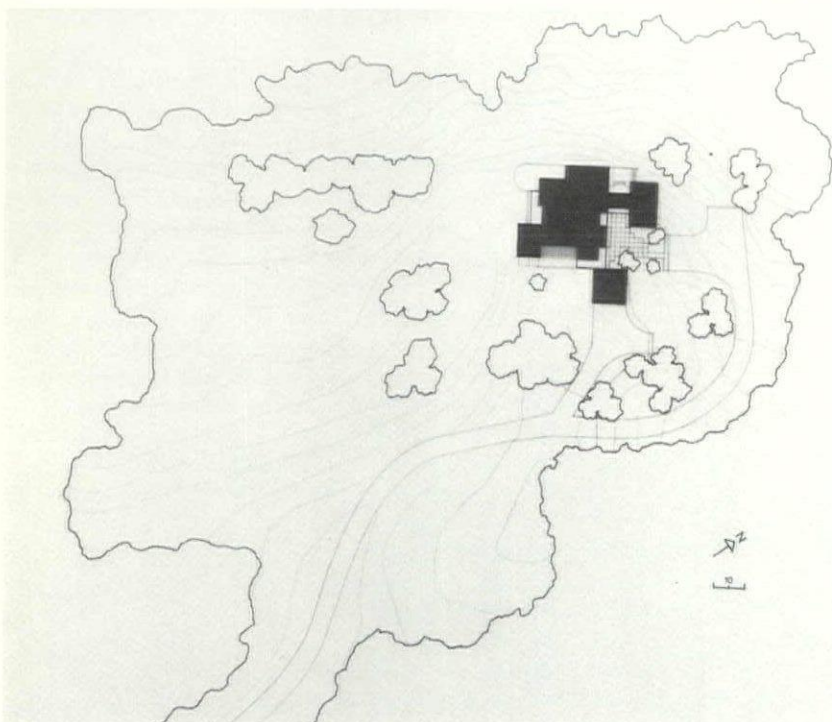
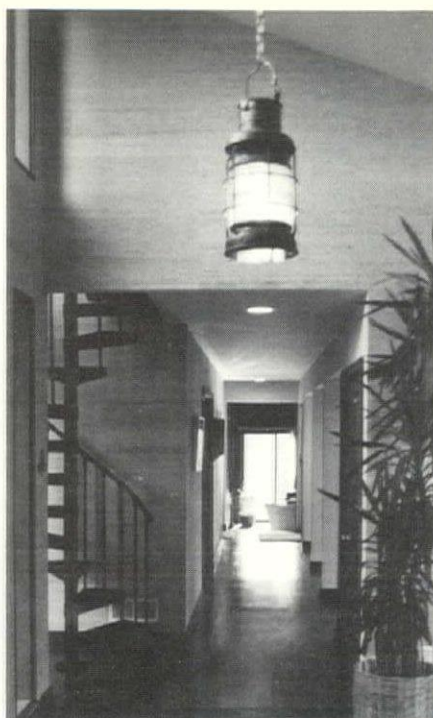
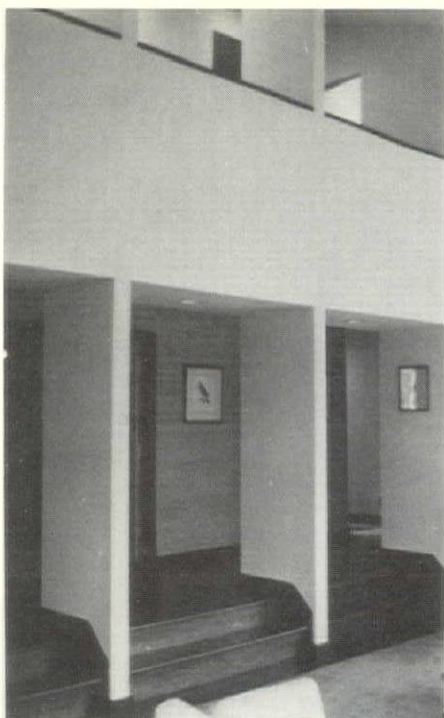
The Trevillian family wanted their home to be open to its surroundings on all sides but, at the same time, also to provide for a sense of enclosure – a place where four people could be together in a “warm, protected environment.”

The Trevillians asked for a dramatic home “full of surprises.” From the moment that guests first approach the house they should be caught up in an unexpected series of events. As Mr. Trevillian put it, “I don’t want a visitor to know what to expect when he approaches my front door.”

The foyer is “light and airy,” according to the wishes of the family. It sets the tone of the house and introduces a spatial shape that is repeated elsewhere. Mrs. Trevillian wanted light “pouring in everywhere (but a cozy feeling inside).” Consequently, there is a variety of sources of natural light. There are no dark corridors – light is always straight ahead, or to the side, or above.

The house is both formal and informal as a reflection of the family’s interests and life style. The approach and the pathway through the house are somewhat meandering. Rooms open up to the side, straight ahead and around a corner. But, the living room and dining room have a formal, axial relation-



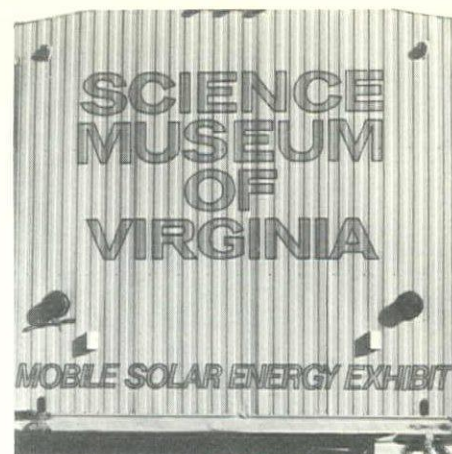


ship. The guest bedroom is separated for the privacy of the family as well as the guests. The living room is tall, formal and light in color, but related to the childrens' rooms by the overlooking gallery. The den is small, cozy and paneled in old chestnut. The kitchen is light and airy due to the uplifted ceiling and clerestory windows over the work area. The stairs spill into the solarium and offer a view to the distant forest from the second floor landing. Throughout, the family interest in comfortable living, hunting, sailing, tennis and art is apparent in the furnishings and fixtures of the house.

The first floor rooms are, for the most part, connected not only inside but outside as well, by the use of patios, decks, porches and walkways. Here again, the Trevillians wanted access to the surrounding landscape quickly and easily.

Upstairs, the children live in spacious bedrooms with high sloping ceilings. Patsy's traditional, canopy bed and Victorian love seat seem quite at home. Her balcony extends the private space to the outside. Will's interest in astronomy is accommodated by a built-in unit beneath the high windows in his room. A combination bunk bed, desk, chest and observation platform rise to the level of the windows and are surmounted by a telescope. The family gallery, with a built-in bench, overlooking the living room is a place for pictures and books that the children share. The other spaces on the second floor are primarily the extensive storage areas that were requested. However, the guest wing was designed with the

(Continued on page 56)



Solar Energy Exhibit

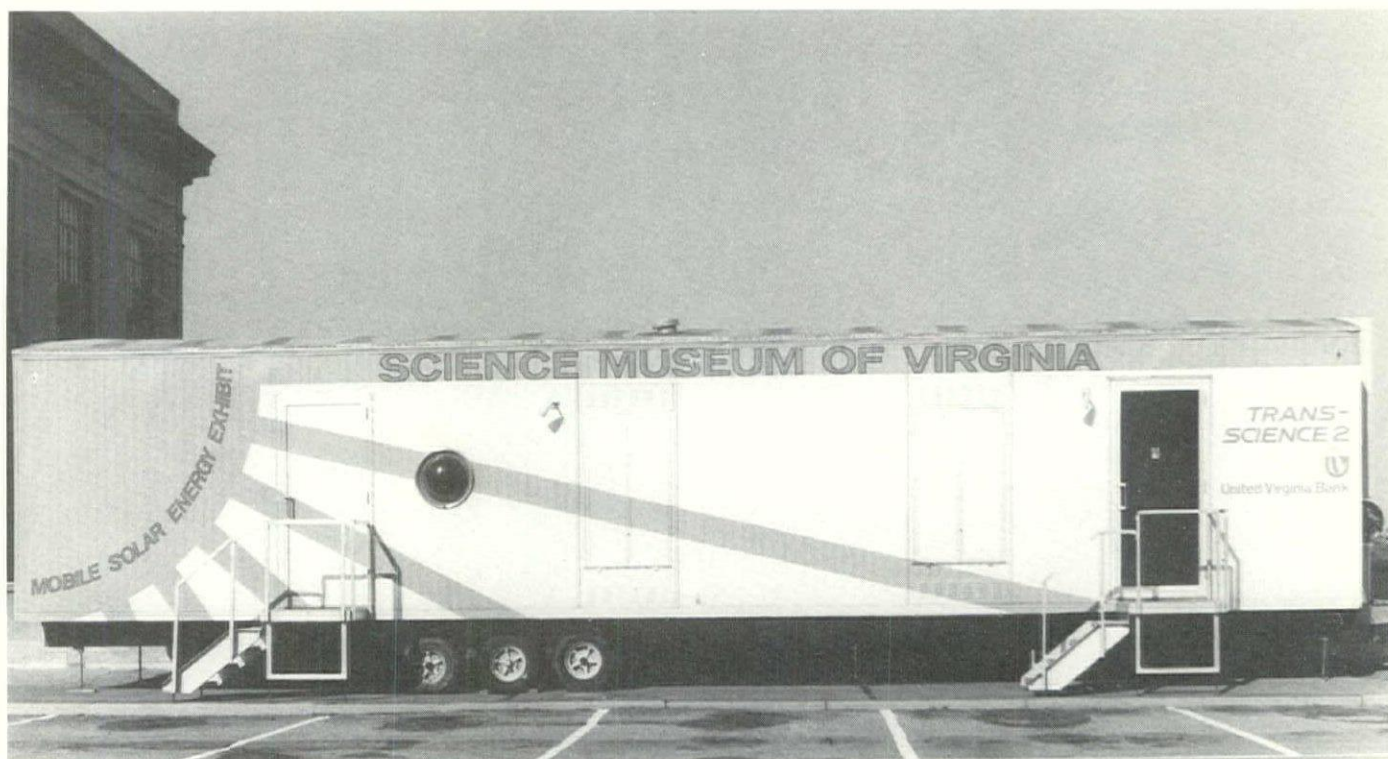
The Science Museum of Virginia, Richmond

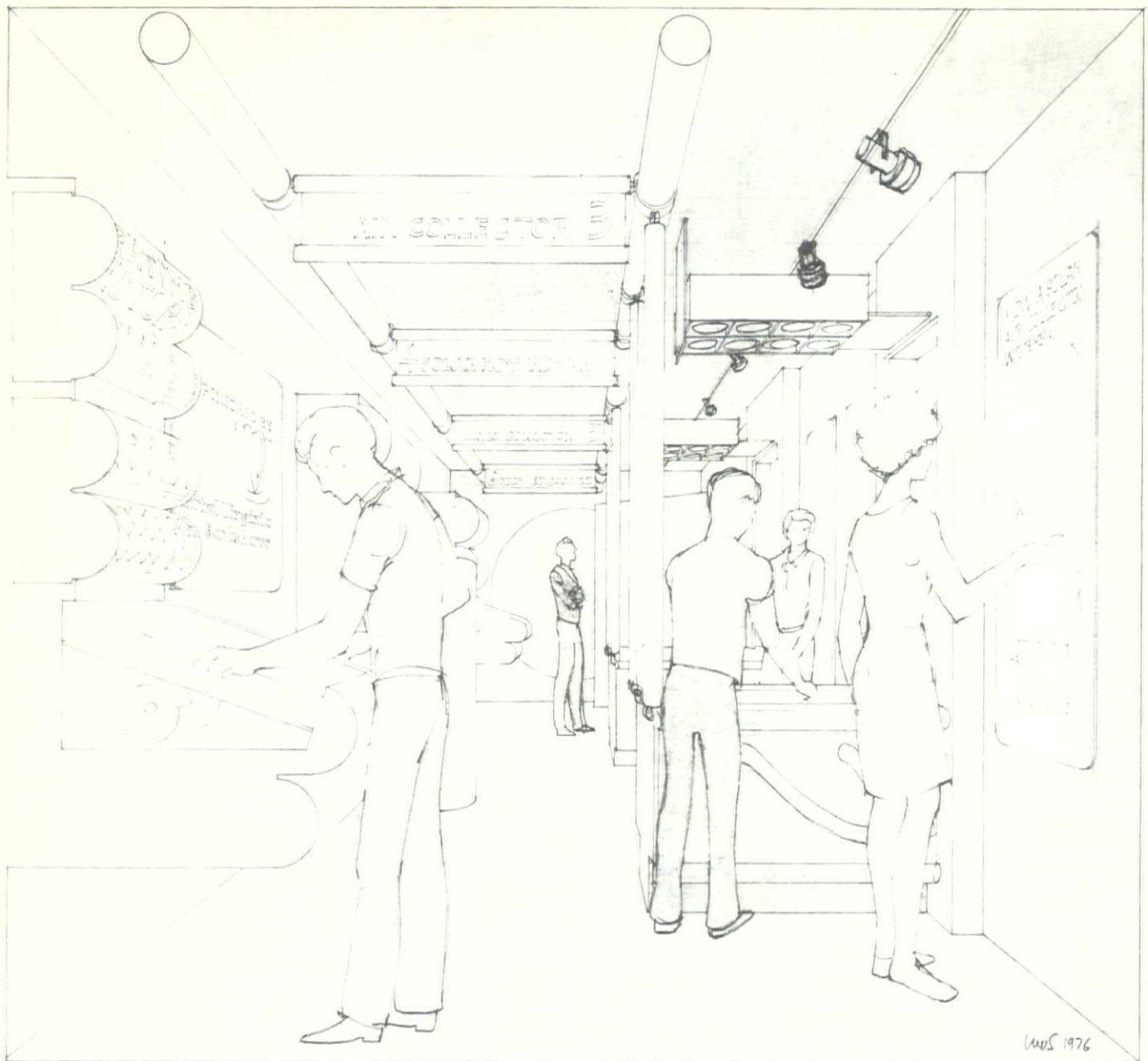
Interplan — Architect

Photography, Interplan

The Science Museum of Virginia opened its mobile exhibit unit, Trans-Science I, with a display related to astronomy and space exploration. After extensive and successful travels across the Commonwealth, the original donor of the unit, United Virginia Bank, agreed to sponsor the design and installation of a new exhibit of Solar Energy.

The Richmond firm of INTERPLAN was selected to design the exhibit, with John G. Lewis, Jr., AIA, of that firm acting as Project Manager. Dr. Charles Smith of the Science Museum coordinated the project.





The Museum and its consultants agreed from the beginning on two criteria: first, the exhibit would include a functioning solar collector system which could be monitored and controlled by visitors; and second, all exhibits would be active, or "hands-on," offering the visitor an opportunity to participate in the exhibition. The completed mobile unit, re-named Trans-Science II, includes: displays of photovoltaic cells; a functioning water collector system; an exhibit illustrating the diffusion of solar radiation; an exhibit demonstrating the common components of solar collectors and their function; a functioning air collector system; a slide show; and a solar domestic hot water system.

The photovoltaic exhibit was mounted adjacent to a new window cut in the side of the unit, so that solar cells mounted on a flexible microphone stand could be exposed to direct sunlight. An artificial light source was also available to energize the cells, which convert light into electricity which operates a small radio.

The solar diffusion exhibit was made from a Pachinko machine. Instead of scoring points, the metal balls representing units of solar radiation, were diverted to a variety of channels, demonstrating factors affecting the availability of solar radiation for use on the earth's surface at a particular time and place.

The functioning collector systems demonstrated aspects of the technology presently available for use in space heating and cooling structures with solar energy. The other exhibits also invited participation by visitors.

Many individuals, businesses, and other organizations contributed expertise, time, and/or materials to the Museum for this exhibit. Some of the major contributors were Reynolds Metals Company, N.A.S.A., the Jackson Manufacturing Company, Inc., Solaron Corporation, Noland Company, Diversified Engineering, and Grundfos Pump Corporation.

The exhibits were fabricated locally and at Lynch Exhibits in New Jersey.

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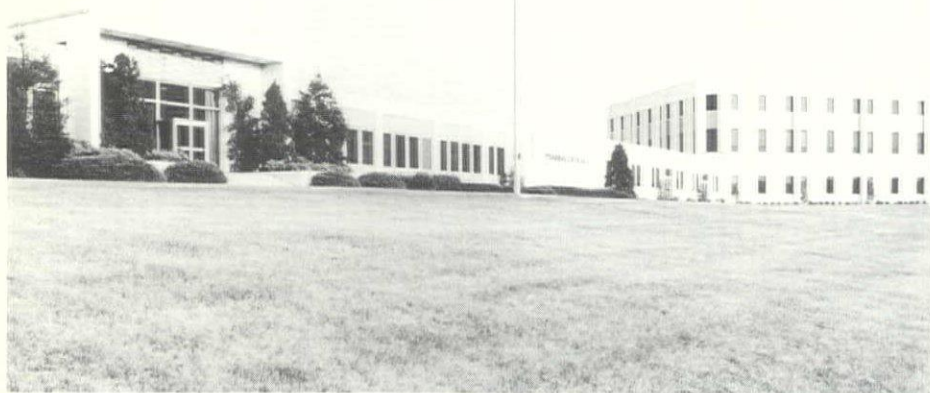


C. B. Fleet Company Expansion

Lynchburg

Wiley & Wilson, Inc. — Architect

Mechanical Engineer, Wiley & Wilson, Inc. •
Electrical Engineer, Wiley & Wilson, Inc. • Structural
Engineer, Wiley & Wilson, Inc. • General Contractor,
J. E. Jamerson & Sons, Inc. • Photography, Foto,
Inc.



The expansion of C. B. Fleet Pharmaceutical's Lynchburg headquarters is an award-winning design by the architects of the original building—Wiley & Wilson, Inc., a Lynchburg-based architectural, engineering, and planning firm, who designed the original in 1961. The expansion includes a single-story L-shaped addition to the warehouse and manufacturing area of the original plant as well as a new employee cafeteria and a three-story office building joined to the main building by an enclosed passageway.

"Certain elements of the design for both additions were dictated by the original building," explains Assistant Project Manager Keith Weeks of Wiley & Wilson, "such as the white and blue highlighted glazed brick exterior." This particular veneer was chosen for its self-cleaning, maintenance-free, durable, and weather resistant properties. The sand slurry finish, brick masonry of the manufacturing addition was chosen to match the existing plant area.

The 49,600 square foot L-shaped area added to two sides of the original rectangular plant was designed with energy conservation, fire protection, and security in mind. The new area contains skylights to provide additional illumination in manufacturing and storage areas. Dual light switches allow the flexibility of using all or half the lights in an area. The skylights will also provide smoke and heat relief in case of fire. If the room temperature reaches a certain level, the skylights will automatically pop

open. The windows in this area are located near the top of the building for security reasons.

The 30,000 square foot office building has three floors of 10,000 square feet each. The foundation and structural steel systems were designed to allow future expansion of three floors. "The topography of the land had significant bearing on the building," says Wiley & Wilson project architect Wayne Hardison. "The new office building is situated at a 45° angle from the main building because of a steep bank running in that direction. The ground floor is built into this bank which rises 20 feet above it. This floor houses the data processing, mailroom, shipping and receiving and mechanical equipment room."

The first floor contains offices and reception area. A spacious contemporary entranceway leading from the parking lot has white concrete steps leading down to the lobby. "We accentuated the entranceway to have an important feeling," Hardison said, "We wanted people to make no mistake about it — this is where they enter." The present unfinished third floor is to be used for future offices.

The office building is approximately 100 feet square with the corners of the four sides flattened; creating almost an octagonal effect. "The corners were cut to allow us to incorporate an enclosed passageway leading from one corner of the new offices to the original building," Hardison said, "Having eliminated that corner, we decided to flatten the remaining three to maintain the building's integrity of design."

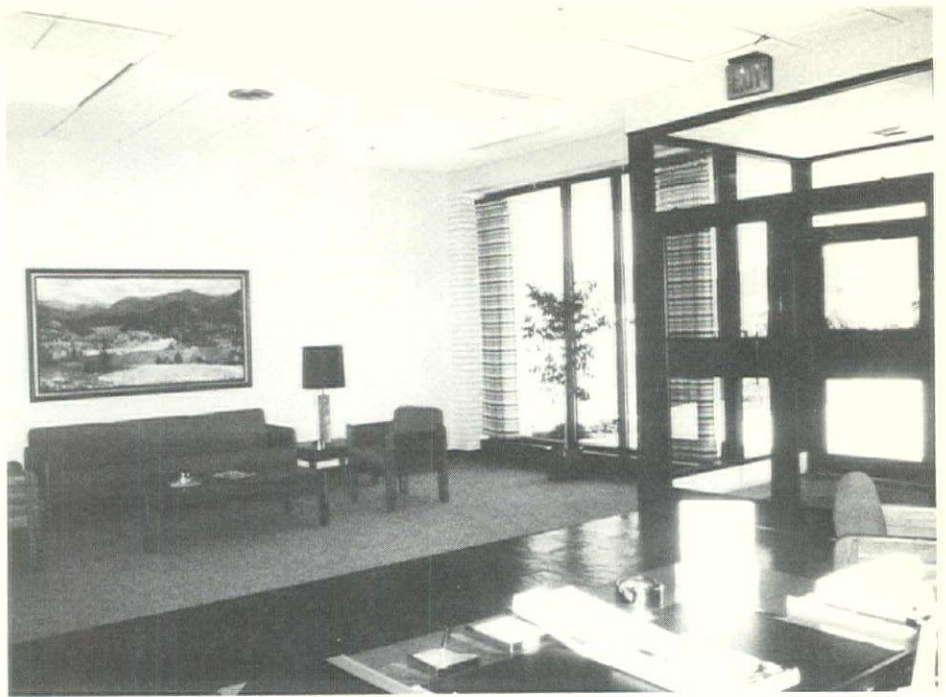
"Windows are another important feature of the new office building," Keith Weeks added, "dual-paned tinted glass with venetian blinds between the panes were chosen for three reasons. First of all, they match the windows of the original building. Secondly, they provide insulation from the noise of a nearby expressway; and third, they are energy efficient by keeping the heat in."

"While some decisions for an expansion design are determined by the original, this does not necessarily make the project easier," says architect Tom Ether-ton, Project Manager of Wiley & Wilson. "The very things that determine the decisions can also confine you unless you see them as a challenge to greater design creativity."

J. E. Jamerson & Sons, Inc. of Appomattox, was general contractor and handled foundations, concrete work, reinforcing and carpentry.

Subcontractors & Suppliers

Lynchburg firms were: Marvin V. Templeton & Sons, Inc., paving contractor; Concrete Ready Mix of Lynchburg, Inc., concrete supplier; Fred M. Stinnette & Co., masonry contractor, stonework contractor & wall insulation; Taylor Bros., Inc., millwork, paneling, cabinets & wood doors; Woodall & Lang, Inc., water-proofing & built-up roof; Lynchburg Plate Glass Co., glass, glazing contractor & storefront; Bailey-Spencer Hardware Co., Inc., hardware supplier; Hamilton's



Floor Fashions & Tile, Inc., ceramic tile; Bernard E. Almond, painting contractor; Southern Air, Inc., plumbing fixture supplier, plumbing/heating/ventilating/air conditioning contractor; and Commercial Steel Erection Co., Inc., steel erection.

Others were: J. E. Evans & Son Construction Co., Appomattox, excavating, sodding, seeding, etc.; Franki Foundation Company, Boston, MA, piling; Hanley Brick Co., Summerville, PA, masonry supplier; Marsteller Corp., Roanoke, stonework supplier; Lynchburg Steel & Specialty Co., Monroe, steel supplier/joists/roof deck, miscellaneous metal, handrails,

metal doors & frames; E. S. Chappell & Son, Inc., Richmond, caulking; Leonard Smith Sheet Metal & Roofing Co., Inc., Roanoke, other roofing, roof insulation & sheet metal; Amelco Window Corp., Glen Cove, NY, windows; Harman Ceiling & Partition Co., Roanoke, gypsum board contractor, acoustical treatment & resilient tile; Contract Furnishings & Design, Salem, carpet; Tate Interiors, Elkridge, MD, special flooring; K & S Sprinkler Co., Kannapolis, NC, sprinkler contractor; Richardson-Wayland Electrical Corp., Roanoke, lighting fixtures/electrical equipment supplier & electrical contractor; and W. W. Nash & Sons, Inc., Richmond, fireproofing.

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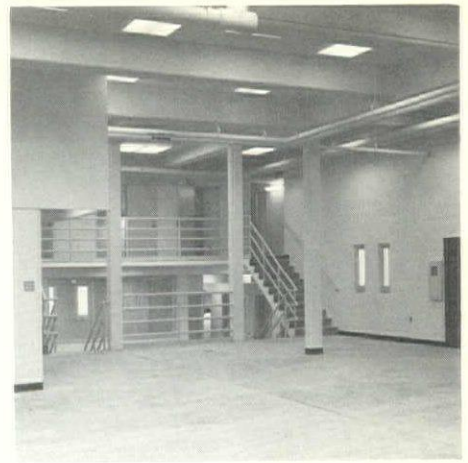
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Federal Reformatory

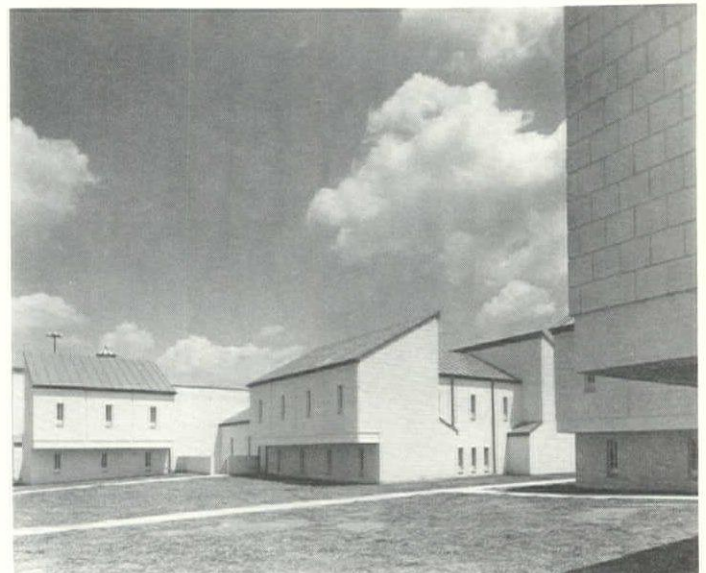
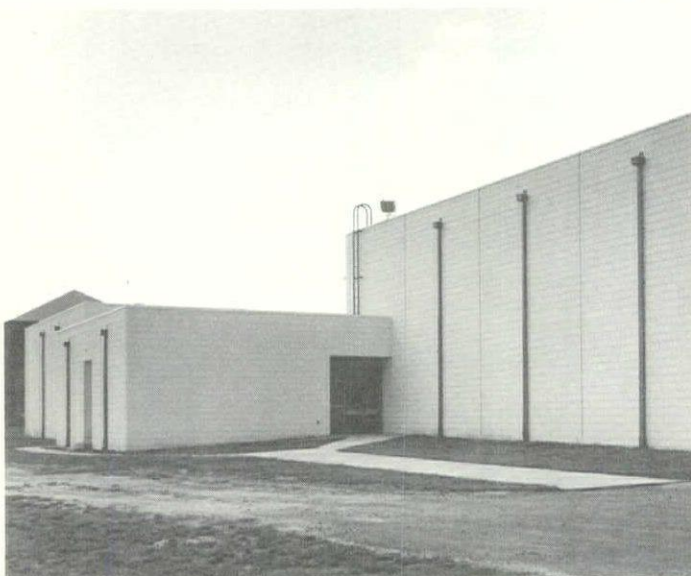
Housing & Program Activities Facilities, Petersburg

Marcellus Wright, Cox & Ladd, P.C. — Architect

Structural Engineer, Henry P. Sadler Assoc. •
 Mechanical Engineer, Roache, Mercer & Faison, Inc.
 • Electrical Engineer, Roache, Mercer & Faison, Inc.
 • Civil Engineer, Austin Brockenbrough & Assoc. •
 General Contractor, Kenbridge Construction Co., Inc.
 • Photography, Robert Hart.

The Petersburg Reformatory is a campus-like facility, with separate buildings housing individual functions. It is in the process of undergoing a transition from outdated barracks-type housing units to more community-oriented designs. The scope of this project included two new dormitories, and a program activities facility for athletic and other group activities.

The new dormitories are located at the center of the complex, just beyond the major entry point through the administration building. The two buildings repeat the same design, orienting to a



sidewalk running between them. They are sited to line up with the existing housing units, thereby clearly defining the surrounding area as courtyard space. They also introduce a new pattern of physical relationships, establishing guidelines for future construction.

The dominant attitude determining the layout of the new housing units is an emphasis upon openness and communal space while maintaining individual privacy, as well as the necessary level of security. Each building contains 68 bedrooms on two levels, totaling 136 bedrooms for both buildings. The bedrooms are organized into four "pods," every pod containing a common room and two bathrooms. The bedrooms line the exterior walls, opening onto a balcony on the upper level. This balcony overlooks the common room below, onto which the lower level bedrooms open. These smaller scale communal areas in turn open onto a large multi-use area in the center, located on a level halfway between the upper and lower floors. Each pod also includes a group activity room on the lower floor, off of the common room. This arrangement results in a hierarchy of private, small — and large — group-oriented spaces. The resulting non-institutional scale encourages individual identity, which aids in the rehabilitative process.

The manager's office is centrally located in the multi-use area, affording a clear view into each pod, thereby furnishing a control point for security.

The program activities facility houses recreational functions; both athletic and non-athletic. The largest of these is the gymnasium, with a basketball court and bleachers. One end of this opens into a body building area, with various types of exercise equipment. The other main wing is a multi-purpose room, with game tables and projection room for showing movies. The central area between the

larger spaces contains locker rooms, showers, toilets, and an athletic office.

The massing of the program activities facility, like the housing units, clearly expresses the building's functional organization on the outside. All buildings have scored concrete block exteriors, painted white with accents of bright color. The same color scheme is repeated inside, with most surfaces painted white to create visual unity among various materials. Stair railings, doors, and occasional walls are bright red-orange and yellow to relieve the uniformity.

The housing units have a cast-in-place integral concrete structural system, with metal roofing. The program activities facility has slab on grade, concrete masonry unit bearing walls, steel joists, metal deck and built-up roofing. The mechanical system for all buildings is central steam with conversion from hot water to zoned warm system. This includes variable ventilation from minimum requirements to 100% outside air.

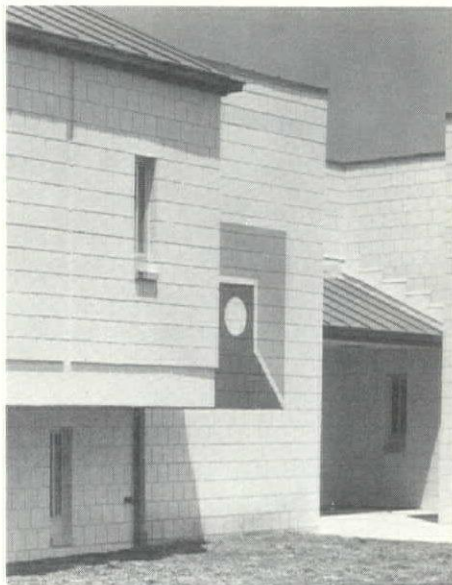
Kenbridge Construction Co., Inc. of Kenbridge was general contractor.

Subcontractors & Suppliers (Richmond firms unless noted)

W. N. Yeatts, Long Island, VA, demolition, excavating, grading, seeding, storm drainage, water system, sanitary sewers; J. B. Eurell Co., wood fiber deck & asphaltic concrete fill; Daniels & Ingram Masonry Contractors, Colonial Heights, masonry, insulation & concrete fill labor; Liphart Steel Co., Inc., steel joist & miscellaneous metal; Alexandria Waterproofing Co., dampproofing; Willard L. Council Roofing, Inc., waterproofing, built-up roof, roof insulation, flashing, skylight & roof hatches; Commercial Caulking Co., sealants; A. Bertozzi, Inc., gypsum drywall; Oliva & Lazzari, Inc., ceramic & quarry tile; John H. Hampshire, Inc., acoustical treatment & resilient flooring; M. P. Barden & Sons, Inc., painting;

and Kenbridge Mfg. & Supply Co., Kenbridge, carpeting.

Also, Greybrooke Co., Reidsville, NC, reinforcing steel, accessories, wire mesh & tie wire; Miller Manufacturing Co., Inc., millwork & wood doors; Williamsburg Steel Products, Brooklyn, NY, hollow metal doors & frames; Pleasants Hardware, finish hardware, weatherstripping & toilet room accessories; William Bayley Co., Springfield, OH, aluminum windows; J. S. Archer Co., Inc., metal toilet compartments; Robert J. Bates Co., Greensboro, NC, louvers; Economy Cast Stone Co., cast stone sills; Lone Star Industries, Inc., Petersburg, concrete; Catlett-Johnson Corp., mechanical & foundation drains; Ace Electric Co., Inc., electrical; PPG Industries, Inc., glass & glazing; J. H. Pence Co., gymnasium seats & basketball backboards; and Marsteller Corporation, synthetic gym floor.



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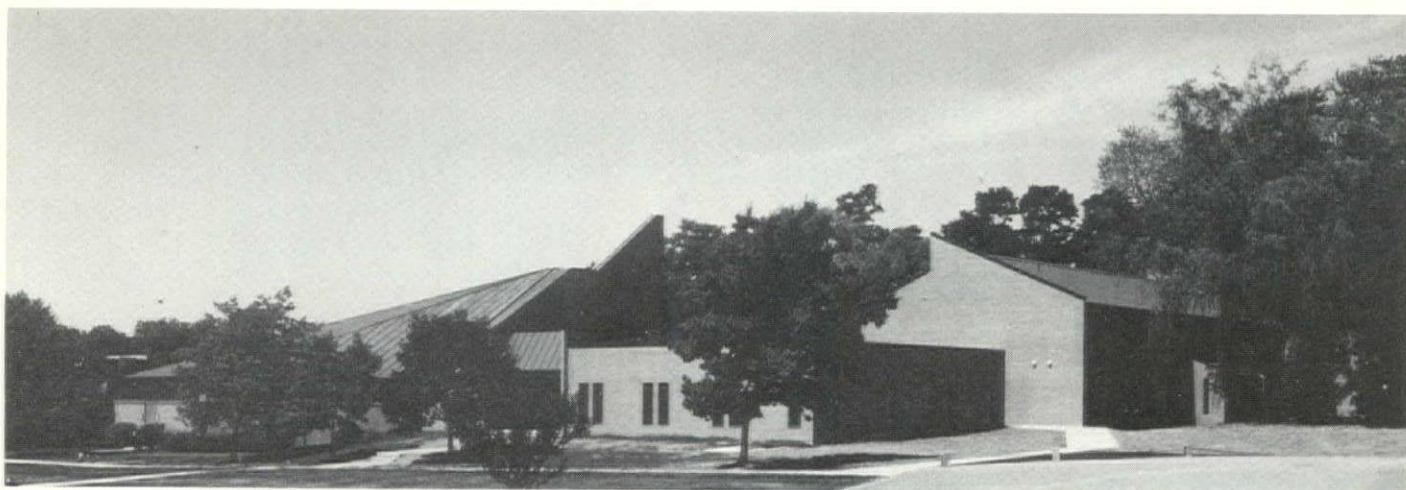


Our Lady of Good Council

Vienna

Dewberry, Nealon & Davis — Architect

Project Architect, Alexander Alvis • Mechanical Engineer, Goodwin H. Taylor, Ltd. • Electrical Engineer, Goodwin H. Taylor, Ltd. • Structural Engineer, Dewberry, Nealon & Davis • Landscape Architect, Dewberry, Nealon & Davis • Interior Design, Karen Grand Pre' • General Contractor, Falls Church Construction Corp. • Photography, Alex Alvis.



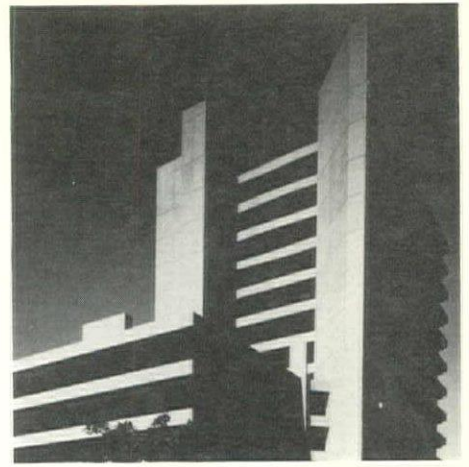
When the Rectory and Administration Buildings for the Parish of Our Lady of Good Council, located in Vienna, Virginia, were built to the north of the existing sanctuary, a harmonious complex was established by the use of compatible forms and materials. The new rectory and administration buildings are set in a grove of monarch trees, thus, reducing the impact of these buildings and allowing the major visual orientation to be the church. This location serves to create a private atmosphere for the priests' living quarters and, at the same time, consolidates the functions of the Parish within the grounds.

The business functions of Our Lady of Good Council are carried out in the offices and secretarial spaces in the administration building. Also included in this facility is a chapel used primarily for morning mass, small weddings, and other ceremonial activities with limited attendance. The floor in the foyer of the chapel consists of clay pavers which are functional and naturally attractive.

In the rectory, the visitors' parlor, housekeeper's suite, and laundry room are on the entry side and visually protected from a parking area by low planting and preserved trees. Activity spaces, located in direct relation with the private yard, lend an intimate and warm feeling because of the rich wood paneling. Buffet serving facilities, adjacent to the large, yet congenial kitchen/breakfast area and concealed doors connecting the dining and activity rooms, provide for continuous circulation when entertaining groups of priests from other parishes. Individual suites for priests, a library and guest room are located on the upper level.

The Architectural Department of Dewberry, Nealon and Davis, an engineering, architecture, land planning, and surveying firm located in Fairfax, was able to make the rectory and administration buildings very desirable places to work and live by creating a sense of seclusion, while providing easy accessibility to parishioners and visitors.

(Continued on page 57)



First American Bank of Virginia

Tysons Corner

Dewberry, Nealon & Davis — Architect

Project Architect, G. Kent Keech • Mechanical Engineer, Shefferman & Bigelson Co. • Electrical Engineer, Shefferman & Bigelson Co. • Structural Engineer, Fortune, Downey & Elliott, Ltd. • Landscape Architect, Dewberry, Nealon & Davis • Interior Design, Space Design Group • General Contractor, Eugene Simpson & Brother, Inc. • Photography, G. Kent Keech.

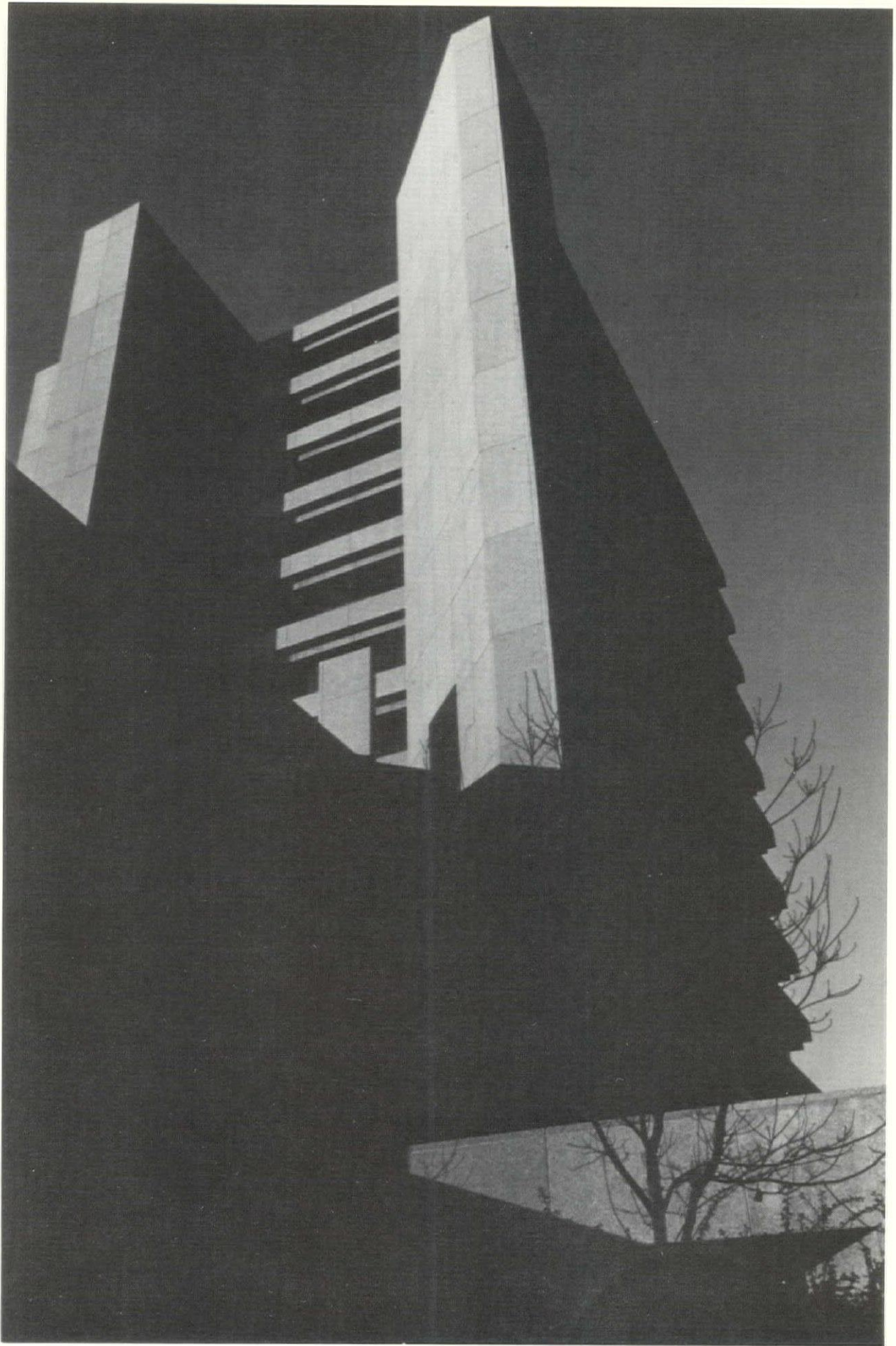
First American Bank, located at Tysons Corner, Virginia, on one of the highest elevations in the metropolitan area, is easily accessible from all direc-

tions. This prime site has views of mountains in Maryland and Virginia, and also the Washington, D.C. skyline. The building's basic design, height, and

angular orientation maximize these and other advantages inherent to the site.

