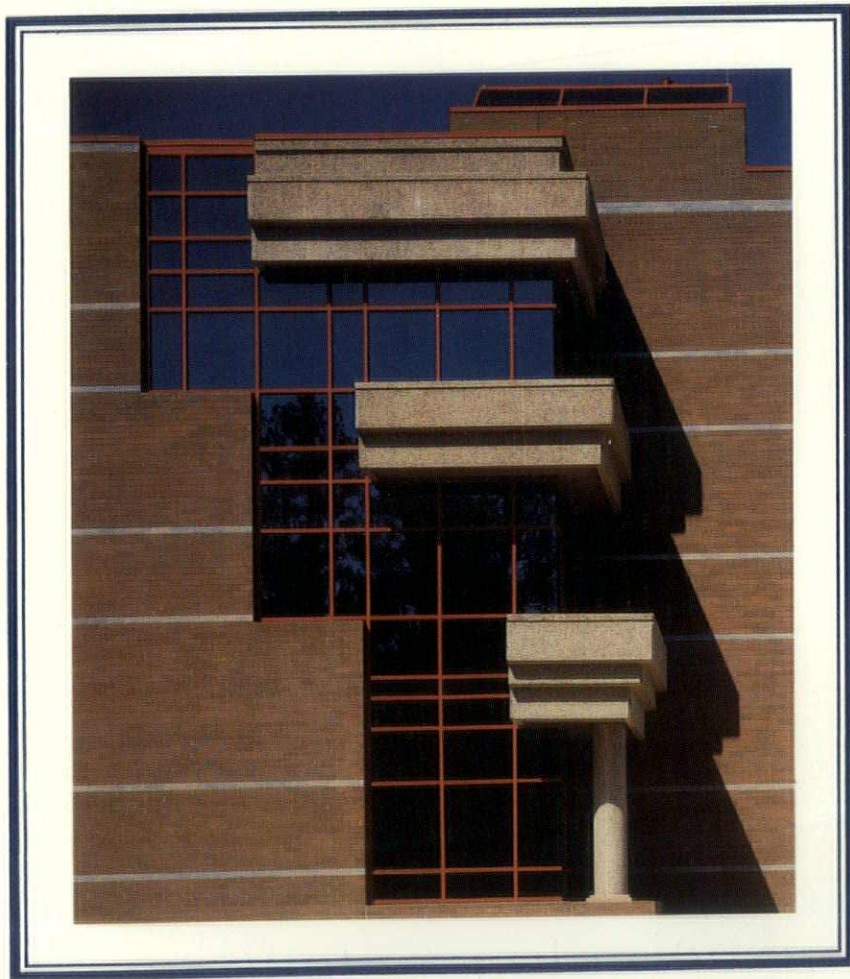


VIRGINIA RECORD

JOURNAL OF THE VIRGINIA SOCIETY OF THE AMERICAN INSTITUTE OF ARCHITECTS

OCT./NOV./DEC. 1987

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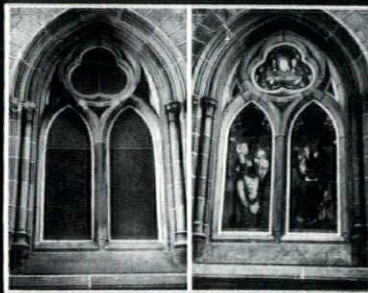
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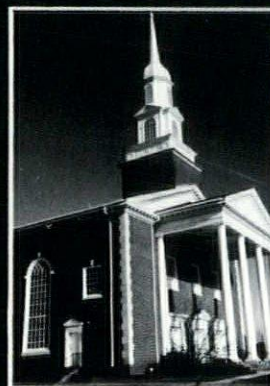
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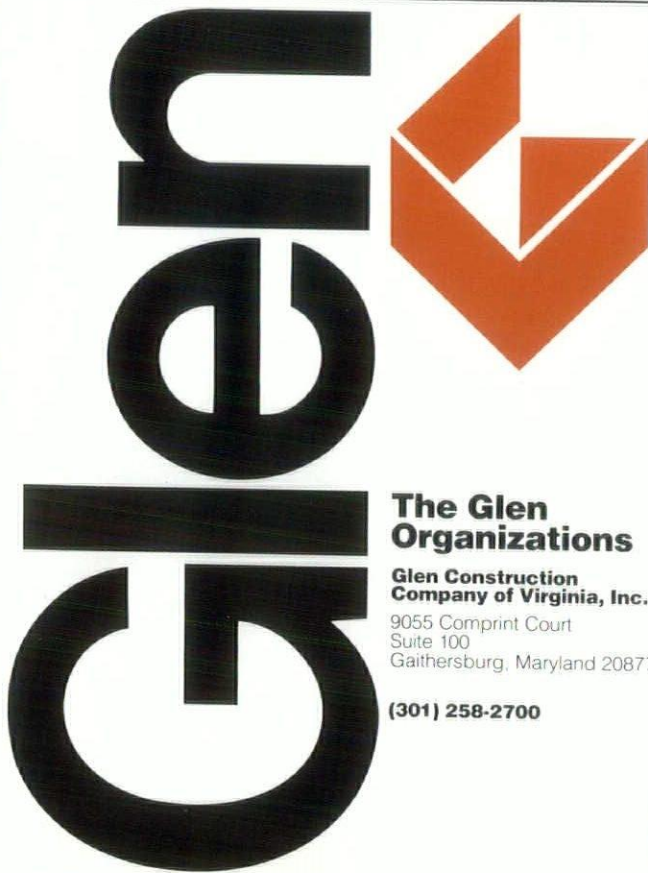
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A detail of the Virginia Power Innsbrook Technical Center is featured on this month's cover. Virginia Power Architectural Services presents the project starting on page 35 of this issue. (Cover photograph by Whitney Cox)



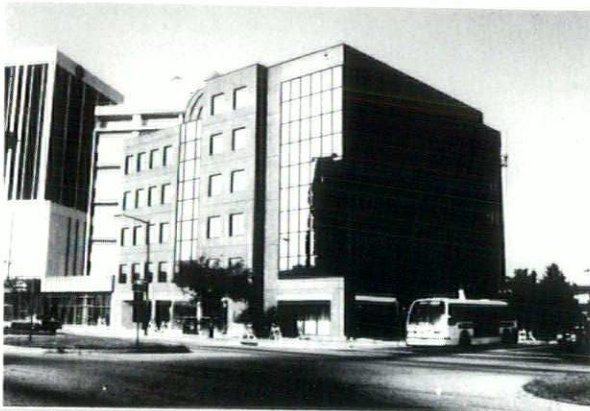
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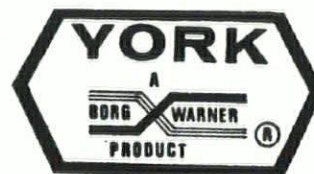
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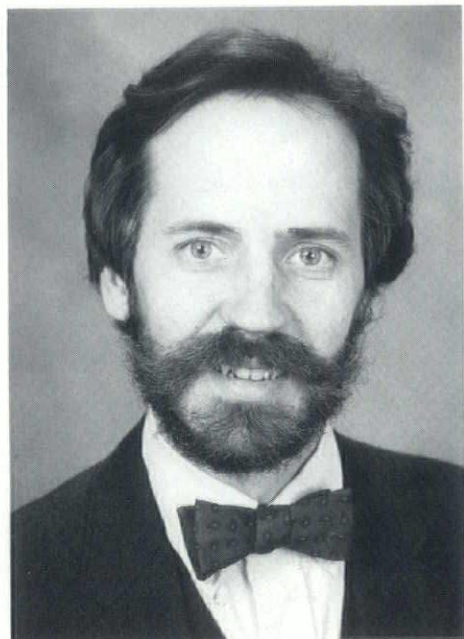
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PRESIDENT'S MESSAGE



Robert A. Boynton, AIA
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This is the last chance that I will have to speak to you through the *Virginia Record* magazine as President of the Virginia Society AIA. It has been my extreme pleasure and honor to have this platform in which to express my views on topics relating to the particular theme of each of the five architectural issues of the magazine this year.

The theme for this issue of the *Virginia Record* is Commercial and Industrial architecture and its impact on our profession and on the community in general. It is interesting to us all that the commercial field has been the recipient of the new tax laws and that there is now more money to spend on retail purchases, making the active versus passive income for developers more active in the commercial arena. This is a phenomenon that may carry forward for the next five years or until the tax laws are juggled again by the United States Congress. We are seeing expansions in the retail complexes which have given the economy and architects quite a wealth of potential commissions throughout the state and, indeed, throughout the nation. As mentioned in an earlier message, our profession is undergoing many changes due to the economy, and the challenges provided therefrom have been both beneficial and, in some cases, difficult relative to our prior normal practices.

The Virginia Society, in 1987, has attempted to reflect the changes and impacts pulsing at our profession to help our members to understand and adjust in this ever changing "practice" world. As many say, we have to stop practicing at some point and start doing. Hopefully the efforts of the Society will help us to continue to practice our profession while keeping up with the enormous changes affecting the "doing" world. The Board of Directors of the Virginia Society, with the help of our committee chairmen and numerous committee members, has been active in the fields of publications, meetings, practice, governmental affairs, historic architecture, and in as many other areas affecting our practice as can be imagined. I am enormously gratified that my year as the President of the Virginia Society has been successful in many of the areas mentioned above. The members of the Society have so many to thank for the successes attained thus far. We have quite a number of areas in need of expansion, and must become more proficient in addressing problems. I can assure you that the Society will continue to try and express the concerns and wishes of its membership, now and in the future.

Please let me take this opportunity to thank the editors of the *Virginia Record* for their encouragement in publishing the works of our members for so many years. The *Virginia Record* has placed before the general public of the State of Virginia architectural projects which have been of significant impact on the citizenry of Virginia. We sometimes forget how important our work is, for no matter where the public goes to worship, spend money, enjoy cultural events, and live, they do so in our buildings. This is sometimes forgotten in the day-to-day routine of our profession; however, it is never forgotten by those experiencing our structures.

Thanks again to the *Virginia Record* for allowing me to use this space throughout 1987 to express my feelings toward the profession of architecture and for allowing the Virginia Society to participate in so many of their issues.

Robert A. Boynton, AIA
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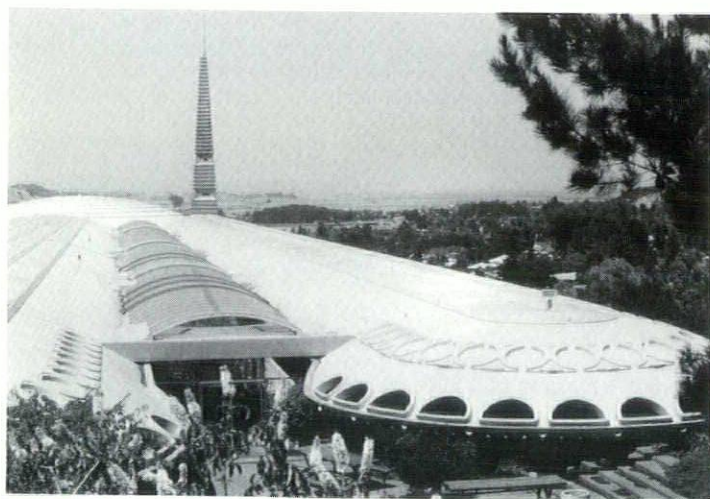
Eason Cross, Jr., FAIA

'Do-re-mi in the City'

Joseph Wilkes FAIA is the editor of an ambitious and potentially valuable "Encyclopedia of Architecture" to be published by Wiley and Son. He knows that I scribble here in the *Virginia Record* as well as practice architecture, so he asked me if I would write an article on "Scale in the Urban Environment."

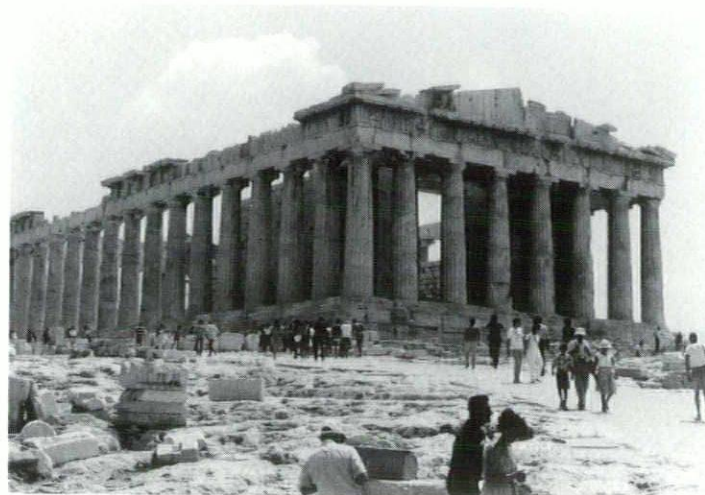
It's a lot harder to do than to agree to do!

So — there I was, deep in the process of focusing on the subject: cud-chewing; ruminating; looking at buildings and slides; being both critical and appreciative; developing insights; theorizing; waking at 4AM to the subject. It's a very helpful exercise for an architect to go through, and it will definitely affect the way I design in the future.



MARIN COUNTY

It leaked before Butyl sealants, and it cooked the occupants before air conditioning, but it's a great CIVIC CENTER.



THE PARTHENON

Every tourist's destination is still hard to beat for subtleties of scale and proportion.

The buildings I found most suitably scaled are those which can be considered from many vantage points in terms of time and space. They change as one gets closer to them. They have some new element to their exteriors which reads at each particular vantage point, from two miles out to two feet distant.

And their interiors carry the theme beyond the portals. These buildings display an architect's appreciation for detail, and for what detail does for scale, and what scale does for people.

Consider the Parthenon on the Athenian Acropolis. It is visible as a silhouette from miles away. From the base of the Acropolis, the Doric colonnades appear. From the propylaea, the size of the columns, their fluting, and the triglyphs and metopes show up. When one is alongside, the guttae and dentils vie for attention. Within the colonnade, the frieze causes one to pause and study the carvings. In the Fifth Century BC, Phidias' huge gilt and ivory statue of Athena dominated the dimly-lit interior and wowed the Greeks. After 2400 years of wind, war, weather,

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by Marvin J. Cantor, AIA

To Grow or Not to Grow . . .

With apologies to Shakespeare, "To grow or not to grow, that is the question" — Recently, Fairfax County faced a dilemma that is being confronted by rapidly growing areas throughout the country. The Board of Supervisors was asked whether or not building growth should be slowed down by "downzoning" property and/or requiring developers to contribute more towards the county's infrastructure if the developers wish to be allowed to develop a piece of property to its zoned maximum.

The Supervisors facing an increasingly restive electorate, fed up with interminable traffic jams and rising taxes, were tempted to say — slow down developers! We need more of your money for roads, sewers, public transportation and similar items or we're going to drastically reduce the size of your project. However, cooler heads prevailed, and the politically suggested choice of downzoning was rejected in favor of continuing the present zoning requirements and their implementation — but with a select committee formed to study the seemingly insolvable traffic problems.

What the general public seemed to be saying was that uncontrolled office and industrial building, even when permitted under present legal zoning regulations was leading toward a chaotic traffic situation that was literally tying the County into knots. What the real situation was, of course, was the planned zoning design made by "supposed" planning experts that never really took into account what peripheral services the county ought to provide for such zoned areas.

Certainly, to the novice planner, zoning an area for high density office development appeared exciting, even if the only roads serving the area in question were two-lane country roads with no sidewalks, etc. Where did the planners think such services would come from? Too late did they realize that if development took hold in an area, traffic problems would materialize as the existing road network choked!

As most observers agree, Fairfax County has a generally recognized superior school system, a high tax base from a generally well educated

populace, and is a magnet area for reputable concerns interested in establishing headquarters here, because of these features. But if it is perceived that the local government is becoming adversarial in its relationship to new development, which in turn translates to negative vibrations directed to new businesses and people moving in — then to no one's surprise, such activities will slow down — and the "trickle down" effect of less taxes, less public services, and deteriorating infrastructures will inexorably follow.

Developers do not create traffic problems — they answer market needs for living space, office, and industrial requirements. When the numbers of such people become overwhelming — then does the problem manifest itself, unless perceptive initial master planning has anticipated this and made appropriate plans for roads, walks, schools, etc. Stopping growth is self defeating and terminally destructive. But so is growth without proper master planning. So, to grow or not to grow, is not the question — there is no question. Grow we must — but with planning and common sense!

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Architects 'See the Light' at Conference in California

By Renee Basist

Renee Basist, a graduate student of the VPI & SU College of Architecture and Urban Studies, wrote this article on her return from an International Daylighting Conference, held in California last year.

Ms. Basist holds BA and MA degrees in education from the University of Florida and Marycrest College in Davenport, Iowa, respectively. She enrolled in the three-year master of architecture program at VPI & SU in 1984, after teaching math and special education for eight years. A member of the American Solar Energy Society and the Daylighting Network of North America, she is particularly interested in energy conservation in architecture and basic design.

the sun's gift of light and heat. Cheap energy allowed design without concern for energy use in buildings. However, the social, ecological, and economic awareness that surfaced during the 1960s and '70s (particularly the oil embargo of 1973) renewed interest in how buildings use or conserve natural resources.

While the number of situations in which active solar systems are cost effective are limited, passive solar systems (systems without mechanical equipment) are quite cost effective and easily applied to residential and small scale buildings. But for larger commercial buildings (internal heat load dominant buildings), daylighting seems to be the single largest factor, which, when appropriately applied, dramatically reduces energy consumption and at the same time creates a highly desirable human environment. Two major benefits of daylighting are the relatively low additional initial cost of the daylighting devices (as compared to active solar systems) and quick financial payback periods, making the building design more desirable to the cost-conscious client.

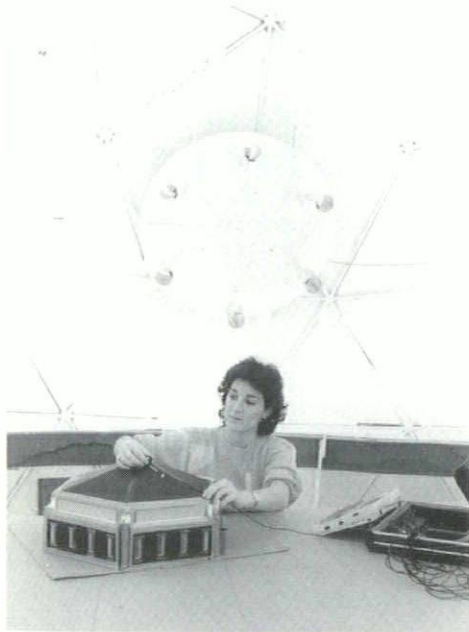
The principles on which this statement is based are rather simple:

1) Electricity costs are reduced by using natural light and turning off or dimming electric lights. Electric lighting often accounts for as much as 50% of the total utility bill for larger commercial buildings.

2) Cooling is the predominant thermal load of larger buildings (sometimes even in the winter in northern climates) due to internal heat gain. Natural light is more effective and also cooler than electric light, per unit of light produced. Hence, the use of daylighting can reduce the cooling load in these larger buildings. However,

The importance of daylighting in architecture was reaffirmed by speakers at the Second International Daylighting Conference, held in Long Beach, California, November 3-8, 1986. The event drew noted architects, educators, critics, electrical and mechanical engineers, lighting designers, and press representatives from around the world. The attendance of several hundred professionals demonstrated the current interest in daylighting.

Doug Kelbaugh (AIA, University of Washington), co-chairman of the conference, pointed out in his welcoming speech that the group in attendance was a direct outgrowth of the passive solar movement. As Kelbaugh noted, techniques of passive solar design and application are well in hand; the new frontier for the energy conscious designer is in the use of daylighting. Historically, daylighting is not a new idea. Prior to the Industrial Revolution, with the invention of electric lighting and cheap energy sources, buildings were designed to make the most efficient use of



Basist testing model with Fowlkes computer/photometer at Virginia Tech Daylighting Dome. Photo by: Dan Terrell.

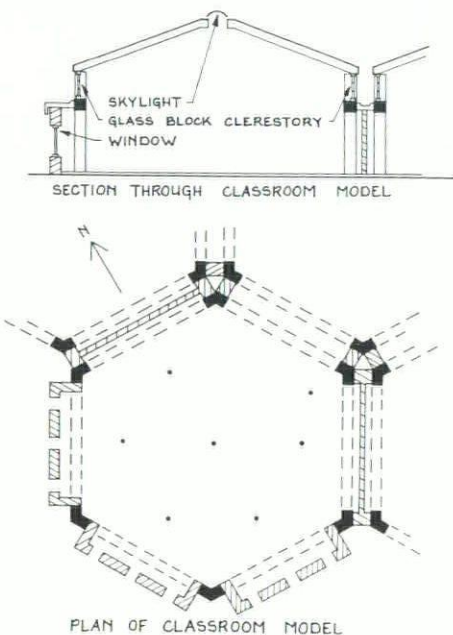
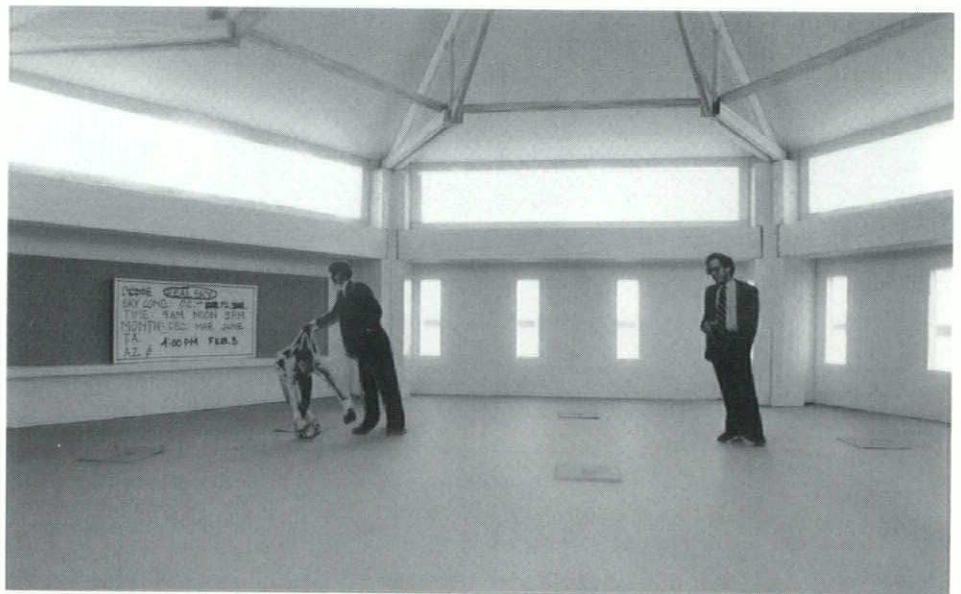
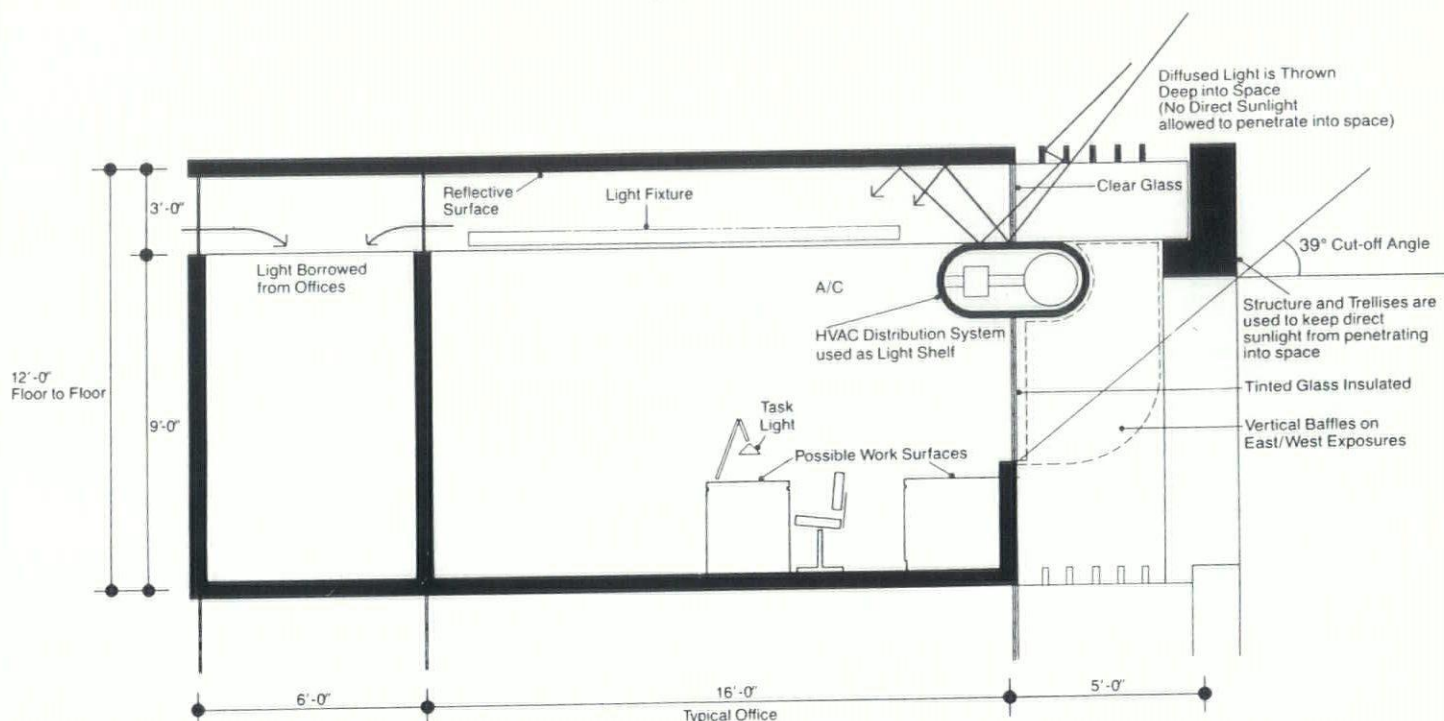


Diagram of typical classroom used in daylighting model study.



Interior of daylighting model being tested in Daylighting Dome at Virginia Tech. Photo by: Dan Terrell

Typical Cross Section Thru Office



Cross section through typical office for the Shell Oil Complex, design by CRS.
Daylighting Consultant: Benjamin Evans, FAIA, professor at Virginia Tech.

care must be taken to admit only the amount of daylight necessary to achieve the desired level of illumination and the appropriate thermal balance of the building.¹

3) A building that allows occupants to be in touch with the outside environment is desirable since such settings increase employee satisfaction and productivity.

Aside from thermal and economic implications, the aesthetics of a naturally-lit space are of utmost importance to the designer who is concerned about the quality of the space created and the effect of that space on the human spirit. Because daylight constantly changes throughout the day and throughout the year, a dynamic architecture can be achieved. The following quote

from Louis Kahn is a reminder of the importance of natural light in the built environment. "The sun never knew how great it is until it struck the side of a building."²

A word of caution in the application of daylighting: Care must be taken to appropriately admit daylight into the building. Glare, excessive brightness ratio (contrast), and other undesirable conditions may occur when inappropriate lighting techniques, either natural or electric, are used. The following books will be useful before attempting to incorporate these features into building design: *Daylight in Architecture* by Benjamin H. Evans, FAIA; *Concepts and Practice of Architectural Daylighting* by Fuller Moore; *Sunlighting as Formgiver for Architecture* by William Lam; and *Daylighting: Design and Analysis* by Claude Robbins.

Virginia Tech houses one of three daylighting domes (artificial sky) in the western hemisphere and makes the facility available to architects and designers who want to examine the daylighting features of their designs. As a graduate student in architecture, I have used the dome to investigate the effects of daylighting on my projects and have found the information obtained to be invaluable. For more information on using the dome at Virginia Tech, contact Benjamin Evans at (703) 961-5591.

¹ Caudill Rowlett Scott, Inc., Architects Planners Engineers, Houston, Texas.

² *Light is the Theme* by Louis Kahn.

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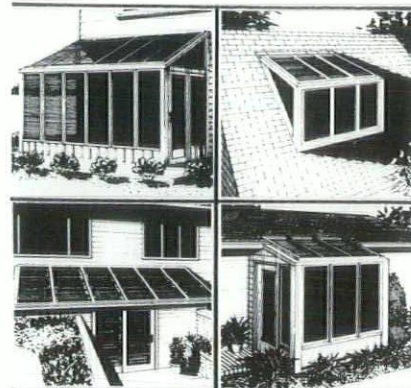
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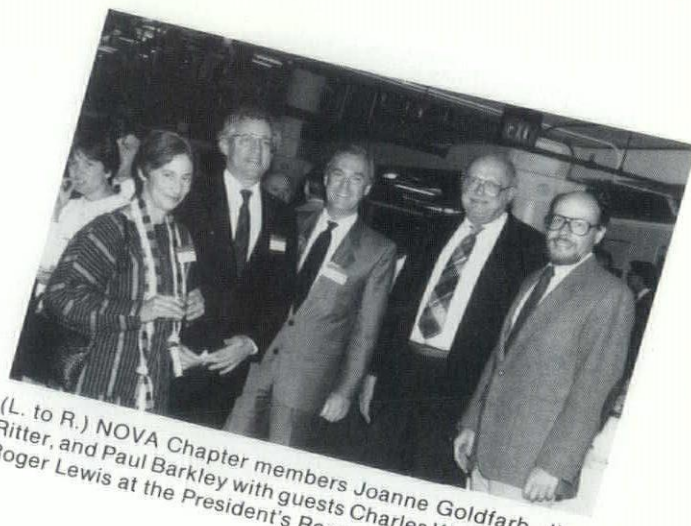
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Convention chair Joanne Goldfarb (NOVA) confers with keynote speaker Charles W. Moore, FAIA.

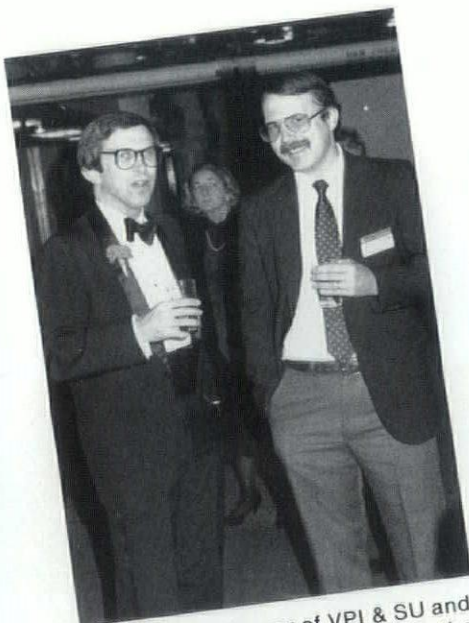


(L. to R.) NOVA Chapter members Joanne Goldfarb, Jim Ritter, and Paul Barkley with guests Charles W. Moore and Roger Lewis at the President's Reception.

Highlights of
The Virginia Society
of the American Institute of Architects
annual convention
October 16-17, 1987
at The Hyatt Regency Crystal City
Arlington, Virginia

CRYSTAL CITY: CRYSTAL BALL

Photography by
Stephen W. Small



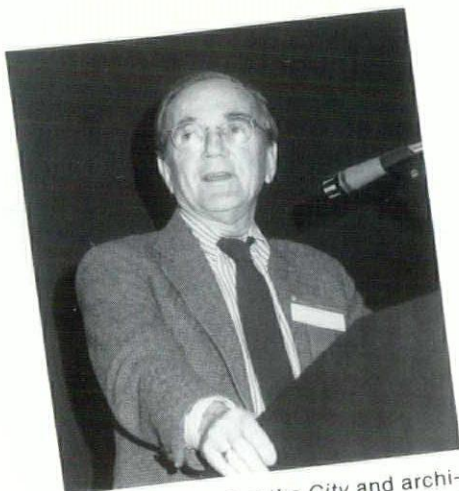
Dean Charles Steger of VPI & SU and Prof. Jack Davis, chairman of the VSAIA Energy Committee, at the President's Reception.



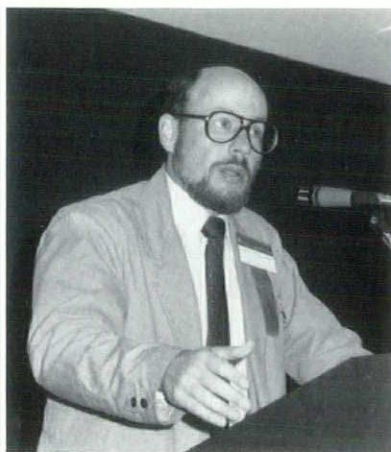
This Torpedo Factory "resident" viewed the reception from a different perspective.



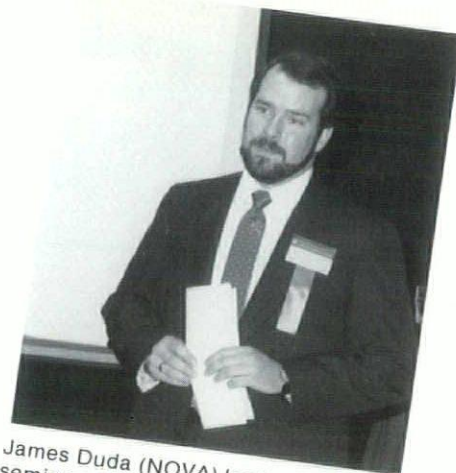
Thomas Kamstra speaks on behalf of the Virginia Foundation for Architecture which was honored at the President's Reception.



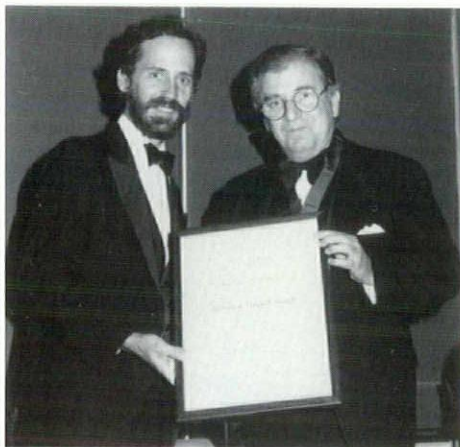
Author of *Shaping the City* and architecture teacher Roger Lewis explores new roles and directions for architecture in his seminar.



Wolf Von Eckardt presents some real and very exciting challenges to the architectural profession in his look into the Crystal Ball.



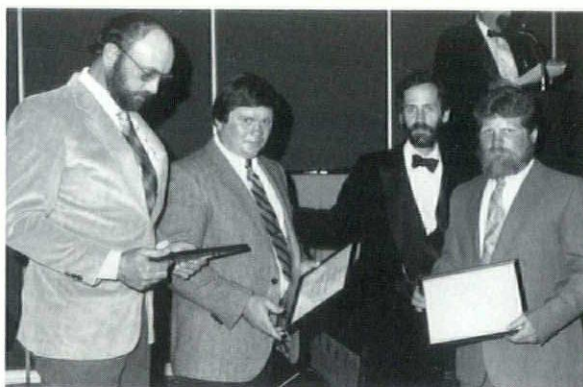
James Duda (NOVA) leads one of two seminars into the hi-tech realms of computer-aided design and production.



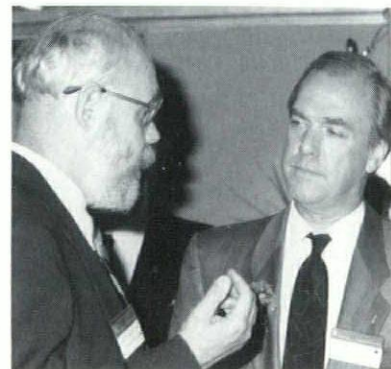
Robert A. Boynton, President of VSAIA, presents Frederic H. Cox, FAIA, with the coveted Noland Award. Mr. Cox was recognized for his professional achievement as well as his service to architecture in civic leadership.



David P. Reynolds of Reynolds Metals Company accepts the Architectural Medal for Virginia Service. He was cited for his innovations in the aluminum industry, his achievement in urban renewal, and his active service to architecture.



Melvin Burton, David Janovich, and C. Edward Clark were recipients of the Craftsmanship Award for masonry. Also recognized with craftsmanship honors were the Owen Pattern Foundry of Norfolk, the Blue Ridge Timber Frame Company of Christiansburg, and Gaston & Wyatt of Charlottesville for millwork.



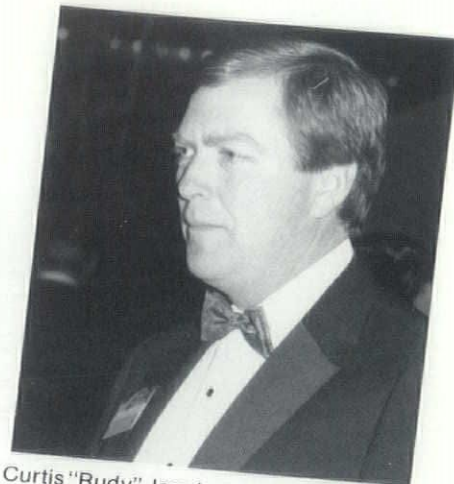
Paul Barkley, AIA Regional Director from the Virginias, speaks with Francis Guffey, one of several West Virginians at the convention.



Eason Cross, FAIA, a recipient of a Distinguished Service Award for 1987, chats at the reception before the Noland Night Dinner.



William F. Vosbeck and R. Randall Vosbeck, principals in VVKR accept the T. David Fitz-Gibbon Firm Award. VVKR is the first recipient of this biennial award to recognize firms which have produced consistently distinguished architecture for a period of at least ten years.



Curtis "Rudy" Jennings as VSAIA President-elect greets the Noland Night Dinner guests.



Joe R. Taylor and Lawrence Cook of Lawrence Cook Associates accept from Robert A. Boynton and Jack Davis one of the firm's four 1987 Energy Design Awards given in the recent competition.



John Spencer, Chairman of the Department of Architecture at Hampton University; Leonard Currie of Blacksburg; and 1987 Noland Award winner Frederic Cox converse at the President's Reception.



Richard L. Ford, Jr. was presented a delayed certificate as Past President. He was president in 1985.



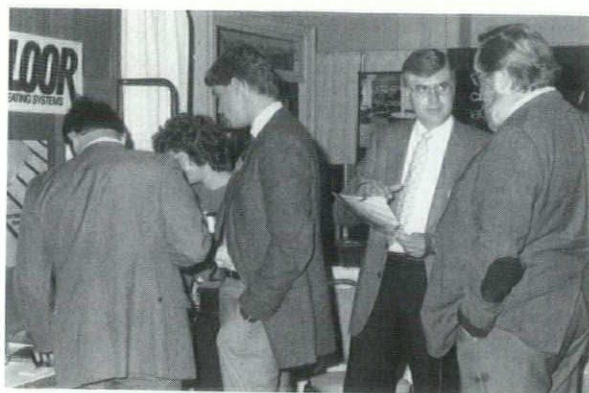
Herschel Elarth, FAIA, accepts a Distinguished Service Award from President Boynton.



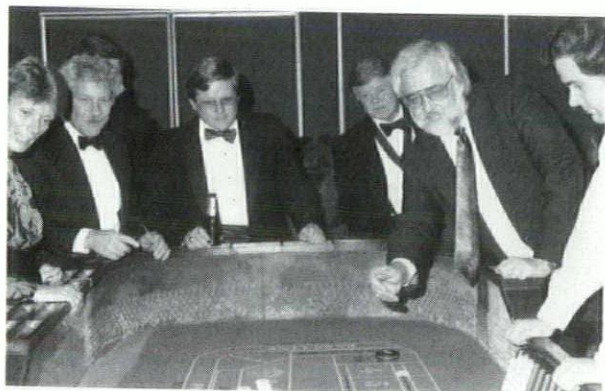
William C. Monroe, 1986 VSAIA president, accepts the Past President Certificate from Robert A. Boynton, who was the recipient of a Distinguished Service Award for 1987.



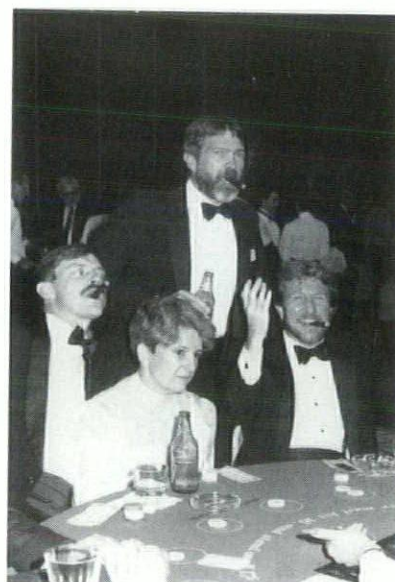
Chapter presidents Cameron Wolfe (BRC), Jim Hening (JRC), and Jim Ritter (NOVA) seek consensus as judges of the best exhibition booth in the show. The winner was Beyond Exhibits of Newport News.



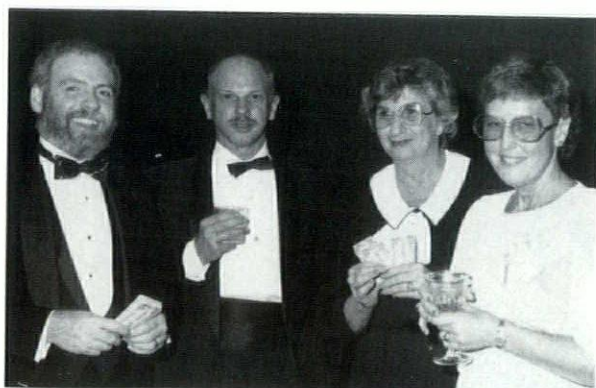
Conventioners explore known and unknown products among the seventy-five exhibit booths.



Many are unwilling to let the chips fall where they may at the Casino Night Party.



Others tried Lady Luck in the smoky atmosphere of a blackjack table. (L. to R.) Lawson and Suzanne Drinkard, Dick Ford, and Bob Magoon.



The Virginia Society staff pauses together at the Noland Night reception. (L. to R.) John Braymer, Jerry Morton, Helen Cougill, and Mary Rider.

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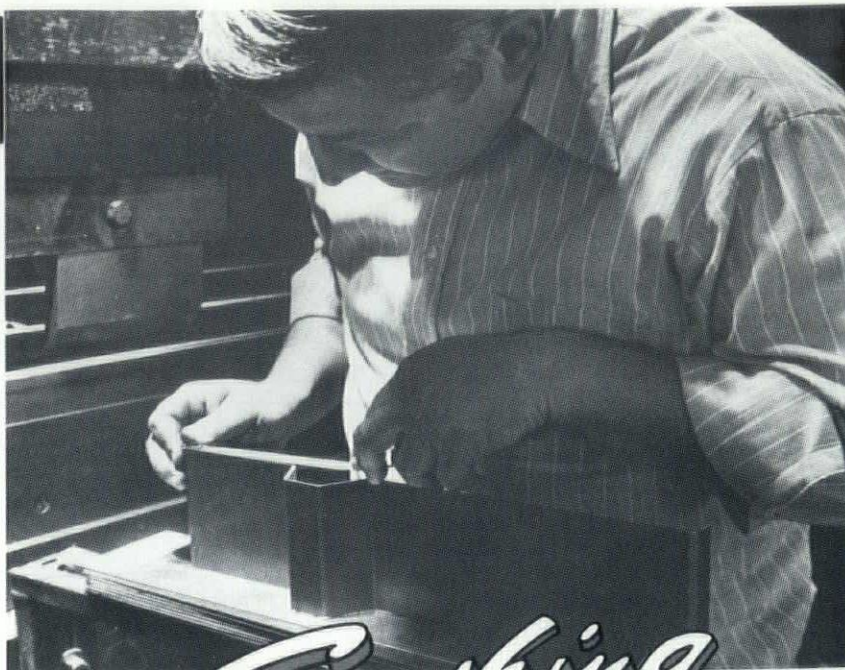
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VIRGINIA SOCIETY AIA NEWS

AWARDS AND RECOGNITION

Marcellus Wright, Jr., FAIA is Named VAP's 'Professional of the Year'

Marcellus Wright, Jr.—a Fellow of the American Institute of Architects since 1956 and an active Richmond architect for more than 50 years—has been recognized as Professional of the Year by the Virginia Association of Professions.

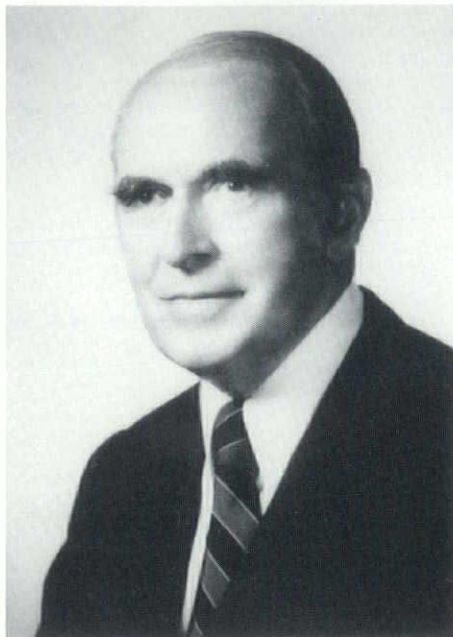
A former chairman of the Richmond City Planning Commission, Wright has been active in a wide variety of both professional and civic activities.

In making the award presentation, William W. Moseley, president of VAP, cited Wright's professional impact on his community and state as well as his civic contributions.

Wright is a native of Richmond and received both Bachelor's and Master's degrees from the University of Pennsylvania. He began his architectural career as a draftsman in his father's office in 1930.

His activities include: past chairman and president of the Central Richmond Association; past chairman of the American Hospital Association; member of the advisory board, Association for the Preservation of Virginia Antiquities; and past chairman of both the Urban Design Committee and the Richmond Regional Planning Commission.

Past recipients of the VAP's Professional of the Year award include: Governor Gerald L. Baliles.



Marcellus Wright, Jr., FAIA

Judge D. Dortch Warriner, Judge Kermit V. Rook, Gilbert L. Faison, William A. Moncure, Robert Williams, and Robert P. Buford.

Richmond Firm Gets National Recognition For Interiors

The American Society of Interior Designers (ASID) conferred top honors in the adaptive use category to Susan B. Smith, ASID, Marcellus Wright Cox & Smith Architects, P.C., Richmond. This national recognition was made for the 1984 design of the Anne Gary Pannell Center, Sweet Briar College (see *Virginia Record*, November/December 1985). Jurors selected the project for its "great restraint and respect for architecture" and its "classic serenity." The Pannell Center was converted to an art center from a former refectory building constructed in the 1920s.

Six projects from over 200 submissions were chosen by the ASID as recipients of the 1987 Interior Design Project Awards, during "Pursuit of Perfection," the Society's national conference held in Canada in July.

"The winning projects truly reflect the theme of the conference. The project designers have successfully met the needs of today's demanding design market," says H. Gerard Ebert, ASID, Awards Committee Chairman. Other members of the 1987 Project Award jury included Len Carlin, editor/co-publisher *CONTRACT*, New York; Deanna Deeherney, ASID, National Design Service, Woodbridge, Conn.; and Bebe Winkler, Bebe Winkler Interior Design, New York.

3rd Annual Fairfax County Exceptional Design Awards

The design jury of the 3rd Annual Fairfax County Exceptional Design Awards program recently selected six entries for their exceptional architectural and site designs. Davis and Carter, P.C. was the top winner for Fair Lakes One, in Fairfax. Their winning project is featured in this issue of *Virginia Record*. In addition, five Merit Awards were given.

The awards are given annually to projects which promote the County's commitment to the pursuit of exceptional design in new developments, and which encourage other design professionals, builders and developers to strive to meet the County's goal of high quality image in its living and working environments. This year's winners were:

HONOR AWARD:

- *Fair Lakes One* (Commercial, Office) Fairfax. Davis and Carter, P.C.

MERIT AWARDS:

- *The McLean Bank*, Herndon Branch (Commercial, Office) Herndon. Robert Wilson Mobley, AIA
- *Campus Point* (Industrial, Research and Development Office) Reston. Davis and Carter, P.C.
- *Pohick Regional Library* (Institutional) Burke. Cross and Adreon, Architects.
- *Fairfax Yacht Club* (Recreational) Lorton. Karl E. Kohler Associates, Architects
- *The Hutchinson House-Lafayette Business Center* (Historical/Adaptive Re-use) Chantilly. Adena Landry Patterson

All of the above, except the last listed project, were by members of the Northern Virginia Chapter, VSAIA.



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CONSTRUCTION NEWS

Freeman & Morgan to Design Mixed-Use Office Park

Freeman & Morgan Architects of Richmond has been commissioned to design The Summit, a mixed-use highend office park in Chesterfield County. Norfolk based Goodman, Segar, Hogan are the developers and a new entity in the Richmond office market. Their first project in Richmond, also designed by Freeman & Morgan, was the Parkside Marketplace across from the Innsbrook Corporate Center in Richmond's West End.

The site is a 110 acre tract on Hull Street Road along the fast growing corridor between the intersection of Chippenham Parkway at Route 360 and Brandermill. The planned mix for the project will include a 250,000 square foot shopping center to be called The Summit Marketplace, 400,000 square feet of office/service facilities and 500,000 square feet of Class A office space.

The first phase of construction will include 28 acres of development for the shopping center and approximately 100,000 square feet of office/warehouse space.

Freeman & Morgan has hired Smallwood, Reynolds, Stewart, Stewart & Associates of Atlanta to design the master plan and provide landscape design for the entire 110 acres. The master plan has been developed to conform with the requirements of Chesterfield County's new "Major Arterial Overlay District" Land Planning Study. This study is intended to provide a high degree of quality of development along major highways in Chesterfield County, incorporating building design, landscaping, setbacks and traffic planning.

Construction is expected to begin during the Spring of 1988, with a total buildout within three to five years.

Talbot & Associates Works for Navy in Caribbean, Completes Local Project

Talbot & Associates, Ltd. has been retained by the Atlantic Division, Naval Facilities Engineering Command, for three projects located in the Caribbean. Two of the contracts are for design projects and the other is for land and facilities planning services.

Design of a new enlisted dining facility, a medical clinic, and the upgrading of the salt water distribution system for the U.S. Naval Support Facility Antigua, West Indies, is underway. The other design contract, also in Antigua, includes the design of a boat shop, public works maintenance shop, and a berthing pier.

Talbot's land and facilities planning expertise is also being used by the Navy at the U.S. Naval Station, Guantanamo Bay, Cuba.

Glave is Architect for Linden Row Restoration

Work has commenced on turning Richmond's 140-year-old Linden Row, the finest existing row of Greek Revival townhouses in the country, into a 73-room 19th century inn. Opening is scheduled for the spring of 1988.

When work is complete, the center-city Registered Historic Landmark will exemplify its original 1847-1853 appearance, inside and out.

"Guests at Linden Row will enjoy a feeling of what Richmond looked like just before the Civil War," said William Gilbert, president of Great Inns of America which will operate the inn. "We are delighted to have this opportunity to help bring this significant, historic group of buildings back to life."

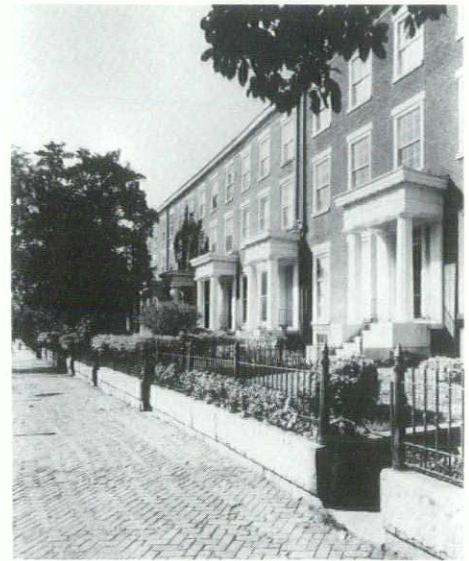
Great Inns of America, based in Annapolis, Md., is co-developer with Southeastern Historic Properties, Inc., Winston-Salem, N.C.

James M. Glave, a Southeastern partner and a principal in the well-known Richmond firm of Glave Newman Anderson, is the architect for the renovation and interior design.

General contractor is John W. Daniel & Co., Inc. of Danville, Va.

Original, museum-quality chandeliers have been saved and are being restored. Wallpaper, paint and carpet will be of the mid-19th century period, and a large stock of antiques has been gathered to enhance the inn's 19th-century ambiance.

William G. Smith, president of Southeastern Historic Properties, said "one of the key ingredients to the success of Linden Row is the support of the Historic Richmond Foundation. Their vision and continuous support as a partner in this historic project has provided impetus to make the Linden Row inn a reality. It will become 'a Grand Inn,' a refreshing expression of the hospitality that is Richmond's heritage."



LINDEN ROW

Great Inns of America is regarded as perhaps the nation's finest team of development, management, and operations specialists for small hotels and country inns. Southeastern Historic Properties has specialized in renovation of certified historic buildings, including Winston-Salem's 1837 Brookstown Mill which today includes the 52-room Brookstown Inn in Old Salem.

Linden Row was acquired a generation ago by the late Mary Wingfield Scott, Richmond's pioneering preservationist, who presented the group of buildings to the Historic Richmond Foundation in 1979. Historic Richmond Foundation agreed to sell the properties for use as a small inn, not only because such use was acceptable, but because it was particularly suitable to the preservation of the buildings.



CONSTRUCTION COMPLETE ON DIAMOND SPRINGS SHOPPES

Construction is complete on the \$1.3 million, 20,000 square-foot Diamond Springs shopping center, designed by Talbot & Associates, Ltd. for Robert Brown & Associates, Inc.

The shoppes are located near the intersection of Diamond Springs Road and Northampton Boule-

vard in Virginia Beach. Creech Development Company was the contractor. Tenants include 7-11, Bon Air Cleaners, Allstate Insurance, Snappy Car Rental, and Designer Stylists.

Talbot & Associates, Ltd. is an architectural, engineering, surveying, land and facilities planning, and landscape architecture firm located in Virginia Beach and Newport News.

PERSONNEL AND OFFICE ACTIVITIES



M. S. Perrot

Beach Firm Opens Richmond Office

I.V. Harris and Associates, Inc., a Virginia Beach based architectural firm, has announced the opening of a Richmond office, located at 2510 Grenoble Road and headed by Melvin S. Perrot, Vice President.

Mr. Perrot has been employed by a Richmond architectural firm for the past 17 years. He attended Virginia Commonwealth University and is currently continuing his education at J. Sargeant Reynolds Community College in the Business Administration Program.

Mr. Perrot is an Associate Member of the American Institute of Architects and a member of the West Richmond Rotary Club.



L. J. Doyle, AIA

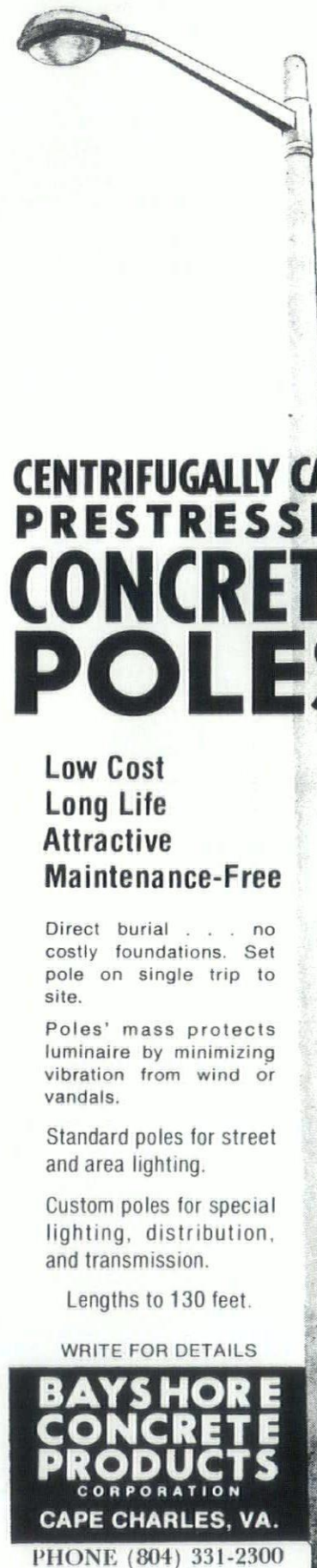
Doyle Establishes New Roanoke Firm

Larry J. Doyle, AIA of Roanoke has announced the formation of a new architectural firm under the name of Doyle & Associates, P.C. The firm is currently involved in the planning and design of several commercial, healthcare and fine residential projects in Roanoke and Southwest Virginia.

Mr. Doyle, a Martinsville native, holds a Bachelor's degree from VPI & SU School of Architecture. Prior to the formation of the new firm, he was an associate and project manager with the Roanoke architectural and engineering firm of Sherertz, Franklin, Crawford, Shaffner for 10 years. He specialized in medical and healthcare projects and was project manager for numerous renovations and additions to Roanoke Memorial Hospitals, The Cancer Center of Southwest Virginia, several other Virginia healthcare providers, the Roanoke Athletic Club and St. Elias Maronite Catholic Church in Roanoke.

He is an active member in the Blue Ridge Chapter of the American Institute of Architects. His community involvements include the Downtown Kiwanis Club of Roanoke and the Boy Scouts of America.

The primary goal of the new firm is to provide the highest quality, personalized, architectural service in a timely and economical manner, while maintaining design excellence.



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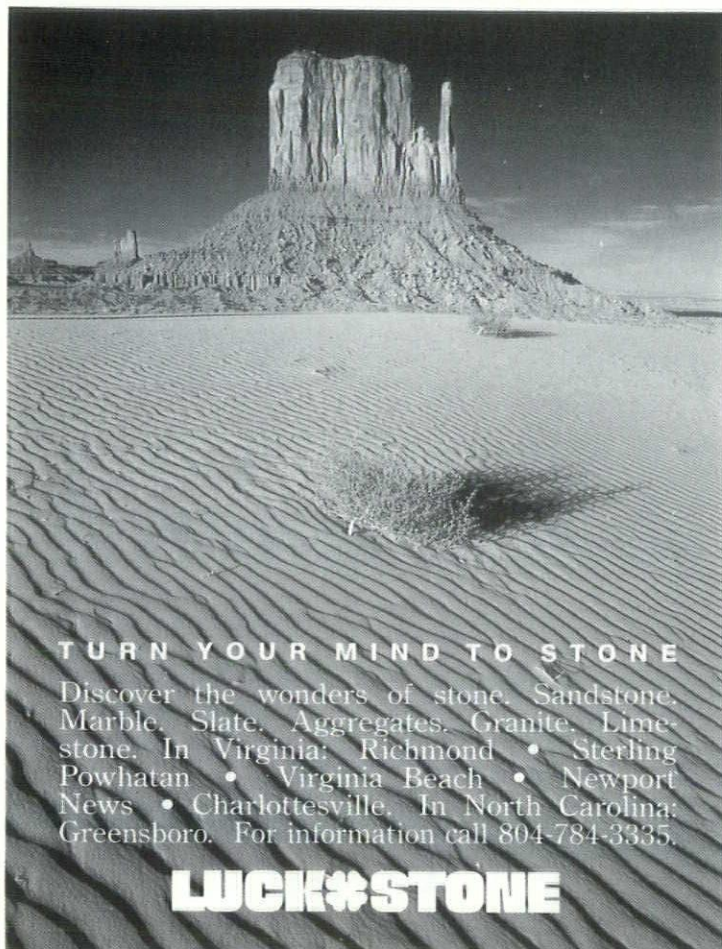
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Dills Ainscough Duff Names Two Principals And Associate

Dills Ainscough Duff, Architects, Planners, Interior Designers, of Virginia Beach announced in August that Pedro T. Escario and Howard J. Collins, AIA have been named principals in the firm. The firm also named Michael V. Padden, AIA an associate.

PRINCIPALS

Pedro T. Escario is a graduate of the Cebu Institute of Technology in the Philippines. He joined the firm in 1984 as a design architect. His experience includes a variety of projects including medical facilities, office buildings, retail centers and residential projects.

McIntyre Now With Maguire Group, Inc.

Byron G. McIntyre, AIA, has joined the Maguire Group Inc., an international architectural/engineering/planning firm, as Director of Special Projects, according to company President Vincent M. Cangiano.

Previously, he was Vice President and Office Director of HTB, Inc., architects, engineers, planners of Washington, DC, and he was formerly Vice President-Hotel Technical Services for the Marriott Corporation in Washington, DC, where he managed a 150-person professional design staff and outside consultants that worked on the firm's hotel design and construction activities.

Earlier, he held several technical and management positions including Vice President-Architecture during his 21 years at a major architectural, engineering, planning firm in the southeastern United States. During this time, he managed a number of major architectural projects including extensive multidisciplinary projects in the aviation and health-care fields.

He received a Bachelor of Architecture from the University of Florida with high honors and graduated from the U.S. Navy Civil Engineer Corps School in Port Hueneme, CA. He is a registered architect and holds a certificate from the National Council of Architectural Registration Boards.

Howard J. Collins, AIA joined the firm in 1983 as an architect. Mr. Collins is a graduate of the New York Institute of Technology. Howard's experience includes a variety of projects such as educational facilities, office buildings, residential and industrial facilities in various locations throughout the United States as well as Bermuda, Puerto Rico, Iceland and Canada.

ASSOCIATE

Michael V. Padden, AIA has been named an associate in the firm. Mr. Padden is a graduate of Hampton University. His experience includes the design of nursing homes, office buildings, residential buildings, retail centers and institutional projects located in the southeastern United States and various locations throughout Europe.



Byron G. McIntyre, AIA

Mr. McIntyre is past president of the Jacksonville Chapter of the American Institute of Architects; former director of the Florida Association of Architects; a member of the American Society of Military Engineers, Professional Service Management Association, and American Management Association; and a corporate member of the DC Chapter of the American Institute of Architects.

Maguire Group Inc. is currently ranked among the top architectural/engineering/planning firms in the country by *Engineering News-Record*. The firm has offices in Providence, RI; Washington, DC; New Britain, CT; and other major cities throughout the country.

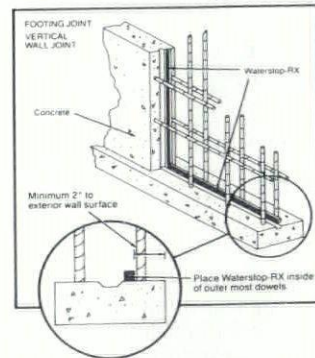
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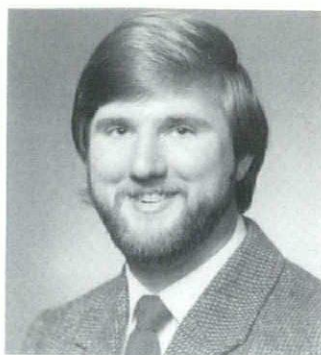
Three Architectural Staff Additions at Waller, Todd, Sadler

The Virginia Beach based firm of Waller, Todd, and Sadler, Architects, Inc. is pleased to announce the addition of three members to its architectural staff.

Michael L. Johnson is a native of Reading, Pennsylvania and received his Bachelor of Architecture in 1977 from Virginia Polytechnic Institute and State University. Mike joins Waller, Todd and Sadler with 10 years experience in Pennsylvania architectural firms.

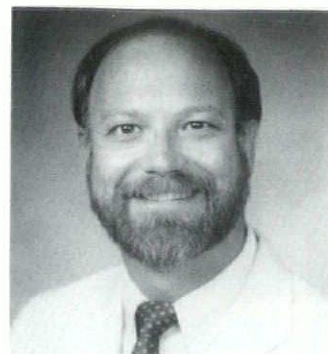
Lisa M. Tucker joins the firm as an intern architect. A Virginia Beach native, Lisa graduated from the University of Virginia in 1986 with a Bachelor of Science in Architecture. She is involved in CAD operations, interior design and space planning efforts, and is an associate member of the American Institute of Architects.

John W. Trueblood was formerly with Krummel and Jackson Architects. A project manager, John



J. W. Trueblood

is a native of Annapolis, Maryland and received his Bachelor of Architecture in August 1984 from Ball State University in Muncie, Indiana. He is currently managing several DOD projects and is an associate member of the American Institute of Architects.



W. R. Rash, Jr. AIA

W. R. Rash Merges with DJG

William R. Rash, Jr., AIA, has merged with the DeYoung-Johnson Group, Inc. of Williamsburg, and will serve as Architectural Project Coordinator. DJG, Inc. is a 35-person Engineering/Architectural firm which provides Structural and Civil Engineering, Architecture, Commercial Interior Design and Space Planning, Land Use Planning, Land Surveying and Construction Administration.

Mr. Rash formerly had his own architectural practice in Hampton. He is a 1972 graduate of Virginia Polytechnic Institute and State University and is a registered Architect in the State of Virginia. He is a member of the American Institute of Architects and several local civic and business organizations. Mr. Rash brings considerable experience in Department of Defense projects as well as commercial, residential, renovation, and space planning design to the firm, adding to their architectural depth and expertise.

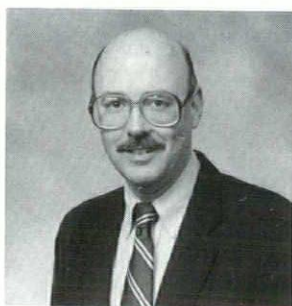
Project Manager and Landscape Architect Join Sherertz, Franklin, Crawford, Shaffner

Sherertz, Franklin, Crawford, Shaffner, a Roanoke based firm, has announced two staff additions. James H. Bohannon, AIA, and Dale Gaff recently joined the firm.

BOHANNON

Mr. Bohannon joined SFCS as a Project Manager. As a member of the Health Care Design Group within SFCS, he will manage hospital and health care related projects.

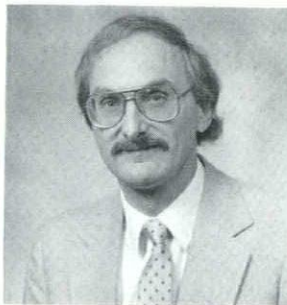
Bohannon was formerly with Rabun, Hatch, Portman, McWhorter, Architects of Atlanta, GA. An award-winning designer, he served as designer, architect and manager on such notable projects as the Hotel Inter-Continental Hilton Head, Hilton Head, SC, and as designer and architect on the IBM information products division manufacturing and development facility in Charlotte, NC.



James H. Bohannon

GAFF

Mr. Gaff also recently joined SFCS, as a landscape architect and site planner. In this capacity, he will conduct site analysis, zone reviews, programming, concept designs, grading designs, storm system designs, and planting designs.



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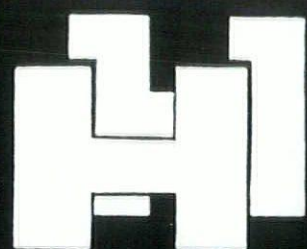
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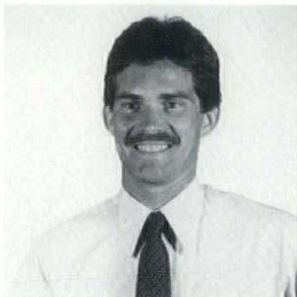
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W. C. Lebo, III



W. M. Smith

Lebo and Smith Added to Walsh/Ashe Staff

Walsh/Ashe Associates, Inc., a Virginia Beach based architectural, planning and interior design firm, is pleased to announce that William C. Lebo, III and W. Macklin Smith have joined our firm as Architect-in-Training Project Managers. Both Mr. Lebo and Mr. Smith received a Bachelor of Science in Architecture from the University of Virginia.

Mr. Lebo was formerly an Architect-in-Training Project Manager with Architectural Ventures of Virginia, Inc., P.C. and Mr. Smith was formerly an Architect-in-Training Project Manager with I. V. Harris & Associates, Inc.



Ms. Mellar Joins Magoon/Guernsey

Magoon/Guernsey Architects located in Williamsburg, has announced that Faith K. Mellar, ASID, has joined the firm to head the Interior Design Division.

Formerly the Principal of FKM Design, Ms. Mellar will be responsible for new business development in the field of Interior Design for the firm.

A graduate of Ringling School of Art, Sarasota, Florida, Ms. Mellars' extensive background in program development, space planning and the design and coordination of finishes, furnishings and equipment for a variety of commercial projects complements the efforts of Magoon/Guernsey Architects to provide comprehensive professional services.

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AIA Recognizes Seven Outstanding Architecture Students

The American Institute of Architects recently recognized seven outstanding architecture students at Virginia Tech with awards and scholarships.

Fifth-year students: Joann Jolin from Lewisburg, PA, received a medal and certificate and Andrew Myren of Purcellville, VA, was presented a certificate, both for academic achievement in the study of architecture.

Five students were awarded AIA Foundation scholarships. Douglas Cogger, a graduate student from York, Maine, and Lou Ann Cooper, a graduate student from Blacksburg, received \$1,000. Scholarships of \$500 went to graduate students Mary Wentworth of Richmond and Deirdre Glasheen of Norfolk and third-year student Dex Sanders of Alexandria.

Four Architecture Students Recognized for Excellence In Architecture Program

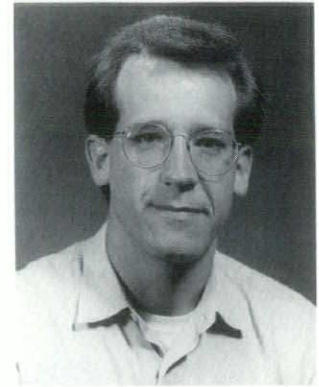
Four architecture students at Virginia Tech have received scholarships or awards that recognize outstanding work in the architecture program.

Cathron Brooks, a fourth-year student from Alexandria, was named the 1987 recipient of the Michelle Currie Memorial Scholarship for excellence in the study of architecture. First presented last year, the scholarship was established by Leonard and Virginia Currie of Blacksburg in memory of their granddaughter.

The Charles Worley Scholarship, established in honor of a retired faculty member in the College of Architecture and Urban Studies, went to Edward Young, a fourth-year student from Tenafly, NJ. The scholarship recognizes excellence in the study of architecture.

The Juris Jansons Memorial Award was presented to Brian Burke, a fifth-year student from Herndon, for excellence in design.

Chris Rose, a fifth-year student from Richmond, received the Werner Graeff Memorial Award for excellence in object design.



G. Gutierrez

Graduate Student Takes \$1,000 Top Award

Gerard Gutierrez, a Virginia Tech graduate student in architecture, took top honors and \$1,000 for his design of a winery in the Virginia Concrete Masonry Association Competition held by Tech's College of Architecture and Urban Studies.

About 40 entries vied for the \$2,500 in awards contributed by the Virginia Concrete Masonry Association. An additional \$300 was supplied by the college.

The competition, an annual event in the college, "celebrates the good projects in the school that use or promote the use of concrete masonry," said Dennis J. Kilper, professor of architecture and competition coordinator. It is open to all upper-level architecture students, third year through graduate studies.

Gutierrez, a native of Tampa, Fla., had won honorable mention with an earlier version of his design in the 1985 Virginia Society Competition. He is also working on the design for his master's thesis.

Second place and \$600 went to Matt Michel, a fifth-year student from Wakefield, RI, for a single-family house.

Taking third and \$500 was Joseph Hyland, a graduate student from South River, NJ, for his design of a system of narrow row houses that spatially solves the problem of narrow dwellings.

Greg Galford, a fifth-year student from Hamlin, WV, took fourth place and \$400 for a single-family house structured between four masonry pillars.

Three \$100 awards were presented to graduate student Mark Blizard, fourth-year student

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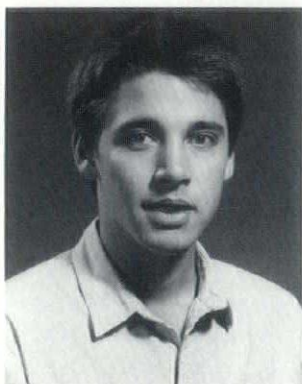
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Patrick Croall and fifth-year student Dominique Kostelac, all of Blacksburg. These three awards, Kilper said, recognized entries that "challenged or extended our thinking about block masonry."

Judges included Robert Schubert, Hans Rott and Bruce Lindsey, all architecture faculty members at Tech, and Peter Disch, a visiting professor who is a Swiss architect.



D. Yama

Pulaski Student Wins National Scholarship

David Yama, a fifth-year architecture student at Virginia Tech, has received one of three \$5,000 travel scholarships presented nationwide by the architectural firm of Skidmore, Owings and Merrill in Chicago.

The Pulaski resident plans to use the scholarship to travel to six major cities located throughout Europe but will concentrate on the area of central Italy.

A stipulation of the scholarship is that recipients make a formal study during their travels and submit a written presentation to SOM upon their return.

The firm selected six finalists from 120 portfolios submitted by entrants on their college work. The three recipients were named after SOM interviewed the finalists in New York City.

Yama, a 1981 graduate of Pulaski County High School, is a son of Dr. George Yama of Pulaski and JoAnne Bell of Dublin.

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Student Receives Grant From AAUW

Deirdre Glasheen, a student in Virginia Tech's College of Architecture and Urban Studies, has received a national Project RENEW grant from the Educational Foundation of the American Association of University Women.

The former resident of Norfolk and Richmond will use the \$3,354 grant to pursue graduate studies in architecture.

Glasheen holds a Master of Fine Arts degree from the Pratt Institute and a Bachelor of Science degree in art from Southern Connecticut State College. She has worked as a consultant to the Andrew W. Mellon Foundation Grant to Humanities at Pratt, designing programs to expand and enrich the humanities in the professional art and architecture curricula, and has taught art in several community service agencies under the federal Model Cities Program.

She also founded and was artistic director of a performing company in New York City that integrated visual arts and dance.

The AAUW Educational Foundation is a charitable organization that offers support to women to



D. Glasheen

help them achieve their potential through education, training and community service. The Foundation's research and projects grants program, established in 1972, provides seed money grants for women to pursue community-action projects, research or career-related training.

The Project RENEW grant was designed specifically to aid women resuming academic studies that will enable them to re-enter the work force, especially in non-traditional fields.

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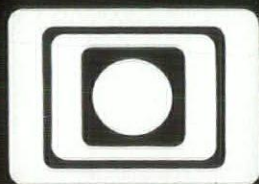
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The 21-story Dominion Bank Tower stands as the first component of a massive mixed-use complex that will cover eight acres situated between Richmond's business district and the James River.

Originally known as One James Center, the 475,000 square foot tower has now been joined by a 695-space parking deck and a 365-room Omni Hotel. The original design included a twin tower, which remains an option. Also scheduled for completion over the next 10 years by Faison Associates, a Charlotte-based development firm, and joint venture partner CSX Resources Corporation, are four more office towers, a 255-unit condominium building and 50,000 square feet of adjoining retail space.

The challenge for the project's architect, Odell Associates, was to create a contrast to the basically squared shapes of nearby buildings, provide comfortable public spaces and preserve Faison's desire to maximize the unique view of the James River. The initial step involved development of a master plan for the entire complex with particular focus on the perceived uses of each component, the overall appearance, and such key elements as traffic circulation and parking, utilities, and adjacent development. Once the primary structural components were set, the architects' attention was focused on "people" features that ultimately would unify the complex. Noted architect William H. Whyte served as a consultant on the public spaces, emphasizing a user-friendly environment and ties to Richmond's historic nature.

The public areas were designed to provide a contemporary look within a traditional setting. Brick pavers on the plaza offer a warm counterpoint to the tower's reflective glass and a connection to the city's history. Low-scale lighting, signage and landscaping further heighten the effect.

The contemporary look begins at the main entrance with its thermo-finished granite walkways and doors flanked by poly-stainless columns. The lobby then offers a dramatic contrast with its high ceilings, floors of salmon-colored Italian marble, marble-clad columns, and mirrors trimmed in brass and bronze.

In addition, the plaza and lobby were designed to receive owner-selected artwork, thus integrating art with the architecture of an urban setting. In homage to the importance of the James River to Richmond's past, an outdoor piece features three boatmen hoisting a sail while the lobby contains a 15-foot cast bronze representation of the river's path through the city. An exterior brick wall holds life-size reproductions of a briefcase, hat and pocket calculator that constantly fool visitors who attempt to pick them up or report the "lost" items to security officers.

The tower's exterior features an angular look that allows orientation to the view. In contrast to nearby buildings, the upper levels are clad in silver reflective glass selected by the owner while the ground level is enveloped in clear glass set in a four-way structural silicone glazing system. The clear glass visually opens up and draws attention to the lobby area. Utilizing a concrete frame with post-tensioned floor slabs, the individual floors diminish in size from 28,000 to 16,000 square feet as the tower rises. Ten elevators provide service, while a pedestrian



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bridge connects the building to the hotel and parking deck.

The flexibility of the design proved important as the owner and tenants were encouraged to offer input. In fact, the design was modified midway through the project to accommodate a major tenant's desire for enlarged spaces.

Aiding the overall design and construction of Dominion Bank Tower was the implementation of a team approach by Faison Associates. Both Odell Associates and McDevitt & Street Company, the general contractor, were selected early in the development process and worked closely together. This coordination allowed site preparation and foundation work to proceed as drawings were finalized, as well as refinement of the design during the course of construction. The result was an aggressive, fast-track schedule that led to substantial completion in just 13 months.

The project was slowed shortly after ground-breaking by an unusual occurrence. During foundation excavation, the remains of several 19th century canal boats were discovered approximately 20 feet below grade. Work in this area was halted for several weeks while local

historians further explored the site and removed the artifacts.

Despite the temporary slowdown, work proceeded smoothly, with Dominion Bank Tower now recognized as a highly visible contribution to the ongoing renaissance of downtown Richmond.

McDevitt & Street Co. of Richmond was general contractor for the project.

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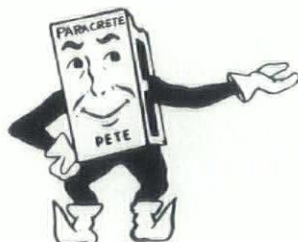
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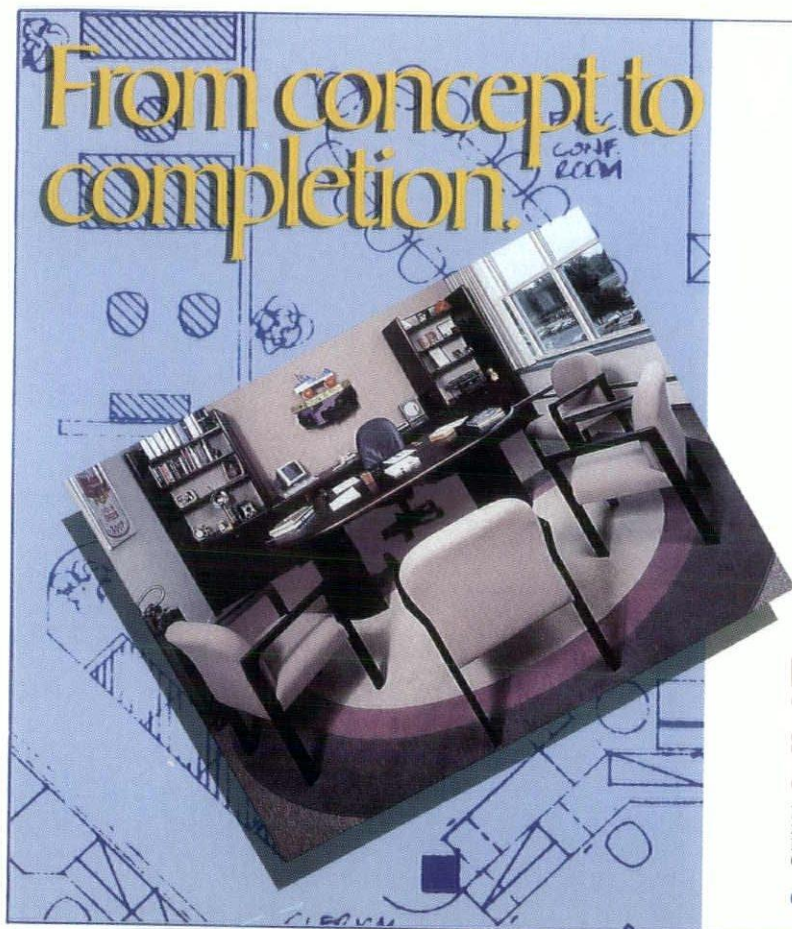
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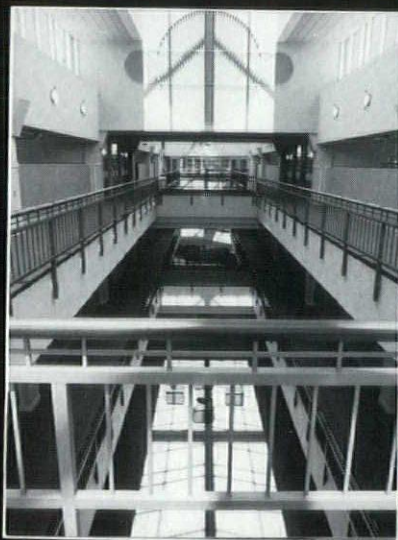
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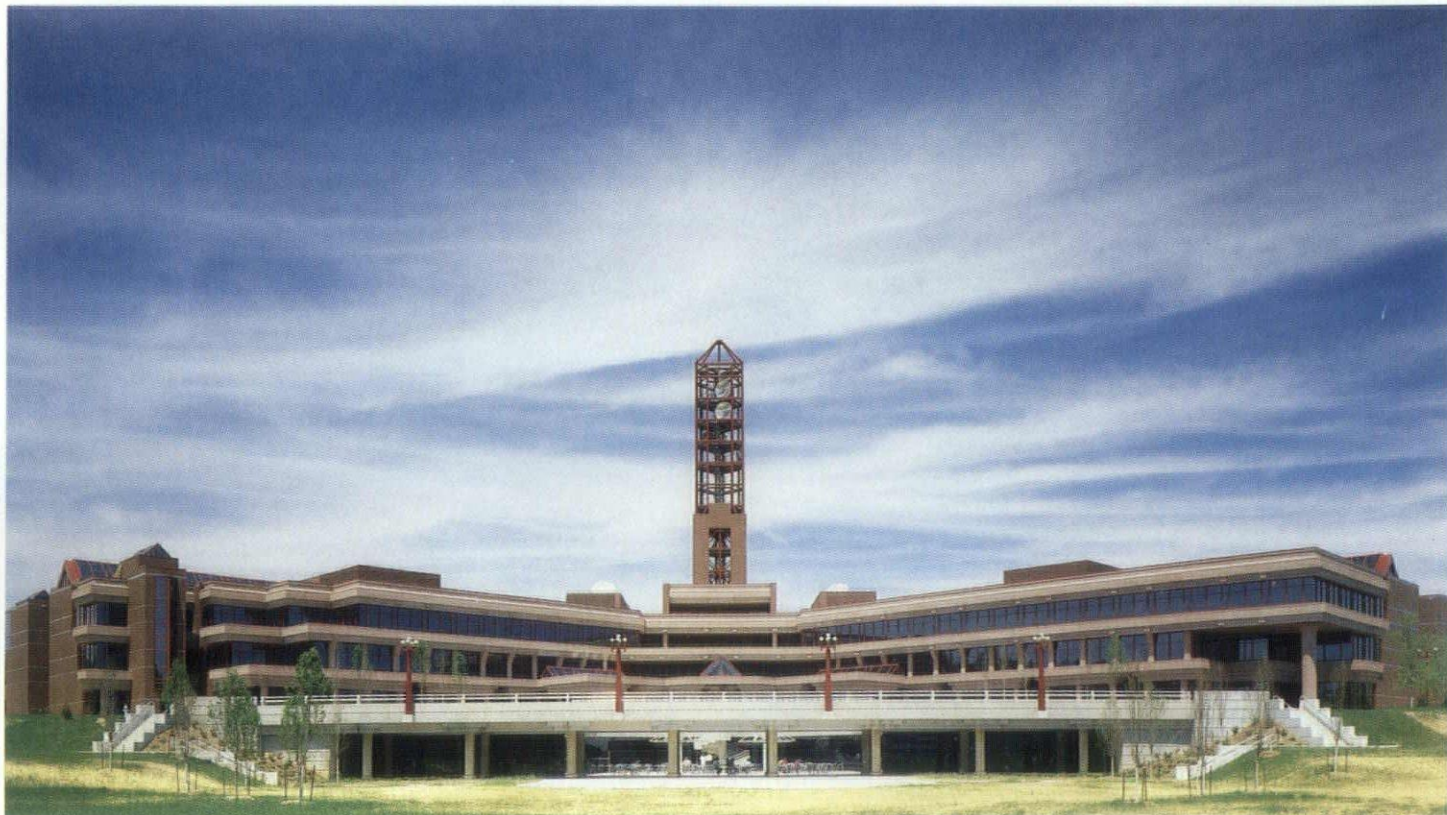
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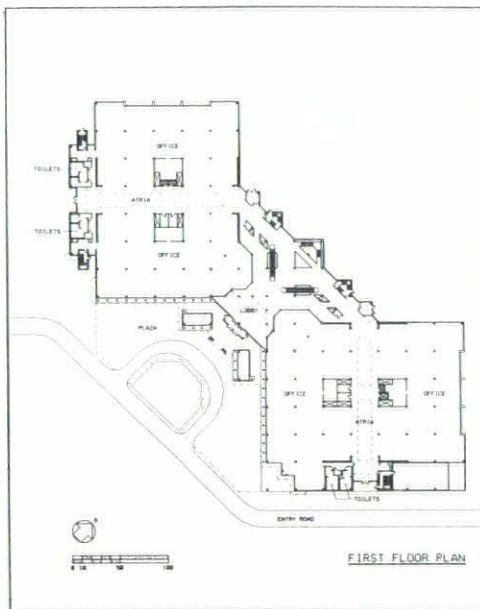
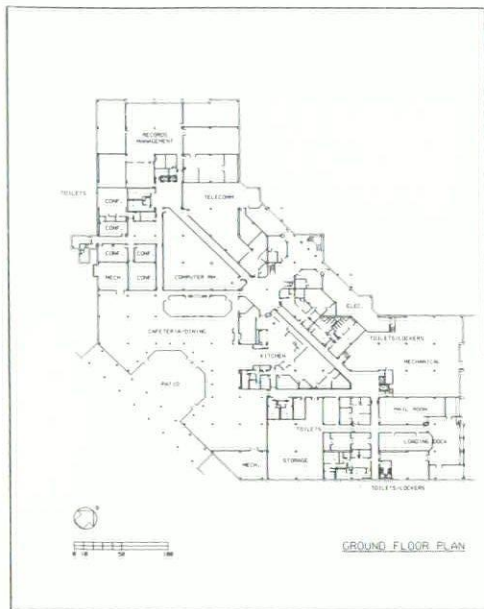
Owner: Virginia Power • Location: Glen Allen

Project Architect/Designers: Richard L. Gould, AIA/David A. Johannas, Alan T. Bott, William M. White • Landscape Architect, Marion Paulett • Interior Design, Alan T. Bott & David A. Johannas • Cost Consultant, Frank M. Bagwell • Civil Engineer, Dennis L. Kaiser • Structural Engineer, David E. Ayers • Mechanical Engineers, Robert W. Andrus & Dale Chambers • Electrical Engineer, Leo T. Griffin • Geotechnical Engineer, John A. Cima • Project Supervisor, H. P. Sadler, Jr. • General Contractor/Construction Management, Virginia Power • General Contractor for interior finishes—under Virginia Power, Whiting-Turner Contracting Co. • Photography, Whitney Cox.

In 1984 Virginia Power planned to move and consolidate its technical staff from various downtown Richmond locations to a suburban site. A 62 acre site was selected in western Henrico County. The preliminary program identified potential needs of approximately 1,000,000 square feet of space with an initial building program of 350,000 square feet.

Virginia Power planned to continue its use of open plan office arrangements with each work station conceivably having some type of computer terminal. A telecommunications center serving the entire utility service area would be housed in the building and required a microwave tower linking it to the system network. Other programmatic requirements were: a cafe-





teria, security complex, mail room, loading dock/storage/shops, conference training area, a records management area including vaults for storage of nuclear power station records, and a garage for maintaining pool cars.

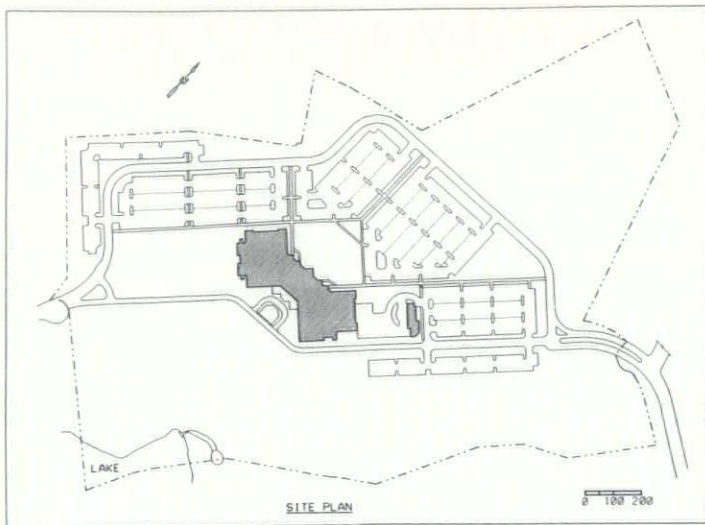
The design solution organized building modules (150"x90"x3 stories) of open office along an open three story circulation spine. The circulation spine can be extended in the future to eventually enclose a landscaped courtyard/plaza that views a small lake located to the south of the building.

The facade of the building facing the lake is scaled to the pedestrian. Its imagery is traditional, representing those aspects of the utility. The spandrel cornices used in this facade act as sun screens for summer sun. The materials are exposed aggregate precast spandrels and columns, grey reflective glass with red mullions and red-brown brick.

An entry plaza is situated between the building and a landscaped lawn. An elevated roadway at the plaza separates the vehicular traffic from the pedestrian access to the lawn. This formal, elevated entrance forms a "piano nobile." Below is a cafeteria and outdoor dining with direct access to the lawn.

The north facade of the building is scaled to the automobile, and faces the parking and collector road. Its imagery is high-tech and represents the utility's involvement in energy research and generation. The stylized stepped arch used on the south side is blown up in scale and inset in the blue flush glazed curtain wall. The materials on this facade are blue and grey reflective glass with red mullions and red-brown brick.

One of the building's more prominent features is the micro-wave tower. The tower stands 189 feet tall and is structurally open for most of its



height. The bottom portion of the tower is executed in brick to visually unite the tower and the building. An open structural steel frame is used throughout. The steel members are painted to match the window mullions. The steel framing achieved the visual impact needed for this central architectural element and enabled the erector to lift preassembled platforms like building blocks.

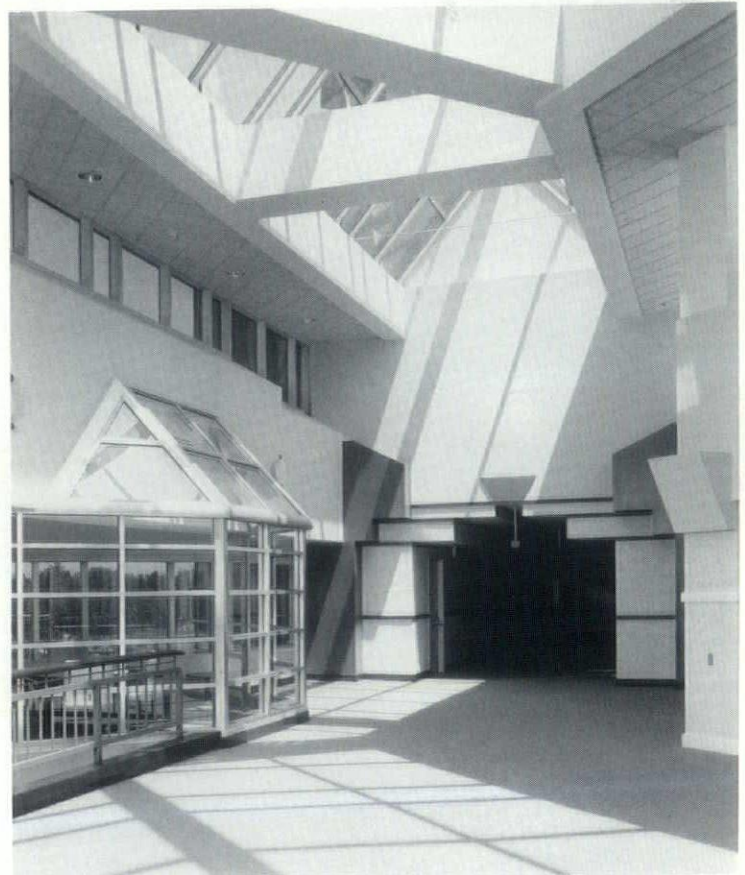
High strength steel with composite design floors was selected after a thorough economic analysis. It also allowed some flexibility during construction. The building framing and exterior envelope were being constructed while the design team completed the interior package.

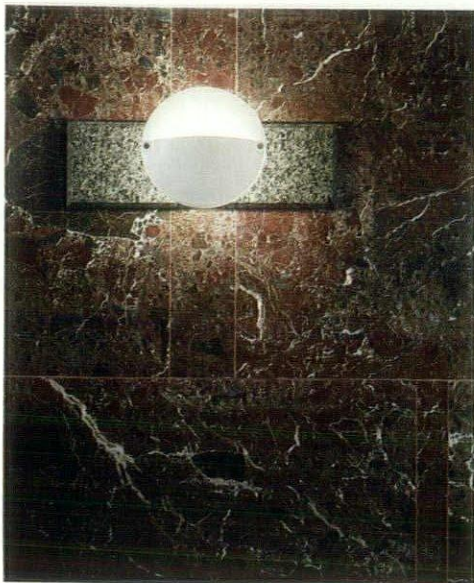
Every effort was made to soften the environment and to humanize the building for employees.

Most interior public spaces of the building occur in three story, skylit atria. The atria create the central circulation scheme and provide a major source of natural light into the inner depths of the building. No person is more than 45 feet from a natural light source.

The open plan office space is acoustically designed. Indirect lighting is provided by a suspended grid of fluorescent light fixtures. Full height partitions with transoms visually continue the light grid and ceiling plane. Low office partitions are 61 inches high with dark mahogany trim. A typical new work station consists of modular work surfaces and mobile pedestals. All surfaces are finished in gray laminate with dark mahogany trim.

Virginia Power acted as general contractor and construction manager for the project. Whiting-Turner Contracting Company of Richmond acted





as general contractor for interior finishes, under Virginia Power.

SUBCONTRACTORS & SUPPLIERS

(Richmond firms unless noted)

Froehling & Robertson, Inc., testing & drilling; Holly & Spain Ltd. P.C., site surveyors; Richmond Primoid, Inc., sealed horizontal brick water table on plaza with Chem-Trete; Johnson Irrigation Corp., irrigation; R. E. Lee & Son, Inc., Charlottesville, excavating, paving, foundations

& concrete work; Greenbrier Farms Landscaping, Inc., Chesapeake, landscaping materials & landscaping contractor; Bethlehem Steel Co., Baltimore, MD, reinforcing; Powhatan Ready Mix, concrete supplier; Concrete Pipe and Products Co., Inc., supplied concrete masonry units; Capital Masonry Corp., masonry contractor; Isenhour #881, Salisbury, NC, masonry manufacturer; Redford Brick Co., Inc., masonry supplier; Riverton Corp., Riverton, mortar; Cut Art Stone Co., Savannah, GA, stonework contractor/supplier; Owen Steel Co. of North Carolina, Inc., Gastonia, NC, steel supplier; W. O. Grubb Steel Erection, Inc., steel erection; John W. Hancock, Jr., Inc., Salem, steel joists; Consolidated Systems, Inc., Gastonia, NC, steel roof deck; and W. A. Lynch Roofing Co., Inc., Charlottesville, roofing.

Also, Dow Chemical Co., Charlotte, NC, roof insulation; American Coatings Corp., Ashland, fireproofing; Carlisle Syntec Systems, Carlisle, PA, waterproofing; Industrial Louvers, Inc., Delano, MN, sheet metal; Ford Glass Co., Dearborn, MI, glass; W. H. Stovall & Co., Inc., Ashland, glazing contractor; Kawneer Co., Harrisonburg, window wall; Hodgman's, Inc., carpet; Boitnott Visual Communication Corp., equipment; Otis Elevator Co., elevator; Virginia Pipe & Supply Co., Inc., Ashland, sprinkler contractor; Noland Co., plumbing fixture supplier; William H. White, Jr., Inc., plumbing contractor; Environmental Air Systems, Inc., Greensboro, NC, heating/ventilating/air conditioning contractor; Graybar Electric Co., Inc., lighting fixtures supplier; General Electric Supply Co., electrical equipment supplier; Starr Electric Co., Inc., electrical contractor; John G. Kolbe, Inc., kitchen equipment; Aker Industries, Inc., window treatment; Shaw Walker Co. and Virginia Metal Industries, Inc., Orange, movable partitions; Lees Commercial Carpet Co., Glasgow, carpet supplier; and Sign Graphics, Inc., signage.

The following firms worked under Whiting-Turner Contracting Company's contract: Liphart Steel Co., Inc., miscellaneous metal; Colonial Iron Works, Inc., Colonial Heights, handrails; Wookworking Specialist Co., carpentry, millwork, paneling, wood doors & cabinets; E. S. Chappell & Son, Inc., Mechanicsville, caulking; Roanoke Engineering Sales Co., Inc., metal doors, frames & specialties; Walker & Laberge Co., Inc., storefront; Architectural Hardware, Inc., hardware supplier; A. Bertozzi, Inc., gypsum board contractor; H. E. Satterwhite, Inc., ceramic tile; Architectural Stone Products, Inc., marble; O'Ferrall, Inc., acoustical treatment and resilient tile; Donn, Inc., Manassas, special flooring; N. Chasen & Son, Inc., painting & wall-covering contractor; and Devoe Paint, paint supplier/manufacture.



The Atrium Building

Magoon/Guernsey Architects

Owner: Atrium Development • **Location:** James City County

Project Architect/Designer, Thomas G. Tingle, AIA • **Interior Designer,** Faith Mellar, ASID • **Site Engineer,** Langley & McDonald • **Structural Engineer,** John David Jones & Associates • **Mechanical Engineer, Electro-Mech Engineering • Geotechnical Engineer,** ATEC Associates, Inc. • **General Contractor,** A. A. Beiro Construction Co., Inc. • **Photography,** Whitney Cox.

A glass barrel vault rising out of the pines highlights the Atrium Building, the area's first luxury office space located in Busch Corporate Center in James City County.

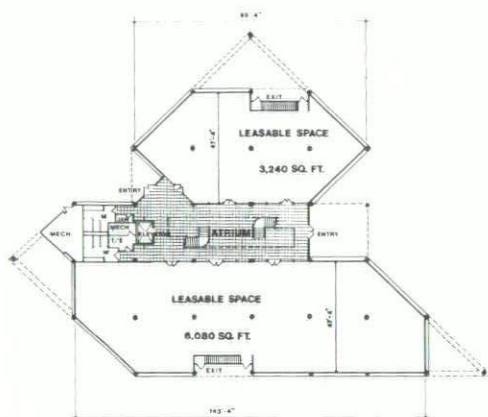
The Corporate Center, adjacent to Kingsmill on the James, emphasizes architectural and landscape quality. Many of the first buildings constructed there were strongly influenced by the Colonial style identified with Williamsburg. The Atrium Building constitutes a dramatic departure, being more symbolic of the area's dynamic future than its historic past.

The building's developers recognized a lack of Class A office space in the burgeoning Peninsula business market as an opportunity to enrich the Colonial atmosphere with a contemporary design. They wanted a speculative building that would also house the developers' parent company. Their program included a strong emphasis on natural light in the office spaces, and a sense of open space for the lobby areas. The resulting design provided 20,000 square feet of tenant space on two stories surrounding a skylit atrium core.

The architects were given the opportunity to control the project from site planning through tenant improvements. From the outset, a commitment was made to the quality of the interior architecture. The designers sought to maintain the integrity of the original concept with compatible interior forms and colors. In addition to the design of public spaces, the client retained the architect and associated interior designer to provide design services for all tenant spaces.

The building's form evolved as a response to its curving triangular site. The site concept positions all parking and driveways to the rear of the wedge-shaped, wooded lot, subordinating it to a well-landscaped foreground for the building at the street side. The remaining footprint area was sliced through with a glazed barrel vault, creating a strong axis, with commanding entries





FIRST FLOOR PLAN

at each end, and bringing natural light into the tenant spaces through interior glass walls.

The atrium is more than just a passageway to office suites. It serves as an inviting lobby for all the building's users. Those who arrive early for a meeting, or wish to make notes on one just completed, find the atrium's seating areas a comfortable spot between the vehicular rush and the distractions of the office.

Carrying through the owner's request for ample natural light, the architects went beyond the atrium itself to include full height glass in all exterior walls. Deep overhangs and mini-blind window treatment help control heat gain. The spacious effect created by the glass was augmented by a ten foot ceiling height, allowing the

natural light to penetrate deep into the office spaces.

To maintain a low profile and avoid ground level screening, the mechanical system was placed in a well, just inside the building envelope. The goal was to design a clean, crisp and dramatic piece of architecture which related well to the surrounding landscape.

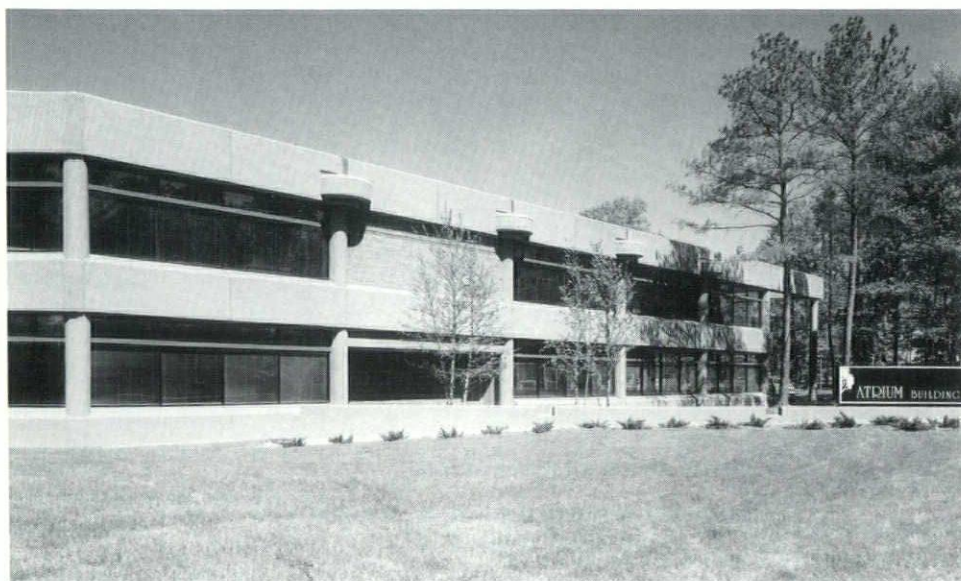
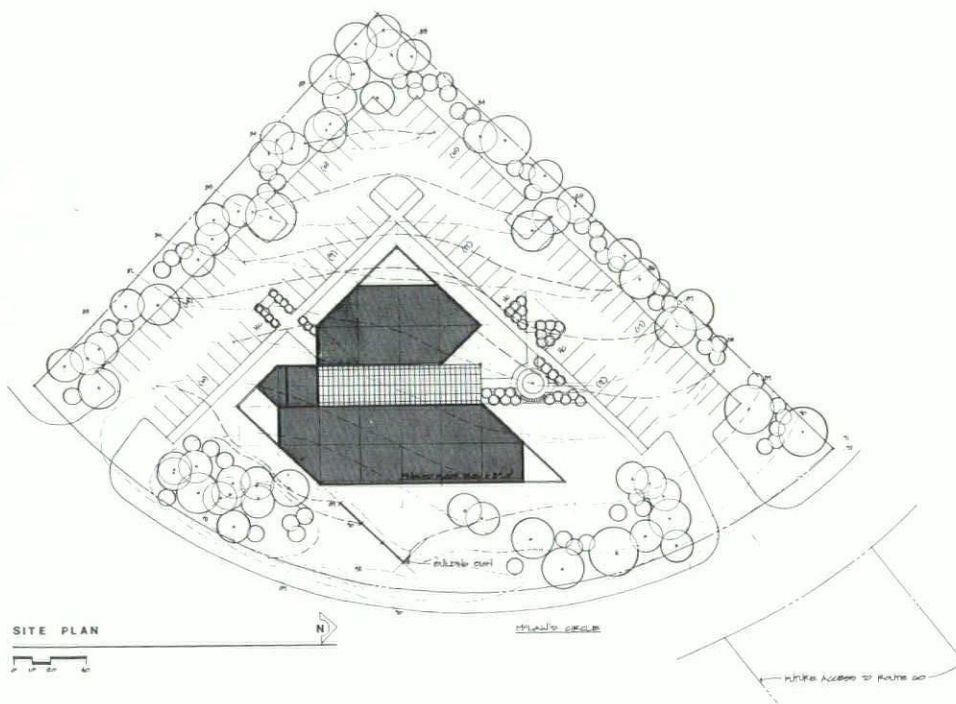
The Atrium Building has received a 1986 Award for Excellence in Design from the Hampton Roads Chapter AIA, whose jury members cited its sophisticated geometric order, pleasant environment, and memorable exterior. It has attracted tenants from several types of businesses, including hotel management, legal services, software sales, and mortgage banking. Busch Corporate Center manager William F. Brown has said Magoon/Guernsey's design "is going to be one of our landmark buildings."

A. A. Beiro Construction Co., Inc. of Alexandria was general contractor and handled excavating, foundations, concrete work, foundation insulation, carpentry and waterproofing.

SUBCONTRACTORS & SUPPLIERS

Smithfield Gardens, Smithfield, landscaping materials & landscaping contractor; H & L Paving, Williamsburg, paving contractor; Hall-Hodges Co., Inc., Norfolk, reinforcing; Chisman Co., Hampton, concrete supplier; Ledger Construction Co., Virginia Beach, masonry contractor; Solite Masonry Units Corp., Chesapeake, masonry manufacturer; Lehigh Portland Cement Co., Annandale, mortar; Hercules Steel Co., Inc., Fayetteville, NC, steel supplier, miscellaneous metal & handrails; Commonwealth Erectors, Chesapeake, steel erection; John W. Hancock Jr., Inc., Salem, steel joists; Wheeling Corrugating Co., Wheeling, WV, steel roof deck; CMS Roofing Co., Inc., Rockville, MD, roofing & roof insulation; Maxson Construction Co., Norfolk, wall insulation; K & P Caulking Co., Inc., Chesapeake, caulking; Warner Moore & Co., Inc., Virginia Beach, skylight; and Perkins & Glass, Inc., Sandston, glazing contractor, windows & storefront.

Also, Architectural Products of Virginia, Virginia Beach, metal doors & frames; Door Engineering Corp., Norfolk, hardware supplier; Bill Hickman, Williamsburg, plaster contractor & gypsum board contractor; Pompei Tile Co., Inc., Newport News, ceramic tile; Manson & Utley, Inc., Richmond, acoustical ceilings; Mill End Carpet Shop, Newport News, carpet; Essene Painters, Hampton, painting contractor, paint supplier & wall covering; M. A. Bruder & Sons, Inc., Broomall, PA, paint manufacturer; Parker Davis Building Specialties, Inc., Charlotte, NC, toilet accessories; Dover Elevator Co., Norfolk, elevator; Wes-Way Sprinkler Co., Inc., Mechanicsville, sprinkler contractor; Southern Plumbing & Heating Supply, Inc., Newport News, plumbing fixture supplier; Tidewater Plumbing & Heating Corp., Hampton, plumbing/heating/ventilating/air conditioning contractor; Noland Company, Richmond, lighting fixtures/electrical equipment supplier; Diversified Electrical Contractors, Inc., electrical contractor; Denbigh Construction Co., Inc., Newport News, sidewalks; and Synergy Mid-South Ltd., Virginia Beach, exterior insulation & finish system.



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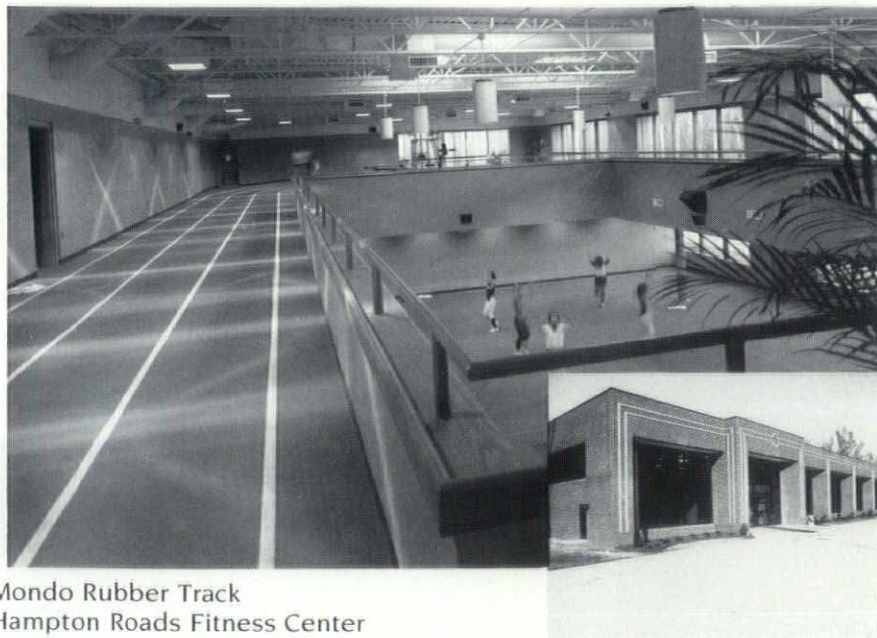
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Greenbrier Tower II

Riddick & Associates, P.C.—Architects

Owner: Armada/Hoffler Enterprises • Location: Chesapeake

Project Architect/Designer, Donald G. Riddick, AIA • Landscape Architect, Greenbrier Farms Landscaping, Inc. • Interior Designer/Cost Consultant, Armada/Hoffler Enterprises • Site Engineer/Surveyor, Wilfred P. Large • Structural/Geotechnical Engineer, Stroud, Pence & Associates Ltd. • Mechanical/Electrical Engineer, Bowman & Associates • General Contractor, Armada/Hoffler Construction Co. • Photography, Bill Kemp Productions & (Interior) Tamara Mischenko Photography.

Greenbrier Towers I and II are the centerpieces of the Greenbrier Industrial Office Park, the "downtown" of the City of Chesapeake. The twin towers were developed, built and leased by Armada/Hoffler Enterprises. The 92,000 sq. foot, six-story Tower I was the tallest building in Chesapeake when completed in September 1985. Tower II was scheduled for completion during the summer of 1987.

The basic requirement was to design a multi-story structure of approximately 92,000 sq. feet that would bring all subdivisions of Armada/Hoffler Enterprises under one roof. The building would also make available Class A office space for lease in a highly visible professional setting. Specific design parameters included the need for banded glass windows to allow maximum view for building occupants while resisting the layered appearance of stacked rings often encountered with this type of design approach.

The client desired a building that would be unique and striking while imparting a feeling of permanent excitement both inside and out. The bold scale of the radiused brick entrance piers and header set within glass curtainwall and square corners of the building present a striking image to passing vehicular traffic on adjacent Interstate 64. Brick soldier and recessed rowlock coursing and selected raked mortar joint surface details provide scale to the building's horizontal masonry bands. The glass



window bands are continuous butt-glazed with no visible vertical mullions. The large glazed curtain wall areas are inset to provide relief from the totally banded look.

Exterior glazing has a reflective finish to control solar gain and create exciting reflections. The entrances, however, are of tinted bronze glass to create a focal point as you approach the building. Entering the building beneath the large brick portal, one is greeted by a dramatic six-story atrium topped off with skylights. The visual centerpiece in the atrium is the stepped glass block and marble waterfall which serves as an envelope from which glass enclosed elevators rise through the open space. The elevators provide an exciting view of the atrium and the landscaped seating area below. Finish materials such as marble tile, brass and stained wood contribute to the high quality corporate image. The upper floors have wood-capped glass railings and mirrored planters along the edges of the atrium to visually enlarge the volume of the space. Tenant entrances and partitions along the perimeter are predominantly glass to allow views of the atrium space and access to natural light.

The structural system for the building is a steel frame supported by concrete spread footings. The exterior walls are metal studs with gypsum sheathing and brick veneer. Floor framing is concrete long-span metal deck on steel beams. Roof framing is metal deck over open-web steel joists. Heating and cooling is achieved through water to air heat pumps and a closed cooling tower.

Armada/Hoffler Construction Company, Chesapeake, was general contractor and handled foundations, concrete work and foundation insulation.

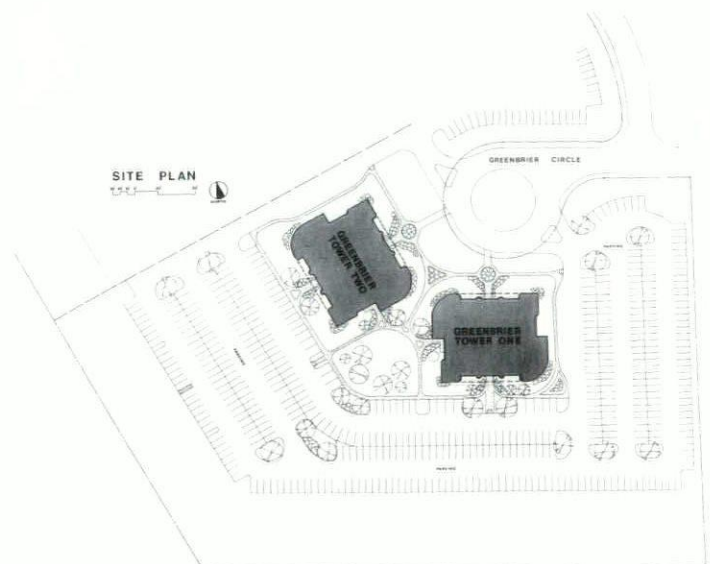
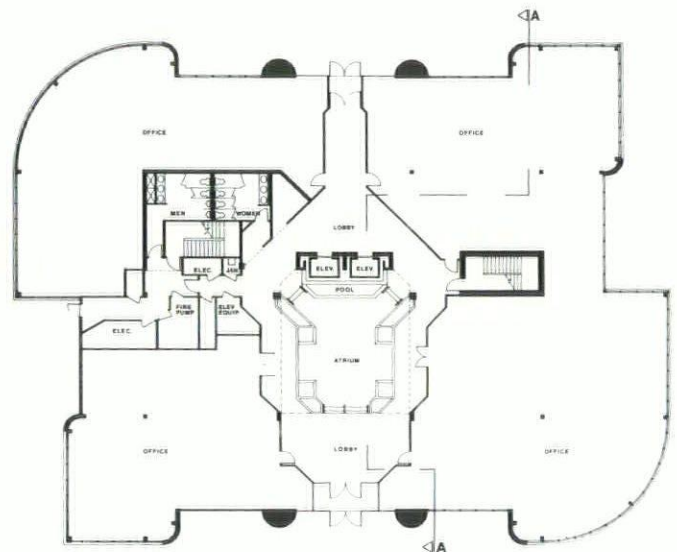
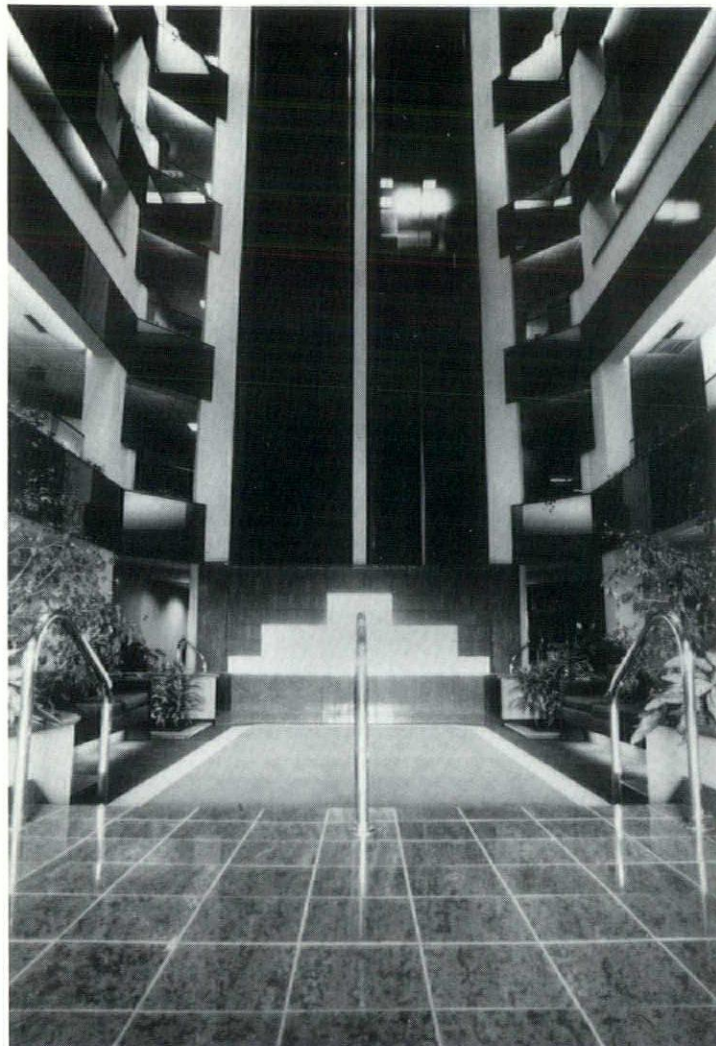
SUBCONTRACTORS & SUPPLIERS

(Chesapeake firms unless noted)

Higgerson-Buchanan, Inc., excavating & paving contractor; Greenbrier Farms Landscaping, Inc., landscaping materials & landscaping contrac-

tor; Hall-Hodges Co., Inc., Norfolk, reinforcing; Lone Star Industries, Inc. (now Tarmac-LoneStar, Inc.), Norfolk, concrete supplier; Snow, Jr. & King, Inc., Norfolk, masonry contractor; Taylor Clay Products, Salisbury, NC, masonry manufacturer; Batchelder & Collins, Inc., Norfolk, masonry supplier; Riverton Corp., Riverton, mortar; Lynchburg Steel & Specialty Co., Monroe, steel supplier/roof deck & miscellaneous metal; Commonwealth Steel Erectors, Inc., steel erection; John W. Hancock, Jr., Inc., Salem, steel joists; J. D. Miles & Sons, Inc., roofing, roof insulation & sheet metal; Old Dominion Drywall, wall insulation & gypsum board contractor; and Universal Stair Manufacturing, Conway, SC, handrails.

Also, Rudolph Construction Co., Norfolk, carpentry; Tremco Maintenance Service Corp., Cleveland, OH, caulking; PPG Industries, Inc., Richmond, glass, glazing contractor, window wall, storefront & hardware; Door Engineering Corp., Norfolk, metal doors & frames & wood doors; Olympic Tile & Carpet, Virginia Beach, ceramic tile & special flooring; S. E. Parker, Inc., Norfolk, acoustical treatment; Contract Carpet Sales, Inc., Norfolk, carpet; Clements Painting & Wallcovering, painting contractor & wall covering; The Glidden Co., Philadelphia, PA, paint supplier/manufacture; Seaboard Building Supply Co., Inc., Virginia Beach, specialties; Elcom Enterprises, Inc., Norfolk, elevator; Dagenhart Sprinkler Co., Norfolk, sprinkler contractor; Noland Co., plumbing fixture supplier; Aircon Ltd., plumbing/heating/ventilating/air conditioning contractor; Graybar Electric Co., Inc., Norfolk, lighting fixtures/electrical equipment supplier; and L. E. Ballance Electrical Service, Inc., electrical contractor.



Best Products Company, Inc. Corporate Headquarters Phase 3

Marcellus Wright, Cox and Smith Architects

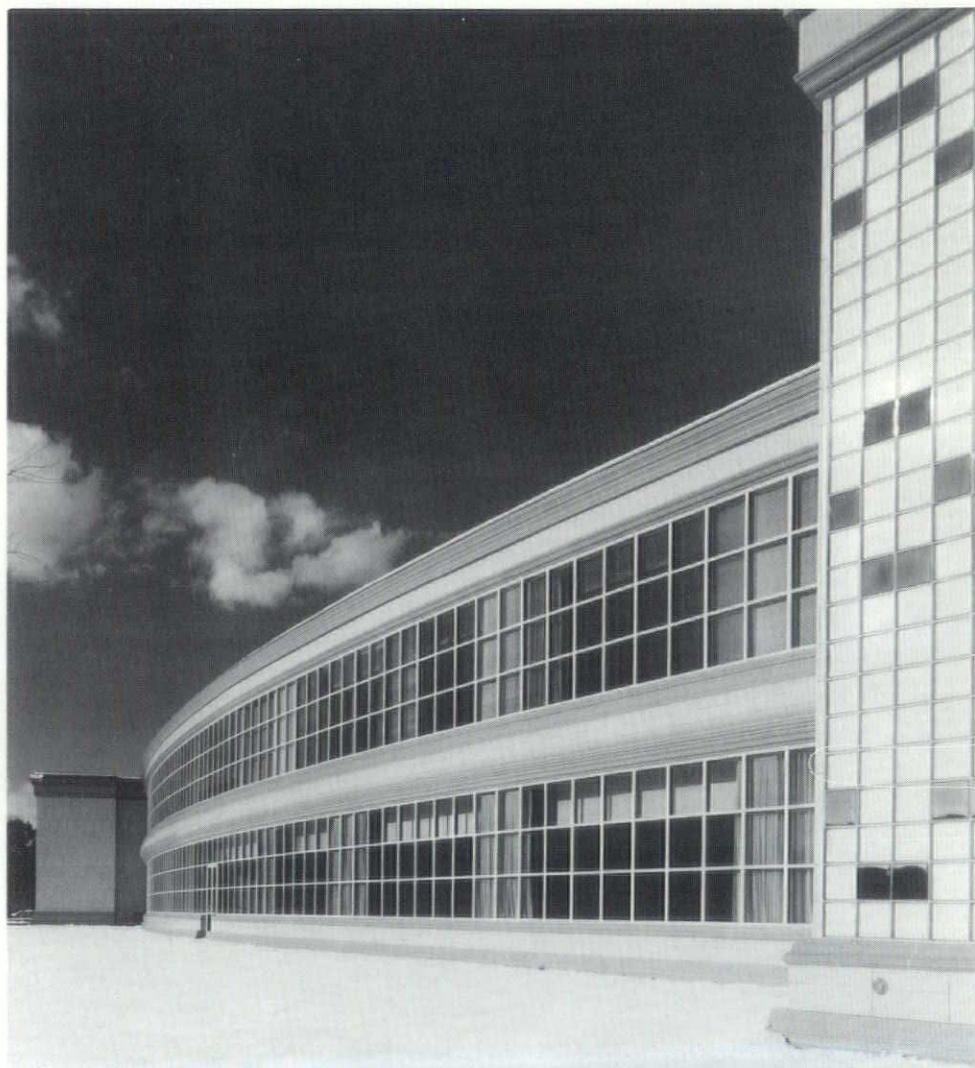
Owner: Best Products Company • Location: Richmond

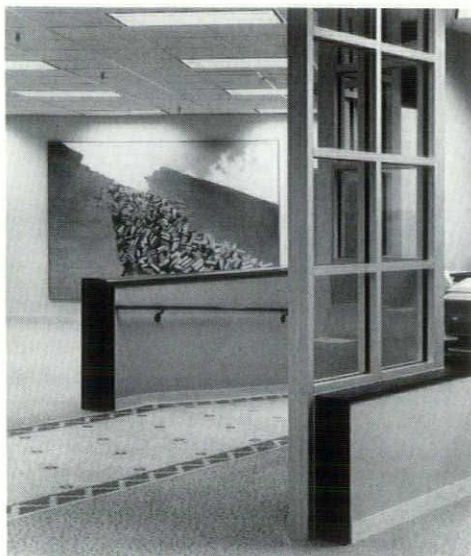
Project Architect/Designer, Edward A. Smith, III, AIA/Michael B. Stevenson, AIA • Landscape Architect, The Wilson-Moreth Partnership • Interior Design, Barbara E. Goodwin • Cost Consultant, Arthur E. Siska • Site Engineer/Surveyor, J. K. Timmons & Associates • Structural Engineer, Harris Norman & Giles (now Hanover Engineers, P.C.) • Mechanical/Electrical Engineer, HC Yu & Associates • Geotechnical Engineer, Froehling and Robertson, Inc. • General Contractor, Whiting-Turner Contracting Co. • Photography, Whitney Cox.

Best Products Corporate Facility, The Eagle Building, (Phase I) and master plan were designed by Hardy Holtzman Pfeiffer Associates (HHPA) of New York, N.Y. in 1981 to house company executive offices and selected works from Francis and Sydney Lewises' extensive modern art collection. The designs were published and nationally acclaimed as avant garde solutions. In 1985, the Atrium Building, (Phase II) had been designed and was under construction. It was located adjacent but not contiguous to the Eagle Building. It was larger than originally master planned—three stories rather than the established two—and it was to be very economical by comparison to Phase I. It became evident during construction that Best would require even more additional office space than had been designed by HHPA to consolidate operations.

Marcellus Wright Cox & Smith (MWC&S) was engaged, at this stage, to design an addition to the half-complete Atrium Building, and provide space planning, interior design, and signage for the entire building. HHPA was retained to complete the interior finishes in the Atrium Building's granite entrance hall and to consult on exterior finishes for the addition. MWC&S added four office bays to the eastern end of the building, extending the same asphalt exterior shingles in repeating white, grey and black patterns. The window placement and building setbacks continued HHPA's design so that the addition would be seamless.

Best's corporate philosophy was prudently evolving at that time to house all departments under one roof, rather than in several Richmond locations, as a cost saving measure and to promote efficiency. MWC&S studied all interdepartmental relationships, and developed masterplan alternatives to accommodate the changing demands. There was an extensive amount of





time spent reprogramming the evolving corporate structure. The Best administration decided to commence immediately with the construction of The Wedge Building, (Phase III), on a fast track schedule. It was their desire to reuse as many furnishings from scattered local offices as feasible after an extensive inventory was conducted by MWC&S. 3,000 pieces or 60% of the existing furnishings were accommodated by the new plan.

The Wedge Building attached the western end of the Atrium Building to the eastern end of the Eagle Building designed by HHPA. Studies for exterior cladding were explored that would tie together and complement the glass block and asphalt facades of the two separate structures. This created a unique design challenge, to begin Phase III construction prior to completion of Phase II and to design a link that would be aesthetically pleasing, while not upstaging the existing facades. This was achieved by introduction of a curtain-wall to break down the visual massiveness of the entire complex and by use of the same terra cotta cornice and base line. The Wedge had to accommodate the transition from the two-story Eagle Building to the three-story Atrium Building. It did this by way of a curved hall with ramps that follow the same circulation spine of Phases I and II. The entire 850 foot long building is now connected by one major, continuous interior circulation spine, more affectionately called "The Yellow Brick Road."

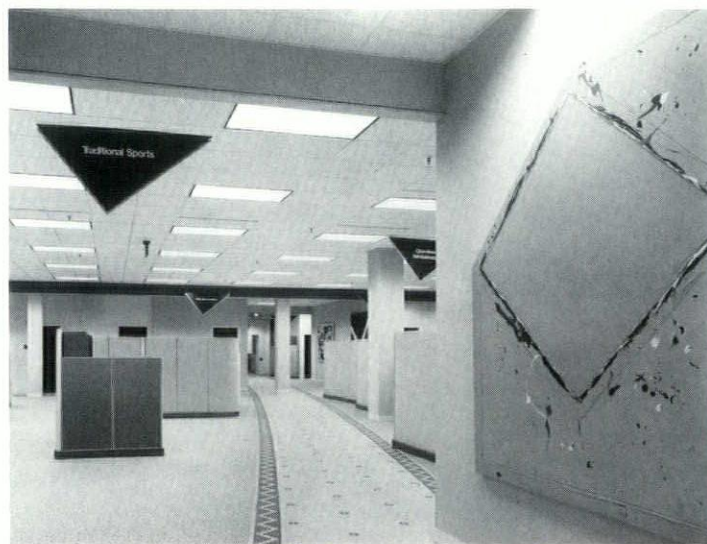
Inside, the Wedge was programmed to be the nucleus of the complex, housing executive offices, meeting rooms, auditorium, and consolidated dining facilities for the entire 1200 employee population. Former dining facilities in the Eagle and Atrium Buildings were converted into office space. The interiors of this building were coordinated with the construction of the Atrium Building to total an interior layout of 230,000 square feet. The office area utilized closed and open spaces. Closed spaces were

grouped around fixed core areas that housed utilities, service areas and restrooms. The open areas were based on an open landscape ideal that utilized flexible arrangements of work stations to facilitate long and short term departmental changes.

A food service facility concept was programmed around a wellness campaign with emphasis on fresh fruits and vegetables, salads, lean meats, homemade soups and breads. Each food group was given its own serving area. The kitchen is full service and was designed to provide meals from breakfast through afternoon break and can also be used for special dinners. The dining area was designed as three areas: a patio dining room of 125 seats with access outdoors; a main dining room seating 225; and a private dining room serving 50 for luncheon meetings. Aside from providing a more intimate atmosphere, this arrangement allows for use of only one dining room for off-hour lunch servings, breakfast, and break times.

Directly across the "Yellow Brick Road" are meeting rooms which can serve small groups or be opened up into an auditorium to seat 200 people. These spaces are easily accessible to kitchen facilities. The area has been utilized as an aerobics fitness center at the end of the working day. It could be used for future office space if necessary.

The chief executive offices were moved from the Eagle Building and placed upstairs along the front glass radial wall of the Wedge Building. This central location greatly increased accessibility of executive staff to all departments and their staff. The executive area has several small conference spaces and a central reception/secretarial area. Interior windows were introduced to bring natural light into the center of the Wedge. This created a more pleasant work environment and enhanced the exhibition role that the corridors of the headquarters play for the company's 20th century art collection. A



neutral color scheme created a backdrop setting for the dual role as museum gallery that offices inadvertently serve. Greatly dictated by economics, it is a sharp departure from the Eagle Building's interior design philosophy which created an environment as much a work of art as the collection it housed. The rear of the Wedge Building features a glass roofed atrium which repeats the HHPA motif from Phase II. It introduces natural light into the dining areas on ground level and the work areas upstairs.

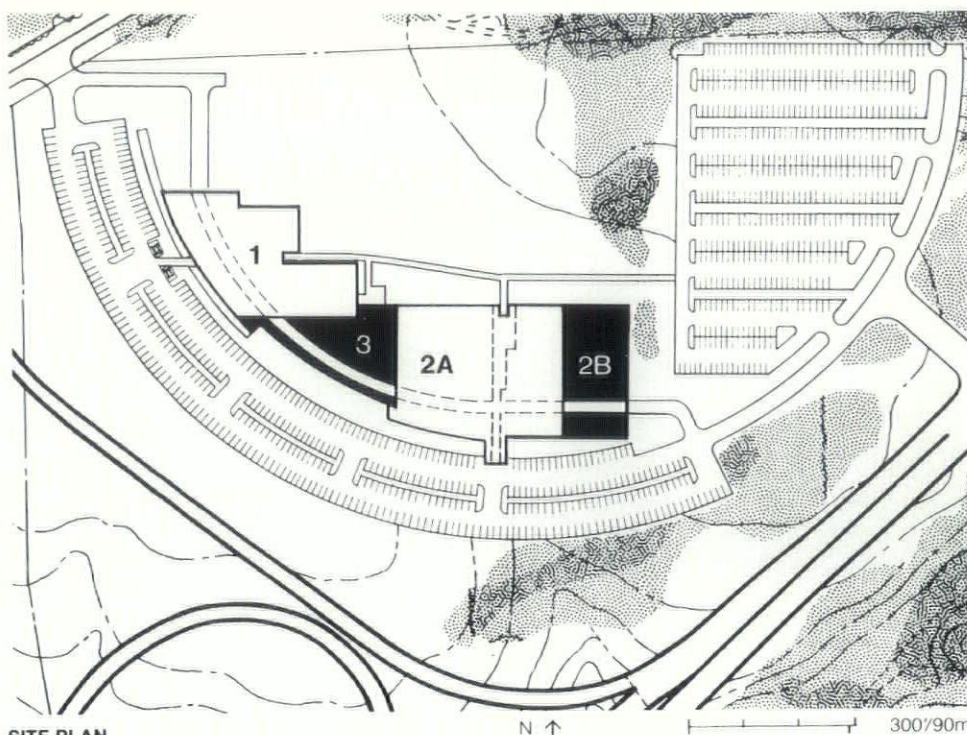
Construction, including furnishings and equipment, for Phase III, and the addition to Phase II, was produced at a cost of approximately one half the expense of the 1981 Eagle Building (Phase I). 900 staff members from the entire 1200 person population at Best are housed in Phase II and Phase III.

Whiting-Turner Contracting Co., Inc. of Richmond was general contractor for the project.

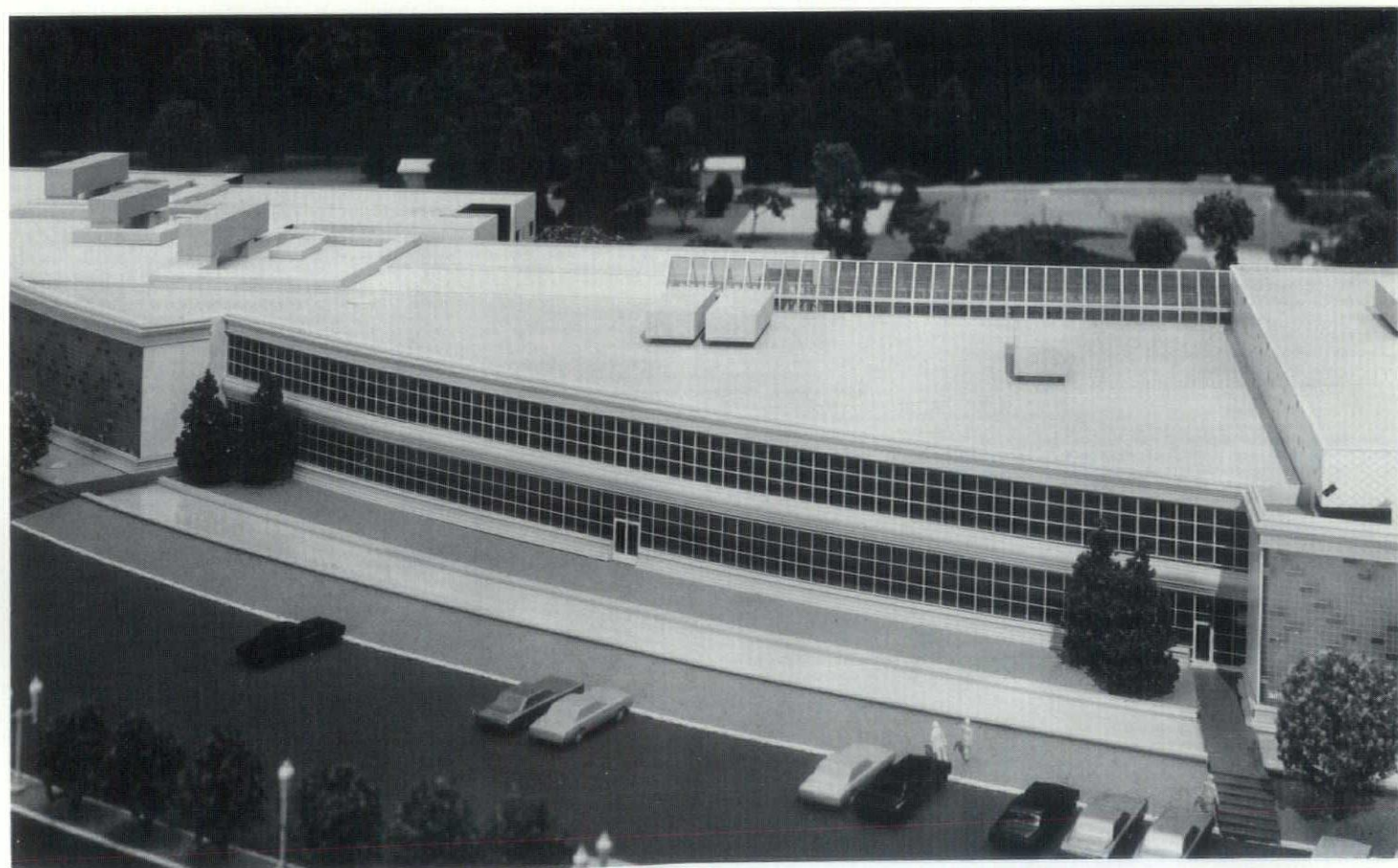
SUBCONTRACTORS & SUPPLIERS

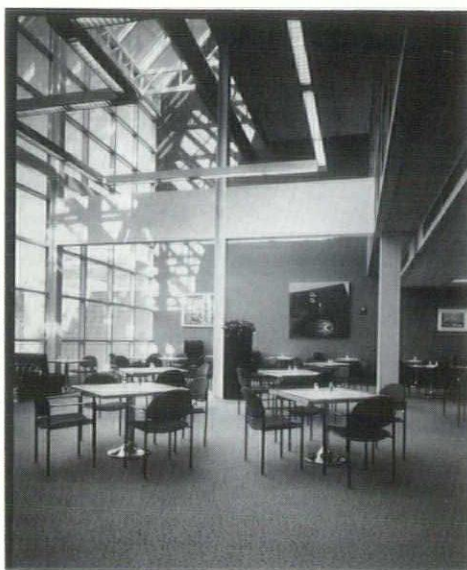
(Richmond firms unless noted)

Montague-Betts Co., Inc., Lynchburg, structural & miscellaneous steel; RRR Contracting, Inc., steel reinforcing placement; Colonial Mechanical Corp., plumbing & HVAC; Empire Granite Corp., terra cotta; Dover Electric Co., hydraulic elevator; Hammond Masonry Corp., Sandston, masonry; Conrete Pipe & Products Co., Inc.,



SITE PLAN





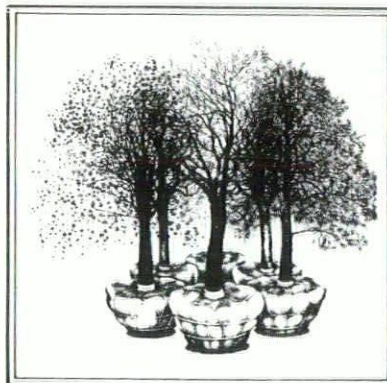
concrete masonry units; N. W. Martin & Bros., Inc., roofing; Lone Star Cement, Inc., (now Tarmac-LoneStar, Inc.), ready mix concrete; Owen Steel Co. of North Carolina, Inc., Gastonia, NC, fabricate reinf. steel; Binswanger Glass Co., glass & glazing, exterior windows, north curtain wall & vestibules; and W. E. Duke & Sons, Inc., Glen Allen, grading, paving & storm.

Also, Ward & Stancil, Inc., Mechanicsville, sewer and water lines; Hanover Concrete Corp., Mechanicsville, concrete curb & curb gutter; Demery Fence Co., fence work; Commercial Electric, Inc., site lighting; Stanley Construction



Co., Inc., Ashland, clearing & grading; A. Bertozzi, Inc., metal stud and drywall; Wes-Way Sprinkler Co., Inc., Mechanicsville, fire protection; Alexander Waterproofing Co., dampproof-

ing & perimeter insulation; E. S. Chappell & Son, Inc., Mechanicsville, caulking; Dean & Boshier Construction Co., Chester, steel erection; T. M. Cullather, shingle installation; Liphart Steel Co., Inc., structural steel & decking; and Caudle Construction, Inc., Crozier, pre-engineered metal building.



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Others were: M E M Interiors, Inc., Mechanicsville, STO Polymer installation & exterior sign; American Coatings Corp., Ashland, sprayed fireproofing; Gayle S. Mann, Jr. & Co., Gunnite installation; J. S. Archer Co., Inc., folding partitions; Trashmasters, Inc., Forestville, MD, trash chute & hopper; Browning Steel Co., miscellaneous steel; Greendale Railing Co., Inc., Ashland, steel handrails; Ruffin & Payne, Inc., millwork; Lyttle Utilities, Inc., off-site water line; Airlite, Marietta, OH, louvers; W. H. Stovall & Co., Inc., Ashland, curtainwall soffit panels; and Plastrglas, Inc., Omaha, NE, fiberglass column covers.

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Boulders Office Building II

Odell Associates, Inc.—Architects

Owner: Sigma Development, Inc. • **Location:** Chesterfield County

Project Architect/Designer, Thomas C. Clayton, AIA • **Landscape Architect,** Sigma Development, Inc. • **Interior Design,** Hummel Associates • **Site Engineer/Surveyor,** J. K. Timmons—Charlie Pike • **Structural Engineer,** Odell Associates—Tom Ferguson • **Mechanical Engineer,** Colonial Mechanical—Mike Sowick • **Electrical Engineer,** Alpha Omega—Jack Fitchner • **Geotechnical Engineer,** Froehling & Robertson, Inc. • **General Contractor,** F. N. Thompson, Inc.

The Boulders Office Building II is both a centerpiece and signpost for this Chesterfield County office park, located just off the heavily traveled Chippenham Parkway. Odell Associates was selected by Sigma Development Inc. to design a facility that was compatible in size and appearance with the park's first building, but did not have its low, horizontal feel. Also designed by Odell, Boulders Office Building I contained 80,000 square feet on five floors.

The second building, however, was to be located on the highest and most visible parcel of land in Boulders Executive Office Park. The owner's intent was to create a more vertical structure that would generate recognition from motorists on the parkway.

To achieve this goal, Boulders Office II is broken into two separate masses to overcome the horizontality inherent in the structure, which is 90 feet wide, 200 feet long and 65 feet tall. A larger rectangle of light green polished granite and horizontal bands of butt-glazed reflective silver glass is contrasted with a thinner, all butt-glazed green reflective glass element that provides a more vertical feel. This latter feature was oriented perpendicular to Chippenham Parkway to provide the vertical "sign post" desired by the owner. The former element is faceted from the corner downward to the entry at both sides of the lobby, and also is oriented 45° toward the thinner element to face visitors approaching the building.

With square and rectangles serving as the basic form, cubes of dark green granite were carved away to define the glass entry doors. Granite spandrel material, reflecting a higher quality of finish than normally found in this area, highlights the exterior and the lobby area. Adding a dramatic feel is the two-story, flow-through lobby that serves as the primary entry for tenants and visitors. This approach also allowed parking to be placed on both sides of the structure, thus minimizing visual impact from the interior spaces and walking distances. A formal drop-off area is located directly in front of the entrance.

Except for the granite, all materials used in Boulders Office Building II are shared with two

other existing buildings in the park. However, the stone was selected to complement the other structures while introducing the first combination of granite and glass in this area. In addition, attention was directed toward continuing a campus-like atmosphere through compatibility with the environment, which includes both natural and man-made rock outcroppings.

Design of Boulders Office Building II began in mid-1985, with tenants first occupying space in May 1987.

F. N. Thompson, Inc. of Charlotte, North Carolina was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS:

(Richmond firms unless noted)

Sigma Development, Inc., landscaping contrac-

tor; David Federer, Atlanta, GA, foundations; Dee Shoring Co., Inc., concrete contractor; Massey Concrete Corp., concrete supplier; Binswanger Glass Co., Inc., stonework supplier, glazing contractor & window wall; SteelFab, Inc., Charlotte, NC, steel supplier & miscellaneous metal; and J. B. Eurell Co., roofing.

Also, Snow Lumber, Charlotte, NC, wood doors; Cook & Boardman, Charlotte, NC, hardware supplier; F. Richard Wilton, Jr., Inc., Ashland, gypsum board contractor; General Tile & Marble Co., Inc., ceramic tile; Acoustics & Interior Construction, Inc., acoustical treatment; V. M. Shepard, painting contractor; Dover Elevator Co., elevator; Dagenhart Sprinkler Co., sprinkler contractor; Colonial Mechanical Corp., plumbing/heating/ventilating/air conditioning contractor; and Alpha-Omega Electric, Inc., Smyrna, GA, electrical contractor.



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Baskervill & Son Architects & Engineers

Owner: Patient First Corporation • Location: Richmond

Project Architect/Designer, Mark S. Lindsey
 • Interior Designer, Interior Planning, Chattanooga, TN • Site Engineer, Hanover Engineers, P.C. • Structural Engineer, McKinney & Walker • Mechanical/Electrical Engineer, Baskervill & Son • Geotechnical Engineer, Schnabel Engineering Associates • General Contractor, Bass Construction Co., Inc. • Photography, James Adcock.

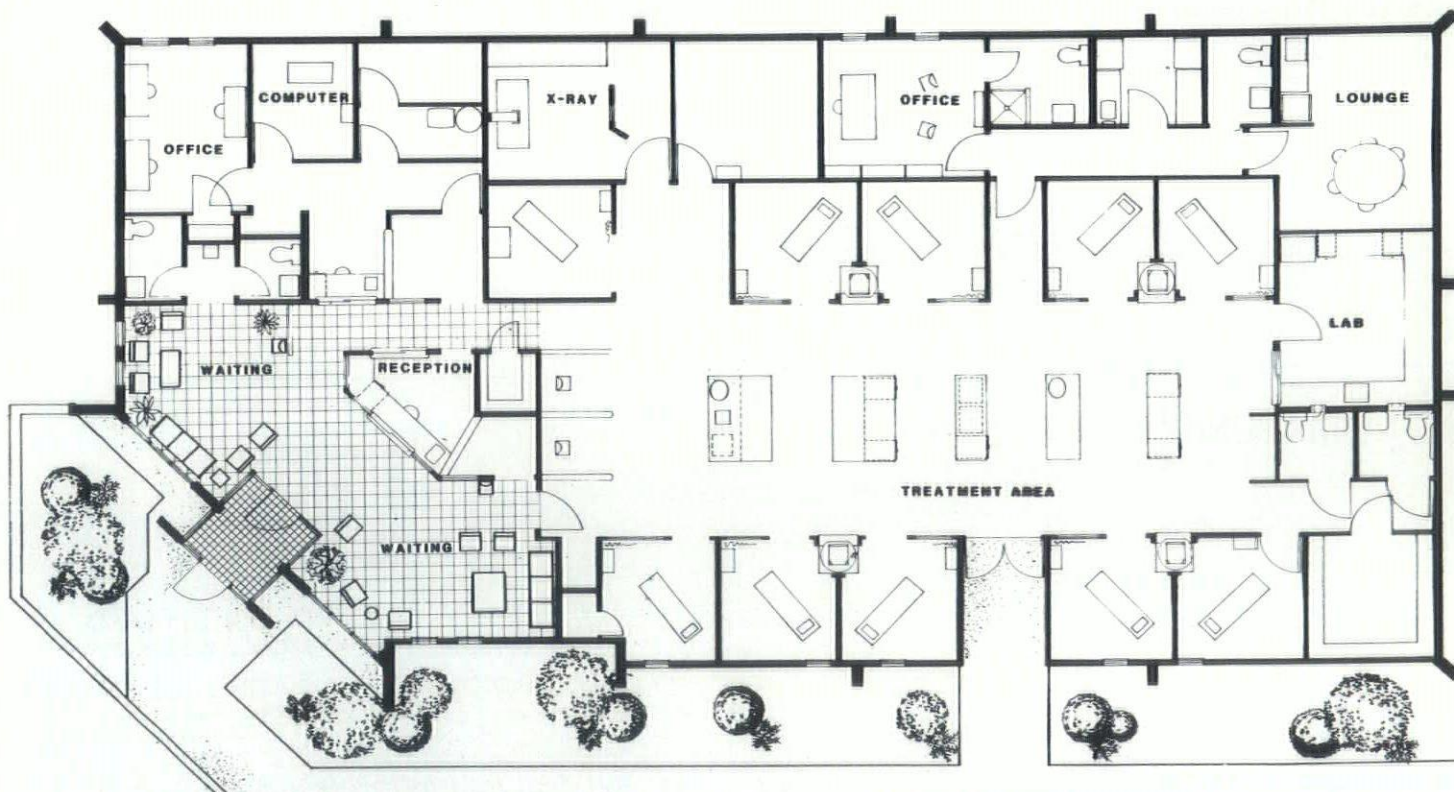


Today's fast paced world has brought upon us many changes in the way today's society works and plays. The person or family on the go has become the norm rather than the exception. Along with these changes, the needs and demands for services and products has also changed. The proliferation of new business to serve these needs can be seen along today's streets and highways.

Views on medical care have also changed in recent years. No longer content to spend hours waiting in a physician's office for an appointment, many are now seeking alternative ways to get fast, efficient and professional medical care. With this in mind, the owner approached Baskervill & Son with the idea of designing a building to embody those ideals.

The first requirement for the new facility was that the new design was to be inviting to the general public. Since much of the business generated by a facility such as this is drive-by traffic, the owner requested that the building be easily recognizable to the casual passerby. Another requirement for the facility was that the general design of the building was to imply fast, warm, friendly and professional care at a reasonable price.

The site, located along a heavily traveled road and in a residential neighborhood, posed many



challenges in creating a 5,000 square foot building that was compatible with its surroundings. It was decided that this could best be handled by lowering the building pad and through the use of materials and colors indigenous to the neighborhood. The exterior is clad in cedar siding and is stained neutral grey. A sloping shingle roof was used to reduce the overall apparent height of the building. Parapet walls at the roof's peaks are used to hide ventilation equipment. The entry is easily recognizable and is defined by a large angled corner and arched windows and doors.

The owner's experience with a previous facility became the basis for developing a plan that was ideally suited for the process in which a patient is received, treated and discharged. The receptionist's station commands a central position in the waiting area. The glass enclosed space permits control over the entire receiving and discharge processes. The patient's medical history is entered on a mini-computer and is transmitted to a video display terminal in one of the eight treatment rooms.

The treatment area is separated from the waiting area by a door for control and privacy. All examining rooms are located along the perimeter of the treatment area and overlook the treatment core. The core was designed to have no walls and only low cabinets. This allows the status of all examining rooms to be determined at a glance from anywhere in the space. Visual communication is enhanced allowing nurses in other areas to know when to lend a hand during busy times.

Laboratory and X-ray facilities also open to the treatment area and are located a few steps away from the examining rooms. Patterned floor tiles reinforce circulation areas and act as visual guides to the various treatment areas. Custom designed casework in the treatment core and in each examining room contain all the necessary items needed during a routine visit. Larger or less used items are kept in nearby storage rooms. Doctor's offices and staff areas are located out of the patient areas for privacy.

Computers are used for practically all phases of a patient's visit. These specialized uses required the design of several pieces of custom casework in order to utilize the computers to the fullest extent. A computer in each treatment room is



shared with the adjacent treatment room and the core area through the use of a rotating carousel/sink unit. From this computer the attending physician may get patient history, previous treatments and computer generated probable diagnoses. Prescriptions for medicine, if needed, are also printed and dispensed at the computer terminal. After treatment, the patient proceeds to the payment area where the bill is generated by computer based on the Doctor's examination, testing and treatment.

Colors are used extensively throughout the building to create a soothing and pleasant environment. Patterned floor tiles creating a "race-track" treatment area assist in providing an efficient means to define circulation and keep things moving at a good pace. Windows allow natural daylight in during the day adding to the overall effect. The building is heavily insulated for energy conservation. Four zoned heat pumps allow the various areas to operate independently of each other.

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

SUBCONTRACTORS & SUPPLIERS

(Richmond firms unless noted)

J. E. Liesfeld Contractor, Inc., Rockville, site work; Massey Concrete Corp., concrete; James River Building Supply Co., Sandston, framing material; T M S Millwork, wood doors, millwork & casework; Manson & Utley, Inc., acoustical ceiling, tile base & carpet; Flowers School Equipment Co., Inc., metal lockers; Triangle Plumbing & Heating, Inc., plumbing; Terminix Engineers, soil poisoning; Capital Masonry Corp., masonry; and Richmond Primoid, Inc., waterproofing.

Also, Allied Glass Corp., glass & glazing; City Wide Decorators, Inc., painting; J. S. Archer Co., Inc., curtains & tracks; Howell's Heating & Air Conditioning, Ashland, HVAC; Bethlehem Steel Corp., re-steel; Hanover Restorations, framing & siding; N. W. Martin & Bros., Inc., roofing; Pleasants Hardware, hollow metal frames & hardware; F. Richard Wilton, Jr., Inc., Ashland, gypsum drywall; James G. Thayer, toilet accessories & fire extinguishers; X-Ray Engineering Co. of Va., Inc., medical equipment; and Enterprise Electric & Instrumentation, Inc., electrical.

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Fair Lakes One

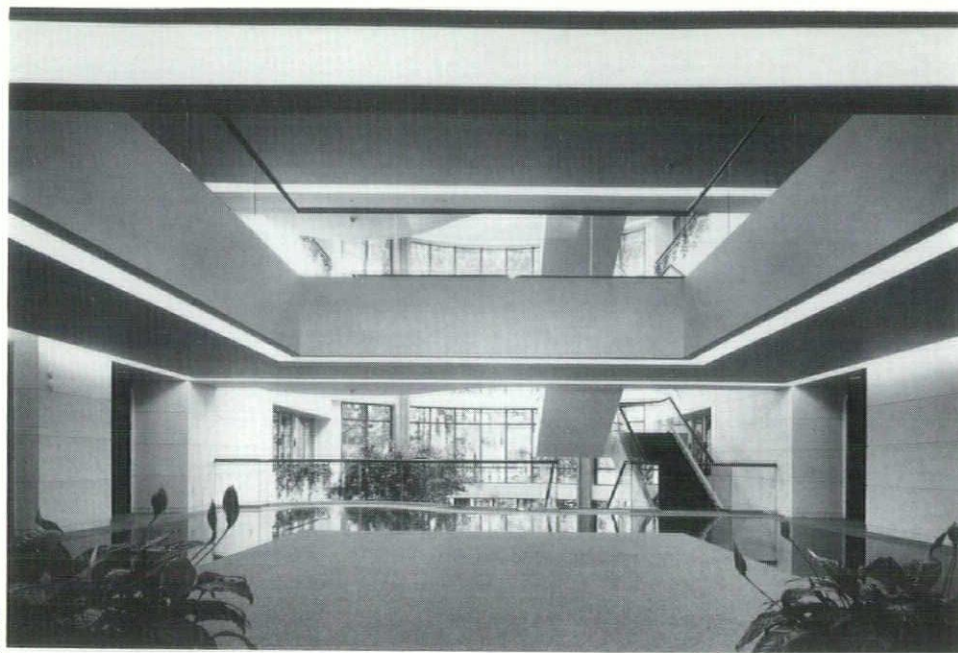
Davis and Carter, P.C.—Architects

Owner: Hazel/Peterson Companies • Location: Fairfax County

Project Architect/Designer, Douglas N. Carter, AIA • Project Director, Hiro Nirmalani • Landscape Architect, Sasaki Associates, Inc. • Interior Design, Davis & Carter, P.C. • Site Engineer/Surveyor, Dewberry & Davis • Structural Engineer, Cagley & Associates • Mechanical/Electrical Engineer, The Office of Lee Kendrick • General Contractor, Omni Construction, Inc. • Photography, Andrew Lautman and Libbie Cullen.



ANDREW LAUTMAN PHOTO



Fair Lakes One is a four-story, 130,000 square foot office building situated in Fair Lakes, a 620-acre office park located at the intersection of I-66 and Route 50 in Fairfax County, under development by the Hazel Peterson Co., Inc. Its location, at the confluence of two major Northern Virginia arteries, gives corporate tenants prime access to the District of Columbia, the surrounding suburbs, and Dulles International Airport.

Fair Lakes One, designed by Davis & Carter, P.C., makes optimum use of its wooded, lake front site. The facility was sited so that trees were preserved on all sides of the building, and exterior materials were selected to accentuate its wooded setting. To provide the maximum number of offices with forest and lake views, the building is shaped like a chevron, or "V", with the point facing away from the 4½ acre lake. The result, a building where 33% of the offices face the water, 66% face the trees, and virtually none face the parking lot.

Exterior materials and detailing include reflective glass, supported by narrow, recessed bands of blue-gray, precast concrete. The glass panels are butt-glazed, creating a seamless facade. The edge-to-edge glass, mirrors the reflection of the surrounding trees back to the viewer, virtually causing the building to "disappear."

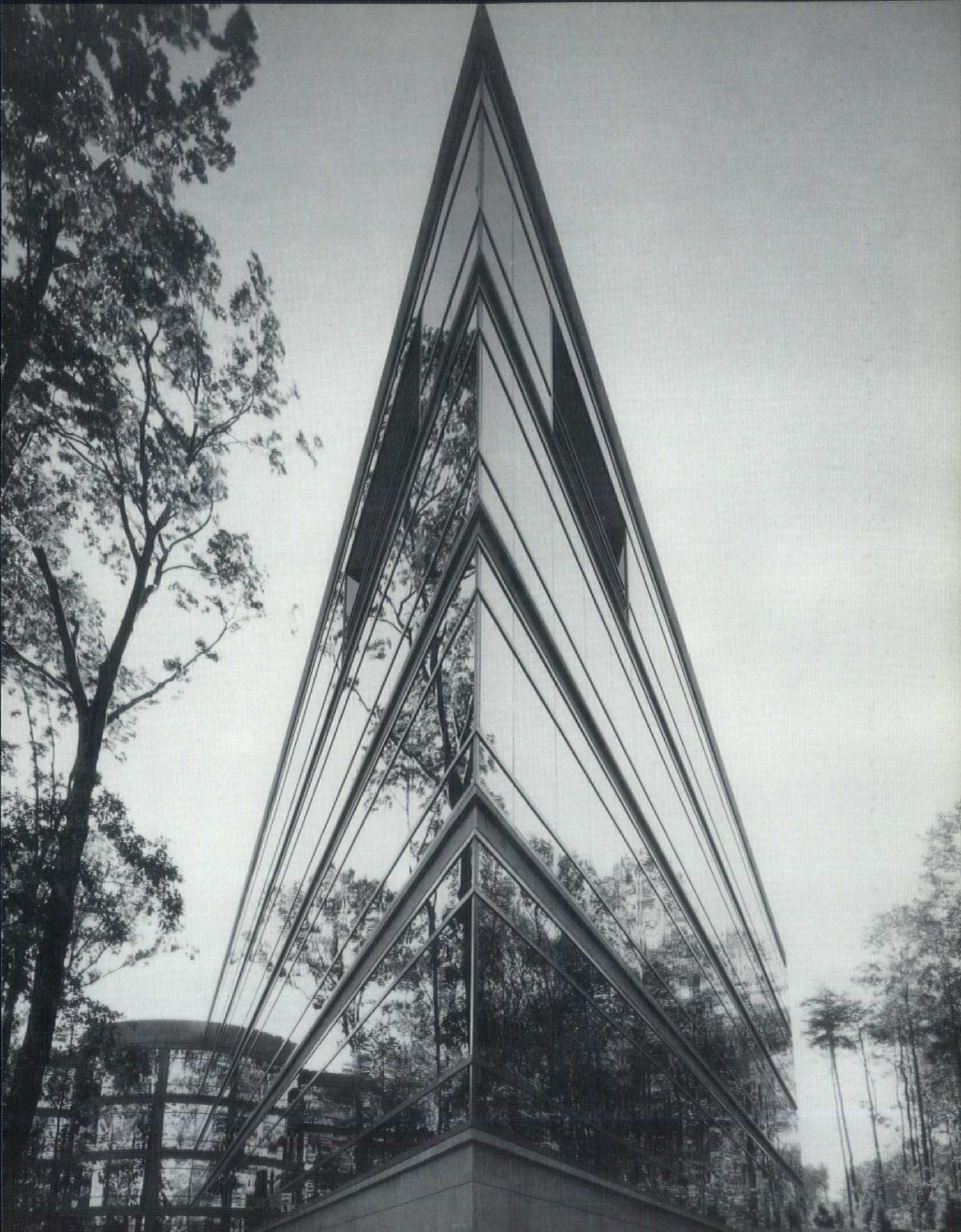
Operationally, each wing has independent metering and control for its electrical and mechanical systems. One of the most interesting features of Fair Lakes One is its water-source HVAC system, a source of energy conservation. Taking advantage of the lake a few feet away, the system extracts heat from the water in winter, and dissipates it from the building during hot weather, using the body of water in the same way heat pumps use heat exchanges.

Interior space planning has produced several outstanding features. The narrow configuration of the building's wings not only creates a greater percentage of perimeter offices, but insures that no work area is more than one room away from a window. 28 x 28 column spacing provides the flexibility for tenants to use partitioned offices or open office systems.

At the center of the atrium is a floating glass-rail staircase, which reaches from the first to the fourth floor, presenting a dramatic view of the interior space from the various levels. From the backside of the "point," this interior atrium space offers a spectacular view of the lake and surrounding mature trees. While high speed elevators are readily available, the view from the stairs is designed to encourage usage between floors.

The building's unique location, site, architecture and design features have made an outstanding







ANDREW LAUTMAN

impression in the real estate market place. At shell completion, the building was 70% leased. The actual completion date was in April of 1986. Fair Lakes One demonstrates, on an 850 acre mixed-usage site, a quality level of architectural design which establishes for Fairfax County and Northern Virginia a design environment second to none.

Omni Construction, Inc. of Bethesda, Maryland was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

William A. Hazel, Inc., Chantilly, excavating & paving contractor; Omni Contractors, Inc., Beth-

esda, MD, foundations, concrete contractor & reinforcing; Carolina Cast Stone Co., Inc., Greensboro, NC, precast concrete; Genco Masonry, Inc., masonry contractor; Northern Virginia Steel Corp., Springfield, steel supplier; Williams Steel Erection Co., Inc., Merrifield, steel erection; Superior Iron Works, Inc., Sterling, miscellaneous metal; and Virginia Roofing Corp., Alexandria, built-up roof.

Also, H. P. Livers, Inc., Kansas City, MO, hand-rails; Architectural Woodworking, Inc., Rockville, MD, carpentry; Caulking Contractor & Suppliers, Inc., Upper Marlboro, MD, caulking; TSI Industries, Landover, MD, glazing contrac-

tor; Swingin' Door, Inc., Rockville, MD, metal doors, frames & wood doors; WBH, Inc., Arlington, TX, hardware supplier; National Applicators, Inc., Capitol Heights, MD, gypsum board contractor; Boatman & Magnani, Inc., Capitol Heights, MD, ceramic tile; Boding Flooring, Inc., Elicott City, MD, resilient tile & carpet; Bryan & Associates, Inc., Edmonston, MD, painting contractor & wallcovering; Dover Elevator Co., College Park, MD, elevator; Worsham Sprinkler Co., Inc., Ashland, sprinkler contractor; James A. Federline, Inc., Gaithersburg, MD, plumbing/heating/ventilating/air conditioning contractor; and J. M. Martin, Inc., Fairfax, electrical contractor.

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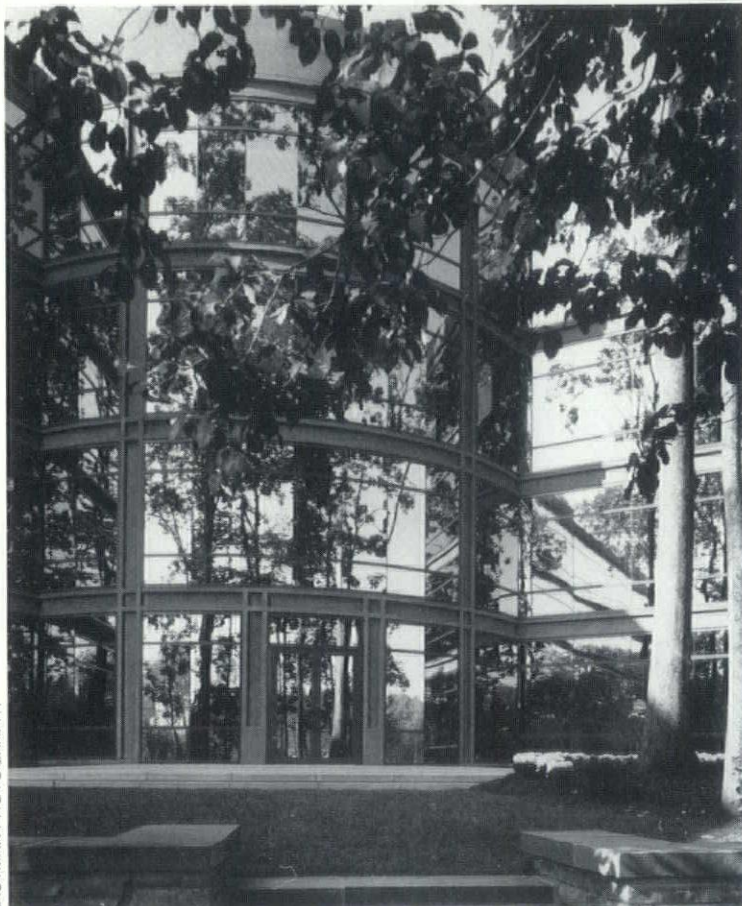
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Keeney & Company, Architects

Owner: Jones Motor Car Company, Inc. •
Location: Richmond

Principals in Charge, James Scott Rawlings, FAIA, Thomas A. Gannaway III, AIA and James T. Rice, AIA • Interior Design, The Architects • Mechanical Engineer, Simmons, Rockecharlie and Prince, Inc. • Structural Engineer, St. Clair, Callaway and Frye, Inc. • Site Engineer, Foster and Miller, P.C. • General Contractor, Kenbridge Construction Co., Inc. • Photography, Rawlings and Wilson, Architects.

The owner of Richmond's sole Cadillac Dealership especially requested a building that would reflect the quality of his product with particular attention to a dramatic entrance. The large structure for display of new models was also to serve as a shield for the simple utilitarian structure housing service areas at the back.

The program required a large sales and an equally large service area on one floor with proper separation of the two activities while encouraging all customers to view the new automobiles. It demanded easy and quickly apparent circulation to direct customers to the various components: new car sales, used car sales, servicing, parts, body work, and painting, as well as the provision of space for washing and storing of new cars and display of both new and used cars.

The architects chose a structure (primarily of glass for the display portion) entered through a

barrel-vaulted porte cochere in which the vault with a skylight continues over the enclosed sales area. Large wood fluted Tuscan columns supporting the vault are recalled at the corners of the building by detached fluted cylinders of aluminum.

The use of skylights in all of the service areas affords daylight in otherwise windowless areas. The parts department, body shop, and paint booth each have their separate entrances and circulation. A large roofed, heated, and brightly lit drive-through space separates the display building from the service building. The glassed-in office of the Service Manager is placed high above the floor to give him an unobstructed view of the entire service area.

Colors throughout the exterior and interior of the building are muted—consisting mostly of gray, silver, and black—in order that the bright colors of the cars themselves can be the focus of





attention. Signs follow the same criteria and planting has been kept simple and low to permit full view of the automobiles.

New cars are also grouped on large exterior paved areas adjacent to the building's higher elevation.

The display building is a steel structure with a single-ply membrane roof while the service building has a pre-engineered rigid frame structural system with a standing seam metal roof. Gas fired infrared heaters are used in the service area along with a heat recovery system to transfer heat from the exhausted air to the entering air. Special high-efficiency corrected-color-rendering light fixtures are employed in the new car display area to allow the true colors of the automobiles to be seen at night.

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

SUBCONTRACTORS & SUPPLIERS

(Richmond firms unless noted)

W. E. Duke & Sons, Inc., Glen Allen, sitework; Terminix Engineers, termite control; Forge Fence Co., Providence Forge, chain link fencing & gates; Laird's Nurseries, Inc., Glen Allen, planting shrubs; Old Dominion Masonry, Ashland, masonry; A. Bertozzi, Inc., insulation, exterior insulation & finish systems & gypsum drywall; N. W. Martin & Bros., Inc., flexible sheet roofing, sheetmetal & flashing & roof accessories; E. S. Chappell & Son, Inc., joint sealer; J. S. Archer Co., Inc., overhead coiling doors & sectional overhead doors; Equipment Systems, Inc., Mechanicsville, flexible door curtains; H. E. Satterwhite, Inc., tile; Suburban Floors, Inc., acousti-

cal ceilings & resilient flooring; and Costen Floors, Inc., wood flooring.

Also, Kenbridge Manufacturing & Supply Co., Inc., Kenbridge, carpeting; Glidewell Brothers, Inc., painting & vinyl wallcovering; Paris Shade Shoppe, Inc., window treatment; Kenbridge Building Systems, Inc., pre-engineered building; Dagenhart Sprinkler Co., sprinkler; J. W. Kyte Co., Inc., mechanical; W. C. Lang & Son Electric Co., Inc., electrical; Engineering Sales Corp., Blountville, TN, hollow metal; ReSteel Services

& Products Corp., reinforcing steel & accessories; Hercules Steel Co., Inc., Jarratt, structural steel, steel joist, metal decking & metal fabrication; Woodworking Specialist Co., architectural woodwork/wood doors; J. S. Archer Co., Inc., builders hardware; James G. Thayer, toilet partitions; Sign Graphics, Inc., specialty signs; Roanoke Engineering Sales Co., Inc., wire mesh partition, toilet accessories; Lone Star Industries, Inc. (now Tarmac-LoneStar, Inc.), ready mix concrete; and Concrete Pipe & Products Co., Inc., concrete masonry units.



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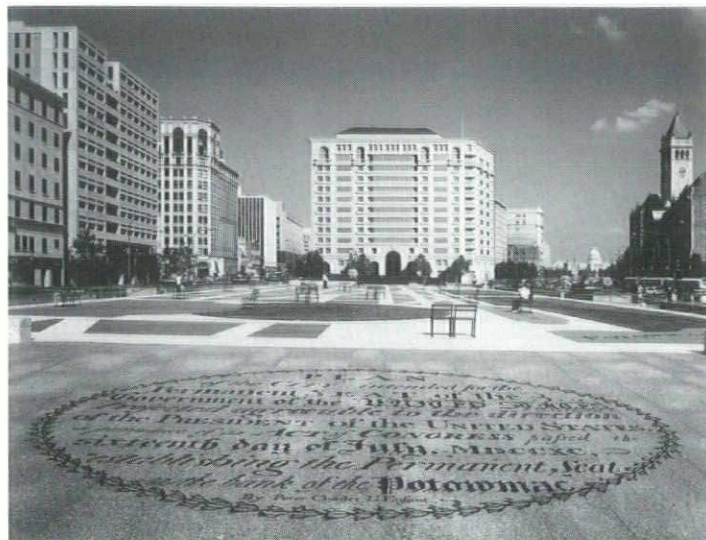
Smith Segreti Tepper McMahon Harned, Architects & Planners, P.C.

Owner: Willco Construction Co., Inc. • Location: Washington, DC

Project Architect/Designer, Robert Calhoun Smith, FAIA • Site Engineer/Surveyor, Bernard F. Locraft • Structural Engineer, Allison McCormac & Nickolaus • Mechanical/Electrical Engineer, Silver Associates • Subsoil Investigations, Schnabel Engineering Associates • General Contractor, Willco Construction Co., Inc. • Photography, F. Harlan Hambright & Associates

1275 Pennsylvania Avenue, currently under major renovation, is a 30-year-old, 13 story office building on Pennsylvania Avenue at Western Plaza. The 236,000 square foot building's basic structure is a flat-plate concrete frame and floor system which is in excellent condition. However, the building has outlived the useful life of most of its systems and the exterior appearance was not consistent with the quality of design prevalent along Pennsylvania Avenue. Willco Construction Co., Inc. contracted the firm of Smith Segreti Tepper McMahon Harned to strip the building frame of all its component parts, including the exterior skin, elevators, and mechanical systems, and offer to the public a completely redesigned modern office building which achieves the goals of the development team and the Pennsylvania Avenue Development Corporation.

The building will be clad in Alabama limestone and is designed to blend harmoniously into the historical character of surrounding older buildings and Western Plaza. At the same time, careful attention has been paid in the



design of the Pennsylvania Building to ensure that it is seen as a modern endeavor as well as an historical one.

The limestone is heavily rusticated at the first three floors of the building, above a thermal finished granite base, and features two-story arched

(Continued on page 66)

2001 M Street, N.W.

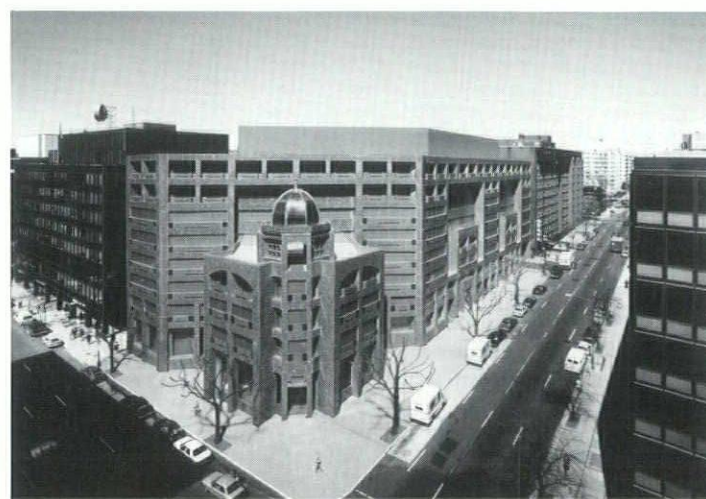
Smith Segreti Tepper McMahon Harned, Architects & Planners, P.C.

Owner: Willco Construction Co., Inc. • Location: Washington, DC

Project Architect/Designer, Robert Calhoun Smith, FAIA • Site Engineer/Surveyor, Bernard F. Locraft • Structural Engineer, Allison McCormac & Nickolaus • Mechanical/Electrical Engineer, Silver Associates • Geotechnical Engineer, Schnabel Engineering Associates • General Contractor, Willco Construction Co., Inc. • Photography, F. Harlan Hambright & Associates

2001 M Street Office Building is designed to transform the intersection of 20th & M Streets into one of the important corners in the urban plan between Connecticut Avenue and Georgetown. The building is a nine-story office and retail structure for Willco Construction Co., Inc. and contains office, retail and two levels of below grade parking, with a gross building area of approximately 325,000 S.F.

The site is the last to be developed at the intersection of 20th & M Streets. The three other corners contain office buildings fully built out to the property line for the full height of the building. Smith Segreti Tepper McMahon Harned approached the building massing in a different manner. The building is designed at maximum zoning height and area limits, and the remaining massing deductions were used at the corner. A diagonal concourse, protected retail space, and the nine story building mass, diagonally pulled back from the corner, distinguish this corner from the others in the Washington, D.C. Central Business District.



Smith Segreti Tepper McMahon Harned, in designing 2001 M Street, has varied the exterior walls not only to add human scale and visual interest to the building as seen from the street, but also to provide for an assortment of unique office shapes on the interior.

The nine-story facade is proportionately divided into three, six-story building forms. The 20th & M Street corner building serves as a rotation

(Continued on page 66)

1001 Pennsylvania Avenue, N.W.

Smith Segreti Tepper McMahon Harned, Architects & Planners, P.C.

Owner: Cadillac Fairview Urban Development Co., Inc. • Location: Washington, DC

Associated/Consulting Architect, Hartman-Cox Architects • Historical Architect, Oehrlein & Associates • Project Architect, Thomas F. Tepper, AIA • Site Engineer/Surveyor, Bernard F. Locraft • Structural Engineer, KCE Structural Engineers • Mechanical/Electrical Engineer, Shefferman & Bigelson • Geotechnical Engineer, Mueser, Rutledge, Johnston & Desimone • Concrete Testing, Kidde Consultants • General Contractor, George Hyman Construction Co. • Photography, F. Harlan Hambright & Associates.

Smith Segreti Tepper McMahon Harned, in association with Hartman-Cox Architects and the Pennsylvania Avenue Development Corporation, has completed the design, construction documents and construction phases of an office building and historic preservation project nearing completion of tenant fit-up work at 1001 Pennsylvania Avenue, N.W., Washington, D.C. for Cadillac Fairview Urban Development, Inc.

This building is the largest speculative single office building in Washington, D.C., containing 1,100,000 square feet of office and retail space, off-street loading and three levels of underground parking for over 400 cars. The building structure is poured-in-place reinforced concrete. The mechanical system is variable air volume with individual perimeter office thermostats.

The building entranceways provide pedestrians with access from all four sides of the site, which encompasses one full block in downtown Washington, D.C. Two-story granite and limestone arcades with canopies, plaster archways, and vaults, welcome building tenants and visitors to the two-story concourses, which are paved in gleaming green and white Italian marble; the same marble is used on the intricately detailed walls. Tuscan columns and a barrel-vaulted domed ceiling set a dramatic stage for the focal point of the complex—the central octagonally-shaped Atrium placed at the intersection of the concourses. This Atrium is 500 square feet and rises seven stories with sensitive detailing, such as marble floor patterns, plaster cornices and colonnades, bronze metal railings and superior lighting design at the articulated dome oculus. Office space contiguous to the Atrium has visual contact with the Atrium through various sized windows and colonnades, thereby imparting a "special ambiance" to the tenants' work place.

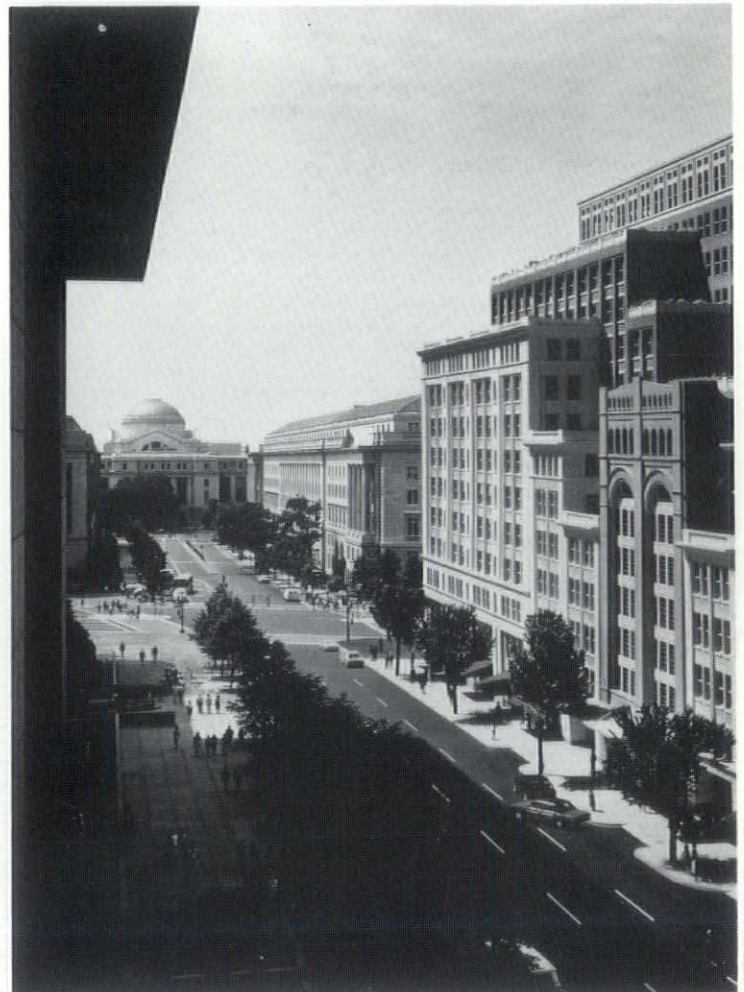
The building has 14 floors above ground (the maximum height allowed by Pennsylvania Avenue Zoning). Office floors range in size from 29,000 square feet to 70,000 square feet and have been designed for maximum tenant efficiency and convenience. The latest technology in life safety, fire suppression and energy management systems have been included.

1001 Pennsylvania Avenue's exterior is divided into what appears to be three horizontal tiers. The first tier, limestone with a granite base, designed to complement the Pennsylvania Avenue "Federal style" and materials of the preserved facades, creates a backdrop for the unique collection of high quality retail shops that will open onto the surrounding streets. The second tier, recessed some 20 feet back from the first, is a multi-storied wall of brick and limestone. Finally, at the top of the building, a third tier composed of brick with limestone cornice is set back another 20 feet from the second.

Twenty and 30-foot wide terraces on the 11th and 13th floors extend the breadth of the Pennsylvania Avenue frontage and offer unparalleled views of the seat of government in Washington, D.C. Other smaller terraces at

various floors fronting on 10th, 11th and E Streets, create an exterior ambiance never before offered in Washington. The paved and landscaped terraces are to be utilized by the tenants rather than be treated as inaccessible roofs.

(Continued on page 67)



1275 Pennsylvania Ave., N.W. (From page 64)

openings with storefront and tenant entrances. The facade curves at the southwest corner of the building and contains private balconies with stone balustrade rails from floors three through twelve. Private balconies also occur at the twelfth floor along the three faces of the building. Limestone beltcourses occur at floors three and twelve, and the limestone cornice at the roof aligns with the neighboring building's cornice (1201 Pennsylvania Avenue), which was a design requirement of the Pennsylvania Avenue Development Corporation in an effort to unify the Avenue's skyline. A stone balustrade encircles the top of the building.

1275 Pennsylvania Avenue, when seen from Western Plaza, has a three story arched opening at the main entrance with two story arched opening entrances on either side. These entrances lead into an outer lobby, which consists of a three story, sand finished, plaster vault with a limestone arch bounded on either side by two-story vaults, divided by limestone piers. Through the vaulted passageways is the foyer, a one-story, mahogany paneled space with polished brass reveal and a perimeter lighting core. This leads to the elevator lobby, which also has a vaulted ceiling, and contains a perimeter core for lighting. Features of the elevator lobby include polished brass elevator doors, granite elevator jambs and fascia surrounding the doors, and wood paneled walls. The entire lobby is floored in thermal finished granite with polished granite used for a border and includes a floor pattern design in the foyer.

The penthouse features a sloped, clay tile roof. The mechanical equipment was replaced and relocated to the enlarged penthouse. It previously was contained within the building, including the cooling tower.

2001 M Street, N.W. (From page 64)

point to the diagonal nine-story office form behind. The exterior of the building is finished in Carmen Red polished granite for the major material and Imperial Brown polished granite accent panels, and bronze tinted glass.

The sloping site provides the opportunity for two levels of pedestrian entrance to the building. The M Street entrance is characterized by a diagonal pedestrian concourse which allows direct access to lower level retail space as well as providing a distinct separation of a four story structure on the corner.

The retail concourse of the building on M Street is an outdoor two-story space recessed under the building to maximize the retail frontage at grade. There are large glass areas and brick paving throughout the space, which encompasses high frontage retail areas along 20th Street. A branch of the U.S. Post Office will occupy half of the north retail space on 20th Street and has special loading dock requirements.

Of special note in the design of 2001 M Street is the Main Entrance Lobby at the midpoint of 20th Street, actually the second story of the building. It is a two-story space with a balcony running along the third story elevator lobby, overlooking the main entrance. The lobby has a three-colored marble floor pattern and three different types of wall granite. Elevator doors are bronze clad at the second and third levels, with granite frames. Planned for the lobby are two bronze fountains, one on each side upon entering, which are being designed and constructed by sculptor Miles Stafford Rolph of Alexandria, Virginia. The ceiling of the lobby will have recessed incandescent lighting, specially designed by Claude Engle Associates.

At the sixth floor roof terrace there is a domed outdoor rotunda on the 20th & M corner building. This feature which will be constructed of granite and stone, with special lighting by Claude Engle Associates, and will be accessible from the interior of the building. The dome will be constructed of copper, further contrasting this building to the massing on the other three corners of the intersection. Other design features of the building are private balconies at the fifth, eighth and ninth floors.

Five, 3,500 pound capacity, electric traction geared elevators serve the project. Elevator cabs have marble floors and walls to complement the main lobby. Satin bronze panels constitute the front panel. One cab has rear opening doors at each floor for service functions.

For tenant flexibility, a hydronic heat pump system provides heating and air conditioning to the project. An electric boiler, system pumps, plate heat

The new design of the building went through extensive review and received the enthusiastic approval of the Pennsylvania Avenue Development Corporation, the Fine Arts Commission, and the District of Columbia Board of Zoning Adjustment.

Willco Construction Co., Inc., of Potomac, Maryland was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

L.E.B., Inc./Demo of DC, Inc., Washington, DC, demolition; Potomac Concrete Construction Co., Arlington, concrete work; Hess Mechanical Corp., Bladensburg, MD, HVAC; Krick Fire Protection Systems, Inc., Hyattsville, MD, sprinklers; E.M.C., Gaithersburg, MD, electrical; Tile and Masonry Crafts, Inc. (subsidiary of R. Bratti Enterprises), Alexandria, masonry; R. Bratti Associates, Inc., Alexandria, stonework; Northern Virginia Steel Corp., Springfield, structural steel; Beta Construction Co., Forestville, MD, roofing & sheetmetal; Davenport Insulation, Inc., Springfield, insulation; and Swingin' Door, Inc., Rockville, MD, hollow metal & wood doors.

Also, Glass Systems, Inc., Columbia, MD, glass & glazing; James A. Cassidy Co., Inc., Beltsville, MD, windows; Armor Elevator Co., Inc., Brentwood, MD, elevators; SWG, Inc., Baltimore, MD, fire extinguishers; Contract Hardware, Rockville, MD, finish hardware; National Applicators, Inc., Capitol Heights, MD, drywall & acoustical ceilings; Washington Stair & Iron, Washington, DC, tenant miscellaneous metal; and Power Dynamics Corp., energy management.

exchanger, heat storage tank, cooling towers and emergency generator, are located on the rooftop penthouse. The building is fully sprinklered in compliance with required Building Codes.

Willco Construction Co., Inc. of Potomac, Maryland was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

Schnabel Foundation Co., Bethesda, MD, sheeting/shoring; L.E.B., Inc., Washington, DC, demolition; Hutchinson Brothers Excavating Co., Inc., Capitol Heights, MD, excavation; Metro Grading, Lanham, MD, storm drains & site utilities; Potomac Concrete Construction Co., Arlington, concrete work; Beta Construction Co., Forestville, MD, waterproofing, roofing & sheet metal; Hess Mechanical Corp., Bladensburg, mechanical; Chesapeake Sprinkler Co., Glen Burnie, MD, sprinklers; and T. A. Beach Corp., Rockville, MD, electrical.

And, Tile & Masonry Crafts, Inc. (subsidiary of R. Bratti Enterprises), Alexandria, masonry; R. Bratti Associates, Inc., Alexandria, stonework, ceramic tile & marble; Architectural Woodworking, Inc., Rockville, MD, carpentry & millwork; Davenport Insulation, Inc., Springfield, insulation; Construction Systems, Inc., Seat Pleasant, MD and Washington Stair & Iron, Washington, DC, miscellaneous metal; Swingin' Door, Inc., Rockville, MD, hollow metal & wood doors; Glass Systems, Inc., Columbia, MD, glass & glazing; and Armor Elevator Co., Inc., Brentwood, MD, elevators.

Also, Klon O. Row, Inc., Rockville, MD, toilet partitions & accessories; SWG, Inc., Baltimore, MD, fire extinguishers; Overhead Door Co. of North Washington, Beltsville, MD, overhead doors; Trashmasters, Inc., Forestville, MD, mailbox or chutes; Contract Hardware, Rockville, MD, finish hardware; National Applicators, Inc., Capitol Heights, MD, lath & plaster, drywall & acoustical ceilings; Watrous, Inc., Bensenville, IL, special equipment; and Power Dynamics Corp., Landover, MD, energy management.

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1001 Pennsylvania Ave., N.W. (From page 65)

In 1980, the project was cited as the Washington Chapter AIA Historic Preservation award winner for excellence in design. This project received PADC approval and the date of base building completion was late 1986.

George Hyman Construction Company of Bethesda, Maryland was general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

Phase 1 firms were: Alumax, Magnolia, AR, tenant aluminum frames; Avon Tile Co., Inc., Rockville, MD, ceramic tile; Carpet Showcase, Waldorf, MD, carpet/vinyl; Commercial Roofing & Sheet Metal Co., Inc., Cheverly, MD, flashing; Custom Art Metals, Inc., Barrington, NJ, ornamental metal; Door Systems, Inc., Lorton, rolling grilles; Jewell Cleaning, Alexandria, window cleaning; Marvaco, Inc., Fairmont Heights, MD, excavation; Maryland Drywall Co., Inc., Rockville, MD, acoustical/drywall; Material Distributors, Inc., toilet accessories; Monumental Construction, Washington, DC, molded plaster; Neekoosa Contracting Corp., Forestville, MD, landscape; Pel (Architectural) Products, Inc., Beltsville, louvers, expansion joints; E. Royster & Co., Silver Spring, MD, millwork; Schultz & Mellits, Bowie, MD, fire extinguisher cabinets; W. A. Smoot Co., Alexandria, wood windows; Steel Products, Inc., Rockville, MD, steel lockers; Sun Controls, Bethesda, MD, canopies & horizontal blinds; Superior Iron Works, Inc., Sterling, miscellaneous metal; Swingin' Door, Rockville, MD, base building wood doors; Trashmasters, Forestville, MD, postal specialties; and Wrecking Corp. of America, Alexandria, demolition.

Phase 1 & 2 firms were: Barretto Granite Corp., Milford, NH, granite supplier; Bethlehem Steel Corp., Baltimore, MD, rebar; Contract Hardware, Rockville, MD, hardware; Dover Elevator Co., College Park, MD, elevator; Firedoor Corp. of Fla., Miami, FL, hollow metal; The Howard P. Foley Co./VISTA Construction, Inc., Alexandria, electrical; Peter Gordon Co., Capitol Heights, MD, roofing & waterproofing; Greenwald Industrial Products, Hyattsville, MD, toilet partitions; HRW Systems, Inc., Bladensburg, MD, precast; Harding & Cogswell, Bedford, IN, limestone; Hohmann & Barnard, Alexandria, limestone hardware; Kastle Systems, Arlington, security; Edward W. Minte Co., Inc., Washington, DC, painting; MX Marble & Granite Ltd., Montreal, Quebec, marble; Pierce Associates, Inc., Alexandria, mechanical; Potomac Valley Brick, Rockville, MD, brick; Roanoke Engineering Sales Co., Inc., McLean, revolving doors; Stam Berman, Baltimore, MD, windows, glazing & storefront; and Super Concrete, Washington, DC, concrete supplier.

Phase 2 firms were: Alenco, Bryan, TX, window supplier; James A. Cassidy Co., Inc., Beltsville, MD, historic storefront & windows; Cristar, Vienna, rolling grilles; Dove Toilet Accessories, Washington, DC, toilet accessories; John Driggs Co., Inc., Capitol Heights, MD, excavation; McMahon Door

& Erection Co., Inc., Beltsville, MD, window installation; Milestone Industries, Washington, DC, miscellaneous metal; Otto Nachlos, Houston, TX, wood doors (base bldg.); National Glass of Maryland, Inc., Beltsville, MD, storefront & mirrors; and Standard Acoustics, Inc., Washington, DC, drywall.

Others were: Schad Engineering, Inc., Plymouth, MN; Executone/Atlantic, Inc., Gaithersburg, MD; Division Two, Inc., Denton, MD, dewatering; Ernest Maier, Inc., Bladensburg, MD, CMU; and United Materials & Services, Inc., Manassas, CMU/scored block.



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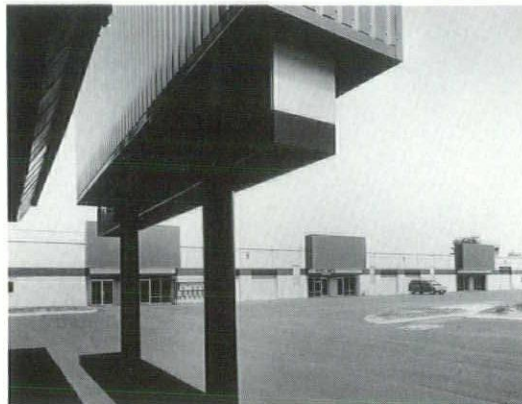
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Belt Trade Center

Campbell Architecture & Design

Owners: Richard T. Hood, AIA and Stuart Butler • Location: Richmond

Project Architect/Designer, Mark C. Campbell, AIA • Site Engineer/Surveyor, Michael P. Mozingo, P.E. • Structural Engineer, Raymond Elliot, P.E. • Mechanical/Electrical Engineer, Colonial Mechanical • Color, Joseph S. Shifflett • General Contractor, J. Kennon Perrin Construction Co., Inc. • Photography, Robert Zeigler.



The exodus of a car dealership to the suburbs provided an inner city renovation opportunity on Belt Boulevard in Richmond. While the vacated facility was suitably sized for a retail, office/warehouse complex, its shape was clearly that of a facility for selling automobiles. The Belt Trade Center development team faced the problem of housing 21 separate tenant spaces within what used to be a distinctive showroom, offices, and automobile repair facilities.

Of primary concern to the architects were the issues of individual tenant identification and unification of building elements into a recognizable whole. The owner recognized that low development costs were essential to be competitive in the rental market. Rather than covering or reshaping the existing building with expensive architectural materials, the team decided to reduce costs by concentrating on simple construction forms such as door coverings, signage and paint.

Bright marquees, white sign panels, a burgundy stripe, and background paint were selected as elements for the solution.

As in most office warehouses, entrances in Belt Trade Center were paired for efficiency. Each paired entrance was covered with a marquee. The marquees' large size and bright color were selected to act as a compositional balance to the large background building. The marquees also denote and protect the entrances and support signage. Against the vertical rhythm of the marquees, a traditional horizontal warehouse stripe has been used to both bind the marquees visually and to create a horizontal axis for the signage.

The colors, a shifted triad of red-orange, red-violet, and blue-green, were chosen from manufacturer available colors of corrugated metals and vinyl stick-on lettering. Earth berming was used to block large areas of unused asphalt from the view of passing motorists.

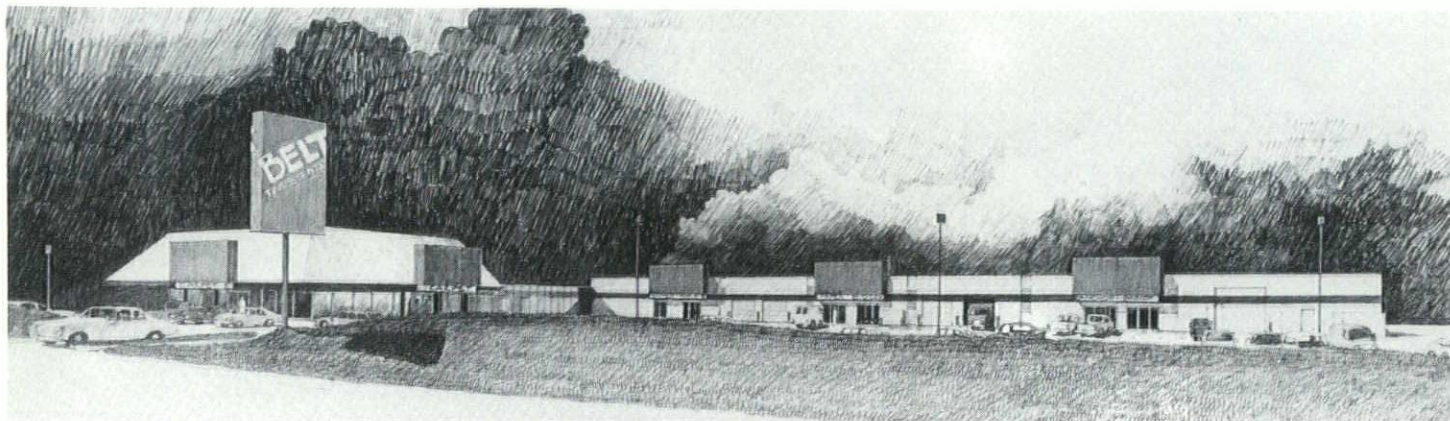
J. Kennon Perrin Construction Co., Inc. of Richmond was general contractor and handled foundations, concrete work, steel erection, and carpentry.

SUBCONTRACTORS & SUPPLIERS:

(Richmond firms unless noted)

Payne Asphalt Paving, Inc., excavating; Lee-Hy Paving Corp., paving contractor; Tidewater Materials Corp., concrete supplier; Concrete Pipe & Products Co., Inc., concrete masonry units; J. Carrington Burgess Masonry Contractor, Inc., masonry contractor; Browning Steel Co., steel supplier; Willard L. Council Roofing Inc., roofing; and Hanover Fabricators, Ashland, structural wood.

Also, Richmond Metal Fabricators, Inc., sign panels; MBI/Metal Building Components, Inc., Atlanta, GA, sheet metal; Perkins & Glass, Inc., Sandston, glass, windows & storefront; Pleasants Hardware, metal doors & frames, wood doors & hardware supplier; Newbridge Construction, Ashland, gypsum board contractor; Manson & Utley, Inc., acoustical treatment & resilient tile; Cavalier Flooring Systems, carpet; T. F. Frick & Co., painting contractor; Duron Paints & Wallcoverings and duPont, paint manufacturers; Talley Neon & Advertising Co., lettering & signage; and Colonial Mechanical Corp., plumbing/heating/ventilating/air conditioning/electrical contractor.



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Electronic Systems Office Building

Architecture by Gerald F. Martin

Owner: William Kamarak • Location: Virginia Beach

Project Architect/Designer, Gerald F. Martin, AIA • Landscape Architect, London Bridge Greenhouses & Nursery • Site Engineer/Surveyor, Miller Stephenson • Structural Engineer, Lewis H. Bridges, Jr., P.E. • Mechanical Engineer, Aircon Ltd. • Electrical Engineer, L. E. Ballance • Geotechnical Engineer, ATEC Associates, Inc. • General Contractor, Whitfield/Gee Construction Co., Inc.

The Electronics Systems Office Building, owned by William Kamarak, was the first building to be designed and built in the Southport Business Park, an office development by Monarch, formerly DREDEVCO Incorporated, of Virginia Beach. The building is located on a 1.12 acre site that is visible from the Virginia Beach-Norfolk Expressway near Mount Trashmore in Virginia Beach.

Electronic Systems, Incorporated, a major typewriter, copier and word processing sales and service company, had a varied list of program requirements. The space accommodates the company's administrative offices, offices for sales staff, work space for service personnel, training classrooms and work space for purchasers of their office machine systems, and a somewhat larger than normal office space requirement for storage of replenishing stock items and parts. Consequently the owner occupies the entire first floor and a portion of the second floor of the building. The balance of the second floor is completely leased space that is currently occupied by several smaller tenants.

The two-story structure that is made up of alternating horizontal bands of iron spot reddish-orange brick masonry, with matching mortar, and butt-glazed black reflective glass, is interrupted by an open two-story exterior entry. The

entry is accentuated by two cylindrical brick masonry columns that are in the foreground and detached from a second floor balcony. Access to the second floor balcony is gained through an exterior stair that is within a brick enclosure extending up past the regular parapet height and across the roof. This enclosure screens the rooftop mechanical units from view of the adjacent interstate traffic.

The stair within the skylit masonry enclosure is encased in reflective glass that matches the reflective glass bands of the building. Encasing the stair railings and stair bottom in glass creates a sculptural element out of a very standard building element that can be viewed as a person exits the building at ground level or steps out onto the second floor balcony.

Whitfield/Gee Construction Co., Inc. of Virginia Beach was general contractor and handled foundations and carpentry.

SUBCONTRACTORS & SUPPLIERS

Other firms from Virginia Beach were: Virginia Builders, Inc., excavating; London Bridge Greenhouses & Nursery, landscaping materials & landscaping contractor; Asphalt Roads & Materials Co., Inc., paving contractor; Eastman Corp., masonry contractor; Architectural Products of Virginia, hardware supplier; Colorways, ceramic tile, resilient tile & carpet; Clement's Paint & Wallpaper, painting contractor & wall covering; Glidden Paint & Wallcovering Store, paint supplier/manufacturer; and Schell Supply Corp., plumbing fixture supplier.

From Chesapeake were: Oliver Jacobs Construction Corp., concrete contractor; Old Dominion Steel Co., Inc., steel erection; Burton Lumber Corp., millwork, cabinets & wood doors; K & P Caulking Co., Inc., caulking; Binswanger Glass Co., glass, glazing contractor & storefront; Old Dominion Drywall, gypsum board contractor; Arrowhead, acoustical treatment; Aircon, Ltd., heating/ventilating/air conditioning contractor; and L. E. Ballance Electrical Service, Inc., electrical contractor.

And, from Norfolk were: Hall-Hodges Co., Inc., reinforcing; Batchelder & Collins, Inc., masonry supplier; Virginia Carolina Steel, Inc., steel supplier & miscellaneous metal; Roof Engineering Corp., roofing & roof insulation; Otis Elevator Co., elevator; and S & M Plumbing, sprinkler contractor & plumbing contractor.



M & G Electronics Manufacturing Facility

Architecture by Gerald F. Martin

Owner: M & G Electronics • **Location:** Virginia Beach

Project Architect/Designer, Gerald F. Martin, AIA • **Site Engineer/Surveyor,** Waterway Surveys & Engineering, Ltd. • **Structural Engineer,** Lewis H. Bridges, Jr., P.E. • **Mechanical/Electrical Engineer,** Tidewater Engineering • **Geotechnical Engineer,** ATEC Associates • **General Contractor,** Rilee Construction Co. of Virginia, Inc.

The M & G Electronics Company Manufacturing facility is located on a 6.37 acre site within the Oceana West Industrial Park in the rapidly developing Lynnhaven Parkway corridor in the Lynnhaven section of Virginia Beach.

The basic program required by the owner, Mr. Mark Garcea, was for a 60,000 square foot light industrial facility that would house his company's offices, approximately 9,600 square feet; and manufacturing and warehouse facilities, approximately 40,600 square feet. The manufacturing area has capability to be increased by 33% through the addition of mezzanine levels. The building program also allowed for a portion of the building to be leasable office/warehouse space, 9,300 square feet.

The industrial/warehouse program logically dictated a very open and basically square plan. The added requirement for a high ceiling in the manufacturing and warehouse areas, and some mezzanine level office spaces, lent the method of construction to a pre-engineered steel rigid frame building structure. The cost savings from this type of structural system allowed for some more creative and varying uses of exterior finish materials. The use of various materials on the exterior, specifically fiberglass reinforced stucco, glazed masonry units, and reflective glass, create a structure far from that of a typical manufacturing facility. The requirement that this manufacturing facility not have an industrial appearance was one that was shared by both the owner and the architect, as well as the Industrial Development Division of the City of Virginia Beach.

The basically square plan and large massing of the building is interrupted by the recessing and angling of the walls at entries, in conjunction with the use of glazed masonry units as an accent material. The reflective glass bands that travel up and down across the front and sides of the building effectively split the expansive building mass. This breaking up of the singular mass helps to give the visual impression that there is more than one building and function within.

The loading docks that serve the manufacturing plant are semi-recessed and angled to the building's rear wall to reduce land area coverage, thus maintaining the required green area. Angling of the loading docks also dictates a one way

traffic pattern for vehicular and delivery truck flow. The site, which was completely void of any significant natural vegetation, was heavily landscaped with the introduction of new plant materials.

Because the building is under the flight path to nearby Oceana Naval Air Station, it is completely soundproofed. There is also an energy management system integrated into the mechanical and electrical systems.

The functions involved within the manufacturing area are very extensive. The main fabrication plant area is used for the manufacturing of wiring terminals and harnesses. However the plant has complete in-house design capability with custom vacuum forming and silk screening shop for custom fabrications.

There is a two-story landscaped atrium with a luminous ceiling in the lobby space at the main building entry, leading into the administrative office area. There is also a full exercise room, complete with exercise equipment and lounge and showers for use by the employees.

The final building product satisfied the owner's needs for function and aesthetics, was constructed within his budget, and he was able to

occupy his new space within the amount of time anticipated.

Rilee Construction Co. of Virginia, Inc., Chesapeake, was general contractor for the project.

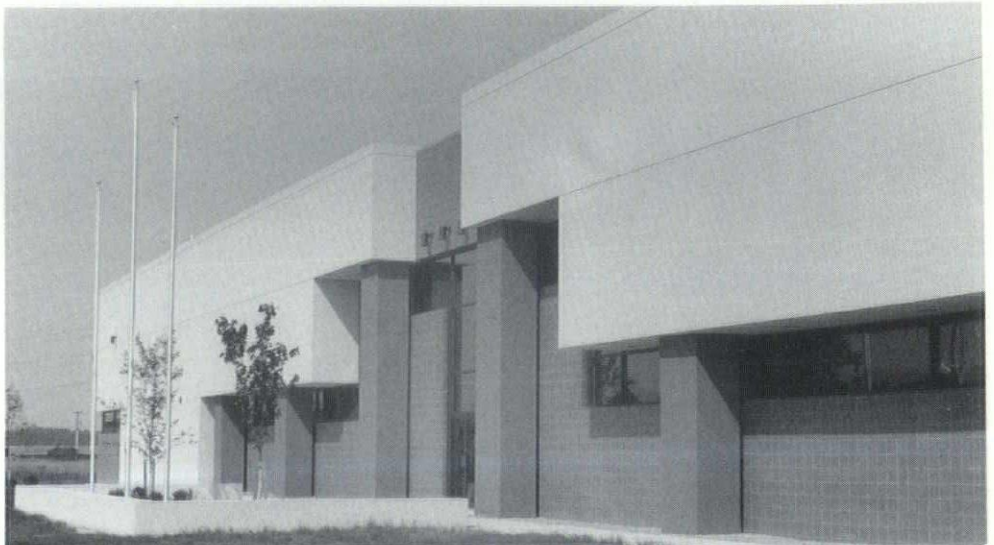
SUBCONTRACTORS & SUPPLIERS

Other Chesapeake firms were: Greenbrier Glass & Mirror Co., glass & storefront; and Smith-Gerloff Painting & Decorating, Inc., painting contractor.

From Virginia Beach were: Dozier Enterprises, excavating; London Bridge Greenhouses & Nursery, landscaping materials & landscaping contractor; Hudson Masonry Co., Inc., masonry contractor; Coastal Mechanical, heating/ventilating/air conditioning contractor; and Custon Electric, electrical contractor.

Norfolk firms were: Rea Construction Co., paving contractor; A. W. Hughes Sheet Metal Corp., sheet metal; Door Engineering Corp., metal doors & frames & hardware supplier; Jayen Tile Corp., ceramic tile & resilient tile; Newnam's Carpet, carpet; and D. E. Kirby, Inc., plumbing contractor.

And, from Richmond, Grinnell Fire Protection Systems Co., Inc., sprinkler contractor.



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 - The Atrium Building

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General Contractors/Builders



Pocono Green Shopping Center

Freeman and Morgan Architects

Owner: Business Planning Associates, Inc. •
Location: Chesterfield

Project Architect/Designer, John Morgan •
Interior Design, Freeman & Morgan Archi-
tects • Site Engineer/Surveyor, J. K. Tim-
mons Associates • Structural Engineer,
TDFB, Inc. • Mechanical/Electrical Engineer,
Colonial Mechanical Corp. • Geotechnical
Engineer, Sayre & Associates • General Con-
tractor, J. Kennon Perrin Construction Co.,
Inc. • Photography, James Adcock Photo-
graphy.

turer; Redford Brick Co., Inc., masonry supplier;
Riverton Corp., Riverton, Flamingo mortar; and
Whitley Roofing Co., roofing.

Also, Hanover Fabricators, Ashland, structural
wood; Perkins & Glass, Inc., Sandston, glazing

contractor & storefront; Pleasants Hardware,
hardware supplier; W. W. Nash & Sons, Inc.,
painting contractor; Duron Paints & Wallcover-
ings, paint manufacturer; and Colonial Mechan-
ical Corp., plumbing/heating/ventilating/air
conditioning/electrical contractor.

PROGRAM

Freeman and Morgan Architects were asked to design an economical strip shopping center for a heavily traveled and rapidly expanding commercial corridor of Route 60 in Chesterfield County. Chesterfield is the 10th fastest growing county in the nation with an increase in population of 83.5% from 1970 to 1980. The retail center is to be shell space only, for typical small tenants, with spaces ranging from 900 to 1500 square feet. The design must be visibly identifiable and accessible to quick-stop shopping, with maximum exposure to Route 60. Leasing will be for the specialty shop with no anchor tenants.

DESIGN SOLUTION

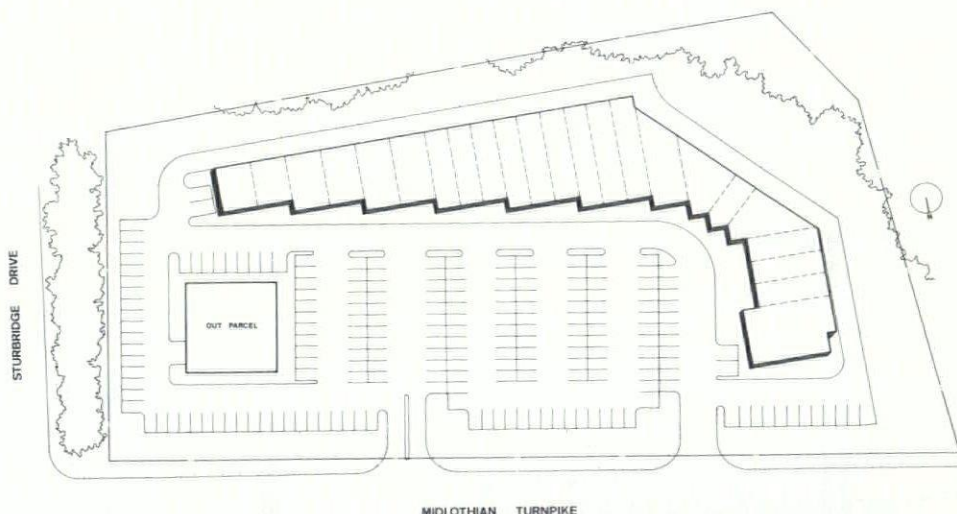
The structure was designed using off-set, intersecting hip roofs with round concrete columns. The solution incorporated the use of red wire-cut bricks and forest green metal roofs with battens, introducing strong colors, for the visual impact. The total spaces have 44,000 square feet of retail area with staggered entrances and storefronts that provide the tenants with individual identities on a wide sign fascia.

Project Completion: October, 1986
Construction Cost: \$28.00 per square foot

J. Kennon Perrin Construction Co., Inc. of Richmond was general contractor and handled foundations, concrete work, foundation insulation, carpentry and any trades not listed below.

SUBCONTRACTORS & SUPPLIERS

(Richmond firms unless noted)
Richard L. Crowder Construction, Inc., Peters-
burg, excavating; Pocono Nurseries, Inc., land-
scaping materials & landscaping contractor;
Hercules Steel Co., Inc., Jarratt, reinforcing,
steel supplier/erection/joists/roof deck; Tide-
water Materials Corp., concrete supplier; Con-
crete Pipe & Products Co., Inc., concrete masonry
units supplier; Old Dominion Masonry, Inc., Ash-
land, masonry contractor; Boren Clay Products
Co., Pleasant Garden, NC, masonry manufac-



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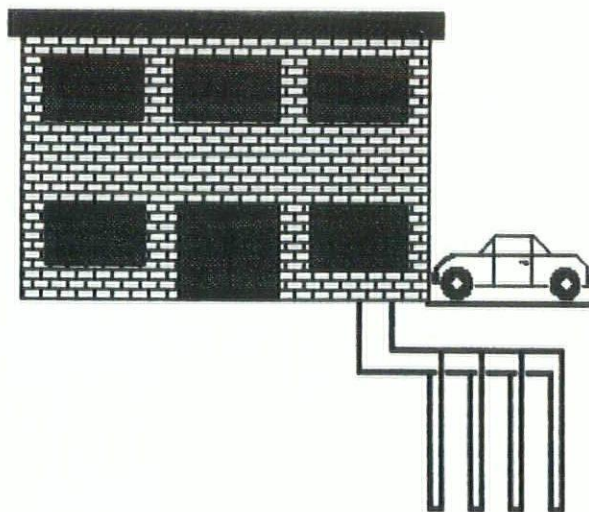
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Lowenthal Furriers

The Barnes Lyall Group, Inc.—Architectural Division

Owners: Bert and Arlene Lowenthal • **Location:** Virginia Beach

Project Architect/Designer, Randy Lyall • **Landscape Architect,** Nancy Hodges • **Interior Designer,** W. Ray Jennings • **Site Engineer/Surveyor,** Miller-Stephenson • **Structural Engineer,** Sinclair Pratt Associates • **Security Consultants,** Honeywell • **General Contractor,** The Barnes Lyall Group, Inc.—**Construction Division** • **Photography,** Jack Will, Photographer

Lowenthal Furriers of Virginia Beach has just relocated to a new 12,500 S.F. facility designed and built by The Barnes Lyall Group, Inc. The project was designed to express permanence both in terms of aesthetics and materials as well as accommodate the expansion needs of the business.

The site is located on Virginia Beach Boulevard near Thalia and has very high visibility. This location coupled with the owner's desire to have a building that reflects the up-scale quality of the business itself became the initial criteria for the design. The security for this type of business demanded a very small amount of glass area, so placement of these areas became strategic. The solution evolved into placing the building on the site with the primary display windows facing Virginia Beach Boulevard. These display windows are recessed and stepped along the front facade to help express the elevation and draw attention to the displays. Their location on the north side of the building eliminates the solar gain which causes fading and damage to the furs. The other two display windows are located at the entrance on the east side, which is protected by a large canopy. Vandal resistant glass has been used throughout in addition to an extremely sophisticated security system.

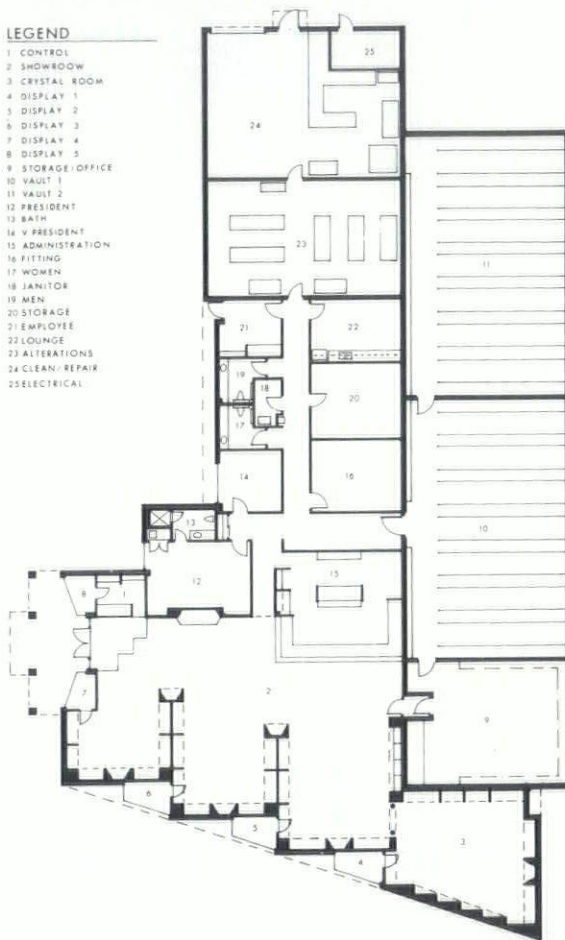
In order to allow maximum exposure of the building and the furs no parking was placed in front of the building. Separating the building from the constant flow of vehicular traffic, but maintaining the visibility desired was achieved with a 30' wide landscaped buffer. This concept directed the flow of onsite traffic to the east side of the building; which became the obvious location for the main entrance. The use of heavily landscaped grounds helped provide another buffer between the building and the parking.

To help establish the visual permanence required the architects selected brick as the building's exterior skin. Being sensitive to the colors of the new Virginia Beach Library located directly across the boulevard, a light grey brick was selected. The building is wrapped in light grey brick bands and separated by a darker grey brick reveal to create the effect of ribbons.

The interior space contains four open and connected showrooms, each expressing an individ-

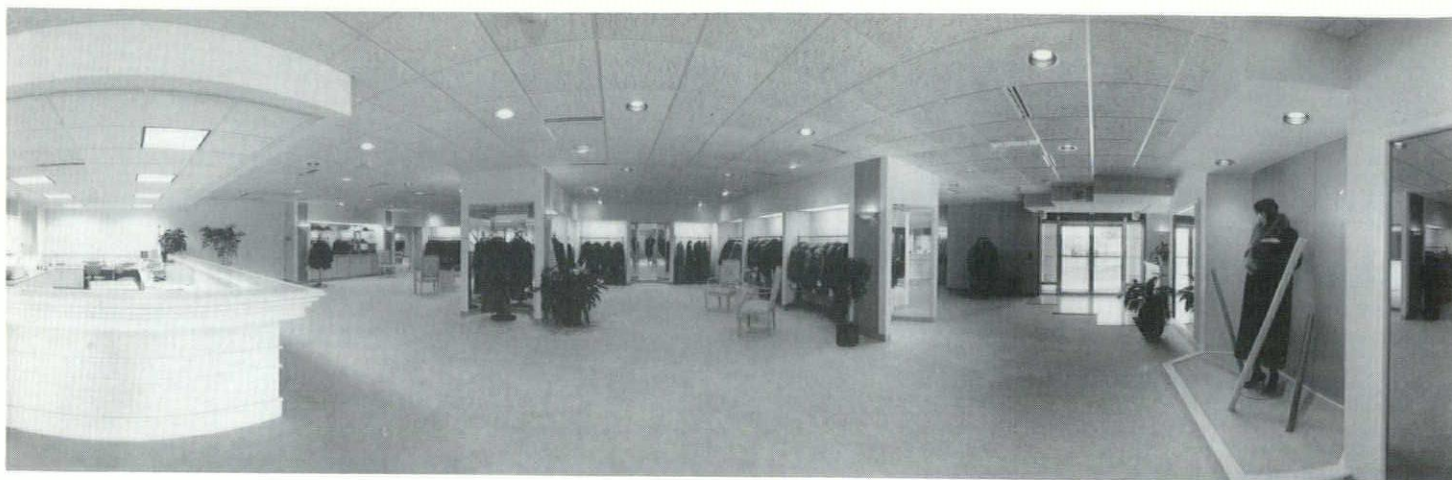
LEGEND

- 1 CONTROL
- 2 SHOWROOM
- 3 CRYSTAL ROOM
- 4 DISPLAY 1
- 5 DISPLAY 2
- 6 DISPLAY 3
- 7 DISPLAY 4
- 8 DISPLAY 5
- 9 STORAGE/OFFICE
- 10 VAULT 1
- 11 VAULT 2
- 12 PRESIDENT
- 13 BATH
- 14 V. PRESIDENT
- 15 ADMINISTRATION
- 16 FITTING
- 17 WOMEN
- 18 JANITOR
- 19 MEN
- 20 STORAGE
- 21 EMPLOYEE
- 22 LOUNGE
- 23 ALTERATIONS
- 24 CLEAN/REPAIR
- 25 ELECTRICAL



FLOOR PLAN





ual identity with a sense of scale and elegance. These showrooms have a stepped relationship to each other which mirrors the stepped elevation on the front of the building. Each of these spaces is arranged to lure and invite you to experience the next one, ending in an exclusive showroom. In addition to the showrooms, the building also contains administrative and execu-

tive offices, fitting and storage rooms, a lounge, a shop area for alterations and construction of custom coats, a cleaning and coat repair area, and three large cold storage vaults for housing several thousand coats and hats. These vaults act as an independent building within the building, containing their own sophisticated air conditioning and security systems, and wrapped in

a four-hour concrete block envelope with steel vault doors.

The building's environmental control is handled by a sophisticated water furnace system which offers the owner the ultimate in efficient HVAC operation and performance. This type of system utilizes two miles of polybutylene pipe buried underground to become a closed loop geothermal heat pump. An additional advantage of this system is the elimination of roof top equipment, a free standing cooling tower, or boiler building. The life expectancy of this type of system surpasses that of conventional equipment by at least four times.

The project was completed in its entirety in six months, allowing the owner to occupy the building prior to the start of his busy season.

The Barnes Lyall Group, Inc.—Construction Division, Virginia Beach, acted as general contractor for the project.

SUBCONTRACTORS & SUPPLIERS

(Virginia Beach firms unless noted)

Sign Crafters, Inc., graphics; Higgerson-Buchanan, Inc., Chesapeake, excavating & paving contractor; Winn Nursery, Inc., Norfolk, landscaping materials & landscaping contractor; S. B. Ballard Construction Co., Norfolk, foundations & concrete contractor; Capital Concrete, Inc., Norfolk, concrete supplier; Hudson Masonry Co., Inc., masonry contractor; Batchelder & Collins, Inc., Norfolk, masonry supplier & mortar; C. F. Lambert Co., steel supplier/erection/joists/roof deck, other roof deck; Pegram Roofing, Norfolk, membrane roofing; and Hume Construction Co., carpentry & millwork.

Also, Custom Cabinets by O'Neill, Portsmouth, cabinets; Sureguard Water-Proofing, waterproofing; K & P Caulking Co., Inc., caulking; Glass Corporation, Norfolk, glazing contractor; Vista Wall, Rhode Island, storefront; McDowell Construction Co., Chesapeake, gypsum board contractor; The Ceramic Tile Co., ceramic tile; Keith Jones Marble & Tile, marble; S. E. Parker, Inc., Norfolk, acoustical treatment; E. A. Chapman Floor Designs, Inc., carpet; Dailey Painting and Decorating, Norfolk, painting contractor; Norfolk Paint Co., Inc., Norfolk, paint supplier; Byler Plumbing Co., plumbing contractor; Tide-water Heating & Air Conditioning, Inc., heating/air conditioning contractor; and L. E. Ballance Electrical Service, Inc., Chesapeake, electrical contractor.

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Haywood-Clarke Porsche Audi, Inc.

