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NEW HAVEN, CT—Four steel cables suspended from a center concrete arch give the intricate 5,500-square foot roof of Yale University's David S. Ingalls Hockey Rink the appearance of a colossal whale swimming across the campus.

Unfortunately, for the last three years, the "whale" wasn't the only one doing the swimming. Because of a leaky roof, Yale Hockey team members many times had to battle water puddles as well as their opponents.

F.J. Dahill Co., Inc., a local roofing, structural remodeling contractor, was chosen to roof the whale with an EPDM membrane manufactured by the Carlisle Tire & Rubber Co., Carlisle, PA.

The most difficult phase of the job was to develop a staging system of ladders which would conform to the roof's irregular shape and allow the crews to work. To support the ladders, Dahill crews nailed off 2 x 4 boards between the 23,000 lineal feet of battens covering the roof's surface. Two ladders were placed so that approximately 170 rolls of Carlisle EPDM, ranging from 10 to 103 feet long, could be placed in the 4 1/2-foot gap between battens.

The EPDM sheets were loose laid over the old neoprene material and nailed at six-inch intervals at the base of each batten. A 12-inch piece of elastoform was then secured over the battens. When a row was finished, one of the ladders was moved and the process started all over.

Flashing was secured by inserting a metal band in the large reglet joints at the top arch and bottom wall and covering it with a sealant.

Old neoprene on the 6-foot x 360-foot concrete deck at the roof's bottom was stripped and replaced with EPDM that was completely sealed with Carlisle adhesive.
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BWBR designs national Girl Scout center

The new Edith Macy Conference Center for Girl Scouts U.S.A., designed by BWBR Architects of St. Paul, opens this month. Called a "university in the woods" by National Executive Director Frances Hesselbein, the four structures incorporate native stone, natural cedar siding and shingles appropriate to the rural Westchester County, New York site.

Project architect Delano Erickson says the conference center is designed to conserve energy. Its bands of south-facing windows allow heat, light and fresh air to penetrate, while the north side is earth-sheltered to keep indoor temperatures stable. It will include an auditorium, meeting rooms, an audio-visual resource center, a commons area and dining facilities to serve 200 participants in the main building, and accommodations for 100 in the three lodges.

Site development and construction of the 65,000 square foot facility is expected to cost about $9 million.

McKnight funds aid buyers of energy-saving condos

Families will soon be moving into this new 29-unit condominium development in Lyn Park, a corner of urban renewal in north Minneapolis noted for its experimental solar homes. These, too, take advantage of the sun with triple-insulated windows facing south toward the downtown skyline.

The installation of these windows and incorporation of other energy-saving features into the design for a selling price of up to $70,000 allowed potential buyers to take advantage of 11 3/4 percent interest loans offered through the Minneapolis-St. Paul Family Housing Program. This fund is supported, in part, by the McKnight Foundation.

Despite a bleak location, the energy saving features and other amenities have attracted buyers. The first phase is sold out and a second phase is under construction a few blocks away.

These "Boardwalk Citihomes" were designed by Israelson and Associates Engineering and developed by Sherman-Boosalis.

Cranbrook takes its design mission to the public

Innovative since its founding, the Cranbrook Academy of Art standards to earn fresh applause for spawning a new idea called "Design Michigan." It is essentially a public information program designed to promote the problem-solving potential of quality design to the leaders of business, industry and communities.

One of "Design Michigan's" primary tools is a six-page newsletter titled Michigan Design Quarterly, which is written with enough depth and clarity to appeal to design professionals and interested laypeople alike. The two issues published thus far include such topics as: "Personality and the Design Process" (about working with the workers when designing office interiors), "The Role of Architectural Design Management in industrial productivity," "Design for Lifespan" (about environmental planning for people of all ages), and using graphic design to improve community identification. Three columns, "Know Your Designer," "Resources," and "News" round out the contents.

The editor, Jack Williamson, also directs "Design Michigan." It is funded by the Michigan Council for the Arts and the National Endowment for the Arts. For more information, write "Design Michigan," P.O. Box 801, Bloomfield Hills, Michigan 48013.

AIA to celebrate its 125th anniversary at Honolulu convention

When the nation's architects convene June 6-9 at Honolulu under the thematic banner, "A Quest in Time," the AIA will bestow some of its most discriminating awards on the co-authors of a three-volume book, a Portland office building, and a New York City firm whose founding partners were high school friends. The recipients are:

- San Francisco architect Ernest Born and art historian Walter Horn, who, as co-authors of The Plan of St. Gall, have produced "a masterpiece of the art of book production." The three-volume book was 20 years in the making; Dr. Horn spent seven years in preparing the text, and Mr. Born another thirteen years in designing and organizing...
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**Who gardens? Gallup says increasing millions**

A 1981/82 survey by the Gallup organization has determined that 38 million American households currently are cultivating gardens—a four-million increase over the 1980 figure. The survey also spotted a growing trend toward community gardening. An estimated 1.5 million households are sharing neighborhood plots. Altogether, the individual and community gardens now produce $16 billion worth of food annually. Gardens For All, a national garden advocacy group, sponsored the national survey, which can be purchased ($150 for all but educators and extension agents, who buy it for $50). Brief summaries are available by writing to Gardens For All, 180 Flynn Avenue, Burlington, VT 05401.

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**Restoration planned for Minneapolis city hall**

Minneapolis City Council President Alice Rainville and Mayor Donald Fraser have asked the City Hall Committee to develop a plan to revitalize Minneapolis's historic city hall.

From the outside, Long and Kees' sturdy building designed in the Richardsonian Romanesque style looks much as it did when completed in 1906. Inside, however, only the five-story rotunda with its stained-glass windows and Father of Waters statue remain. The rest of the building, includ-
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Construction at Peavey Company’s Hastings Flour Mill had to be planned to meet two very important criteria—uninterrupted customer service and strict sanitation standards. Working with three general contractors and the engineering firm of Conkey and Associates, Bladholm helped meet those critical criteria. Bladholm supplied and erected pre-cast concrete planks and quad-T wall panels for the warehouses and three stair towers, and did it right in the middle of an ongoing flour mill operation. Bladholm also met the tough sanitation codes of the Federal Food and Drug Administration, the U. S. Department of Agriculture and Peavey Company through careful design that virtually eliminated all horizontal surfaces, and the use of smooth non-porous surfaces and on-site refinishing. Pre-cast met all the requirements and went up quickly even in 20-degree below zero weather and at heights of 150 feet. "We are satisfied with both the quality and service that Bladholm provided," says Merlin L. Anderson, Director, Mill Operations for Peavey Food Group. When planning your next building, look to Bladholm for the versatility of precast concrete the know-how of the experts and, remember, Bladholm engineers also offer design assistance.

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Guess Who's Staying after Dinner?

RECALLING THE DAYS WHEN FAMILIES WERE EXTENDED, NOT NUCLEAR, SOME CITIES ARE ALLOWING "GRANNY FLATS" AS SOCIALLY BENEFICIAL EXPERI- DENTS.

In an article titled "Why Granny Flats Are a Good Idea," appearing in Planning (February), Washington planning consultant Patrick H. Hare writes that he believes housing for extended families can be substantial. Granny flats are small, self-contained, removable dwelling units designed to be installed in the backyard of an existing single-family home. Writes Hare, "They permit adult children to take care of aging parents who need some measure of support and companionship."

Last communities see visions of instant shantytowns cropping up throughout their neighborhood, the term "echo housing" for "elder cottage housing opportunities" has been proposed. "Removable echo housing can take any number of forms," Hare states, "from kneel construction to mobile homes. The issue is not so much the physical form as it is the changes in public policy that would open up single-family neighborhoods to new social patterns."

Alley Ooops

IT WAS A MISTAKE, SAYS AN ARCHITECT-OBSERVER, TO LET THE URBAN ALLEY GO TO POT. Bill Voelker, an assistant professor at the University of Illinois School of Architecture, thinks it's a shame that we've allowed the city alley to fall into disuse as a positive environmental force. "Alleys," he writes in Urban Land (February), "have life all their own: Tin Pan Alley, Alley Cat, Torpedo Alley, Gasoline Alley, Blind Alley, Dark Alley, 'right up your alley.' The ambience of the alley is opposite that of the prototypical suburban shopping mall. The alley's wayward, regimented scale is a refreshing contrast to the predictability of the mall experience and to the spaces to which we are subjected most everywhere else as well." Voelker grants that many service alleys are dreary places that might be left well enough alone. Others, however, are "visual and economic opportunities waiting to occur, to be turned into a pedestrian carpet of varying patterns and surprises in both the horizontal and vertical planes." The development of selected alleyways can allow for convenient shortcuts and give an urban area a continuity which eliminates some of the need for motoring and parking.

TV for Better or Worse

NOTHING LESS THAN DEMOCRACY ITSELF MAY BE AT STAKE IN THE NEW AGE OF TELECOMMUNICATIONS TECHNOLOGY. So writes a Rutgers political science professor named Benjamin Barber in "The Second American Revolution," appearing in the provocative new magazine Channels (February-March). He argues that the "first age of television" was characterized by air waves scarcity that spawned three huge national networks—effectively a monopolized system of communication. Not all bad, he says, because it offered the country "the semblance of a national culture and national political norms" through which we might arrive at the "consensus indispensable to national unity."

Now, