

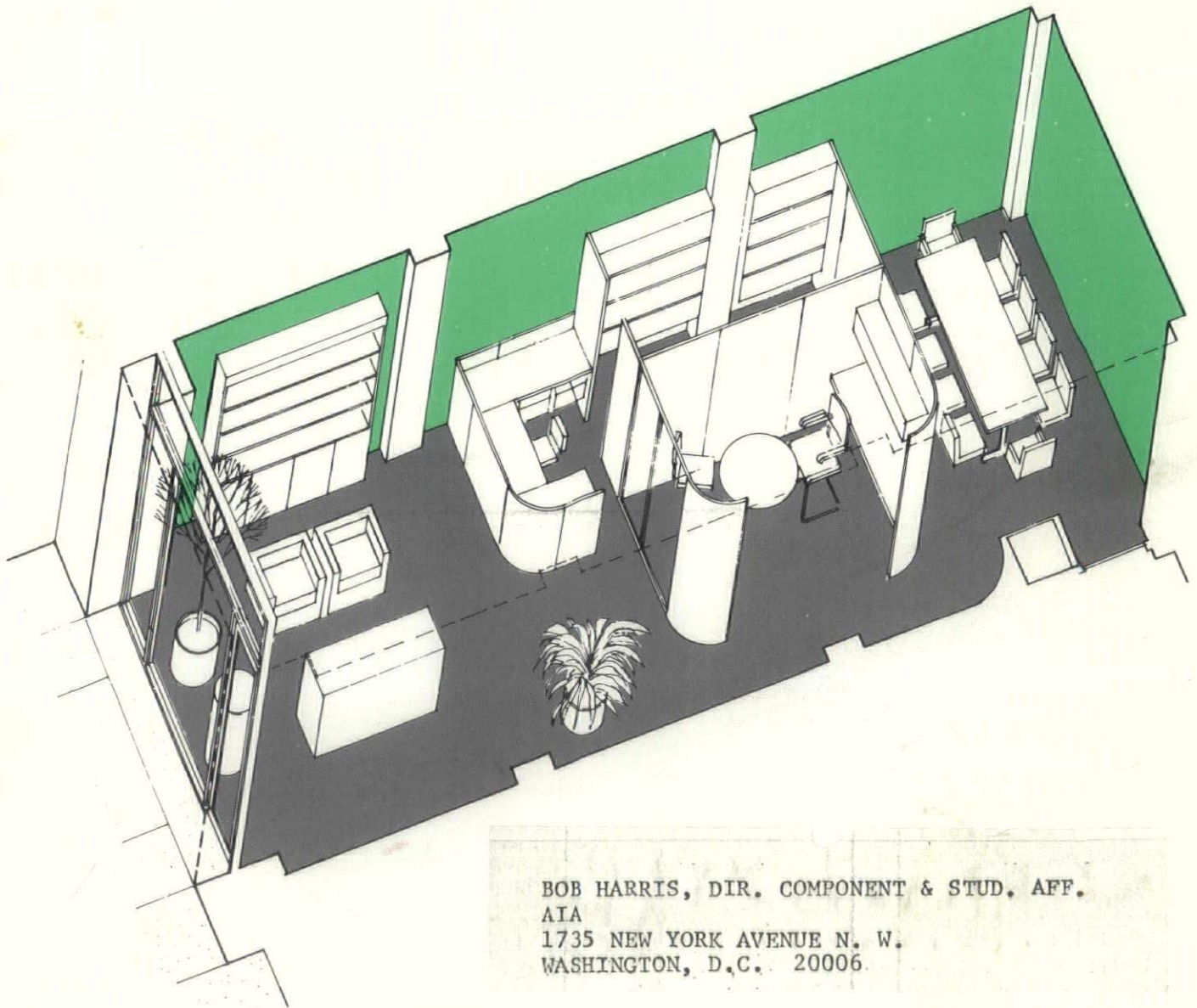
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IOWA ARCHITECT

January/February 1979

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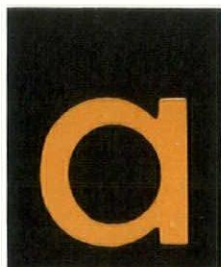
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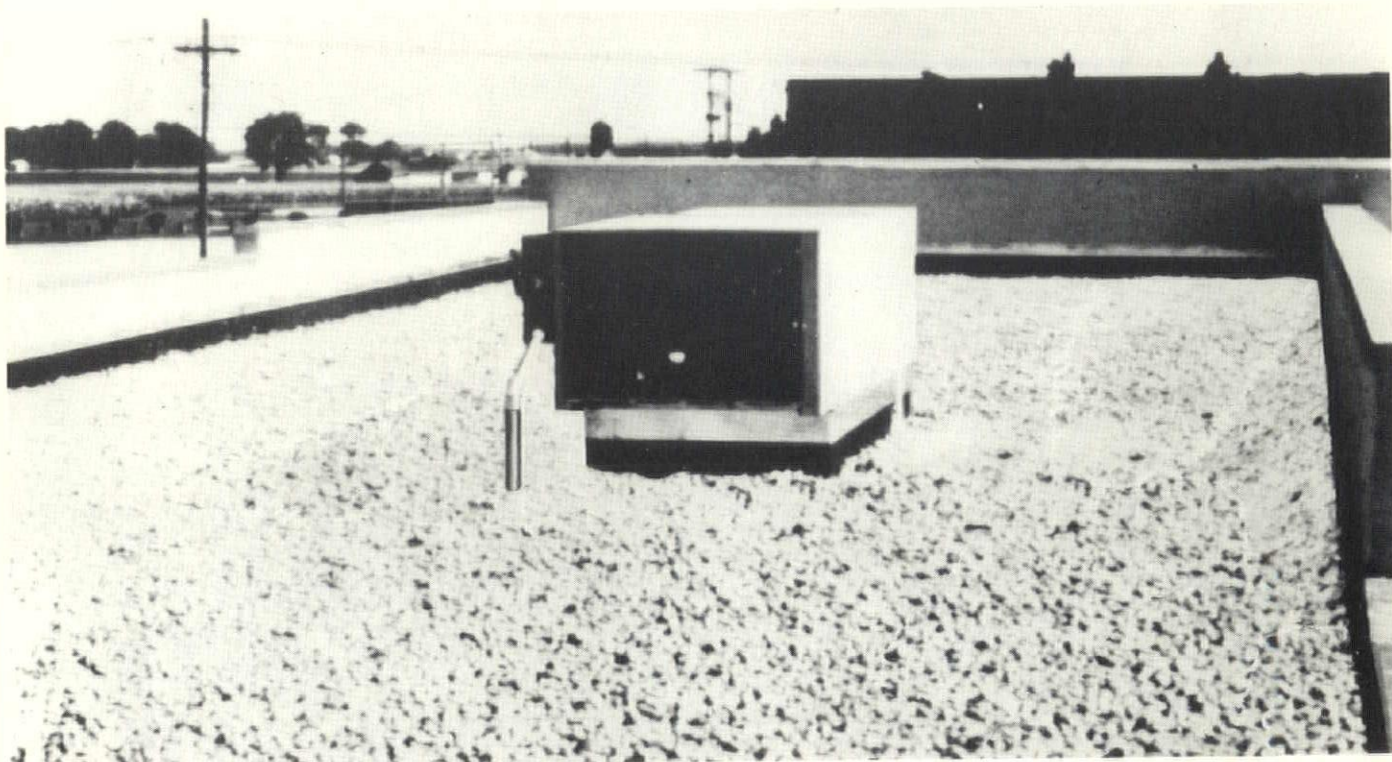
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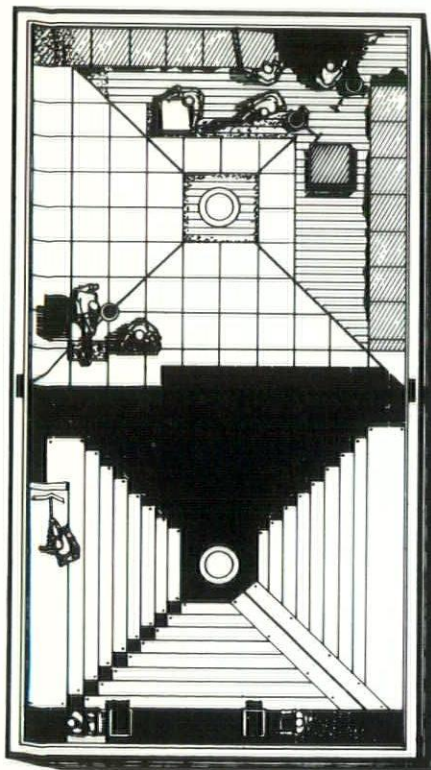
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STAGE I: FILLER AND TAPE-LITE BLOCK INSTALLATION

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STAGE II: RIGID TOP LAYER INSTALLATION

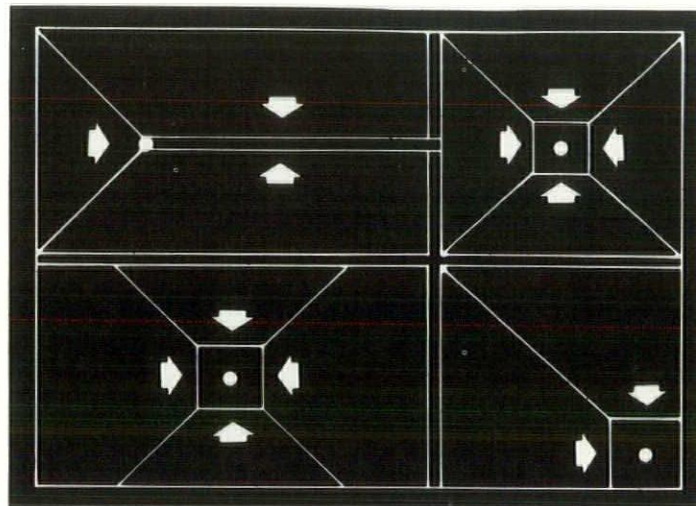
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STAGE III: FINISHED MEMBRANE ROOFING

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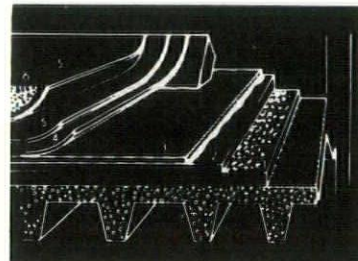
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PUBLIC AWARENESS AND THE CELEBRATION OF ARCHITECTURE

by THOMAS CLAUS, A.I.A.

I would venture a guess that the last time you were introduced to someone as an architect, the first question was, "What kind of buildings do you do?" That's a fair enough question I suppose, but is one that leads me to believe that for the most part, people really don't know what we do and that's our fault.

As architects, the central role of our profession is "architecture" and the built environment. What separates us from builders, engineers, developers is our unique ability to assimilate all physical, natural, socio-economic, human, structural, functional and even legal factors into more than just a building, but a piece of "architecture." That's what we're all about.

Ehrman Mitchell, this year's national AIA president, said it best in his address to the AIA Grassroots meeting:

"Our greatest failing is that we don't talk enough about architecture to the public and not enough about architecture to ourselves. We all know that architecture comes before architects. It seems to me the first thing we need to do is broaden the public's awareness of architecture and the built environment. We must begin a major thrust in building a greater public understanding of what architecture is, what the built environment is. We must build a greater understanding of the public's role in shaping the physical environment, and understanding of how it comes to be, the discernment of its quality and the architects who design it."

Ehrman Mitchell went on to suggest that to increase this awareness, we begin in the schools, colleges and universities, in adult education courses and of course through the public media. "It seems evident that a greater understanding of architecture in the public sector will create a public awareness of those who lay claim to giving it form, utility and delight."

As public awareness increases, so must our accountability. Public scrutiny will demand our sharpened skills. During that past few years we have been preparing by working on both national and local levels in the areas of public influence, legislation, liberalization of ethical standards, including advertising and most recently professional development. Although we didn't ask for it, we supported and provided input for the first state legislation in the country on compulsory continuing education for registration. We have sharpened our professional

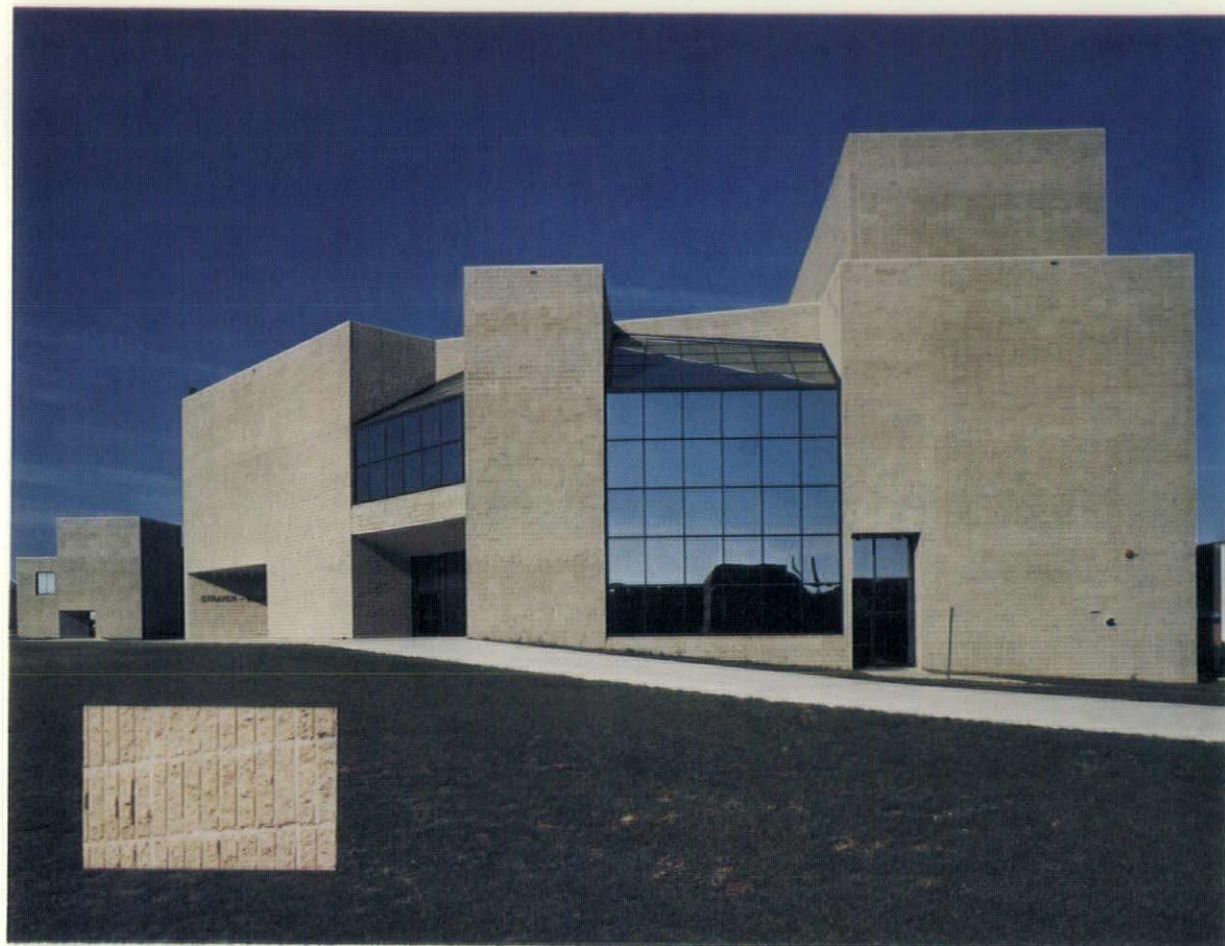
skills at technical seminars and meetings. Additionally, we will sharpen our skills to create a better life through excellence in design that part which makes building into architecture, that part uniquely ours.

To spotlight public attention on architecture during the upcoming year, national, state and local components have planned a year-long "Celebration of Architecture." This will begin with a "Celebration" of the U.S. Capitol at the Grassroots—East meeting in January in Washington, D.C. and continuing at Grassroots meetings in New Orleans and San Francisco. Each AIA meeting will be held at or near a significant architectural site and celebrate it.

Our goals for the Iowa Chapter have been set to meet the challenge of Ehrman Mitchell. In fact, we've already begun. For the first time since 1972, we have coverage of the awards program in the Picture Magazine section of the Des Moines Sunday Register, a number of articles have been written about unusual homes in the Des Moines Tribune, and an increasing public awareness about historic preservation has prompted newspaper coverage around the state. The "Iowa Architect" has increased publications to 6 and its circulation to 5,000. We are moving the Iowa Chapter AIA offices to a streetfront location (see article inside) to increase public visibility. Our January meeting will "Celebrate" the architecture of the Des Moines Art Center designed by Eliel Saarinen in 1949 and expanded in 1967 by I. M. Pei, whose work won an AIA National Honor Award.

Before the year is over, it is my hope that we will have had a year-long "Celebration of Architecture." That we will have had our members interviewed by newspapers, radio, and TV about concerns such as solar energy, historic preservation and public building projects. That we will have involved ourselves in more community projects and activities, established a strong speakers bureau and gone into the classroom at all levels. Wouldn't it be a lot easier to promote our services to a better informed public, convey our ideas to a better informed client, and offer our objectives to a better informed legislature.

Nickolas Pevsner once stated "A bicycle shed is a building . . . Lincoln Cathedral is a piece of architecture." The next time someone asks, I hope it's "What kind of ARCHITECTURE do you do?"



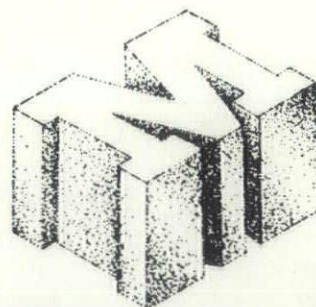
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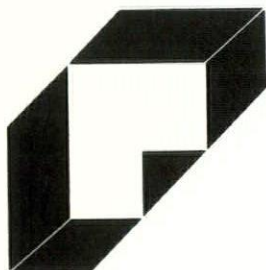


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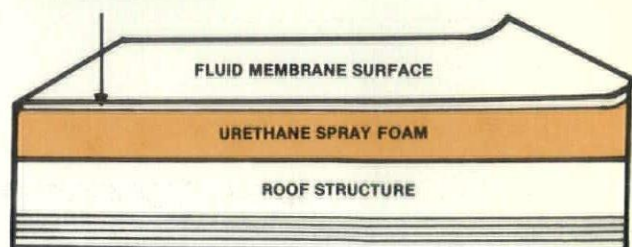
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Open Office Planning

The State of Iowa's New Henry A. Wallace Building

The State of Iowa is finding out what other employers, both public and private, have discovered in the past ten years—that an adaptable open plan *systems* approach to furnishing contributes to economic benefits, including increased productivity.

This result of using modular systems furniture for the new \$10 million, five-story Henry A. Wallace Building in Des Moines is a timely one. For the name of the game in the design and construction of buildings today is increased user productivity. This is particularly true of government buildings. Since the passage of Proposition 13 in California, productivity in the public sector has become an even more sensitive subject.

Along with improved productivity, the open plan provides space-savings, lowered downtime costs, and tax savings. It also increases mobility and adaptability to personal tastes. These are just some of the reasons why the most recent figures from the Business and Institutional Furniture Manufacturer's Association (BIFMA) indicate that sales of systems furniture have been growing at twice the overall sales increase of business furniture in general, and now account for about 40% of all work stations and related storage sales.

Briefly stated, the open plan presents an alternative to the conventional combination of private offices and open bullpens. Instead of static floor-to-ceiling walls, open plan

systems use movable, varying height panels as dividers. These are available in a range of fabrics or finishes from vinyl to oak veneers.

The systems approach of panels and modular components, one of the three basic types of open plans today, was introduced in 1968 by Herman Miller, Inc., Michigan-based manufacturers of systems for office, health care, laboratory and industrial environments. Conceived and developed by Robert Propst, office behaviorist and head of the Herman Miller Research Corporation in Ann Arbor, Michigan, it was called the Action Office® system. Propst's book, published that same year, *The Office—A Facility Based on Change*, is still the accepted reference source on the open plan. It calls for an open-ended, forgiving system that can change as users' tasks and needs change and that can grow—or contract—just as business divisions do.

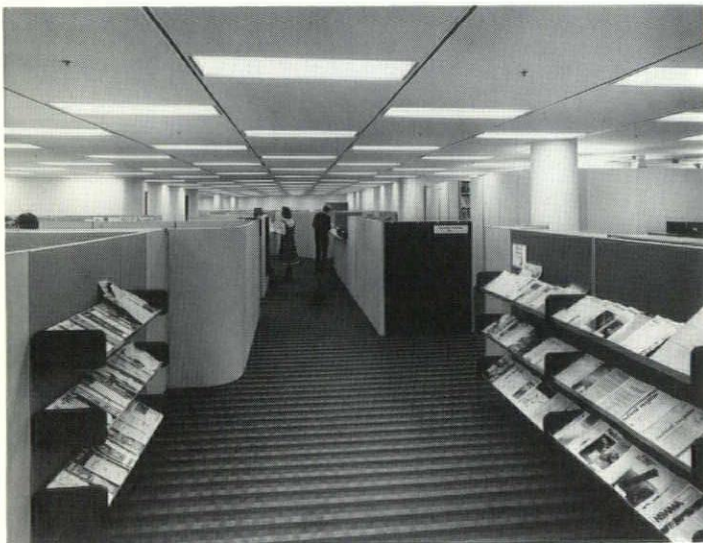
Wallace Building and the Open Plan

This ability to grow or contract fits in perfectly with the criteria for furnishing the State of Iowa's new Wallace Building. Stanley L. McCausland, Iowa's General Services Director, was already familiar with the open plan when work on this building began. He had watched the maturing of the open plan since taking office in 1971. That first year he visited Purdue University in Indiana to study an open plan installation there. Aware of the limitations of open plans that merely combine screens and conventional furniture, particularly in spaces that are not suitable, he instructed the architects for the Wallace Building to design an environment that would accommodate the open plan.

What McCausland wanted from the architects, The Durrant Group of Dubuque, Iowa was "a flexible environment that's warm, inviting, pleasing and relaxing; the opposite of what one expects when entering a government building." Too many of these buildings, according to McCausland, "tend to be massive, overpowering, authoritarian and cold. They seem to say, 'You're coming here to do business with us,' rather than 'We're here to serve you.'"

McCausland was also faced with a tight budget—\$23.3 million dollars for both the Wallace and the nearby seven-story Hoover office buildings. This was another criterion to consider.

Although the Wallace structure was designed primarily as an agriculture building, it also houses several other departments including: The Departments of Environmental Quality, Soil Conservation, and Public Safety (and its Criminal Investigations Laboratories); also the Conserva-



THIS OPEN PLAN AREA in the Henry A. Wallace Building in Des Moines houses the periodical shelving of the Iowa Department of Environmental Quality. The Action Office system, manufactured by Herman Miller, Inc., has been proved to provide adaptability, space savings, lowered downtime costs, tax savings and improved productivity.

tion Commission, the Iowa Natural Resources Council and the State Branch Hygienic Laboratories.

The involvement of these state departments relates closely to McCausland's main planning concern, the need for adaptability. This is a reality in state government which has to be able to add, eliminate or relocate departments and personnel frequently—and quickly.

Bidding

In early 1976, McCausland invited local suppliers to submit proposals for Wallace Building furniture. He also spent three days at the Merchandise Mart in Chicago investigating various alternatives. A specification was then developed to include all the features desired.

"We didn't want to go strictly on low bid," McCausland said. "You can go low bid and not get what you want." He was referring to features such as panel connectors. "Some are cumbersome to manipulate," he said. "That's an important factor."

A bidders' conference was held in June 1976. Leading manufacturers of open plan furniture systems were invited to install mock-ups on the first floor of the Capitol Rotunda. They included General Fireproofing, Hauserman, Herman Miller, Lehigh-Leopold, Steelcase and Westinghouse. Each manufacturer had an hour to make a presentation to a committee and then was asked to leave its mock-up unattended so the committee could examine the set-ups without distraction of a sales pitch. Major subjective factors considered were ease of assembly, appearance and general impression of sturdiness.

Pigott, Inc., a 36-year-old Des Moines furniture distributorship, was invited to bid the Action Office system for both the Hoover and the Wallace buildings. Representing Herman Miller's Health/Science Division, Pigott had already been awarded the contract for the buildings' laboratories. The pattern was repeated in the office space bidding, with the contract once again going to Pigott.

Each agency scheduled to move into the Wallace Building had its own budget for furniture and design services. Each was treated as an individual client by Herman Miller's Professional Service Group planners who made presentations to every agency head.

Since each agency had its own needs, the design criteria varied as did facility solutions. One or two departments with smaller budgets retained some of their old conventional furniture including four-drawer files; others opted for centralized filing and microfiche readers. Yet throughout the five floors, there's a consistent design aesthetic that even carries over from lab to office. This is



THIS SECTION OF Iowa's Department of Environmental Quality in the Henry A. Wallace Building in Des Moines benefits from the use of panels and modular components instead of the conventional office with floor-to-ceiling walls. The Action Office system, manufactured by Herman Miller, Inc., had been shown to increase productivity in addition to providing economic benefits including tax savings, space savings and lowered downtime costs.

obtained via a work station program, uniformity of module sizes, material, color, fabric, seating and signage.

Pigott installed both the office and lab furniture floor-by-floor and the occupants moved in as each floor was finished. When Bud Hook, Director of the Laboratory Division for the Department of Agriculture, dropped by his department's floor one morning he found that, as scheduled, workmen were erecting a closed office with permanent walls for him. He looked around at the rest of the space with its open Action Office system adjacent to the attractive planting and fountain in the building's five-story atrium.

"Change it," he said. "I want to be easily accessible and I want the same adaptability as the rest of my department." He was able to get the change he wanted without any red tape or need to go through channels to General Services.

The open plan arrangement is proving out at the Wallace Building, as it has in other office buildings throughout the country. The same advantages that have been praised by thousands of earlier systems users are what appeals to the employees at the Iowa State building.

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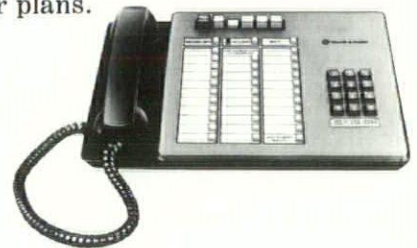
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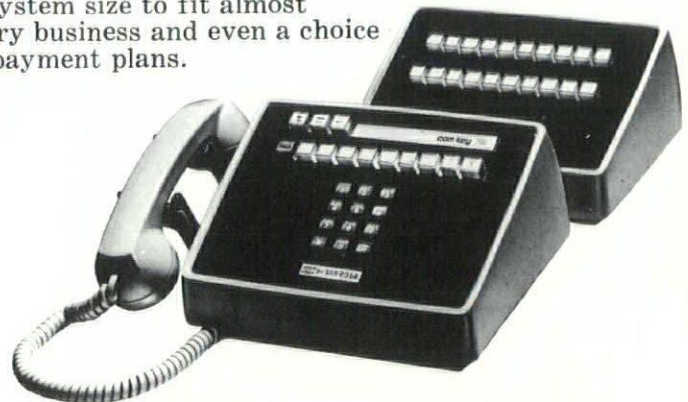
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own areas by simply adding and subtracting components or raising and lowering them in increments of one inch to any desired height. A sit-down desk can be elevated to a stand-up position; a file bin can be replaced by a shelf and placed wherever desired.

Increased Productivity

This adaptability and other advantages of open planning, including economic ones, were easily proved by early users and even sophisticated return on investment analyses. After the Action Office system was developed in 1968, it was credited with affecting not only the cost of space and the cost of changing space but the cost of managing a facility. Its users also claimed improvements in employee productivity and employee morale. Until this past year, however, no definitive measurement of improved productivity as a result of office environment had been documented.

The installation which finally offered proof positive of such increased productivity was the Minneapolis office of the McQuay Group, part of McQuay-Perfex, Inc., manufacturers of heat-transfer products. McQuay uses a production improvement time measurement program that determines the activity its employees perform on a routine basis. Coincidentally, McQuay also moved last year from a bullpen setup to an open plan. When its 430 employees had been in the new configuration less than a year, the company estimated that increased percentage of productivity alone would save in excess of \$200,000.

And this only covered 51% of its people in the time measurement program and didn't take into consideration tax benefits, depreciation, ease of facility change and the like. McQuay and its space planners feel that increased efficiency was obtained through several factors. These include fewer distractions, greater quiet and generally more order.

While such indisputable proof of increased productivity of white collar workers as a result of environmental change has been hard to come by in the past, Bud Hook thinks he'll soon have new evidence of this. Right now, some ten months after his administrative people moved into their new environment, he already has some encouraging indications. He believes that as a result of better communications and increased pride in their surroundings, he's betting more efficiency out of people. He points to the fact that although he has added more people, his department is working well with two fewer administrators.

"It's the doggondest thing I've ever seen," he says. "You don't see people wandering around, visiting with neighbors anymore. Maybe it's because their work stations have become status symbols.

"I've just added seven sections and I'll be bringing in two more," he explains. "We were able to do this easily and quickly without disrupting any of the people in my department. This Action Office system is so versatile it will easily adapt to any changes we need for years and years.



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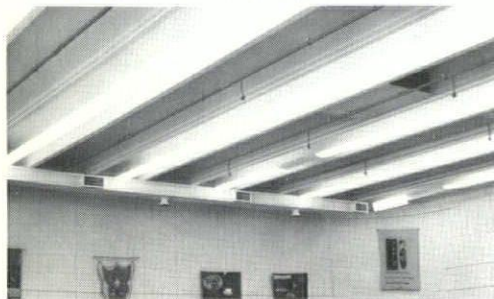
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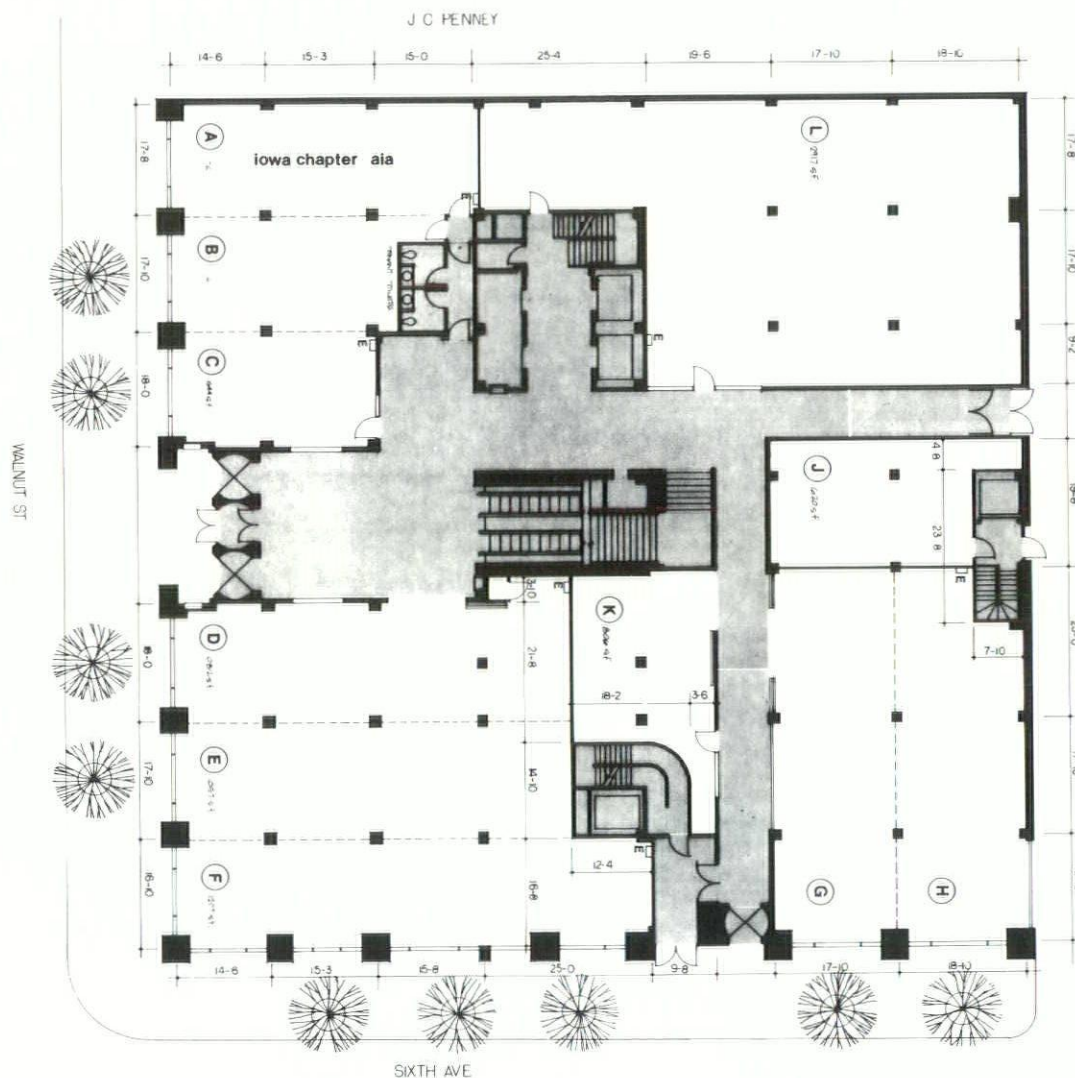


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Chapter Office Move



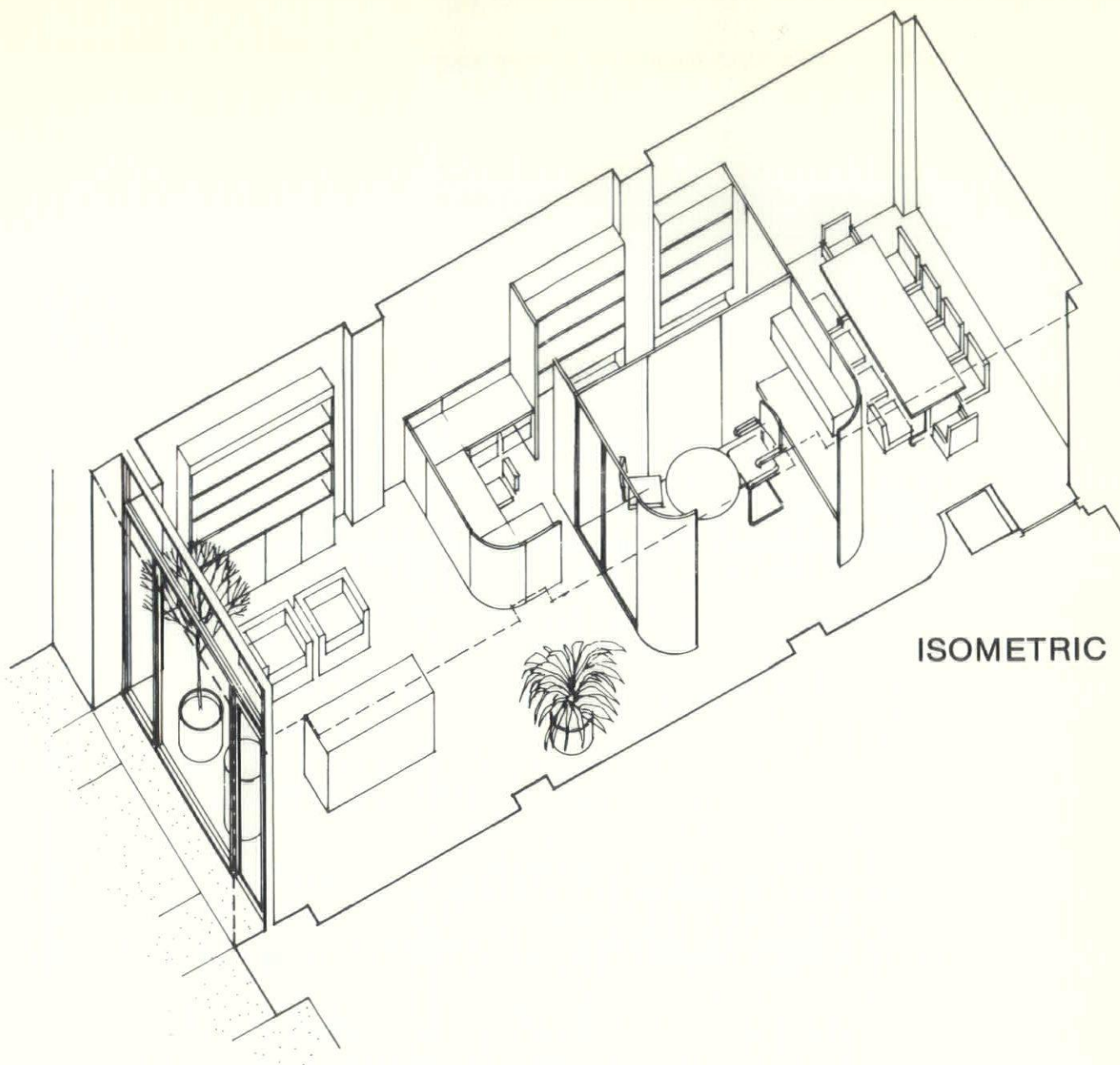
Negotiations are nearly complete for the moving of the Iowa Chapter AIA Executive Office from the 6th Floor of the Des Moines Savings & Loan Building to 512 Walnut Street. The new office will be on the ground floor of the old Iowa Des Moines National Bank building originally designed by Proudfoot Rawson Sauers and Thomas in 1931 in the "Art Deco Style" and currently being remodeled for the Valley National Bank by Charles Herbert and Associates.

➤ In addition to being much more "accessible" and "visible" to the general public, we will have approximately double our present floor space. This will allow us to have:

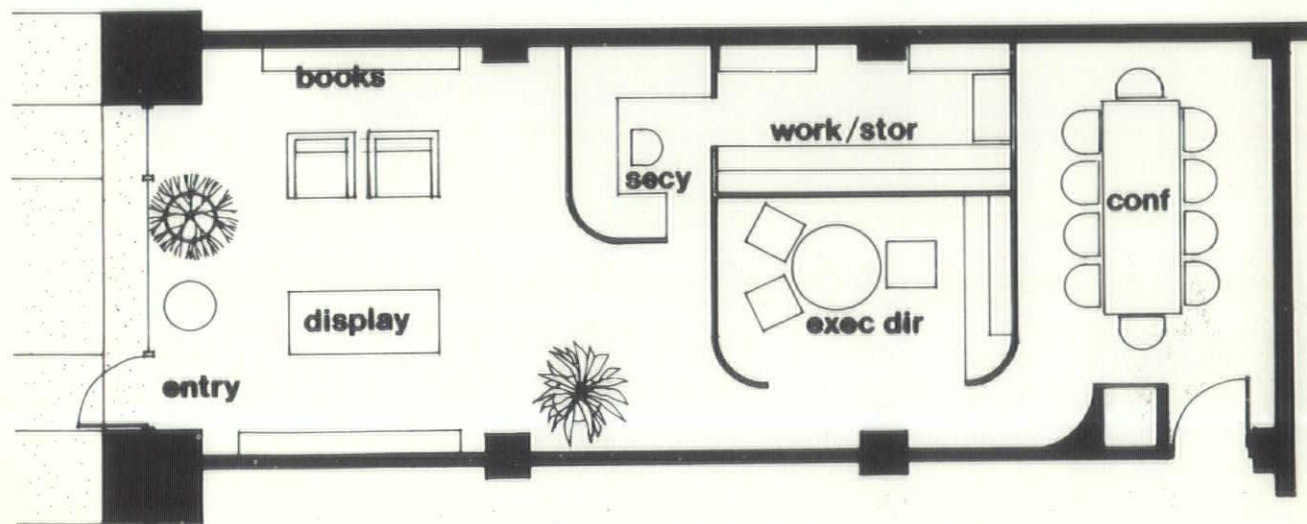
1. Displays in the window and inside such as the Design Awards, traveling exhibits, models of public projects, posters, etc.
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3. Availability of a conference room for use by members.

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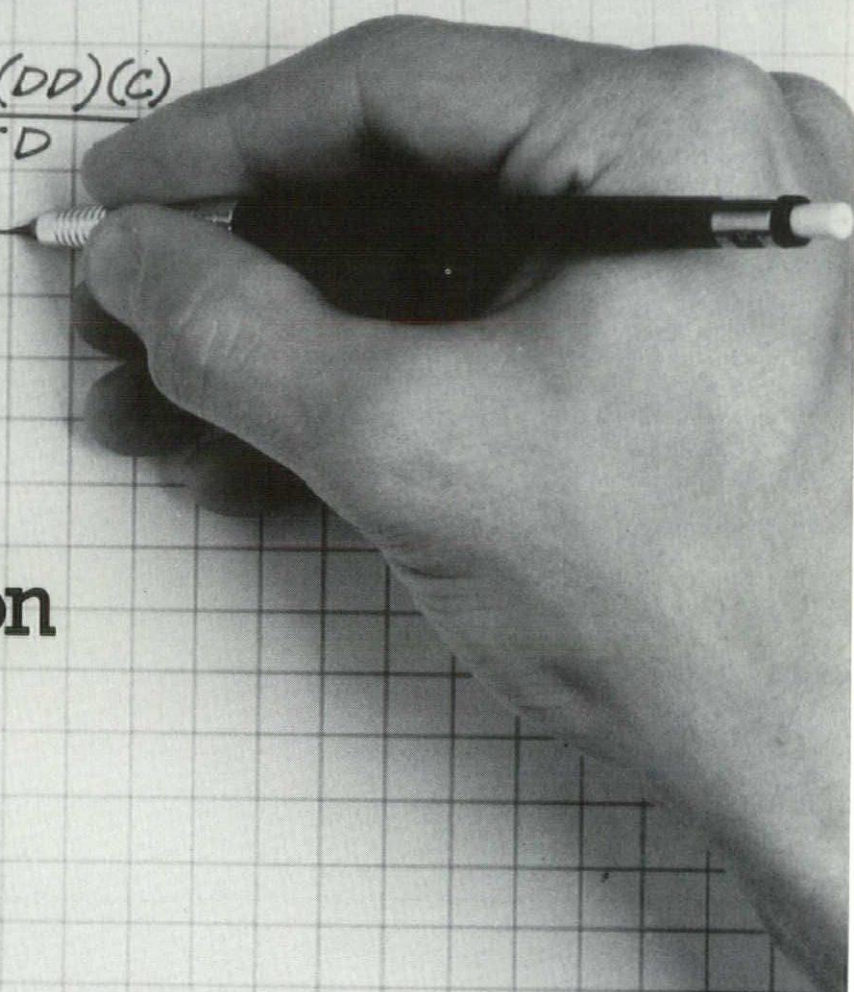
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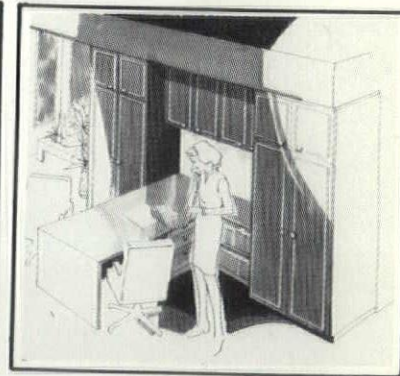
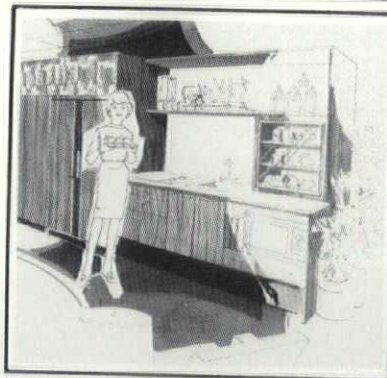
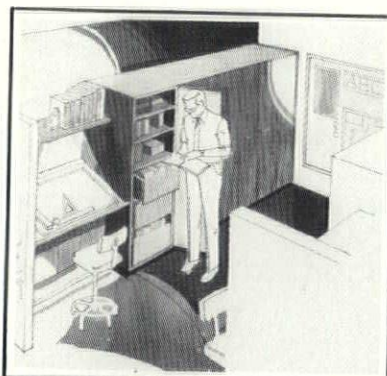
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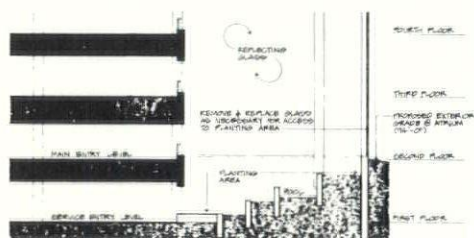
Interior Plantings

The Henry A. Wallace Building atrium is an example of mass planting of plants that is becoming a major design principal popular in major cities throughout the country in todays new construction.

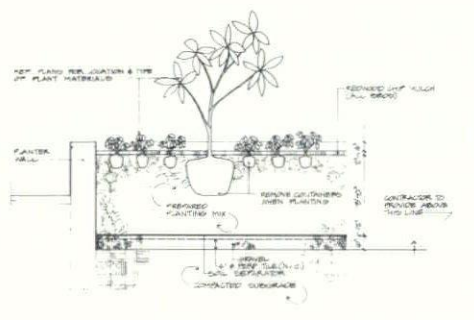
It is an example of close cooperation between the owner, architect, landscape architect, and interior plant specialist. The purpose of the atrium was to take away the institutional look and break down the rigidity of a government building by giving relief to harsh forms. The atrium is a step by level progression of blending the indoor and outdoor environment with species of plants centering around a fountain focal point, resulting in a pleasant surrounding to the occupants' work space and public viewing.

The Durant Group of Dubuque conceived the idea and submitted its ideas for approval. The design included the space and structure necessary to hold the many plants that would enhance the space. Through the efforts of Planned Environments, also from Dubuque, the form and dimension of the plants contributed to different levels of viewing—isolated planting consistent with the four stories of workers' and visitors' viewing.

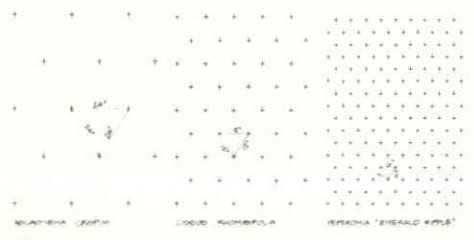
We were consulted as to our thoughts about the space before the bids were let for the project. Many factors had to be considered. Some of the major ones being the quality of natural light and how the sunlight would change with the seasons. Secondly, how seasonal radiant heat and



1 SCHEMATIC SECTION



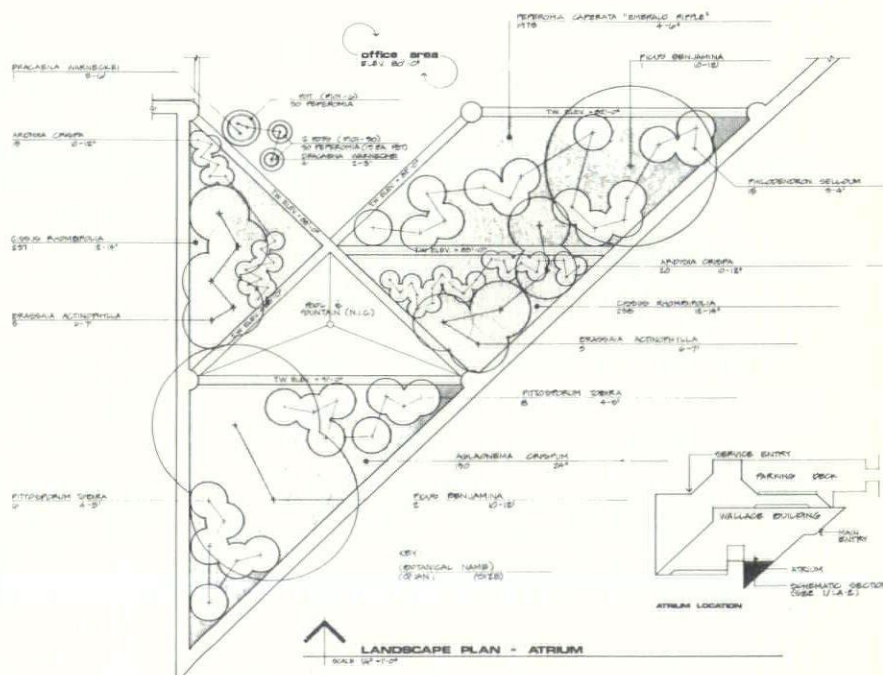
2 PLANTING SECTION



3 SPACING - BEDDING PLANT

PLANT LIST

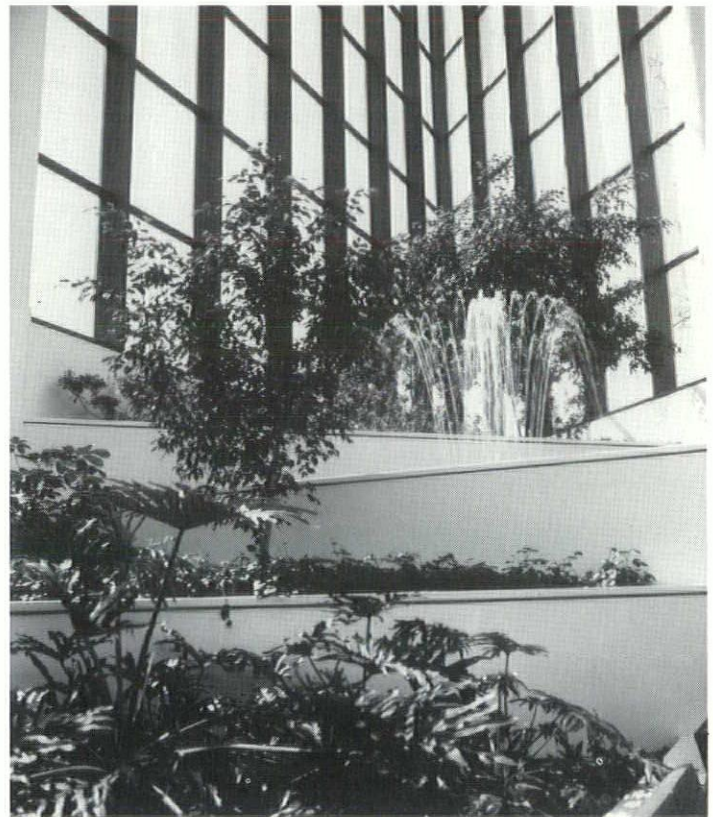
BLANK	SCIENTIFIC NAME	COMMON NAME	SIZE	COND.	REMARKS
0	METASTASIS ACTINOPHYLLA	0-1000000	2-10	HTD	BOOM TIME
0	FLUXUS BURNING	VEGETUS PIP	2-10		FLUX & BOOTH
0	ARIDIA GRASS	CAUSTICUS DEBENT	10-15	HTD	
1	PRACALIA WAKESBEE	WAKESBEE PRACALIA	0-10	HTD	MULTI - 0-10M
A	0	0	0		
0	PHLODENDRON GELLEN	ORANGE LEAF PHLODENDRON	2-10		
0	PISTONARIA CUBRA	JAPANESE PISTONARIA	0-10		
0	PRACALIA CUBRA	PRACALIA CUBRA	0-10		
0	0	0	0		GER 5/1A:2
0	0	0	0	HTD	
0	0	0	0	HTD	
0	0	0	0	HTD	





also lack of it would affect the plants. Thirdly, the selection of plants to enhance the space but also to control the maintenance frequency and give a zero replacement factor. Fourth, any factors that could hold up completion time such as plant availability for correct planting time.

To complete the project once the bidding was finalized the space was prepared for the insertion of plant material. This required 24 cubic yards of 1" pea gravel over the PVC pipes, then 1250 sq. feet of soil separator (1" fiberglass mat). 139 cubic yards of special soil mix was prepared exclusively for the plant material and mixed on the job prior to planting. 1277 sq. feet of redwood chips covered the planting bed. Scaffolding was required to facilitate the moving of the soil into the different levels; plants were then brought in the same way and planted. The job from start to finish took 359.6 man hours of time to complete.



The quantity of plants together with the botanical names (and common names) are listed below:

- 10 *Brassaia Actinophylla* (Schefflera)
- 3 *Ficus Benjamina* (Weeping Fig)
- 15 *Philodendron Selloum* (Saddle Leaf Philodendron)
- 14 *Pittosporum Tobira* (Japanese Pittosporum)
- 130 *Aglaonema Crispum* (Chinese Evergreen)
- 475 *Cissus Rhombifolia* (Grape Ivy)
- 2055 *Peperomia Caperate* (Emerald Ripple Peperomia)

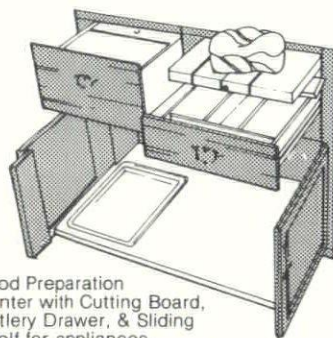
Currently, continuing maintenance is being administered to the plants, averaging 4.5 hours per week. All plants are doing very well and the goal of zero replacements has been achieved.

Announcing...