Freeman & Morgan, Architects

Owner: Haywood B. Hyman, Jr. • **Location:** Chesterfield County

Project Architect/Designer, John Morgan • **Landscape Architect/Site Engineer/Surveyor,** J. K. Timmons & Associates, P.C. • **Interior Design,** Milton Glaser Associates, Inc. • **Structural Engineer,** William J. Davis • **Mechanical/Electrical Engineer,** Bohannon, Staley & Associates • **General Contractor,** Kenbridge Building Systems, Inc. • **Photography,** Whitney Cox.

PROGRAM

Freeman and Morgan Architects were asked to design an automobile dealership that would feature three prestigious automobiles. The site is located on the heavily traveled commercial corridor of Route 60 in Chesterfield County. The design is to focus attention to the cars in the showroom and not to the surrounding automobile inventory. Some of the cars are to be featured in the enclosed showroom while others are featured

outside the showroom but under cover. The structure is to be a dominant building in an area that has 10 dealerships in operation or under construction. The building is also to be elegant but not pretentious.

DESIGN SOLUTION

The structure was designed using earthtone bricks and large areas of angled glass walls. To introduce natural light to the second level, skylights were used throughout the length of the building. Skylights were also used in the large exterior covered spaces. The interior floors were covered with honed marble pavers and the walls were covered with a woven plastic wall fabric to upgrade the facility from the common strip dealership. Structural design is conventional steel frame and pre-engineered rigid frame in the Service Building.

Completion Date: February 1986
Building Areas: Showroom — 15,570
 Service — 27,493
 Total Area — 43,063 sq. ft.

CONSTRUCTION CREDITS

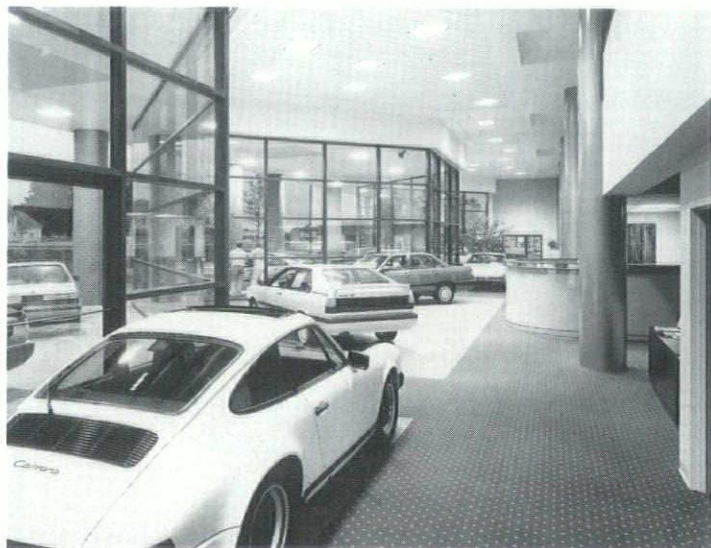
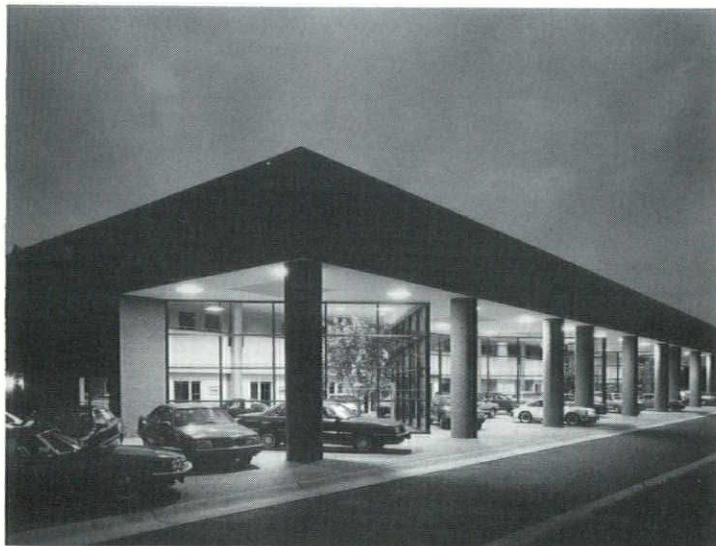
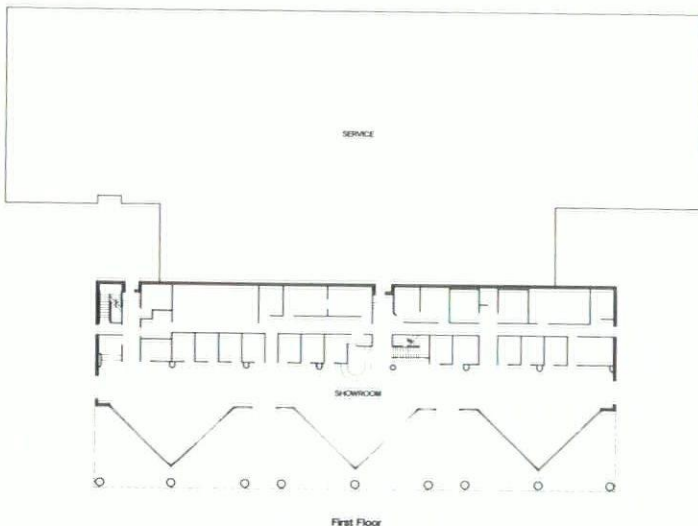
Kenbridge Building Systems, Inc., of Richmond, was general contractor and handled all trades not listed below.

SUBCONTRACTORS & SUPPLIERS

(Richmond firms unless noted)

John Marshall, Inc., excavating; Concrete Pipe & Products Co., Inc., concrete masonry units; J. Carrington Burgess Masonry Contractor, Inc., masonry contractor; Webster Brick, Roanoke, masonry manufacturer; Andrews-Joyner Iron Works, Inc., Petersburg, steel supplier; Vulcraft, Florence, SC, steel joists; Whitley Roofing Co., EDPM roofing; and Pecora, caulking.

Also, Walker & Laberge Co., Inc., glazing contractor & storefront; Woodworking Specialist Co., wood doors; American Partition System, Inc., gypsum board contractor; American Olean Tile Co., ceramic tile; Fendley Floor & Ceiling, Inc., acoustical treatment, resilient tile & Pirelli Rubber special flooring; J & J Associates, painting contractor; Duron Paints & Wallcoverings, paint manufacturer; Xorel, wall covering; MacLevy, Elm-hurst, NY, steam roof; The CECO Corp., Buildings Div., pre-engineered building; Harris Heating & Plumbing Co., Inc., Ashland, plumbing/heating/ventilating/air conditioning contractor; General Electric Supply Co., electrical equipment supplier; and Tolley Electrical Corp., Ashland, electrical contractor.



University Tire & Auto Center

Keeney & Company, Architects

Owner: University Firestone, Incorporated •
Location: Albemarle County

Project Architect/Designer, Ron Keeney, AIA, CSI • **Site Engineer/Surveyor,** Roudabush, Greene & Gale, Inc. • **Structural/Mechanical/Electrical Engineer,** Keeney & Co., Architects • **General Contractor,** The Owner • **Photography,** Ron Keeney.

The locally owned University Firestone Inc. purchased a small narrow lot overlooking a busy intersection many years ago, in anticipation of erecting another store. The area developed commercially very rapidly and the site has become a prime location. The intersection is still under study, however, as the large volume of daily traffic has created the need for a new interchange configuration. This has left those properties on each corner in question. Finally, University Firestone decided to proceed with construction anyway.

Although the site was only 50' x 200', the owners desired a full-size auto service center. Therefore, the building was pushed to the property line, and the depth of the eight pull-in service bays and the tire storage area was minimized, leaving just enough maneuvering room in the front to include a row of parking. The owners also desired a second floor of open office space to house their relocated corporate offices. Additional off-site parking was leased on adjacent properties.

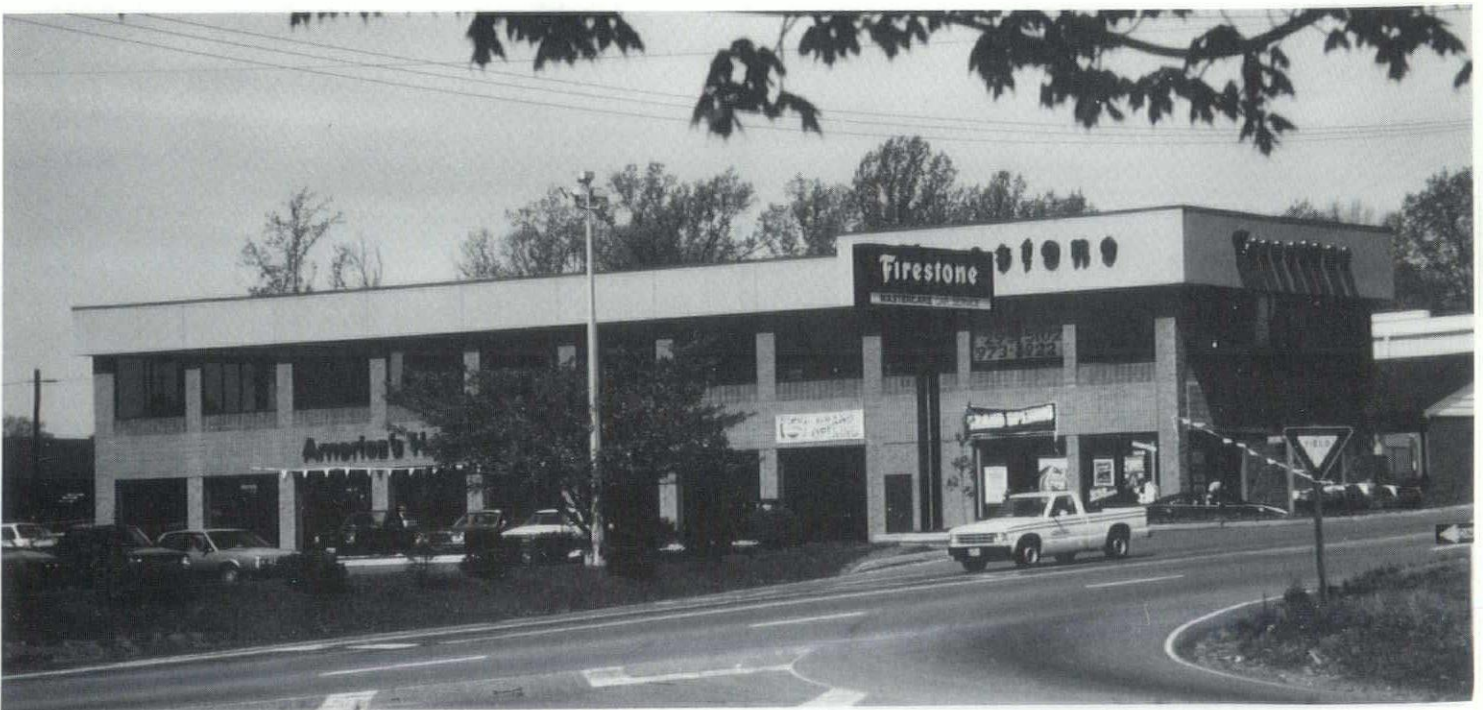
The building was designed to take advantage of its prominent view of and from the intersection. By locating the customer showroom and its enlarged fascia at the sidestreet end, the main signage mounted directly on the building gets the best exposure. The basic shell of the building is of several styles of colored CMU, combining split-faced, split-ribbed, and smooth-faced to form the ornamental bands across the facade. The fascia, of lightweight exterior finish system (synthetic stucco), projects out considerably to protect the front south-facing office windows from the summer sun. The fascia also serves as a parapet to conceal the rooftop HVAC equipment.

Since several of the partners of University Firestone had been involved in construction before, they acted as their own general contractors. While this frequently leads to difficulties, in this case their construction expertise enabled them to not only control the construction process properly, but to complete some of the work themselves. As an architect, it is a unique experience

to encounter at a commercial construction site one of the owners, on his knees in the mud, installing plumbing pipe.

Pull-in auto service areas are difficult to keep warm in winter due to the frequency of opening the overhead doors to move vehicles in and out, therefore, a glass-fired infra-red heating system runs the full length of the service area over the mechanics' work areas. Heating objects rather than air, this system radiates heat to the floor and other surfaces, providing much faster recovery from the cold blast of an open overhead door, in addition to the simple comfort of working on a warm floor. The owners have already cited heating bills of only 20% of those in their similar stores using gas-fired forced air unit heaters. The sales room and the second floor offices utilize roof-mounted dual-fuel heat pumps.

The exterior lighting of the business was carefully designed with the highway exposure in mind. The sandstone-colored CMU building is strikingly illuminated by efficient amber mer-



cury-vapor lights recessed into the soffit, creating a sculptural backdrop for the business' gently glowing tradename and motto.

The building was completed and opened for business in January 1987.

The owner/general contractor, University Firestone, Inc., of Charlottesville, handled concrete work, waterproofing, caulking, gypsum board and plumbing.

SUBCONTRACTORS & SUPPLIERS

(Charlottesville firms unless noted)

Parham Construction Co., Inc., excavating; Shreckhise Landscaping & Design, Weyers Cave (Waynesboro), landscaping materials/landscaping contractor; S. L. Williamson Co., Inc., paving contractor; H. T. Ferron Co., concrete supplier; Cersley Masonry, masonry contractor; Martinsville Concrete Products, Inc., Martinsville, masonry manufacturer; Lynchburg Block Co., Lynchburg, masonry supplier; Cavalier Steel, Inc., Lynchburg, steel supplier/roof deck & miscellaneous metal; Dean's Steel Erection, Inc., Harrisonburg, steel erection.

E. M. Martin, Inc., single-ply EPDM roofing; Creative Conservation Co., Inc., Richmond, wall insulation; Glass & Plastics, Inc., glazing con-

tractor, windows & storefront; Pleasants Hardware, Richmond, hardware supplier; Pietsch-Dalton, Inc., acoustical treatment/ceiling; Floor Fashions of Virginia, Inc., resilient tile; Forest Hill Associates, Inc., painting contractor; Co-Ray-Vac, infra-red heat; Dorsey Rubber & E-

quipment, auto service equipment; Noland Co., plumbing fixture/lighting fixtures/electrical equipment supplier; James T. Smith Heating & AC Co., heating/ventilating/air conditioning contractor; and Cook Electric Co., electrical contractor.



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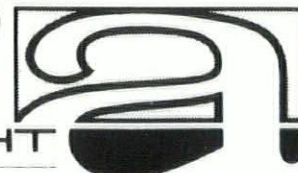


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The Bethesda Gateway Building

Ward/Hall Associates, AIA—Architects

Owner: Central Properties Limited Partnership • Location: Bethesda, Maryland

Project Architect/Designer, Eric A. Taylor, AIA • Landscape Architect, EDAA, Inc. • Interior Designer, Ward/Hall Associates, AIA • Cost Consultant, Tiber Construction Co. • Site Engineer/Surveyor, Seybolt Gore Newquist & Berlinsky • Structural Engineer, Smislova, Kehnemui & Assoc., P.A. • Mechanical/Electrical Engineer, Silver Associates, P.A. • Geotechnical Engineer, Schnabel Engineering Associates, Inc. • Lighting Consultant, Raymond Grenald Associates • Art Consultant, David Tannous • General Contractor, Tiber Construction Co. • Photography, Karen Schneebaum.

PROJECT

A 262,000 square foot building at the southern edge of the Bethesda Central Business District (CBD) containing 22,000 S.F. of retail at grade, 120,000 S.F. of office space on six levels above, and four parking levels below. Zoning ordinances allow a doubling of FAR in trade for pedestrian amenities if approved by the County Planning Board. This project was one of 10 competing for this increased density and was approved.

PROGRAM

The principal goal was to combine meaningful public amenity spaces with building design appropriate to the site and emerging urban fabric of Bethesda. Specific goals included:

- A. A transitional massing link between the historic one story Farm Women's Market to the south and the highrise buildings to the north.
- B. A sensitive contextual response to this market, the neighborhood, and the Elm Street Park to the east.
- C. A landmark signalling the southern gateway to the CBD.
- D. An animated pedestrian streetscape that retains the existing human scale of the shopping neighborhood but adds a cohesive sense of place that had been lost through the years.
- E. A reference to the client's art deco past. As owner of a local movie theater chain, the client built one of the first art deco buildings in Bethesda.

SITE

The site is on the northeast corner of Wisconsin Avenue, the "main street" of Bethesda, and Willow Lane, a feeder street to existing residential neighborhoods. Prior to construction start, it was occupied by a row of aging retail buildings of no historical significance.

SOLUTION

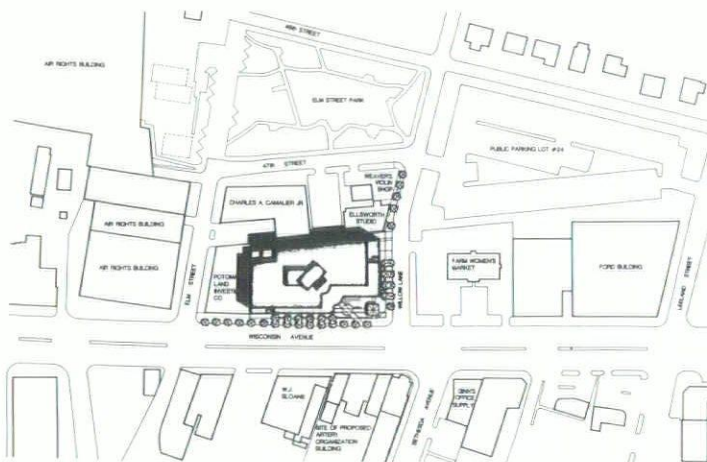
The building is terraced back from both street frontages to create the scale appropriate to each facade. Building mass is articulated into dark masonry base, glass midlevel, and light masonry cap. The base creates the appropriate pedestrian scale and relates to adjacent build-

ings in fenestration, cornice line, and retail storefront. The glass midlevel projects to the south and west to reference the scale of earlier urban buildings in the area and to form the building entry. It also forms the edge to the urban street. The masonry cap is the backdrop to this glass midlevel on the south and west elevations. It forms simpler facades on the north and east which are more appropriate as backdrops to the Elm Street Park. The building further responds

to this park by projecting balconies on axis with an opening between adjacent buildings. Art deco detail and ornamentation combine with a gable motif to consistently reference both the owner's art deco past and the form of the Farm Women's Market entry.

The creation of an entry garden plaza on the southwest corner reinforces the open site character of the neighboring Farm Women's Market





AXONOMETRIC

and forms the forecourt to the southern gateway to the CBD. Within this plaza, a stainless steel and glass pavilion sculpture will form the symbolic gatehouse when complete. Its location reinforces the ground plane's biaxial layout, while creating a landmark meeting place. This gateway/gatehouse concept has subsequently been reinforced by the plaza and pavilion designed for the project across Wisconsin Avenue. The glass pavilion, originally conceived as an architectural structure, was transformed by artist Rockne Krebs, into a jewel-like sculpture of light executed with glass and prisms. Titled "The Crystal Willow," it references its location at Willow Lane. By day, it will fragment sunlight into a continuously changing spectral array on the surrounding surfaces. By night, its crystalline form will sparkle in light beams emanating from recessed sources.

A variety of pedestrian areas is provided at street level: A retail arcade (with existing landmark store retained); an outdoor covered theater designed for performance and dining to complement the weekly flea market at the neighboring market; amphitheater seating focused on the sculpture; and a system of streetscape improvements for both complete block frontages. Another artist, Jerry Clapsaddle, was commissioned to design wall and paving patterns to animate these pedestrian areas. By use

of various shades and textures of bricks, a wall mural forming the northern focus of the arcade was created. The floor of this arcade is enlivened with this patterning technique while the Willow Lane sidewalk is transformed into a symbolic "yellow brick road" to the Elm Street Park.

Thoughtful attention to contextual relationships, well conceived public areas in an organized ground plane, and careful integration of art all contribute to the success of this scheme. It has become a vital component of the Bethesda redevelopment. Construction was completed in June 1986.

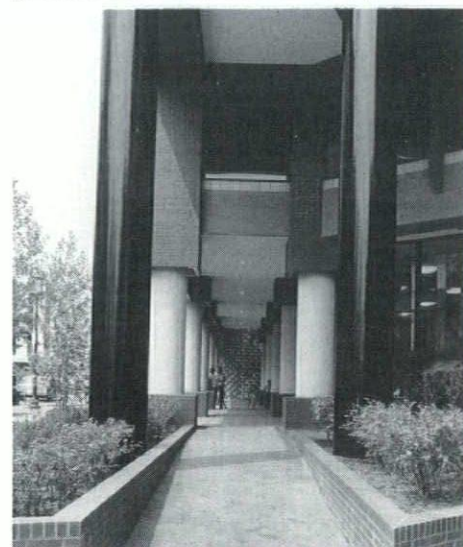
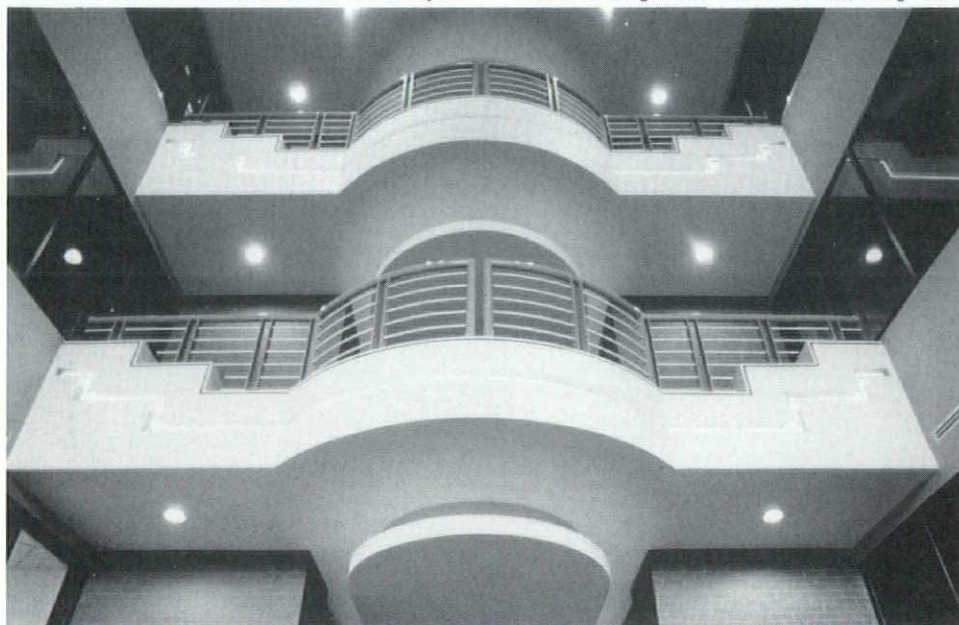
Tiber Construction Co. of Fairfax was general contractor for the project. Bernie Potiere acted as superintendent.

SUBCONTRACTORS & SUPPLIERS

Marvaco, Inc., Fairmont Heights, MD, excavation; Schnabel Foundation Co., Bethesda, MD, shoring; Ruppert Landscaping Co., Inc., Ashton, MD, landscaping; R. Bratti Associates, Inc., Alexandria, brick paver; Vouge Construction, Arlington, curb & gutter; Tile & Masonry Crafts, Inc. (subsidiary of R. Bratti Enterprises), Alexandria, masonry; Miscellaneous Metals, Frederick, MD, metal fabrications; Architectural Woodworking, Inc., Rockville, MD, rough car-

penetry; Arlington Woodworking & Lumber Co., Inc., McLean, architectural woodworking; Beta Construction Co., Forestville, MD, waterproofing; Super Sky Products, Inc., Mequon, WI, skylight; Tonstad Caulking Co., Inc., Alexandria, sealant; Swingin' Door, Inc., Rockville, MD, wood doors & hollow metal frames; Overhead Door Co. of Metropolitan Washington, Inc., Newington, garage door; and Harmon Contract Glazing, Columbia, MD, glass windows.

Also, W. T. Weaver & Sons, Inc., Washington, DC, finish hardware; Tri-State, Rockville, MD, drywall; Marty's Floor Covering Co., Inc., Alexandria, flooring; Ronald D. Mayhew, Inc., Bristow, painting; Klon O. Row, Inc., Rockville, MD, toilet partitions & accessories; Art Display Co., Washington, DC, sign enclosures; InterSign National, Inc., Baltimore, MD, directories; Schultz & Mellits, Bowie, MD, fire extinguishers; Watrous, Inc., Bensenville, IL and Dixon Products, Temple Hills, MD, ash urns; Interior Design Contractor, Annapolis, MD, horizontal blinds; Turf Management, Inc., Washington, DC, irrigation system; Balco, Inc., Langley Park, MD, entrance mat; Westinghouse Elevator Co., Upper Marlboro, MD, elevator; George F. Warner & Co., Springfield, mechanical/plumbing; Chesapeake Sprinkler Co., Glen Burnie, MD, sprinkler system; J. M. Martin, Inc., Fairfax, electrical; Power Dynamics Corp., Landover, MD, energy management; United Materials and Services, Inc., Manassas, supplied Hanley red brick & blue glazed brick, and Carolina Ceramics pink brick.



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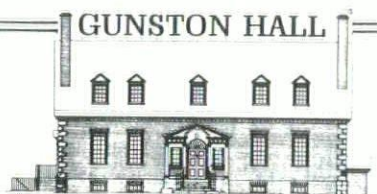
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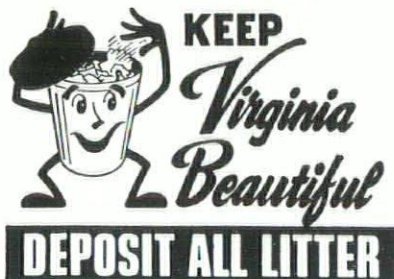
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I'm like most people. I don't like to admit that I have a problem. But when I do, I know one group that will be there to help me... the USO. Whether it's trying to call home, figuring out the best way around my new community... or just someone to listen, I know the USO is there. For those of us in the military, USO is the three most important letters in helping others.

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The next time someone comes to visit you, give them a chance to see Virginia, too. Swim and sun at world-famous Virginia Beach, and feast on marvelous seafood from the Chesapeake Bay. Take a carriage ride down Duke of Gloucester Street in Colonial Williamsburg, the only entire 18th century town in America. And enjoy breathtaking views in the Blue Ridge Mountains. Trace the footsteps of George Washington along the historic streets of Fredericksburg, and visit Richmond's St. John's Church, where Patrick Henry called for "liberty or death." So much to see and do, from the beautiful Shenandoah Valley to the first settlers' fort and three tiny ships at Jamestown. From the NASA Museum at Hampton to elegant James River plantations like Carter's Grove. Can one state really offer such a variety of beaches, mountains, history and fun? Yes, Virginia! This year, share it with someone you love.

Human Services Center

Washington Design Group, Inc.—Architects

Owner: James City County, Virginia • Location: James City County

Project Architect/Designer, M. Bennett/J. Davis • Landscape Architect/Site Engineer/Surveyor, Langley and McDonald • Interior Design, Alpha Design Corporation • Structural Engineer, Abiouness, Cross & Bradshaw • Mechanical/Electrical Engineer, Bowman and Associates • Geotechnical Engineer, Schnabel Engineering Associates • General Contractors, Olsen Contractors, Inc. and Hall & Wilson, Construction, Inc. • Photography, Robert K. Ander

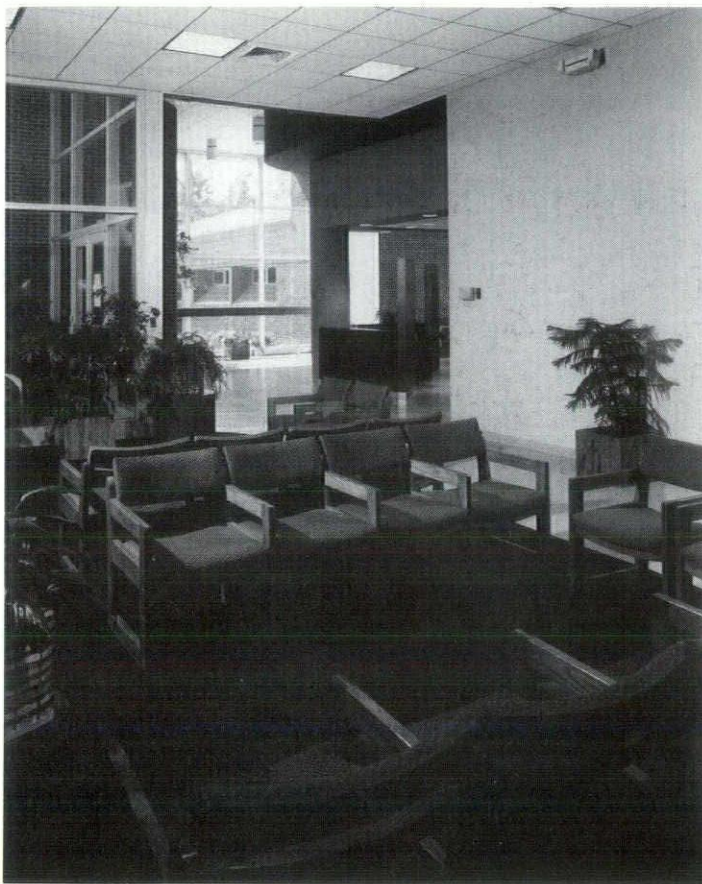
The James City County Human Services Center combines the County's Health Department and Department of Social Services into one Human Services Center. The building is a 27,000 square foot, single-story, steel structure with steel stud and masonry cavity walls. The Health Department pod is built over a crawl space for future flexibility of relocation of utilities in the health clinic, laboratories and dental clinic while the

remainder of the building is a concrete slab on grade. Passive solar shading is achieved by recessing the windows on the east, south and west while the building is scaled to fit into a growing residential area of the county.

In plan, the building is divided into three distinct areas or pods. The two occupying agencies have self-contained wings which can be closed without affecting the function of the other. The center pod contains reception, waiting, auditorium and meeting space as well as a staff lounge and public restrooms. The central area was also designed to stand alone to serve other county agencies in need of meeting or auditorium space both during and especially after county business hours.

Both the Social Services and Health Department wings are designed with most of the functional spaces on the perimeter and with service cores containing restrooms, storage and filing in the centers. Each department's spatial needs had been carefully analyzed and space need projections





were made for the 1990s. Open office landscaping was utilized at all clerical areas and wherever else practical.

The resulting built-in expandability and flexibility should keep this facility as functionally up-to-date at the end of this century as at present.

Olsen Contractors, Inc., of Newport News, and Hall & Wilson Construction, Inc., of Grafton, were general contractors for the project. Olsen Contractors, Inc. also handled foundations, concrete work, steel erection and carpentry.

SUBCONTRACTORS & SUPPLIERS

Newport News firms were: Davenport Insulation, Inc., wall & foundation insulation; Walker & Laberge Co., Inc., glass, glazing contractor, windows & storefront; Broccutto Drywall & Acoustics, Inc., plaster contractor & gypsum board contractor; and Pompei Tile Co., Inc., terrazzo.

Norfolk firms were: Winn Nursery, Inc., landscaping materials & landscaping contractor; Hall-Hodges Co., Inc., reinforcing; Lone Star Industries, Inc. (now Tarmac-LoneStar, Inc.), concrete supplier; Eastern Roofing Corp., roofing, roof insulation & sheet metal; Brownson, cabinets; and Tomlinson Co., Inc., plumbing fixture supplier.

Others were: Mueller, Williamsburg, paving contractor; Chesapeake Masonry Corp., Hampton, masonry contractor; Webster Brick Co., Inc., Suffolk, masonry manufacturer; Riverton Corp., Riverton, Flamingo mortar; Bolling Steel Co., Inc., Salem, steel supplier/joists/roof deck & miscellaneous metal; Waterfront Lumber Co., Inc., Hampton, millwork & wood doors; K & P Caulking Co., Inc., Portsmouth, caulking; Seaboard Building Supply Co., Inc., Virginia Beach, metal doors & frames & hardware supplier; Suburban Floors, Inc., Richmond, resilient tile; DMA & Associates, Inc., Richmond, carpet; Tom J. Georges, Tabb, painting contractor (Glidden paints), special wall finish & wall covering; Barranger & Co., Inc., Richmond, specialties; Roanoke Engineering Sales Co., Inc., Roanoke, equipment; Sawyer Plumbing, plumbing contractor; Bay Harbour Mechanical, Ltd., Virginia Beach, heating/ventilating/air conditioning contractor; and Arc Electric, Inc., Chesapeake, electrical contractor.



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FOR THE RECORD

Small Business Director Named

David V. O'Donnell has been named Director of Small Business and Financial Services at the Virginia Department of Economic Development, effective August 16.

O'Donnell will represent the interests of small business in state government. He will work closely with leaders of Virginia's small business community to determine new initiatives, and support the department's mission of creating new jobs and expanding the tax base in Virginia.

Under his direction, DED's Office of Small Business and Financial Services will provide technical assistance to small businesses, including licensing, financing, regulatory and other information.

O'Donnell has nearly 30 years of business experience with private sector as well as public sector organizations. Since 1977 he has been a marketing manager with the department, and for the past five years he has specialized in marketing Virginia to entrepreneurial and high technology firms. As a marketing manager to the high technology sector, O'Donnell was instrumental in the formation of business incubators and a university research park.

O'Donnell marketed Virginia to corporations in the New England area and was responsible for numerous plant locations between 1977 and 1982. His business experience in the private sector includes positions with corporations such as AMF, Incorporated; Mobil Chemical Company; Reynolds Metals Company and American Cyanamid Company.

O'Donnell holds an MBA in Management and Marketing from New York University's Graduate School of Business Administration and a Bachelor of Science degree from Manhattan College in New York. He is a graduate of the University of North Carolina's Basic Industrial Development Course as well as the Economic Development Institute at the University of Oklahoma.

O'Donnell is a charter member of the Virginia Economic Developers Association.

Gipe Associates Announces Three New Principals

Gipe Associates, Inc. Consulting Engineers specializing in mechanical and electrical engineering, has announced new principals William S. Cowdell, P.E., William E. Peebles, P.E., and Louis M. Cherwa, P.E., for their Virginia Beach office.

Mr. Cowdell, a professional registered engineer in Virginia, North Carolina, and Kentucky brings to the firm over 13 years' experience with mechanical consulting engineering firms. He has worked on projects such as the Central Library for the City of Virginia Beach, The Beach Quarters Hotel, One Columbus Center office building and the Food Lion Distribution Centers in Virginia, North Carolina, and South Carolina. Mr. Cowdell is a 1978 graduate of Virginia Polytechnic Institute and State University and will be responsible for the mechanical engineering of Gipe Associates' Virginia Beach office.

Mr. Peebles brings to Gipe Associates, Inc. 12 years of mechanical consulting engineering, design/build construction experience and several years in senior level management. A 1969 graduate of Old Dominion University, Mr. Peebles' design experience includes plumbing, air conditioning, direct and passive solar systems for various governmental, commercial, and residential facilities. In addition to mechanical engineering responsibilities, Mr. Peebles will handle the firm's marketing effort for the Virginia Beach office.

Mr. Cherwa, formerly Vice President and Electrical Engineer with Clark, Nexsen, Owen, Barbieri, and Gibson, Architects and Engineers, joins the firm's Virginia Beach office as head of electrical engineering. Mr. Cherwa has 13 years' electrical design experience and is a 1974 graduate of Old Dominion University. He has a varied background in electrical distribution, fire alarm, security and communication systems. He has performed work on private, as well as federal, state, and municipal projects throughout the Mid-Atlantic region and overseas.

Richmond Firm Selected by 3-M

Solar Film, Inc. of Richmond has been selected by the 3-M Company to represent their entire line of Scotchtint™ window films, Scotchtint Plus, all-season solar films, and Scotchshield Safety and Security films in Virginia.

Solar Film, Inc. has been in business for five years and has operations based in Richmond and in Hampton. The company will continue to carry the Solargard and Madico film lines, as well as Sealmaster, Season-All, Andersen Replacement Windows, Proper Seal Porch Enclosures, Sky Shield Sky lite Suncontrollers, and a full line of mini-blinds and verticles.

One-Man Ad Agency Wins Major Award

Fran Green, president of Green Advertects, Inc., has received the Pro-Comm Award, Certificate of Excellence, from the Business/Professional Advertising Association.

The award was for the design and production of an 8-page full color brochure for Commonwealth Communications, Ltd. of Ashland, Virginia, a manufacturer of computerized paging equipment.

More than 240 advertisers and agencies entered the 12th Annual (B/PAA) competition, with a record-breaking 2,155 submissions. 32 prominent communications professionals served as judges.

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CEC Systems Active On East Coast

CEC Systems, Inc., specialists in post-tensioned concrete from original design to on-site installation, has been active in the area since opening an East Coast sales office, warehouse and manufacturing facility in Forest Hill, Maryland.

The Forest Hill manufacturing facility, which supplies all Midwest and East Coast projects with the elements of CEC's post-tensioning system, has been operating since the end of August, 1986.