Exterior forms and construction materials such as





gray precast concrete, the solar bronze glass, and the extensive use of dark brown pavers, move from the outside to the inside of the building leading to a sense of uninterrupted design. Uniquely sculptured interiors complete a total environment for the client's employees and the people they serve.

This headquarters building houses the main banking room; impressive, yet personable offices; a training center; a kitchen and dining facility where all tenants enjoy wholesome and appetizing food; a health center; customer and community services; twenty-four hour operations and computer center; and sufficient temporary rental space to provide for the owner's future growth.

The building was formed from the inside outward using three differing floor sizes to meet the client's present and future space requirements. They are basically configured in four-, eight-, and twelve-story modules arranged around a central service core. This form is responsive to interrelationships and varied hours of operation of departments within the bank. Bold vertical elements housing stairs and mechanical equipment were strategically located to further

define points of entry to the building. A raised plaza level with open colonnades sets the building apart from surrounding parking.

First American Bank was a highly creative, collaborative effort, between firms representing two professional disciplines - Architecture and Interior Design.

Eugene Simpson & Brother, Inc. of Alexandria, was general contractor and handled excavating, concrete work and carpentry.

Subcontractors & Suppliers

Franki Foundation Company, Arlington, piling & foundations; Newton Asphalt Co., Inc. of Va., Alexandria, paving contractor; Trowbridge Steel Co., Inc., Sterling, reinforcing; Virginia Concrete Co., Inc., Springfield, concrete supplier; Architectural Masonry, masonry contractor; Arban & Carosi, Inc., Woodbridge, stonework contractor/supplier; Atlas Machine & Iron Works, Inc., Gainesville, steel erection/roof deck; Hallmark Iron Works, Inc., Newington, steel grating & handrails; Quality Woodwork, Washington, DC, millwork, paneling, cabinets & wood doors; Prospect Industries, Inc., McLean, waterproofing;

Wilcox Caulking Corp., Lorton, caulking; and Max Greenwald & Sons, Inc., Tuxedo, MD, built-up roof, roof insulation & sheet metal.

Also, Davenport Insulation, Inc., Springfield, wall insulation; Custom Walls & Windows, Inc., Kensington, MD, glass, glazing contractor, metal doors & frames, windows, window wall & storefront; J. B. Kendall Co., Washington, DC, hardware supplier; Dodd Brothers, Inc., Merrifield, plaster contractor & gypsum board contractor; Franklin Marble & Tile Co., Inc., Capitol Heights, MD, ceramic tile & terrazzo; Southern Floor & Acoustics, Inc., Merrifield, acoustical treatment, resilient tile & carpet; Commercial Painting, Inc., Oxon Hill, MD, painting contractor & wall covering; Roanoke Engineering Sales Co., Inc., McLean, specialties - banking counters; Construction Products & Systems, Oxon Hill, MD, specialties; Building Maintenance Corp., Falls Church, equipment; U. S. Elevator, Beltsville, MD, elevators; Noland Co., Falls Church, plumbing fixture supplier; R. E. Anderson Co., Inc., Alexandria, plumbing/heating/ventilating/air conditioning contractor; Truland Corp., Fairfax, electrical equipment supplier; and American Furniture & Fixture Co., Inc., Richmond, banking counters.

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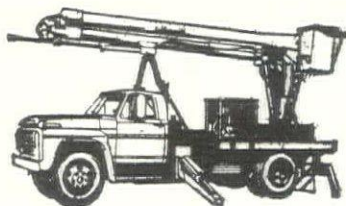
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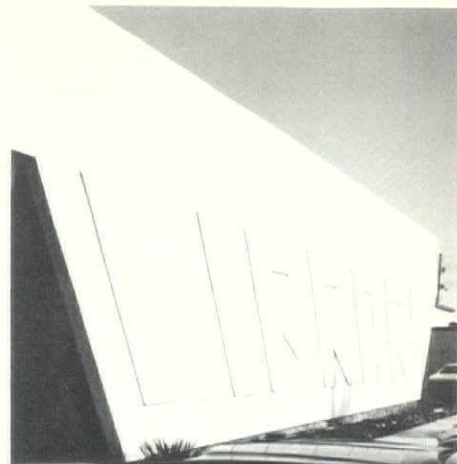
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Oceanfront Library

Virginia Beach

The Design Collaborative/Laszlo Aranyi, AIA — Architect

Site Engineer, Miller-Fox, Civil Engineers • Structural Engineer, Stroud Engineering Company • Mechanical Engineer, E. H. Bowman and Associates, PC • Electrical Engineer, E. H. Bowman and Associates, PC • Interior Design, The Design Collaborative/Dorothy Slone • General Contractor, Commercial Builders, Inc. • Photography, The Design Collaborative/Laszlo Aranyi, AIA.

The Oceanfront Branch Library is located three blocks from the Atlantic Ocean and the "resort strip." It is surrounded by two busy streets, a police precinct and the storage yard of a building supply firm.

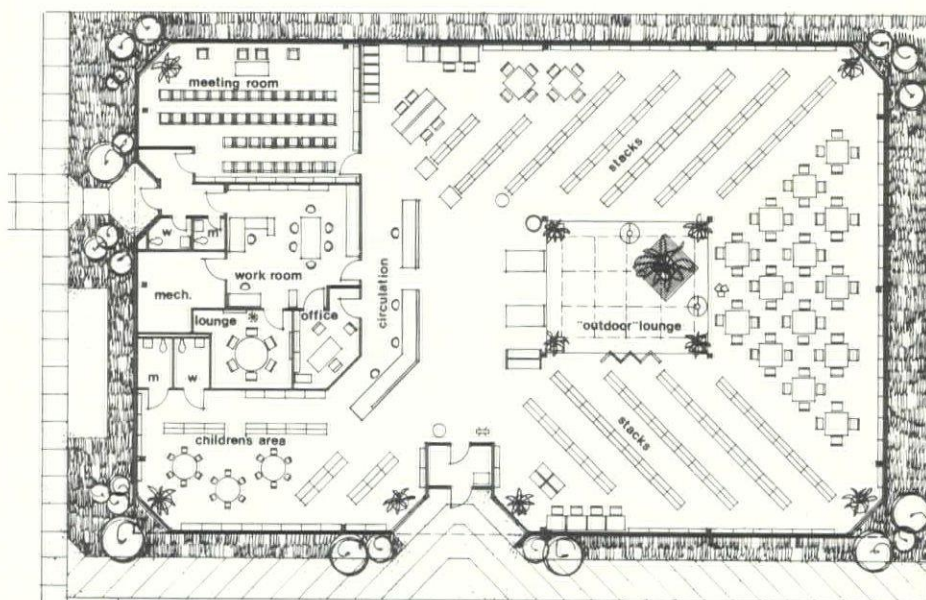
With a limited lot size and no notable exterior scenery, the design team decided to turn the building inward by providing a skylighted "outdoor" court and few windows. This gives the additional benefit of large expanses of wall space for book stacks. The 8,067 square foot facility has the capacity to house 45,000 volumes and seat 120 library users.

Book 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 the book titles may be easily read.

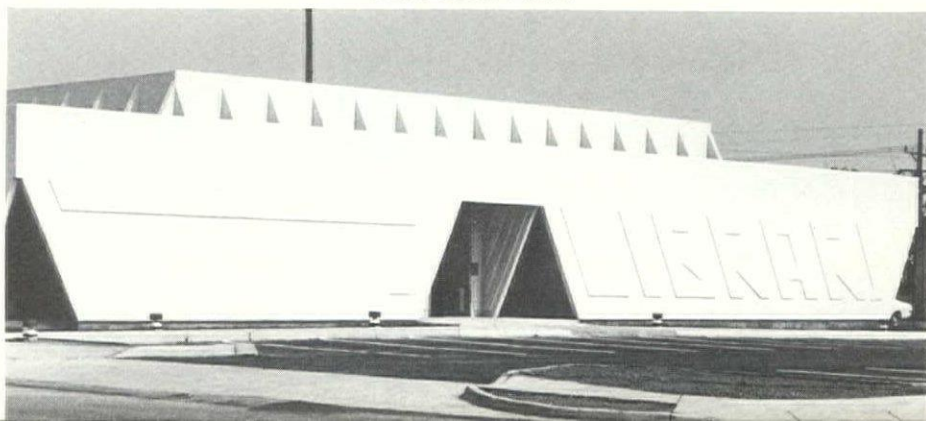
Signs are designed to enable library users to locate easily the various sections of the library. Attached to the shelving end panels is a changeable sign system to allow for collection shifts within the Dewey Decimal sequence.

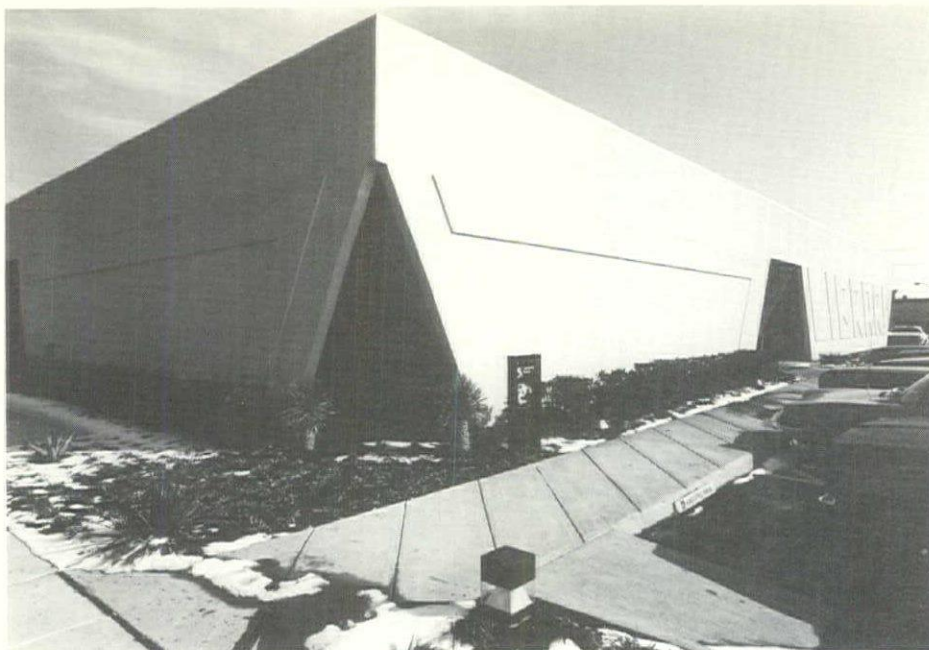
The interior color scheme is coordinated to provide restful and informal surroundings with some accent colors. Most of the color, however, is supplied by the books and the people in the building.

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 de-



FLOOR PLAN



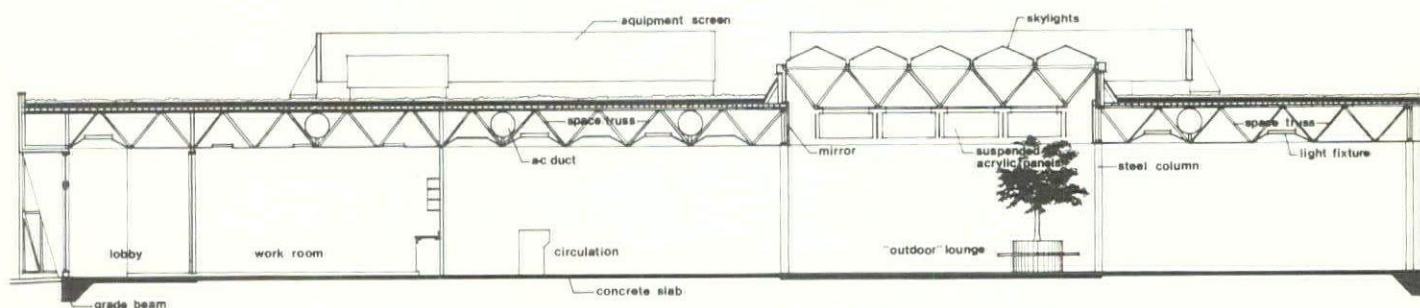


emphasize the light source itself. Most of the light fixtures are switched so half the tubes can be turned off during the daylight hours.

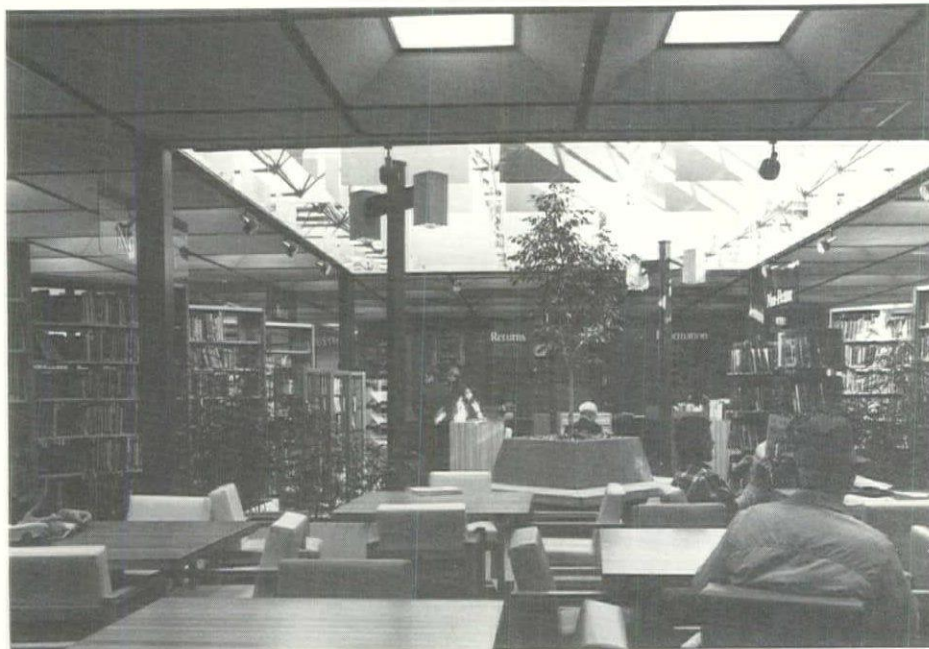
Four roof top heating and air conditioning units serve the building and provide four separate zones of comfort conditioning. The air enters and leaves the rooms through narrow slits in the ceiling system. Humidification is provided during the heating season to prevent the books from drying out.

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

A wide range of services such as children's programs, inter-library loan, reference, basis book



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Commercial Builders, Inc. of Norfolk was general contractor.

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Norfolk firms were: Stevens Roofing Corp., roofing; Binswanger Glass Co., glass & glazing; Ferrell Linoleum & Tile Co., Inc., ceramic & resilient tile; K & L Plumbing & Heating Co., plumbing; Atlantic Sprinkler Co., Inc., sprinkler; Hodges Electric Co., electrical; and Hall-Hodges Co., Inc., reinforcing steel.

And, from Richmond was, Miller & Rhoads, Contract Sales Div., carpeting.

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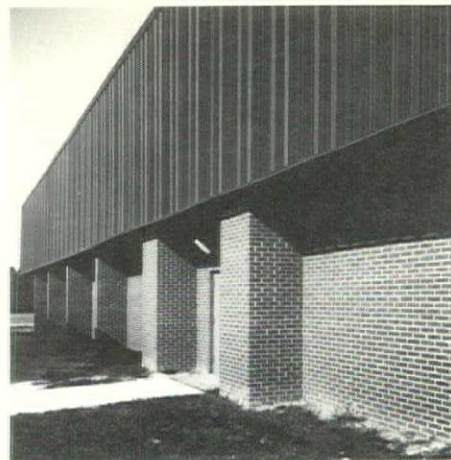
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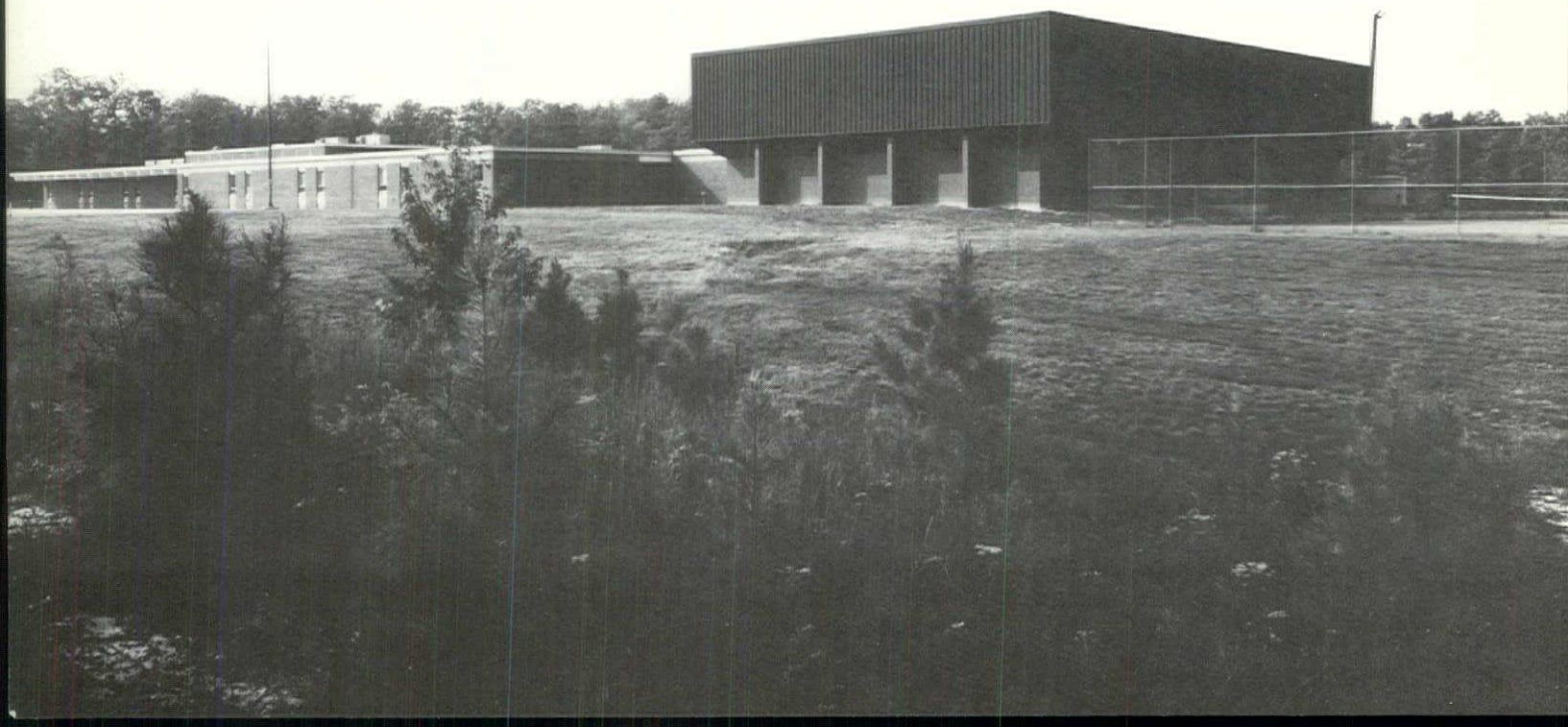
Physical Education Building

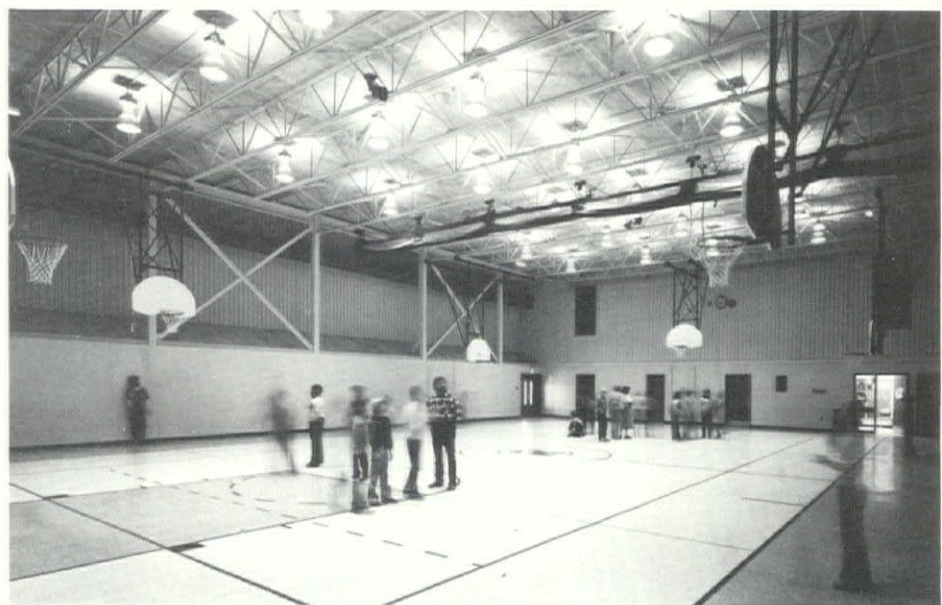
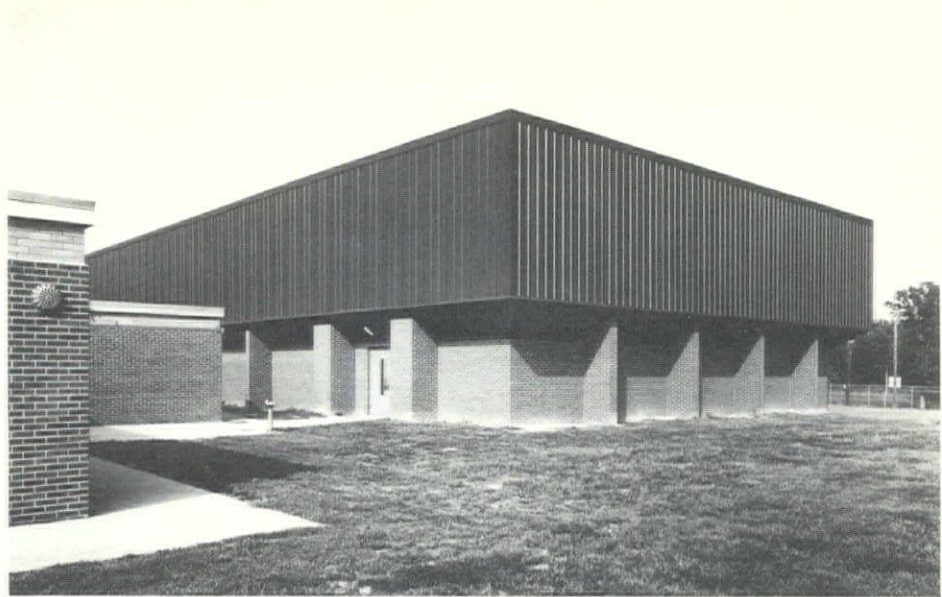
Rohoic Elementary School, Dinwiddie County

Moseley-Hening Associates, Inc. — Architect

Mechanical Engineer, Wm. G. Brandt, Jr. & Assoc. •
Electrical Engineer, Wm. G. Brandt, Jr. & Assoc. •
Structural Engineer, Dunbar, Milby & Williams •
General Contractor, W.M. Saunders Construction Co.
• Photography, Huffman Studio.

In their approach to providing quality facilities for physical education, school board officials in Dinwiddie County, recognized the need for simplicity in both design and construction. Facilities were to be provided at Rohoic and Midway Elementary Schools that would fulfill this need while respecting the limited financial conditions being experienced by Dinwiddie's as well as most educational systems throughout the Commonwealth of Virginia and the rest of the nation.





To begin the difficult process of economizing, without sacrificing quality, school administrators determined that utilization of similar designs would provide an initial savings. Each facility included appropriate gymnasium space with areas provided for coaches' offices, locker rooms and public toilets. A mezzanine located above the offices, locker rooms and toilets provided the necessary space for mechanical equipment and general storage.

With the space programs finalized, board officials wished to compare a traditional structural system with that of a pre-engineered system, and requested the architect to prepare documents for both systems. While the facility to be located at Midway Elementary School was designed with a pre-engineered structural system, the facility for Rohoic Elementary School, presented here, received a traditional load bearing masonry and steel joist application.

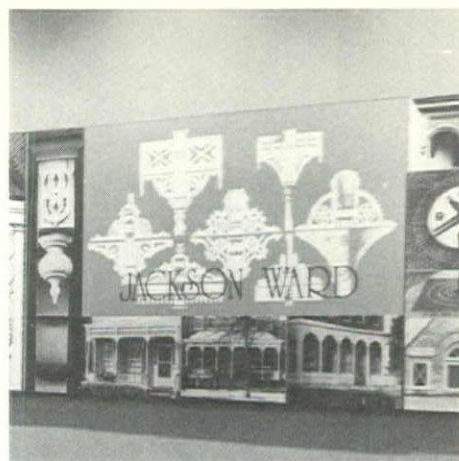
The resulting low construction bids compared almost evenly and the facilities were implemented with their respective structural systems for comparison of ease of construction and long term performance.

W.M. Saunders Construction Co. of Chesterfield was general contractor for the Rohoic facility. The firm also handled sodding, seeding, etc., landscaping, landscaping work, foundations, concrete work, carpentry and millwork.

Subcontractors & Suppliers

Bowker & Roden, Inc., Richmond, reinforcing; Lone Star Industries, Inc., Richmond & Petersburg, concrete supplier & mortar; Daniels & Ingram Masonry Contractors, Colonial Heights, masonry contractor; Lawrenceville Brick & Tile Corp., Lawrenceville, masonry supplier; S & W Steel Co., Inc., Richmond, steel supplier/joists; Martin Fireproofing Corp., Buffalo, NY, roof deck; American Products Corp., Norfolk, miscellaneous metal - architectural louvers; E.S. Chappell & Son, Inc., Richmond, caulking; Whitley Roofing Co., Richmond, built-up roof & roof insulation; H.S. Williams Co., Inc., Marion, wall insulation; PPG Industries, Inc., Richmond, glass; and Roanoke Engineering Sales Co., Inc., Richmond, metal doors & frames.

Also, Howlett Hardware & Specialty Co., Colonial Heights, hardware supplier, toilet accessories & firefighting devices; F. Richard Wilton, Jr., Inc., Richmond, gypsum board contractor; Bill Gery Tile & Marble Co., Richmond, ceramic tile; Fendley Floor & Ceiling Co., Richmond, resilient tile; Chapman & Martin, Inc., Farmville, painting contractor; M. A. Bruder & Sons, Inc., Richmond, paint supplier/manufacturer; SDG, Inc., Richmond, metal toilet partitions; Brownson Equipment Co., Richmond, divider curtain, gymnasium equipment & retractable bleachers; American Standard, Piscataway, NJ, plumbing fixture supplier; Daniel Brothers, Lawrenceville, plumbing/heating/ventilating/air conditioning/electrical contractor; and Cutler-Hammer, Milwaukee, WI, electrical equipment supplier.

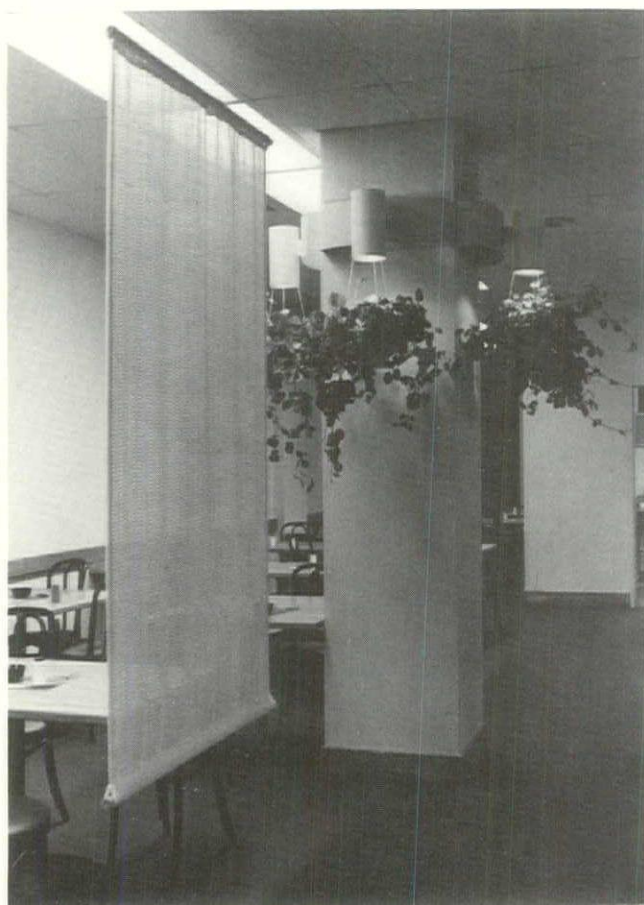


Alterations to Dining Facilities

Hibbs Building, VCU, Richmond

Interplan/Chenault & DePasquale — Architects

Mechanical Engineer, Emmett Simmons & Assoc. ●
 Structural Engineer, Emmett Simmons & Assoc. ●
 General Contractor, Heyward Construction Co., Inc.
 ● Photography, Interplan.

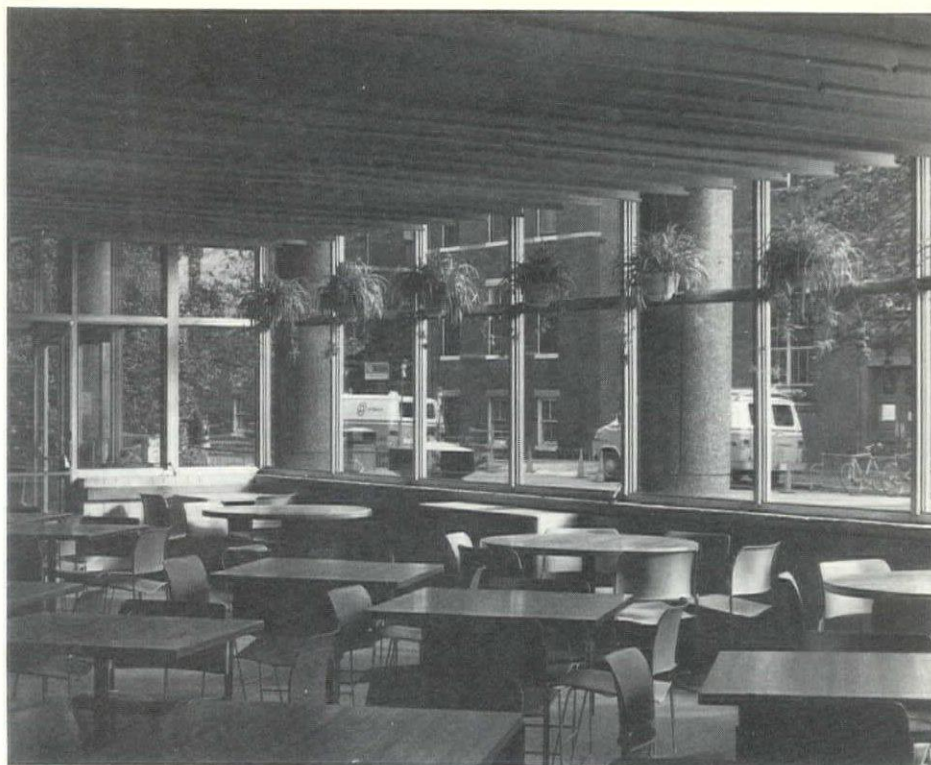


The Richmond architectural firms of Chenault & DePasquale and INTERPLAN formed a joint venture to design improvements to food service facilities for VCU at the Hibbs Building on Shafer Street. The scope of the project was determined after extensive meetings with a committee including students, faculty, and administrative representatives, and after the same joint venture prepared a long range feasibility study exploring uses of the building. During the design phase of the project, students and other users of the existing facilities participated in the project during a charette, and expressed their preferences in a survey.

Intended primarily to improve the atmosphere and environment in existing dining areas, and increase seating capacity, the project was completed within constraints of time and budget imposed by the limited period during which the facility could be closed down. Major construction was completed during the late summer months, and the facility was in operation during the fall while finishing items were installed.

Each of the major new dining areas was given the name of one of the historic areas surrounding the VCU West Campus: the Fan, Oregon Hill, Monroe Park, and Jackson Ward.

John Taylor and Mary Anne Taylor produced photo murals illustrating the special character of these areas for each of the rooms, and each room was designed to provide an environment somewhat dif-



ferent from the others. Colors, hanging fabric panels, furniture, and other decorative items provided this variety.

In the two rooms which do not have windows providing daylight and view, brackets were designed to be mounted on freestanding columns, with integral lights and support for suspended grape ivy plants. These lights, together with new track lights for the photomurals, introduced areas of incandescent light into spaces which had been uniformly lit with overhead recessed fluorescent fixtures. Some of these existing fixtures were removed to provide more varied lighting for these rooms.

The architects also recommended that works of art by students be purchased to hang in the major dining room. This recommendation led to the organization of a University collection of such works, which will eventually provide a record of the school's development, as well as decorate meeting rooms, offices, and other public spaces.

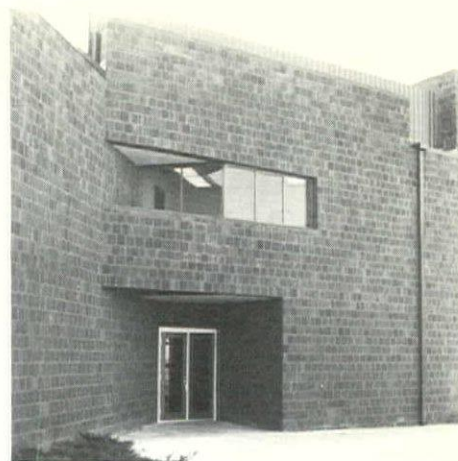
Since time and budget restraints prevented the University from implementing additional recommendations growing out of the feasibility study and survey, future projects are being considered for later summer periods when areas of the food service facility may be closed temporarily.

Heyward Construction Co., Inc. of Richmond was general contractor for the project.

Subcontractors & Suppliers (All Richmond firms)

Capital Masonry Corp., masonry contractor; Miller Manufacturing Co., Inc., millwork; E.S. Chappell & Son, Inc., caulking; Perkins & Glass, Inc., glass & glazing contractor; A. Bertozzi, Inc., drywall contractor; H.E. Satterwhite, Inc., ceramic tile, structural (glazed) tile & terrazzo; W.W. Nash & Sons, Inc., painting contractor; Catlett-Johnson Corp., plumbing/heating/ventilating contractor; Commercial Electric, Inc., electrical contractor; and Richmond Sign Co., signs.



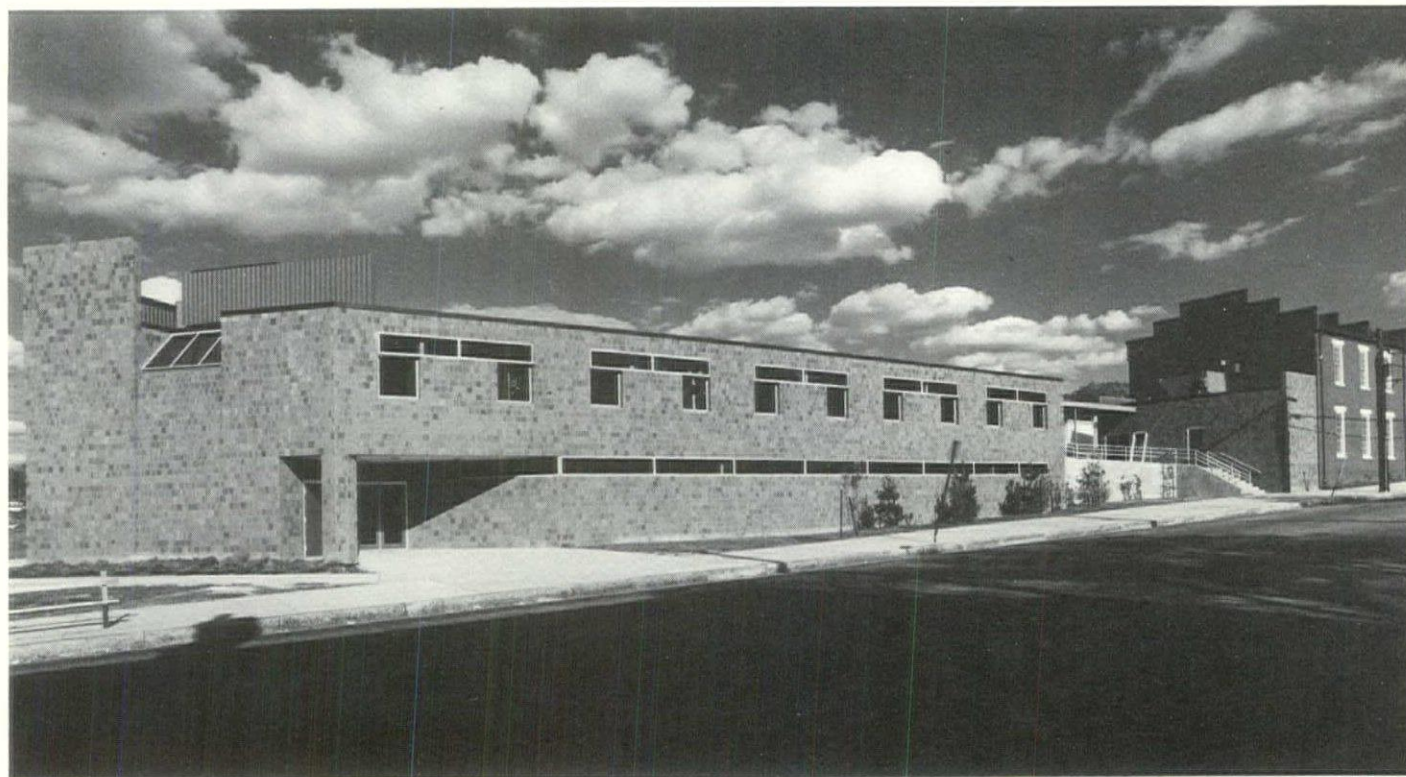


Church Hill Social Service Center

Richmond

Glave Newman Anderson & Associates, Inc. — Architect

Owner, City of Richmond, Virginia • Structural Engineer, William J. Davis • Mechanical Engineer, Hankins and Anderson • Electrical Engineer, Hankins and Anderson • Landscape Architect, Wilson-Moreth Partnership • General Contractor, A. L. Howard, Inc. • Photography, Glave Newman Anderson & Associates, Inc.



Located in a depressed section of Richmond, the delivery center for the Church Hill Social Services Building was intended to provide a highly visible presence and image of the city's services. The chief design objective was to take a low budget, bare-bones, hard-nosed building and soften it to create an identity and feeling that neighborhood residents could relate to. The scale of the new building was reduced by keeping the floor height as low as possible and by using "house-sized" window openings wherever possible. The "Sons of Temperance Meeting Hall," a small church building dating from the 1850s, was restored to continue its role as a neighborhood meeting place, this time as an activity center for senior citizens. The Temperance Building is linked to the main structure by a second-level covered plaza. Traditional stepped gables of this building are echoed by the brick fins of the new structure.

The buildings provide a landmark on the axis of Jefferson Street, a major diagonal cross street. The buildings' set-back is related to the scale of typical neighborhood townhouses, and the bay spacing and window size are related to the scale of the neighborhood.

The main building is divided into three parts. In the center there is a large rectangular office loft. Two floors of space whose walls are independent of the structural and mechanical systems can be easily rearranged to meet future needs. At either end, fixed elements (such as stairs, toilet and an elevator) are

grouped together in triangular wings. At the west end the angled walls turn a bold face to the Jefferson Street intersection — a highly visible corner in the neighborhood. At the east end the angled wall forms a partly enclosed "courtyard" between the main building and the Temperance Building.

The interior is a duffle-bag space, capable of accommodating multiple agencies and changing patterns. As mentioned above, all partitions can be shifted without disturbing the HVAC, electrical and lighting. Since completion, changes in partitions have occurred.

This demand for flexibility has resulted in an almost industrial aesthetic in the interior. Bright colors are used throughout to create a lively atmosphere. The steel frame and the mechanical systems are color-coded in varying shades of blue. Off-white walls lighten the interior and bright reds, greens and yellows applied to accent walls, provide splashes of color while helping to organize the suites of offices. The resulting interior is rather festive and has been well received by the neighborhood.

Structural steel frame and columns with hollow core precast concrete plank were used for floor and roof decks (cells of planks double as electrical and telephone raceways to permit relocation of partitions); brick and block form cavity wall; partitions are concrete block in service and toilet areas and steel stud with sheetrock in office lofts. Interior finishes are mostly carpet, and painted walls. The plank overhead is left exposed and painted. The mechanical system consists of two roof-top, multi-

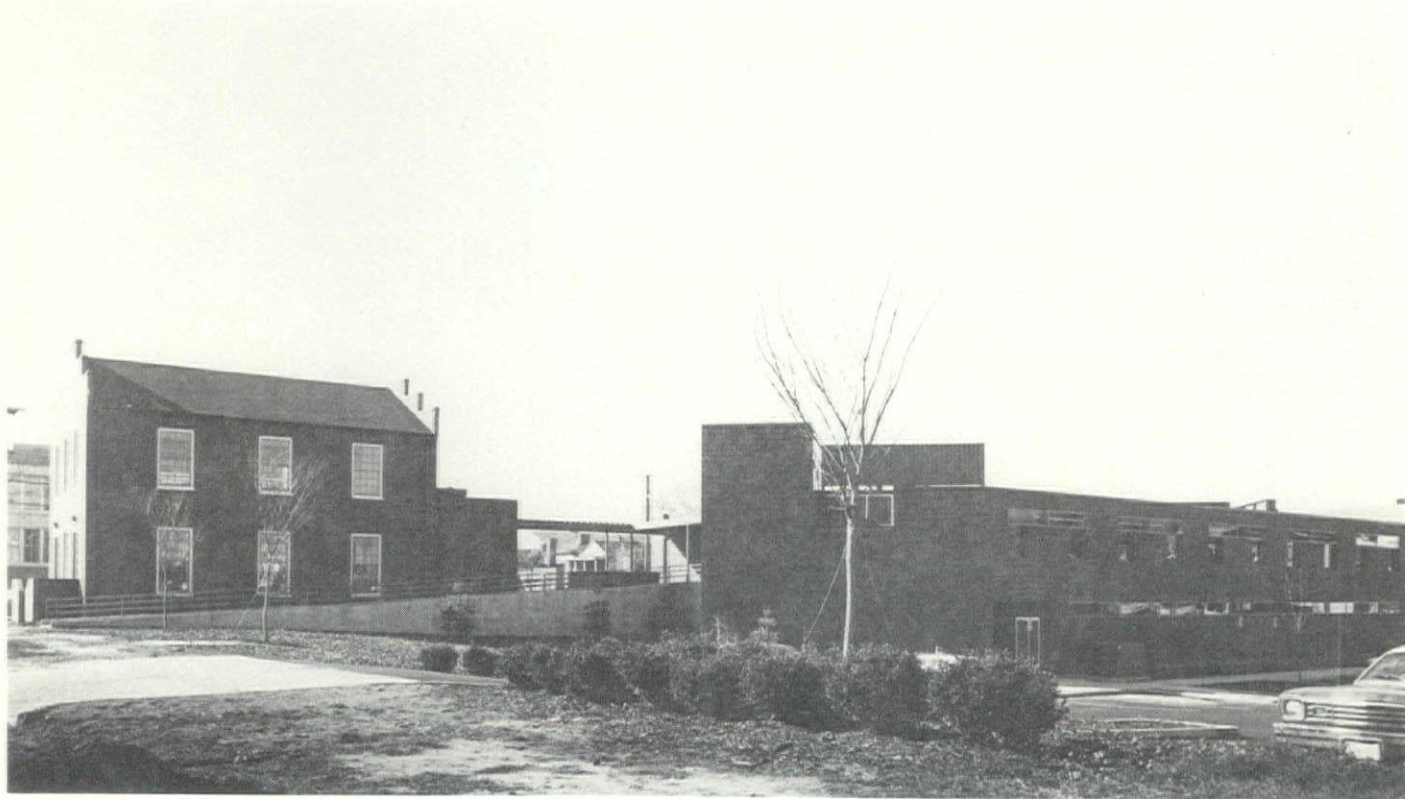
zone units. Ducts are left exposed and painted bright blue to enliven the spaces.

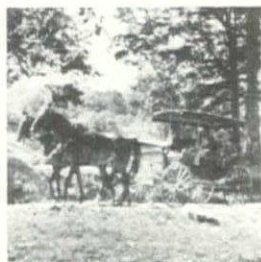
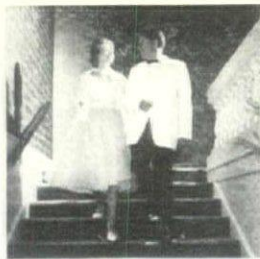
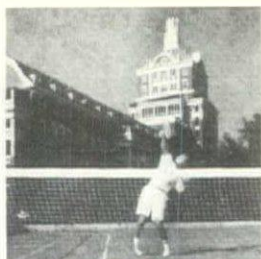
The building was constructed under a HUD grant program, with land acquisition paid for by the City of Richmond.

A. L. Howard, Inc. of Richmond was general contractor and handled concrete work, reinforcing, carpentry and gypsum board work.

Subcontractors & Suppliers (Richmond firms unless noted)

E. G. Bowles Co., paving contractor; Concrete Structures, Inc., prestressed concrete; Capital Masonry Corp., masonry contractor; E. C. Keys & Son of Virginia, masonry supplier & mortar; Hanover Iron & Steel, Ashland, steel supplier, miscellaneous metal & handrails; Ruffin & Payne, Inc., millwork, cabinets & wood doors; Western Waterproofing Co., Inc., St. Louis, Mo., waterproofing; E. S. Chappell & Son, Inc., caulking; N. W. Martin & Bros., Inc., built-up roof & other roofing; PPG Industries, Inc., glass & glazing; J. S. Archer Co., Inc., metal doors & frames; Hope's Windows — Courtenay Welton, windows; Pleasants Hardware, hardware supplier; Stonnell-Satterwhite, Inc., ceramic tile; Consolidated Tile Co., resilient tile; Carpetalk, carpet; Glidewell Bros., Inc., painting contractor; M. A. Bruder & Sons, paint manufacturer; Dover Elevator Co., elevators; Noland Co., plumbing fixture supplier; Catlett-Johnson Corp., plumbing/heating/ventilating/air conditioning contractor; and W. C. Lang, Electric Co., Inc., electrical contractor.





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Among performers in the Air Show are: the Golden Knights, the U. S. Army parachute team, whose members perform aerial maneuvers with split-second timing; precision flyers Bob Russell and Bob Hoover; Bob Wagner and his wife Pat, who rides the wing; and Charlie Kulp of the Flying Circus. Shows begin at 2 p.m. on Saturday and Sunday, June 16 and 17. Gates will open at 8 a.m. Saturday for early visitors.

In addition, the Shannon Air Museum, which houses an impressive collection of antique aircraft, will be open 8 a.m. to 5 p.m. during the weekend.

(Please turn the page)

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Admission to the Air Show is \$3 for adults and \$1 for children 8 and under. Museum admission is \$1.50 for adults and 75 cents for children 10-18.

Awards to fly-in participants will be presented at an annual banquet to be held at 8 p.m. Saturday. Tickets are available at the Shannon Airport.

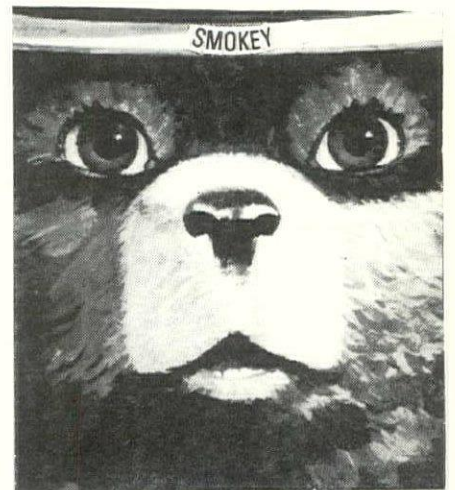
Fredericksburg is a 50-minute drive from Washington, D. C. or Richmond, Va., midway between the two cities on I-95. Further information and air show directions are available from: The Bicentennial Visitor Center, 706 Caroline St., Fredericksburg, Va., 22401, (703) 373-1776.

RIVERSIDE JULY 4 CARNIVAL LEADS FREDERICKSBURG HERITAGE FESTIVAL July 4, 6, 7, and 8

To celebrate the city's Revolutionary, Colonial, and Civil War roots, Fredericksburg, Virginia, will hold a four-day Heritage Festival, beginning with a riverside Fourth of July Carnival and Raft Race. Other activities on the Fourth will include an antique car display, a band concert, children's games, fireworks, hayrides, foot races, puppet shows, boat rides, and crafts displays.

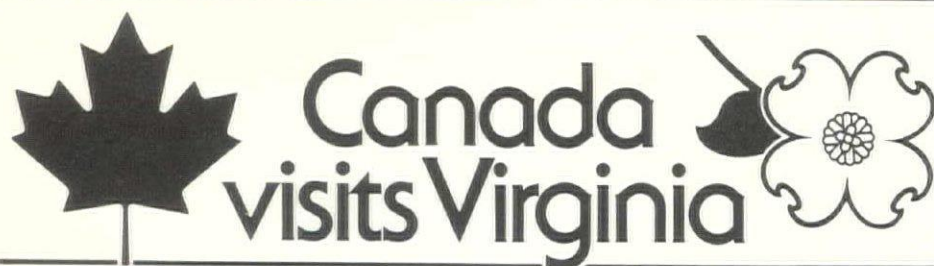
Events on July 6, 7, and 8 will center around the Civil War, with an authentic campsite, parade, band concerts, battle skirmishes, and a reenactment of Meade's breakthrough in the famous Battle of Fredericksburg.

Admission to all events is free, but raft race participants must pre-register. There are small fees for rides and some games. Pit-cooked barbecue and other homemade foods will be on sale.



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Canada Visits Virginia Day Held May 3 in Richmond

• H.E. Wyatt, Vice Chairman and prospective Chairman of the Canadian Chamber of Commerce, was the keynote speaker following a reception and dinner culminating *Canada Visits Virginia* day on May 3. The evening affair was jointly hosted by Governor John N. Dalton and Canadian Consul Willard G. Pybus at the Commonwealth Club in Richmond.

Canada Visits Virginia day was conceived by Consul Pybus, who directs Canada's Philadelphia Consulate, as a visible mechanism for establishing closer working relationships between the business sectors of Canada and Virginia. A group of about thirty Canadian businessmen visited the state on May 3 to call on their Virginia counterparts and discuss trade, travel and industrial opportunities. "Understanding

each other's point of view is the key to our ongoing relationship," said Mr. Wyatt concerning Canada/U.S. relations.

Other activities in the day's schedule included a breakfast briefing for the Canadian group at the Richmond Hyatt House arranged by the Virginia State Chamber of Commerce, a call on Governor Dalton by Consul Pybus and Mr. Wyatt at 3:00 p.m. and a Canadian Tourism seminar at the Hyatt at mid-day conducted by the Canadian Government Office of Tourism.

The activities of *Canada Visits Virginia* day were coordinated locally by the Virginia Division of Industrial Development, the Virginia State Chamber of Commerce, the Canadian Consulate in Philadelphia and the Canadian Embassy in Washington, D.C.

Cicadas Soon to Arrive In Many Counties

• In the next few weeks, Brood II of the periodical cicada will be invading Richmond's west end and 38 Virginia counties extending from Loudoun and Fairfax south to Mecklenburg and Henry, east of the Blue Ridge Mountains. State Entomologist, W.H. Matheny, of the Department of Agriculture and Consumer Services, says that Brood II is one of the significantly larger broods of the periodical cicada. The periodical cicada is not to be confused with the annual cicada. Periodical cicadas measure about 1½ inches and are black with red eyes and orange veins in their wings. Annual cicadas are larger in size and are green in color. Periodical cicadas have been called the 17 year locust but this is a misnomer. Locusts and cicadas are two different insects.

For centuries, brood records have been kept and thirty broods of periodical cicadas have been identified. Broods 1-17 appear every 17 years and Broods 18-30 appear every 13 years. Since Brood II is a 17 year periodical cicada, it was last seen in 1962.

The male cicada appears before the female and produces a shrill, buzzing noise called singing. The song he sings can be a mating call, a sound of alarm, or a call to brood members to congregate. The female emerges a short time later and is not known to make any sound. About a week after the adult cicadas have emerged, mating begins. A saw-like appendage or ovipositor is attached to the abdomen of the female. She uses this appendage to make slits, one to two inches long, in tree limbs where she lays her eggs. As many as 20 eggs are laid in each split. Each female can lay up to 500 eggs during the six week period she is above ground. Oak, hickory and fruit trees are favorite laying places for the periodical cicada. Young trees can be severely damaged by this splitting of the limbs. Spraying SEVIN or CARBARYL can prevent major damage but timing is very important. Covering young fruit trees in yards with cheese cloth or other netting will afford good protection. The best time to spray is a

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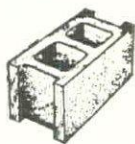
week to ten days after the male cicada starts singing. This will have given the female enough time to emerge, mate and begin laying her eggs. If you live in an area where the cicadas will emerge, postpone pruning until after the eggs have hatched. After the eggs hatch, the young cicadas drop to the ground, dig down about 15 inches, and attach themselves to the roots of a tree. Even though they feed off the roots, they do not endanger the life of the tree. They continue to grow until they have reached maturity and emerge 13 or 17 years later, depending on the brood. The young cicadas hatched this spring will live underground for 17 years until they emerge as adults in 1996.

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Associates receiving awards were Roger Smith, Sentry Realty, Inc.; Flo Young, Beltway Homes; Walter Bosch, Beltway Homes; G.R. "Cotton" Johnston, Sentry Realty, Inc.

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Virginia Foundation Awards \$81,275

• Thirteen new grants, totalling \$81,275, have been awarded by the board of the Virginia Foundation for the Humanities and Public Policy (VFHPP). The funds will be used to support public humanities programs in communities throughout the state.

(1) The Church Women United of Harrisonburg/Rockingham County were awarded a \$1,621 grant to hold a town meeting on April 20-21, 1979, to consider the special problems women and juveniles face in the criminal justice system.

The town meeting featured addresses and small group discussions covering the history of the criminal justice system, the causes of crime, special difficulties women and juveniles have in prison, alternatives to incarceration, and the complex interactions of victims, offenders, community groups, and the legal establishment.

Scholars from the disciplines of philosophy, sociology and jurisprudence joined local ministers, law enforcement officials, social service personnel and former offenders in attempting to understand the issues involved and explore what role church and community groups might take in this area.

(2) On September 8-9, 1979, the First Virginia Regiment of the Continental Line will stage a living history demonstration on military and civilian life during the Revolutionary War era. Supported by a \$2,100 grant from the Virginia Foundation, the project will contrast the life style and military methods of the Revolutionary War era with those of today by means of a recreated Colonial encampment. Three hundred costumed interpreters, under the guidance of professional historians who specialize in the period, will perform a mock battle and demonstrate activities of daily life in the eighteenth century.

(3) The George Mason University Libraries will organize a series of four colloquia on the critical relationship of libraries and librarians to the preservation, promotion, and development of the humanities with funds provided by a \$4,772 grant.

In July 1979, a colloquium entitled "The Uses of Literature, History and Libraries" will be held at George Mason University, Fairfax. The College of William and Mary, Williamsburg, will be the site of a colloquium on literary aspects of libraries, scheduled for September. The librarian and the historian will be the subject of a colloquium at Mary Washington College, Fredericksburg, in October, and Old Dominion University, Norfolk, will host a colloquium on the relationship between libraries and the history of art and art criticism planned for November. At the conclusion of the series, a videotape will be made summarizing the meetings which were held.

(4) From April 22-29, 1979, the Division of Fine Arts and the Humanities, Hampton Institute, Hampton, held an arts and humanities festival examining the history and role of cultural diversity in America with funds provided by a \$5,850 grant.

The Festival focused on a number of closely related questions: the role predominately Black in-

stitutions have had in American society, the degree of awareness among the general adult public of African cultural traditions and values, and the contribution these traditions can make in the United States today.

Participants in the program included scholars from philosophy, history, literature, linguistics, psychology, sociology, education, art history, music, and drama as well as government officials and representatives from civic and church groups. Demonstrations and performances by practicing artists, musicians, poets, and dancers supplemented lectures and discussions on African culture and traditions.

(5) \$17,870 has been awarded to Ferrum College, Ferrum, for the production of 32 half hour television programs in which four humanists will discuss current issues using the insights and perspectives of their respective disciplines: American history, world history, philosophy, and literature.

Beginning in September 1979, the series will be broadcast over WBRA-TV, Roanoke; WSVN-TV, Bristol; and Central Virginia Educational Television, Richmond. The programs will continue the acclaimed "Public Eye" series which was begun by Ferrum College and WBRA/WSVN-TV in 1977 with funding from the Virginia Foundation.

(6) The Virginia Voice for the Print Handicapped has been given a \$8,200 grant to produce a series of twelve hour-long radio programs entitled "Virginia on Tour."

Each program will include a half-hour pre-recorded walking tour at a location of historic or cultural significance and a half-hour live, call-in discussion. The walking tour will feature two hosts, one sighted and one blind, who will emphasize the opportunities that the handicapped can take advantage of by visiting historical and cultural sites in Virginia. The discussion portion will encourage dialogue among members of the handicapped community.

The programs will be designed to bring to the visually handicapped humanities resources currently unavailable to them. Scholars in the humanities will participate in both portions of all episodes in order to raise historical and ethical questions, to direct discussion, and to answer questions raised by audience members.

(7) "Virginia's Maritime Heritage" is the subject of an archaeological exhibit made possible by a \$11,367

grant to the Virginia Historic Landmarks Commission.

The exhibit will focus on data and artifacts gathered from the excavation of eight shipwrecks from the Battle of Yorktown, 1781. Located near the waterfront excavation sites, the interpretive program will include slide presentations, lectures, demonstrations, and brochures illustrating eighteenth century life and the importance of preserving Virginia's maritime heritage through its archaeological resources.

Scholars from archaeology and history will be involved in the development of the exhibit and will serve as interpreters during June, July, and August.

(8) WBRA/WSVN-TV, Roanoke, has been awarded a \$4,750 grant to have a humanist in residence from April 2 to September 7, 1979.

During the period of his residence, the humanist, a philosopher from Ferrum College, will function as a staff member of the station, participating in its daily operation, and producing at least eight new programs using the analysis and perspective of the humanities.

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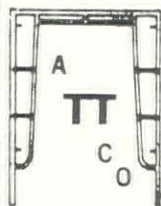
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cooperative networks of humanists and television station personnel. At the same time, the humanist will attempt to learn about the myriad problems facing television staff and management and discuss with them some of the value related issues in programming decisions.

(9) Since the American withdrawal from Vietnam in 1975, more than 150,000 Vietnamese have migrated to the United States. Approximately 10,000 have settled in Northern Virginia and another sizable enclave exists in Norfolk. The Vietnamese are going through what is, from an historical perspective, a uniquely American experience: the trauma of immigration, adaptation, and assimilation.

Humanities scholars from literature, cultural history, linguistics, and folklore will conduct research and write a script for a television program on the Vietnamese experience in Virginia with support from a \$2,410 grant to the George Mason University Foundation, Fairfax. A principal investigator and three consultants will study the cultural traditions that maintain ethnic identity and assess the extent and effect of the cultural exchange which is taking place in the Vietnamese community today.

The script which the group writes and a proposal for production will be submitted later to the Foundation for possible funding.

(10) On May 19, 1979 the Women's Commission and the Community Education Program, both of Falls Church, sponsored a day-long seminar at the Falls Church Community Center on women and work with funds provided by a \$1,300 grant.

The program focused philosophical and historical issues involved in the question of women and work and included an address on the history of the subject and workshops on alternative and non-traditional careers, the women's movement, and the impact of the family on women's work.

Scholars from history, education, and women's studies participated throughout the program. Each of the afternoon workshops was led by a scholar in the humanities and a representative from the Women's Commission.

(11) Old Dominion University, Norfolk, will conduct an all-day symposium devoted to the clarification of ethical issues associated with the use of computers in medicine, with funds provided by a \$4,500 grant.

Problems considered will include the confidentiality of medical records, the undermining of the bond between patient and physician, problems of assigning responsibility, questions of malpractice, dehumanization, fair distribution of expensive

medical procedures, and the problems inherent in a system so complicated that those who use it cannot fully understand it or prove it correct.

Although social, legal and clinical issues will be addressed, the focus will be the moral dimensions of the medical use of computers. Scholars from philosophy, medical ethics, jurisprudence, and sociology will deliver position papers on the topic and lead small group discussions following an afternoon demonstration of computerized diagnosis.

(12) Television and the family will be the subject of a conference to be held at the University of Richmond on October 26-27, 1979 with funds from a \$10,000 grant. The project leaders, Professors Robert Alley and Irby Brown, led two highly successful workshops on television and values in the fall of 1978.

The conference will attempt to discover how family programming is related to real family life in America by addressing itself to how family life has been portrayed in television from the '50s to the present, how this programming affected family life, and how this interaction was tied to social and political changes occurring at the time. The conference will consider such diverse problems as freedom and censorship, television and social message, the role of pressure groups, and the responsibility to society of the television networks, advertisers and creators.

Actors, producers, and television executives will be joined by scholars from literature, religious studies, psychology, and sociology.

(13) RRR Associates for Language Training will use a \$6,625 award to conduct an October 17-19, 1979, conference entitled "Dilemmas of Dyslexia." The interdisciplinary conference will bring together scholars in philosophy, history, anthropology, jurisprudence, religious studies, and education with medical specialists, legislators, and professionals in the field of learning disabilities to examine current assumptions and societal implications of our approach toward individuals who are dyslexic. A number of prominent experts in the field and scholars in the humanities will present position papers which will be followed by group discussions. The speakers'

presentations will be published and available for use by therapists, educators, and members of the lay public interested in the topic.

The Virginia Foundation for the Humanities and Public Policy is a self-governing, grant-making organization which supports humanities programs that address the needs and interests of the state's citizens, encouraging them to develop a critical understanding of their experience as it relates to their own and others' cultures. Since its founding in 1974, the VFHPP has awarded over \$1,233,926 to fund 246 programs throughout Virginia, and is currently inviting grant proposals from non-profit organizations, institutions, and citizens' groups within the state.

Workshops, conferences, seminars, forums, exhibits, and media presentations are among the activities eligible for support. Programs should address — from the perspective of the humanities — issues of immediate or enduring concern at the state or local level, or be designed to make the content of humanities studies available to the public beyond the confines of the traditional classroom.

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Trevillian Residence (From page 23)

possibility of future expansion in that area if desired. The guest wing could become a separate apartment in the distant future for visiting grandchildren. The family is thinking of future years when the house can easily accommodate more than its present occupants.

Outside, Mr. Trevillian wanted an attractive, low maintenance house. He specifically requested that the main roof should not be flat, but rather sloping and unusual. At the same time, he did not want inac-

cessible nooks and pockets where leaves and debris could collect. The opposing shed roofs with cutouts at various points proved to be the answer. In many cases, if a roof line is continued it will meet another extended roof line at some imaginary point.

The exterior wall material is Tidewater red cypress. Decks, the balcony and the porch are all made of cypress. Textured asphalt shingles cover the roof except for the entrance canopy, which is metal, and the flat roofs over the porch and covered walkways.

The sliding windows have a bronze color aluminum frame and insulating glass. The patios are concrete with exposed aggregate.

Interior finishes include painted gypsum board walls and ceilings, except in the den, and hardwood floors. The foyer and the solarium have slate floors. The bedrooms, except the guest room, are carpeted. The bathroom and kitchen floors are sheet vinyl. Most interior doors are raised panel, solid wood doors. Wall covering, by the owner, has been used in the bathrooms, dressing room, solarium, kitchen and breakfast room. Fireplace openings have been faced with stone.

The interior furnishings include many objects, both old and new, that reflect the family's special interest in sailing and traveling. The exterior cypress siding, according to Mr. Trevillian, creaks and groans with rising and falling temperatures, not unlike a ship at sail. The curved deck almost gives one a feeling of being on board a sailing vessel. The house itself has been described as a series of waves crashing against each other.

Mrs. Trevillian has been heard to say, "we wanted a unique contemporary house, a dramatic place to live, but not a crazy or radical house — and this place is perfect for us." Speaking as the architect, it was a privilege to work with a family whose needs and desires were so well expressed, but who left the designing to me.

Double C Corporation of Charlottesville was general contractor and handled carpentry, waterproofing & wall insulation.

Subcontractors & Suppliers

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Alvis Backhoe Service, excavating; Albemarle Construction Corp., rock removal; Pete Herring, paving contractor (patio) & stonework contractor; H. T. Ferron Co., concrete supplier; Andy Bourne, Troy, masonry contractor; Luck Quarries, Inc., stonework supplier; Associated Steel Products, Inc., miscellaneous metal; Lowe's of Charlottesville, structural wood; Better Living, Inc., structural wood & resilient tile; Phillips Building Supply, Inc., millwork; Mountain Lumber Co., paneling; Beaver's Cabinet Shop, Waynesboro, cabinets & specialties — built-in furniture; and Glass & Plastics, Inc., caulking.

Also, Coleman Floor Service, wood floor finishing; B & B Roofing, built-up roof & other roofing (asphalt shingles, Metal); Virginia Glass Co., Inc., glass & glazing contractor; Acorn Building Components, Detroit, MI, windows; Martin Hardware Co., hardware supplier; Frank E. Ware Plastering-Dry Wall Contractor, gypsum board contractor; Salem M. Eways, Inc., carpet; W. S. Sprouse, painting contractor (Dutch Boy paint); Noland Co., plumbing fixture supplier; Brunk Mechanical Corp., plumbing contractor; Ray Fisher & Ron Martin, Inc., heating/air conditioning/ventilating contractor; Piedmont Electric Supply Corp., lighting fixture supplier; C. R. Moore Well Drilling Co., well & water supply; and Wally Yeager, special wood doors at foyer.

Landscaping was handled by the owner; skylights by Kalwal Corp. and fireplaces by Heatilator.

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Avoid those piping hot foods, scalding tea and coffee and heavy liquor intake. They may cause changes in your mouth that could lead to cancer. Don't forget a regular dental checkup since it's easy for your dentist to spot oral cancer. When treated very early, oral cancer is usually curable, says the American Cancer Society.

Crenshaw Residence *(From page 17)*

The redwood siding was stained to match the prevalent color of the tree trunks, and the wood shakes blend the residence into the undisturbed woods. The lower level, which opens to the river side of the house onto a ground-level terrace further down the hill, is constructed of earth colored masonry walls.

The house is climate controlled by heat pumps, with provisions made for addition of solar assistance when more commercially feasible. Intercoms, piped music, built-in antennas, and fire and burglar alarm systems, are also incorporated within the budget limitations. Operable windows, and doors are insulated, and tinted bronze.

W. W. Browning Corporation of Richmond was general contractor.

Subcontractors & Suppliers (Richmond firms unless noted)

H. S. Osborne, excavating; Chesterfield Tree Service, sodding, seeding, etc.; Massey Concrete Corp., concrete supplier; James Allen, masonry contractor; General Shale Products, Inc., Johnson City, TN, masonry supplier; Bristol Steel & Iron Works, Inc., steel supplier; Chesterfield Roofing, Inc., roof deck & roofing; H. Beckstoffer's Sons, Inc., carpentry, millwork, wood doors & windows; R. A. Siewers Lumber, Inc., structural wood; and Richmond Primoid, Inc., waterproofing.

Also, Binswanger Glass Co., glass, Pleasants Hardware, hardware supplier; Eastern Paint Contractors, Inc., painting contractor; E. T. Long, Inc., specialties; Rob's Mechanical, Inc., plumbing contractor; Brooks Heat & Air Conditioning, Ashland, heating/ventilating/air conditioning contractor; and Cardinal Electric Co., Chesterfield, electrical contractor.

Our Lady of Good Council *(From page 33)*

Falls Church Construction Corporation, Falls Church, was general contractor and handled foundations, concrete work, carpentry, caulking, plastering and gypsum board work.

Subcontractors & Suppliers

John Driggs Co., Inc., Capitol Heights, MD, excavating; Newton Asphalt Co., Inc. of Va., Alexandria, paving contractor; Arlington Iron Works, Inc., Manassas, reinforcing, miscellaneous metal & handrails; Virginia Concrete Co., Springfield, concrete supplier; Al Maron, masonry supplier; Arlington Woodworking & Lumber Co., Inc., McLean, structural wood, millwork, paneling & wood doors; Deaver's Appliance Co., Inc., Annandale, cabinets; Prospect Industries, Inc., McLean, waterproofing; and R. D. Bean, Inc., Beltsville, MD, built-up roof, other roofing, roof insulation & sheet metal.

Also, Arlington Insulation Corp., Merrifield, wall insulation; Allen Glass Co., Inc., Alexandria, glass, glazing contractor & storefront; AAA Thermal Windows & Doors, Merrifield, metal doors & frames; James A. Cassidy Co., Inc., Beltsville, MD, windows & window wall; Fries, Beall & Sharp Co., Springfield, hardware supplier; Weller Tile, ceramic tile; Southern Floors & Acoustics, Inc., Merrifield, acoustical treatment & resilient tile; Nelson Moffett, painting contractor; C. I. Smith, Arlington, paint supplier; Fuller O'Brien, Arlington, paint manufacturer; Thomas Somerville Co., Washington, DC, plumbing fixture supplier; Stevens & Wren Plumbing & Heating Contractors, Inc., Fairfax, plumbing contractor; Springfield Sheetmetal, Inc., Fairfax, heating/ventilating/air conditioning contractor; and D. A. Hitt Electric, Merrifield, electrical contractor.

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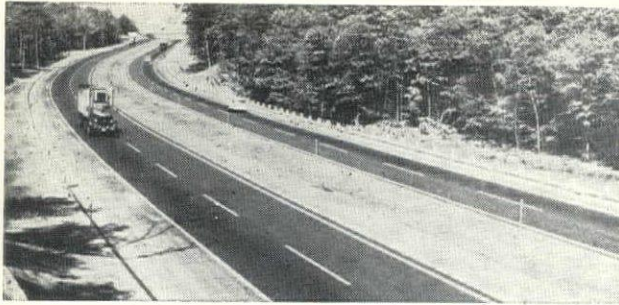
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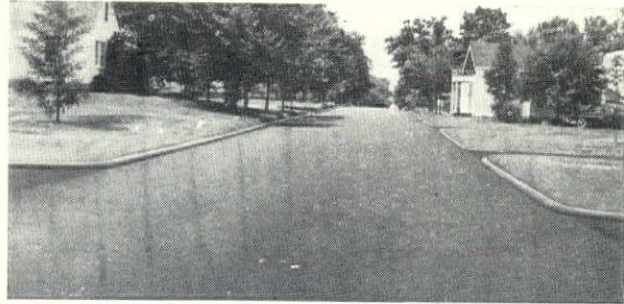


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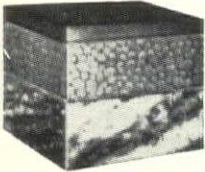
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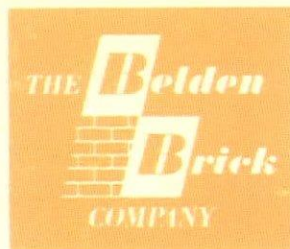
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