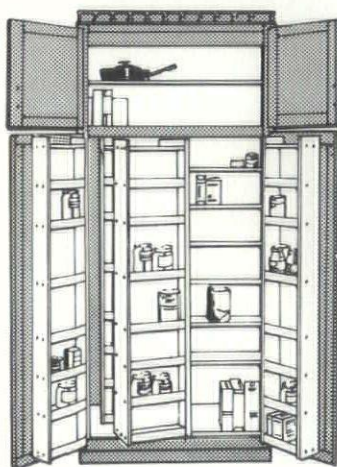
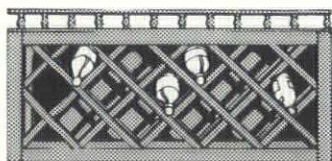
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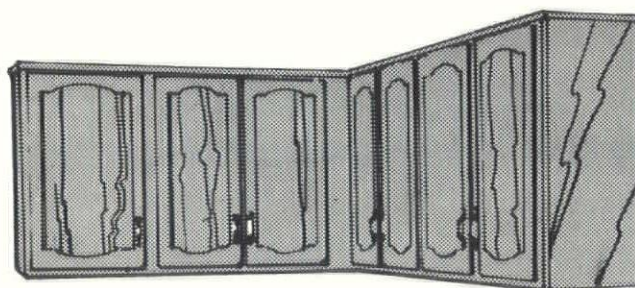


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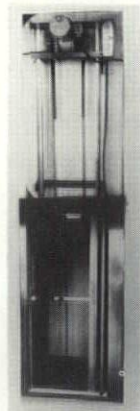


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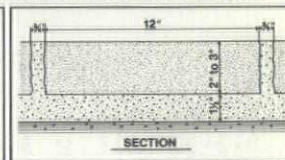
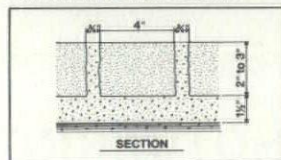
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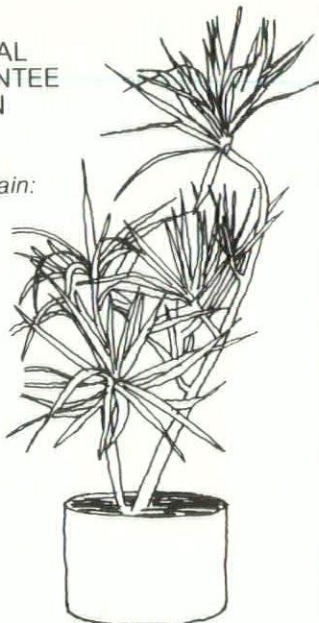
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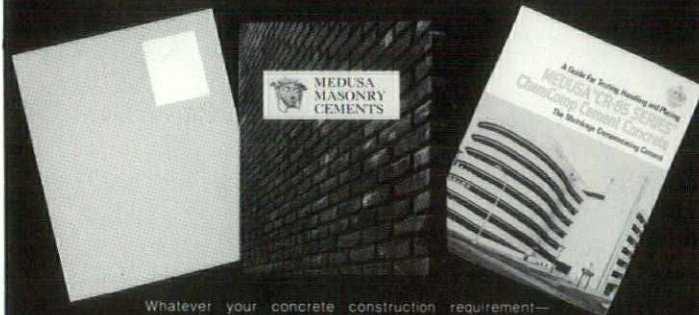
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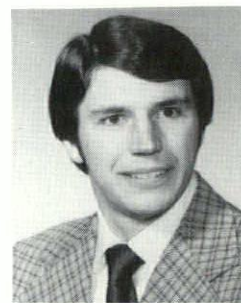


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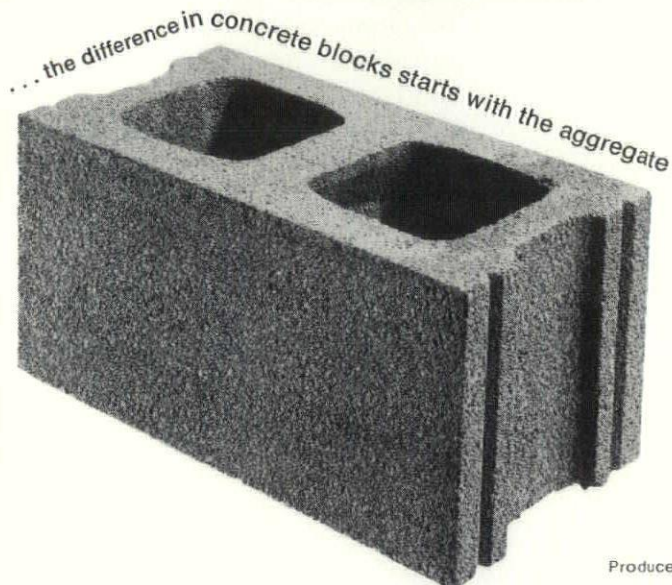
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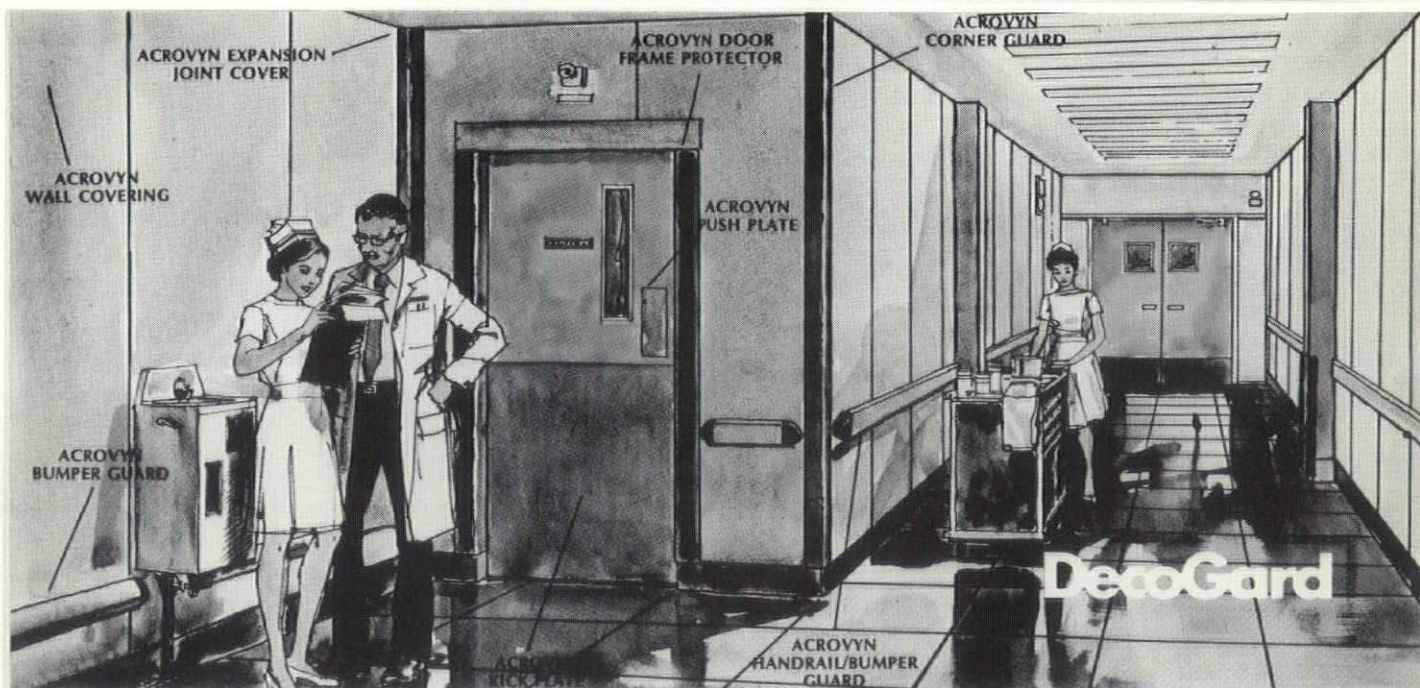
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NEWS

Rehabilitation of Old Buildings

Tax Reform Act
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Washington, D.C. 20243

The rehabilitation of older buildings has gained momentum as a result of tax incentives passed by Congress in late 1976. 516 rehabilitation projects in 41 states, involving an investment of more than \$320 million, have already qualified for incentives which were established by the Tax Reform Act of 1976. The intent of the tax incentives is to stimulate preservation of historic commercial and income-producing structures by placing rehabilitation on an equal footing with new construction.

To be eligible for the tax incentive provisions, rehabilitation work on designated historic structures must comply with the Secretary of the Interior's "Standards for Rehabilitation." These ten standards are broadly worded to ensure that the significant historical and architectural features of a building are preserved in the process of rehabilitation work. Technical information on common rehabilitation practices such as exterior cleaning of masonry, repointing mortar joints, window and roof repairs, and energy conservation is available to help owners meet the Standards.

Property owners must submit an application describing the historic character of a building and the rehabilitation work to State and Federal preservation officials for review in order to obtain certification.

Upwards of 125,000 historic structures throughout the nation would be eligible for the preservation incentives, according to estimates by the Office of Archeology and Historic Preservation of the U.S. Department of the Interior. Owners of nineteenth and early twentieth century hotels, breweries, commercial buildings, schools, residences, railroad stations, mills and industrial buildings already have applied for the incentives, and many more are expected to apply as the preservation provisions become more widely known. Eligible structures include those listed in the National Register or within National Register historic districts; buildings within certain local or State-designated districts can also qualify for the incentives.