Heading up the office is Al Spamer, East Coast Regional Manager for CEC Systems, Inc. Spamer, a native of Baltimore, received his degree in Civil Engineering from the University of Maryland. He joined CEC from the Utelite Corporation in Utah, an expanded-shell, lightweight aggregate firm, where he was Director of Marketing. A professional member of the Post-Tensioning Institute, former vice president of the American Concrete Institute's Intermountain Chapter, and member of the National Committee of the American Concrete Institute, Spamer has more than 20 years of experience in the post-tensioning field.

In business since 1977, CEC Systems, Inc. has grown every year and typically handles 125 to 150 major projects in residential and commercial construction annually. The majority of the company's 1,000-plus projects have been bridges, housing, commercial buildings, slabs on grade, industrial floors, foundation mats and parking structures.

Projects the East Coast office has been involved with include post-tensioning for the 10-story, 200,000-square-foot Courtland Park Apartments in Baltimore and the Clinical Sciences Building at Georgetown University in Washington, D.C.

In addition to its Baltimore office, CEC Systems, Inc. has offices in Chicago, Illinois, Salt Lake City, Utah, and Martinez, California.

Sammis Honored for Historic Preservation Efforts

At the Fairfax County Board of Supervisors Meeting in May, Lee Sammis Associates, Inc. (LSA) was recognized by the Fairfax County History Commission for their decision to save and accurately reconstruct Hutchison House (on Route 50 behind Dulles Airport) — the county's oldest brick plantation house, the earliest section of which dates back to 1750 — 40 years before Sully Plantation was built.

As part of the National Historic Preservation Week 1987 "Landmarks of Democracy" celebration, the History Commission cited LSA for "their decision to keep this 18th century structure and do the research necessary to undertake an accurate rehabilitation deserving the respect and appreciation of all who care about Fairfax County's historic landmarks . . . the contributions of Lee Sammis Associates have set a high standard in Fairfax County historic preservation."

In giving the award, the Commission said that historic preservation does not attempt to close the door to progress, but to preserve the continuity with the past that makes the present and future more meaningful.

That sentiment was right on target with the LSA decision two years ago to completely restore the historically significant Hutchison House as a the focal point and visitors center for LSA's 150-acre Lafayette Business Center (LBC). Sammis wanted to showcase LBC's rich heritage, "to preserve the continuity with the past" as prologue "to the present and future."

"We had always planned for Lafayette to become a high quality, high image business center which would tie the historic past to today's changing Fairfax County," said Joseph G. Svatos, LSA executive vice president and chief operating officer.

"Hutchison House represented the epitome of our intent and was always destined to be the focal point of the Park," Svatos continued. "We



HISTORIC PRESERVATION AWARD PRESENTATION: Left to right: Martha V. Pennino, Centreville Supervisor; Joseph G. Svatos, LSA Executive Vice President; and Jack Herrity, Fairfax County Chairman. (Mattox Commercial Photography photo)

are very proud of our restoration efforts as well as our initial success in generating quality development in LBC."

Nearly 70 of the 110 initially saleable acres have been sold and construction will begin this summer on over 400,000 square feet of office/service and R & D buildings. Those low rise structures and the landscaping on their sites have been designed to be consistent with the architectural quality dictated by Hutchison House, Svatos added.

LBC is one of nine LSA business park developments in the Washington area, including six in Fairfax County. "We strive for quality in all our projects," Svatos said, "but Lafayette Business Center is destined to remain something very special."

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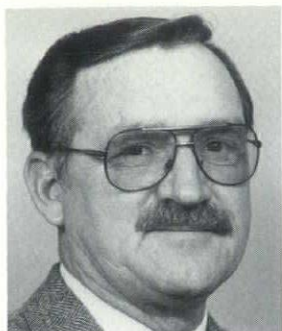
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Arthur A. Carlson, P.E.



Benny G. Fortner



Harley E. Young



N. Davis Wrinkle, Jr.



Robert M. Lumpkin

New Fairfax Office and Appointments Announced by Hankins and Anderson, Inc.

The Board of Directors of Hankins and Anderson, Inc. have announced the opening of a new, full service engineering office in Fairfax, and the addition of six new employees.

Arthur A. Carlson, P.E. has joined the firm as Associate and Manager of H&A-Metro Washington. He is a registered engineer with 27 years experience designing HVAC systems for all building types. Mr. Carlson was a former Chief Mechanical Engineer and Project Manager with Glassman-LeReche and Associates, P.C. of Falls Church. He received his A.S. degree in Heating, Ventilating and Air Conditioning Technology in 1960 from Southern Technical Institute in Marietta, Georgia.

Avis A. Stanley, P.E. joins the firm as Electrical Engineer. He has a diversified, comprehensive background with over 20 years' experience, including Lead Design Engineer, Project Manager and Project Engineer. Mr. Stanley was formerly with PEPCO. He received his degree in Electrical Engineering from Virginia Polytechnic Institute in 1968, and his PE in 1975.

Other new members of the H&A-Metro Washington team are George W. Smith, Michael J. Gehl, Scott A. Shook, and Roberta A. Parker.

George W. Smith joins the firm as Electrical Designer. He has over 15 years experience in the Metro DC area. He received his Associate degree from Penn State University in 1971.

Michael J. Gehl joins the firm as HVAC Engineer. He received his BS degree from Old Dominion University in 1986.

Scott A. Shook joins the firm as Electrical and HVAC Designer.

NEW APPOINTMENTS

New appointments were also announced by the Board of Directors. Benny G. Fortner, P.E. has joined the firm as Senior Vice President and Chief Electrical Engineer. Harley E. Young was named Executive Vice President. N. Davis Wrinkle, Jr. was named Senior Vice President, and Robert M. Lumpkin has been appointed to the Board of Directors.

John T. Riding was promoted to Senior Associate and J. Douglas Smith and Ronald B. Palmer were promoted to Associate.

Mr. Fortner, who was with Hankins and Anderson as Chief Electrical Engineer from 1967 to 1975 has over 26 years' experience in electrical engineering. He serves as a Professional Engineer member on the City of Richmond Electrical Exam Board of Appeals, and Regional Vice President of the Consulting Engineers Council of Virginia. He was formerly with HC Yu and Associates as Chief Electrical Engineer. He received his BS degree in Electrical Engineering from Virginia Polytechnic Institute and State University.

Mr. Young, who joined the firm in 1966, is a principal and member of the Board of Directors. He has over 34 years' experience in mechanical engineering and has served as Principal-in-Charge, Project Manager, and Contract Administrator. He attended the University of North

Carolina and the Carnegie Institute of Technology.

Mr. Wrinkle joined the firm in 1974, as a Mechanical Engineer. He is a principal of the firm, and serves on the Board of Directors. During his 26 years of experience, he has served as Principal-in-Charge, Project Manager, and Project Engineer. He received his BS degree from Virginia Polytechnic Institute and State University and his MS degree from George Washington University.

Mr. Lumpkin is a Principal, Vice President and Chief HVAC Engineer. He has been with the firm for seven years. He is a member and past president of the Richmond Chapter of ASHRAE. With over 30 years of engineering experience, Mr. Lumpkin has served as Project Manager and Project Engineer on numerous projects. He received his BS degree from the University of Miami.

Mr. Riding is a Civil Engineer and CADD Supervising Engineer. He joined the firm in 1979, and was directly involved in the CADD system implementation at Hankins and Anderson in 1985. He has served as Project Engineer and Project Manager, and currently serves as Production Coordinator. He received his BS degree at the Virginia Military Institute and his MS at Virginia Polytechnic Institute and State University.

Mr. Smith, who joined the firm in 1982 as a Plumbing and Fire Protection Engineer, is a Master Plumber with 17 years of experience. He has served as Project Engineer and Project Manager on numerous projects.

Mr. Palmer has over 17 years' experience in engineering. He joined the firm in 1982 as Civil Engineering Technician. Palmer received his AS degree from Virginia Commonwealth University.

Hankins and Anderson, Inc., with corporate offices in Richmond, is a full service consulting engineering firm representing HVAC, electrical, plumbing and fire protection, civil and structural disciplines. The firm serves industrial, governmental, institutional, and commercial clients.

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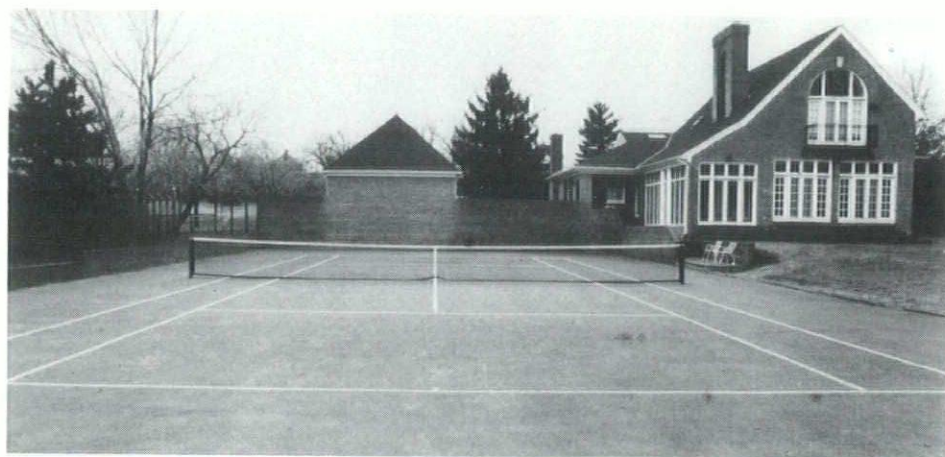
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Private Homeowners Are Choosing Omnicourt

When Thomas Moore decided to bring his tennis game from the club to his backyard in Alexandria, he searched for a surface that is affordable, easy-on-the-body and performs well. With his choice, Moore joined the ranks of private homeowners who have left the traditional tennis surfaces behind for Omnicourt.

The same qualities that have made the unique fiber-and-sand system a hit at prestigious clubs, resorts, municipalities, apartment complexes and schools nationwide since 1979 have led to installations at numerous residences.

Moore, 40, challenged Omnicourt to withstand the rigors of diverse climatic conditions. His tennis court, which lies directly outside his brick modified split level home has matched the serenity of the setting with its trouble-free nature since its installation in August 1985.



Thomas Moore's Omnicourt

"Omnicourt is quite a surface," said the self-described intermediate player. "I can even play through a sunshower. If it rains too hard to play, we can take to the court minutes after the rainfall. With my busy schedule, I have little spare time so this is quite a luxury." The sand dressing helps trap water below the top of the fibers and percolate it down to the carpet base where runoff is facilitated from subtle surface sloping.

Moore also believes Omnicourt is cooler than hard surfaces on hot summer days. While concrete, asphalt or rubber-coated surfaces absorb heat, Omnicourt's fiber-and-sand layer effects ventilation via its minute air pockets. In addition, the fibers are ultraviolet ray resistant. The latter characteristic also reduces glare, improving both playability and appearance.

"There is no doubt that if I had to do it all over, I would put in an Omnicourt again," raves Moore. "Along with the playability, the court is not an eyesore. If my yard looked as good as the court I'd have nothing to worry about."

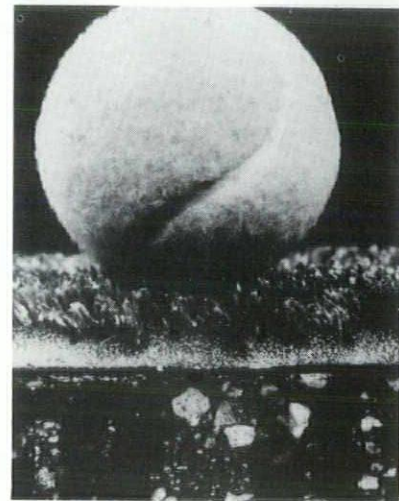
Dick Tutwiler, 55, the President of a financial investment firm, had nearly 200 trees removed, over 1,500 truckloads of soil brought in and a classic brick wall constructed for his court at

his Bayse, Va. home. The court, which lies directly adjacent to his outdoor pool and jacuzzi, completes a sports center which also includes an indoor racquetball court and a solarium with hot tubs. He credits his two-year old Omnicourt as the saviour of his tennis game.

"I had a knee operation several years ago and was having a hard time playing for over an hour at a time on asphalt," admits Tutwiler. "With Omnicourt, I can play all day without pain." The fiber and sand combine to provide greater shock absorption than other surfaces.

Mr. Tutwiler opted for extra sand in order to create a slightly slower playing surface. The normal amount of sand application is about 18 tons per court. "Most of my friends are over 50 like myself and are intermediate level players, so we prefer a slower court. Hard-hit balls don't bounce out of reach as much," said Tutwiler. "The slower game and comfortable surface has made tennis an entirely new and enjoyable experience."

Lamborn Associates of Maryland, the Stevenson-based Omnicourt dealer, installed both Moore and Tutwiler's Omnicourts as well as



Detail of Omnicourt

numerous others in the area. The installations include crushed rock or asphalt over a gravel base. Then, 12-foot-wide sections of Omnicourt in verde green are rolled out over the base. All court lines in yellow are then inlaid with the same polypropylene material. All seams are joined by a single strength adhesive and high quality weatherproof tape. Perimeter drains are put in to insure proper drainage. The installation concludes with the application of a special sand dressing.

Like other Omnicourt private homeowners, Tutwiler is also most impressed with the lack of maintenance which the surface requires. "All we have to do in the spring is put a roller over the surface and then brush it occasionally during the outdoor season," said Tutwiler who can be found on the court at least three times a week. "Since we have a lot of trees in the area, an unexpected benefit is that wet leaves do not stick to the surface like an asphalt court, they simply blow away. Overall, it requires hardly any maintenance. I like that feature because I bought a tennis court to play on, not work on."

Omnicourt is manufactured and marketed by Sportec International Inc., Kenmore, NY, and is backed by a comprehensive five-year warranty and offered through a full network of dealers.

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Delmarva Millwork opens Fredericksburg Facility For Peachtree Customers

Peachtree Windows and Doors has recently announced the opening of Delmarva Millwork Corporation's new office and warehouse facility in Fredericksburg. The new facility is located at 22 Shannon Drive, Fredericksburg, VA 22404 (P.O. Box 7969).

Delmarva Millwork has moved from Herndon to be more centrally located and to provide better service to their Virginia, Maryland, and Delaware customers.

The new Fredericksburg warehouse combined with the existing Lancaster warehouse represents a commitment of over \$3 million in Peachtree inventory.

For more information call: Jerry Masleh, manager of operations; or Frank Polievka, manager of sales, at (703) 898-2225.



S. Plaster

Mrs. Plaster Passes National Exam

Susan S. Plaster, ASID, an interior designer with Hanbury Evans Newill Viattas & Company, is one of 284 interior designers in the United States and Canada to successfully pass this year's interior designer's licensing examination.

Mrs. Plaster has nine years interior design experience, three and one-half with Hanbury Evans. While at Hanbury Evans, Mrs. Plaster has been responsible for the interior design of numerous departments of Sovran Bank's downtown Norfolk headquarters, including the main banking floor, Hofheimer Hall Clinical Sciences Building at the Medical College of Hampton Roads, Brambleton Branch Library for the City of Norfolk, and several projects for First Hospital Corporation including the Meadows Clinic in State College, Pennsylvania and University Hospital in Milwaukee.

The qualifying exam for interior designers is formulated and administered by the National Council for Interior Design Qualification. The examination is a prerequisite for membership as a professional interior designer in all interior design organizations, and for licensing in those states and provinces which have a licensing statute.



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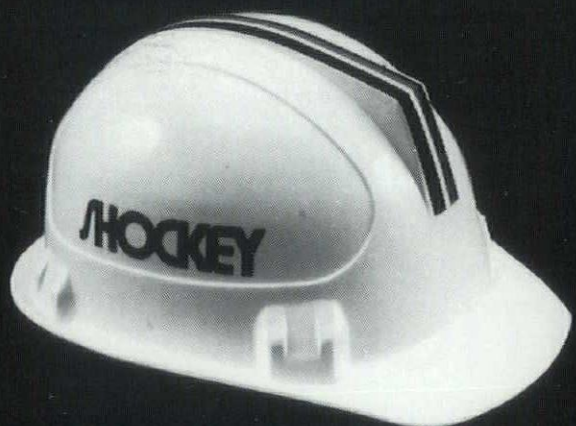
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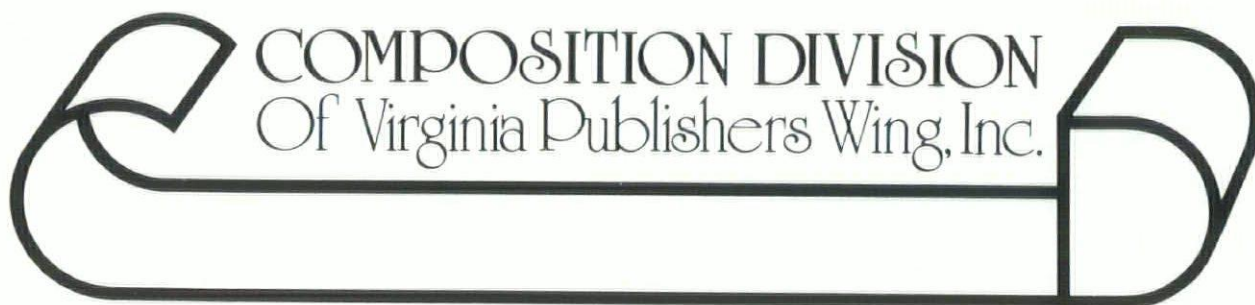
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Transportation Planner Joins Kettler & Scott

Kettler & Scott, Inc., has announced that Planner and Engineer Claire M. Guidas has joined the firm in the new position of Director of Land Planning. Ms. Guidas is a specialist in transportation planning and road design. "Our major ongoing projects make it possible to strengthen our land planning staff," says Robert C. Kettler, president of Kettler & Scott. "At the same time, our emphasis on building road improvements makes Claire's specialty ideal."

Ms. Guidas' responsibilities include land use planning and zoning with emphasis on transportation issues. She will work closely with the firm's consulting planners and engineers in design of planned communities by Kettler & Scott.

Guidas was formerly employed with Dewberry & Davis, which serves as land planner for many of Kettler & Scott's planned developments. Before that she was a transportation planner with the Fairfax County Office of Transportation and with the County of Prince William. Her degree is in Civil Engineering from the University of Pennsylvania.

Kettler & Scott's projects include the 340-acre planned community of Sully Station, already under development, and proposed Sully Station II in Centreville, Virginia. Adjacent to these projects is Virginia Run, a 1,000 acre, 1,355 unit luxury single family community, which is also currently under development.



Claire Guidas

Other projects include the proposed 1,342-acre Potomac Lakes community in eastern Loudoun County and the nearly 3,000-acre Brambleton planned community proposed for Loudoun County west of Dulles Airport. These and other projects in the planning stages represent over 6,000 acres and 18,000 residences in the Northern Virginia area.

Sully Station was named "Project of the Year" by the Washington area's Building Industry Associations, and Kettler & Scott is the recipient of the National Association of Homebuilders' prestigious "Developer of the Year" award for 1986.

Dominion Tower: The Tallest and Largest in Hampton Roads

Wonder what contains more than 80 million pounds of cement, stands approximately 435 feet tall and 135 feet square and is located in downtown Norfolk? It's Dominion Tower, the skyscraper under construction that seems to pierce the sky as viewers crane their necks to count the floors to its top while sitting at a Waterside Drive stoplight.

When the tower is finished this summer, it will be the largest and tallest office building in the Hampton Roads area, with parking for 1,255 cars and more than 400,000 square feet of office space.

Some food for thought about the size of this project:

- More than 600 concrete piles were driven into the ground, each at least 95 feet long. Collectively, that's more than 10 miles long. Each is designed to support 250,000 pounds. That's equivalent to more than one million, 140-pound people.
- The garage and building will contain enough poured concrete to line up more than 5,000



Dominion Tower (foreground) will be a striking addition to the Norfolk waterfront.

Lone Star blue concrete trucks back-to-back. That's a line more than 23 miles long, greater than the length of Route 44 from Virginia Beach to Norfolk.

- There are more than six million pounds of structural steel in the Tower. This compares

B.T. Rome Award Goes to Fleming

The first annual Benjamin T. Rome Founder's Award has been presented by The George Hyman Construction Company to long-time employee, C. Neal Fleming. The award is presented for continued outstanding service and dedication to excellence as exemplified by the career of Benjamin T. Rome, Chairman of the Board of The George Hyman Construction Company.

Fleming, a Senior Vice President, received the award from Rome at the Annual Employee Merit Awards Banquet, which also honored the exceptional performance of 30 other George Hyman employees.

A graduate of Duke University, where he earned a Bachelor of Science degree in Civil Engineering, he joined The George Hyman Construction Company in 1941 as a Field Engineer. Over the course of the next 25 years, Fleming was Superintendent for many of the company's largest projects.

In 1961 he assumed responsibility for the Estimating Department and a year later was promoted to Vice President. He became Senior Vice President in 1974.

The George Hyman Construction Company, founded over 80 years ago by Rome's uncle, George Hyman, is the largest subsidiary of The Clark Construction Group, which was ranked the 5th largest general contractor in the nation in 1985. The George Hyman Construction Company averages an annual volume of work that exceeds \$500 million.

with about 8½ million pounds of steel in the two bridges of the Chesapeake Bay Bridge-Tunnel.

- Reinforcing cable in the garage's concrete decking, wires that are tightened after the concrete has set, amounts to a length that's more than the distance between Norfolk and Richmond.
- Polished granite from Finland and high-performance, insulated, reflective glass form the Tower's exterior. That's 100,000 square feet of granite, or about 2½ paved football fields, and more than 70,000 square feet of glass, or 1½ paved football fields.
- The mechanical system — which will provide heating and air conditioning units sufficient for more than 300, three-bedroom houses — will include the latest computer-based energy management system. Heating, for instance, will be facilitated through fan-powered devices that transfer heat from light fixtures to various heating and cooling zones, supplanted at times by electrical heating coils.

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Shobe Chosen for National Post

J. David Shobe, Jr., Chairman of the Virginia Alcoholic Beverage Control Board, has been chosen President-Elect of the National Alcoholic Beverage Control Association.

Shobe was elected at NABCA's 50th Anniversary Conference in Bal Harbor, Florida. NABCA is the service arm of the national control states system, which is composed of Virginia and 17 other states plus Montgomery County, Maryland.

A "control" state is one in which the government is responsible for wholesale distribution or retail sale, or both, of distilled spirits and perhaps other alcoholic beverages.

Shobe said that while he was honored by the support he received from colleagues from across the nation, "this was not a personal victory. I view my election," said Shobe, "as an endorsement of the way we are doing things in Virginia."

"We have been developing and implementing many innovative programs in the Commonwealth, particularly in the area of education. This election is an endorsement of the department's programs and activities and the leadership role we have been playing in the field of alcoholic beverages."

The Virginia ABC Board, which is composed of Shobe, J. Younger Coggin and Laurie Naismith, has been streamlining and modernizing all facets of the department's operations and at the same time, has earned record profits for the common good of the state and its localities. Last year, the department earned an all time high of \$36.3 million in profits.

But it has been in the area of education that the Board has attracted the most attention to the Commonwealth. The Virginia ABC Board has been directing much of its energy and resources

to educational programs. Several years ago, the Board established a statewide Speakers' Bureau. Last September, the Board sponsored a precedent-setting statewide conference for all colleges and universities in the Commonwealth. This past February, the Board hosted a National Control States Educational Conference, and just recently the department sponsored a series of seminars in 18 Virginia localities for off-premises sellers of alcoholic beverages. The voluntary program, believed to be the first of its kind in the nation, attracted more than 700 participants.

Shobe, only the second person to progress through the ranks to become an ABC Board Member, presented information and a videotape on Virginia's precedent-setting college conference to those attending NABCA's annual convention, and unveiled a new campaign that the department launched on July 1 when the Commonwealth turned to a 21 year old legal drinking age for all alcoholic beverages.

Shobe, who is expected to move up to President of NABCA at next year's annual convention, said his election will give him "a forum" to speak forcibly on issues of concern to the control system.

"I fully intend to encourage those who choose to drink responsibly," said Shobe, "and I am going to urge suppliers of alcoholic beverages to direct more of their energy and resources in this direction."

Shobe was appointed Chairman of the Virginia ABC Board in 1985. Prior to that, he had been an Inspector, Auditor, Chief Hearing Officer and Deputy Board Member of the department.

Shobe and his wife Bobbi reside in Richmond.

Beverly Vigue Named Chief Operating Officer at Swingin' Door, Inc.

Major promotions at Swingin' Door Inc., Rockville, Maryland, place a woman in the position of Chief Operating Officer of one of the nation's leading hollow metal door & frame; wood door and hardware distributorships. Promotions in four departments and initiation of a new "project manager" system promise greater operating efficiency at award-winning Swingin' Door.

"The construction business is highly competitive," says Meyer Bobrow, President of Swingin' Door. "A contractor has to take advantage of every opportunity to save time and assure prompt deliveries. Our organization provides that kind of support."

Swingin' Door specializes in coordinated deliveries of hollow metal doors and frames, architectural wood doors, and related hardware. The firm was the first large-scale "total opening" company in the Washington metropolitan area.

In 1983 Swingin' Door Inc. was awarded the W.S. Haswell award from the Door and Hardware Institute, recognizing the firm as the outstanding distributor in the United States.

Named to the position of Chief Operating Officer of Swingin' Door is Beverly Vigue. She has been associated with Swingin' Door for seven years.

Vigue served as general manager of the firm's contract hardware division. For the past two years she has directed Instant Hardware Delivery, a wholesaling activity which specialized in delivery of locks, lock parts, and associated hardware to distributors throughout the United States.

Beverly Vigue is the first woman in the United States to earn professional certification as both an Architectural Hardware Consultant (AHC) and a Certified Door Consultant (CDC). Both certifications are issued by the Door and Hardware Institute, headquartered in McLean.

Four other top management promotions complete the Swingin' Door organization:

— Dick Thomas, Operations Manager, controls project management, warehousing, purchasing, service, and branch offices.

— Fred Sassler, Chief Estimator, provides expert cost estimates for projects, some of which involve thousands of hardware components for hotel and office building construction.

— Ed Rosic, Vice President Sales/Marketing, is known nationwide as an expert specification writer & technician.

— Pam Schneibolik, Finance Department Head, directs credit management and administration function while fulfilling controller duties.

Since 1976 Swingin' Door Inc. has grown from a small warehouse with five employees to its current status as one of the leading hollow metal door & frame, wood doors and hardware distributorships in the country. The firm currently employs 95 persons and maintains spacious warehouses and a fleet of delivery trucks at its headquarters in Rockville, Maryland.

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NEWPORT NEWS, VIRGINIA 23601

Du Pont Awards \$20,000 For Architectural Excellence

The Du Pont Company awarded cash prizes of \$10,000 each to two U.S. architects for design excellence in the Du Pont "Hypalon" Excellence in Architecture Awards. The Award ceremonies were held in conjunction with the AIA National Convention in Orlando, Florida in June.

Carlson/Ferrin Architects of Seattle, Washington won the prize in the New Construction category for its design of Larry's Market, a Seattle supermarket/grocery. Einhorn Yaffee Prescott of Albany, NY, won in the Reconstruction/Restoration category for a luxury resort hotel, The Equinox in Manchester, Vermont.

The awards program, introduced in 1986, is open to all U.S. and Canadian registered architects with buildings completed within the past five years that incorporate single-ply membrane roofing systems based on Du Pont "Hypalon" synthetic rubber.

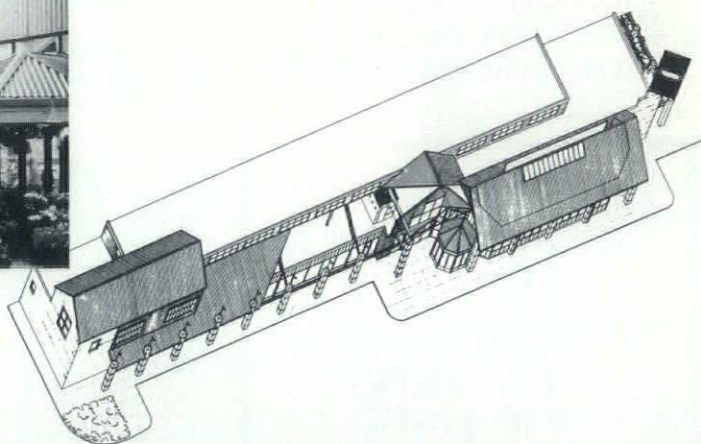
Entries in the program were judged on overall design by Laurence Booth, FAIA, Chicago, Illinois, Robert A.M. Stern, FAIA, New York, New York, and Richard Guy Wilson, Hon. AIA, The University of Virginia, Charlottesville, Virginia. The jury met in Wilmington, Delaware, May 15 to select the two winning entries.

"We're very pleased to reward two architects for their outstanding design work," said Tom Nelson, Du Pont business manager, who presented the awards during a ceremony held in Orlando, Florida. "Hypalon" offers architects a number of distinct benefits and we believe that the right roofing system can complement good design. These two projects showcase these qualities."

Larry's Market is a 45,000 square foot assemblage of specialty food departments such as a bakery, deli, fish market, wine shop and flower shop, arranged around a central supermarket area. Architects for the project, Carlson/Ferrin, located a flower shop and deli cafe in front of the building for visual appeal and to draw people into the store. Other strong design features of the building include: the use of industrial building materials to give the building a "food factory" look; a raised ceiling over the central aisles, skylights and inverted industrial fluorescents for natural lighting; and the repetition of shapes and features from neighboring buildings. The single-ply roof based on "Hypalon" is a "Hi-Tuff" roofing system manufactured by J.P.



LARRY'S MARKET, Seattle, Washington
Winner, New Construction (1986, Housel Photography)



Stevens & Co., Inc. of Northampton, Massachusetts.

"The market uses high tech materials in a very spritely way," said the 1987 jury. "It has a fresh

vigor to it that is very appealing. The strategy of stringing the building together is particularly interesting because it typifies the roadside strip development upon which it was built. What's particularly ingenious is that the architect has

(Continued on page 96)



The Equinox Hotel, before restoration (1985, Einhorn Yaffee Prescott photo)



THE EQUINOX HOTEL, Manchester, Vermont
Winner, Reconstruction/Renovation (1986, Bill Murphy photo)

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Awards (from page 95)

taken bits and pieces out of the existing environment and made a collage of memorable familiar pieces."

Project designer was Donald Carlson. Allan Ferrin, Kevin Kane and Stuart Stovin worked on the project team. Suzi McKinney was responsible for interiors.

The Equinox Hotel is a 125,000 square foot historic summer resort hotel. Exterior restoration by Einhorn Yaffee Prescott of Albany, N.Y., involved restoring some 20 interconnected wood buildings originally constructed between 1800 and 1950. The single-ply roof is a "Hi-Tuff" roofing system manufactured by J.P. Stevens & Co. Inc. based on "Hypalon." Listed on the National Register of Historic Places, the hotel reflects the full range of American architectural styles popular over a 150-year period. An impressive front facade is dominated by four classically-styled buildings built before 1839 and is unified by a monumental two-story colonnade, 290 feet long. The hotel had been a popular summer resort from the 1850s to the mid-1970s when physical deterioration and a declining travel industry forced its closing.

"The original building was sympathetically brought back to life," said the jury members. "This is a significant building in American history. It's a large complex, that's been broken down into quite manageable and delicately scaled buildings, that deserve to be maintained. The architects have shown us that with their restoration work."

Credits for the project include: Andrew W. Prescott, partner-in-charge; Arthur Kaplan and Robert Guillaume, project managers; James I. McKinney, project designer; and Janette Johnstone, historic preservationist.

Each of the jury members received \$2,500 honorariums in the form of a scholarship to the schools of architecture of their choice. Scholarship funds will be given by Du Pont to the Massachusetts Institute of Technology's School of Architecture and Planning on behalf of Booth; Columbia University's School of Architecture for Stern; and to The University of Virginia's Division of Architecture History for Wilson.

"Hypalon" is Du Pont's registered trademark for a synthetic rubber used to produce a variety of end products including single-ply roofing membranes.

Contel Cellular Service in Roanoke

Contel Cellular of Virginia, along with its authorized agents, began offering Contel Cellular products and service to customers in the Roanoke metropolitan area on May 4.

Contel Cellular of Virginia provides the largest cellular coverage area in the Commonwealth of Virginia. The company began providing service in Richmond and Norfolk in early 1985, and recently created the Virginia Super-System, serving a population of more than two million people in Richmond, Norfolk, Virginia Beach, Chesapeake, Hampton, Newport News, Williamsburg, Portsmouth, Suffolk and surrounding areas.

Contel Cellular of Virginia Regional Manager Charles Moir said, "The company is offering service at this time to meet the needs of a growing market of cellular users in Roanoke and Salem. We are enthusiastic about the Roanoke market and feel it has great potential for growth."

Contel Cellular President Paul Kozlowski said, "Our expanded system will have several cells, giving us a broad coverage area — more than 600 square miles — encompassing Roanoke, Salem, and the populated areas of Botetourt County. As demand for service increases, we hope to continue to expand our system. Our goal is always to meet the needs of our customers."

Contel Cellular of Virginia will provide service in

Roanoke in partnership with two other local telephone companies, Roanoke and Botetourt Telephone and Clifton Forge-Waynesboro Telephone. In addition to the Virginia Super-System and the Roanoke system, Contel Cellular operates general partnerships in Mobile, Alabama; El Paso, Texas; and Fresno and Bakersfield, California. The company also has limited partnerships in 11 other U.S. cities, including Washington, D.C., and has plans to expand into at least 20 additional markets. Contel Cellular utilizes a Bell Labs-designed state-of-the-art computerized digital cellular system that provides all the advantages of traditional home or office phones, including call-waiting, call-forwarding and three-way calling.

Contel Cellular of Virginia is a subsidiary of Contel Cellular Inc., which is a division of Contel Corporation. Contel Cellular's sister company, Contel of Virginia, is the state's second largest telephone company, serving more than 290,000 customers over approximately 25% of the state. Both Contel Cellular and Contel of Virginia are divisions of the Contel Telephone Operations sector. The sector serves more than two million customers in 30 states.

Contel, a company with more than \$3 billion in revenues and sales, provides a broad range of telecommunications and information processing products and services through four sectors: Telephone Operations, Business Systems, Federal Systems and Information Systems.

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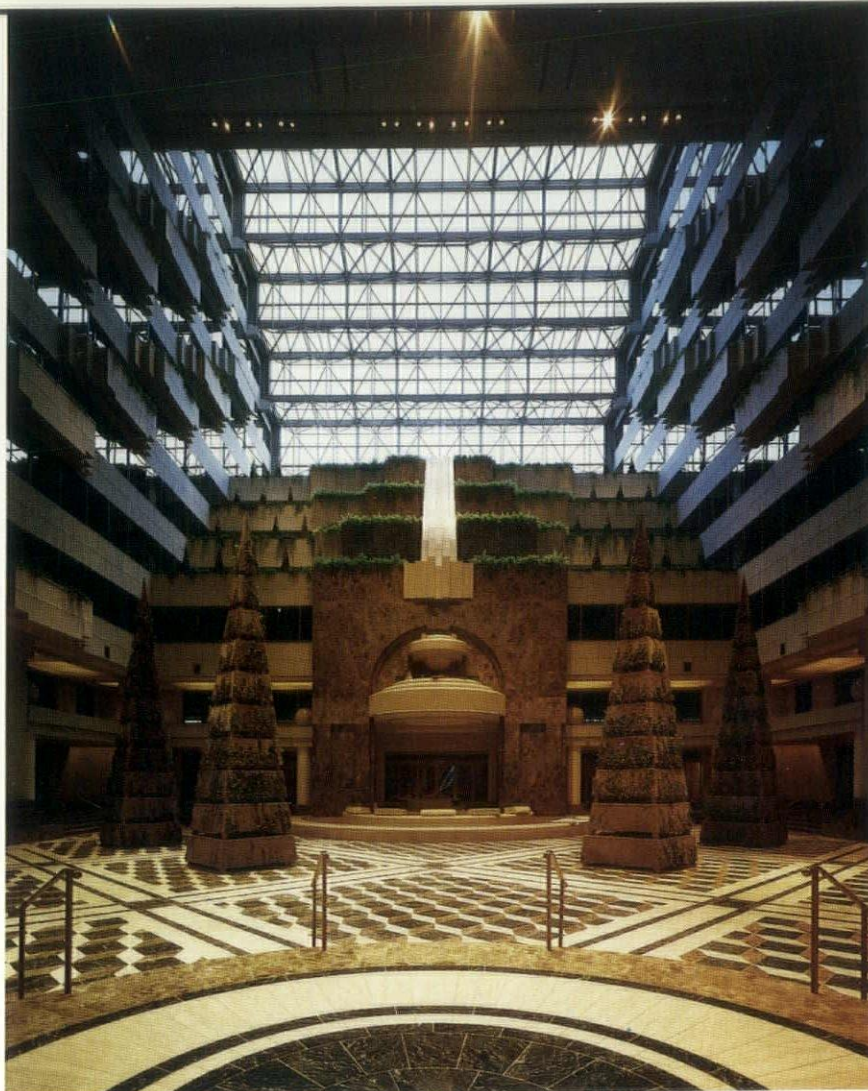
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