The preservation provisions of the Tax Reform Act allow property owners to amortize the costs of a rehabilitation over a five-year period or to depreciate the costs of a substantially rehabilitated structure at an accelerated rate. The incentives are limited to depreciable structures.

The rehabilitation incentives are contained in Section 2124 of the Tax Reform Act (Public Law 94-455) and do not expire until June, 1981. For more information about the program, contact:

The Revenue Act of 1978 provides a new tax incentive—a 10% investment tax credit—to encourage the rehabilitation of older buildings. The new incentive contains the following provisions:

1. The building must have been in use for 20 years or more and 75% or more of the existing external walls must remain in place as external walls after the rehabilitation.
2. The credit applies to buildings used for industrial or commercial purposes including factories, shops, and hotels, but it cannot be used in connection with rehabilitation of residential rental properties such as apartment houses.
3. The tax credit applies to expenses made after October 31, 1978. Acquisition costs do not contribute to the amount on which the credit is figured. The rehabilitation improvements must have a life of 5 years or more.
4. If the tax credit is to be used for a certified historic structure, the taxpayer must have the rehabilitation certified by the Department of the Interior. This certification requirement applies to individually listed National Register buildings and buildings within National Register and State and locally designated districts (when the statute creating the district has been certified) that have already been certified for significance.
5. The investment tax credit cannot be used with the historic preservation amortization provision (Sec. 191); however, it **can** be used with the historic preservation accelerated depreciation provision (Sec. 167(o)).
6. An investment tax credit can be used by certain lessees as long as the owner of the property consents to the use of the tax credit by the lessee. Lessees of government-owned buildings are not eligible for the tax credit.

Unlike the tax incentives of Section 2124 of the Tax Reform Act of 1976 which are deductions from gross income to reach taxable income before figuring actual taxes owed, the investment tax credit is figured as 10% of qualified rehabilitation expenses and deducted directly from the taxes owed by the taxpayer. The attractiveness of the investment tax credit as compared with that of the Section 2124 provisions will depend entirely upon the taxpayer's individual situation.

Herbert E. Duncan Jr., FAIA Wins AIA Kemper Award

The American Institute of Architects has selected Kansas City architect Herbert E. Duncan Jr., FAIA, to receive its prestigious Edward C. Kemper Award for 1979.

Named in honor of the late director of AIA, the Kemper Award will be bestowed on Duncan in recognition of "his significant contributions to the Institute and the profession of architecture." The award will be presented during the 1979 AIA National Convention, June 3-7, in Kansas City. Last year's recipient was Carl L. Bradley, FAIA, of Fort Wayne, Ind.

Duncan was chosen by the AIA Board of Directors, who cited "his established record of durability and hard work" as chairman of 15 national AIA committees and task forces since 1970. He was particularly recognized for his "most significant and innovative efforts" in two areas currently of great concern to architects: energy and design-build.

His efforts in energy—as a member of the Energy Committee for three years, chairman of the task force which produced the AIA "Energy Notebook," and chairman of the AIA Corporation Building Committee charged with the energy redesign of the AIA headquarters—are planned "for the guidance and use of practicing architects across the country," said the award nomination.

Duncan currently is serving a three-year term as chairman of the AIA Design-Build/Contracting Task Force to monitor and evaluate the impact on the profession of a three-year experiment, approved by the 1978 AIA convention, allowing architects to become involved in the construction process as well as the design of their projects. His interest in the design-build process stems

from earlier AIA Committee efforts to promote the architect role in a team approach to project development. Involved with national design-build efforts since 1974, he has worked on alternative delivery methods "to provide architects with better tools for meeting the needs of the public."

Active in the AIA for 15 years, Duncan has served as president of the Kansas City Chapter/AIA and as director of the Missouri Association of Registered Architects and was instrumental in that group becoming the Missouri Council of Architects/AIA. He was elected to the national AIA Board of Directors in 1972 and served as chairman of AIA's Professional Practice Commission as well as numerous committees and task forces. In 1974, he was elected to the AIA College of Fellows and served as chairman of the Jury of Fellows in 1978.

Duncan, a native of Kansas City, received his Bachelor of Architecture degree from Washington University, St. Louis, in 1954. After serving as a Navy officer during the Korean conflict, he returned to Kansas City and joined the firm of Herbert E. Duncan Associates in 1958. Since 1972, he has been president of Duncan Architects Inc., a medium-sized firm involved in design and programming for multi-family housing, office buildings, hotels, schools, and retail shopping. Duncan also is treasurer of PBNMML Architects Planners Inc., a 25-person firm working on a \$37-million office building for the State of Missouri and the \$40-million Hyatt Regency Hotel in Kansas City.

In community affairs, Duncan has served as chairman of the Lake Quivira (Kan.) Board of Zoning Adjustment, as a member of the Kansas City Chamber of Commerce, and as a director of the Lyric Opera. He also is on the Advisory Board of the University of Kansas School of Architecture.

For further information contact: Pete McCall, Public Relations Department, The American Institute of Architects, 1735 New York Avenue, N.W., Washington, D.C. 20006. Telephone: 202/785-7265.

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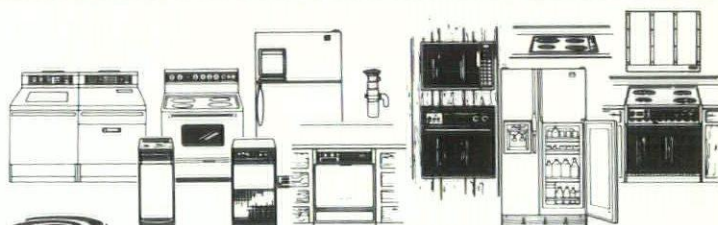
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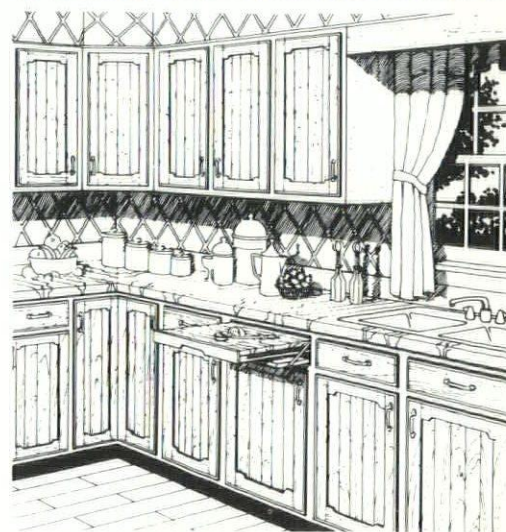
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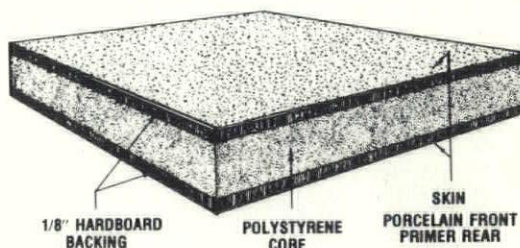
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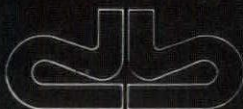
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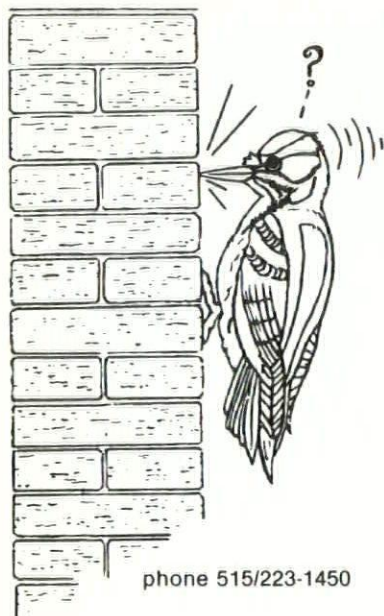
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
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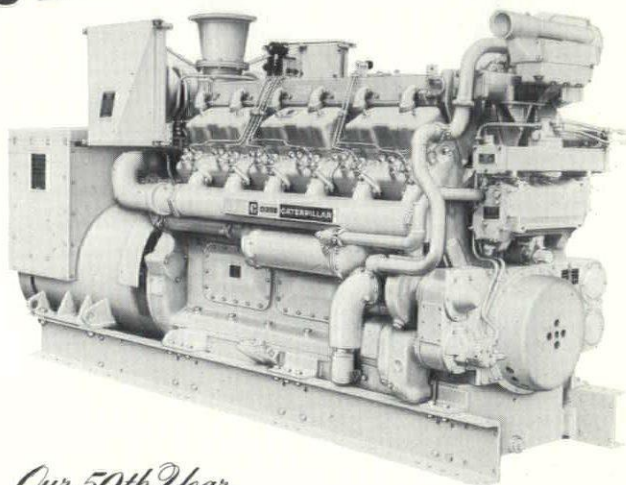
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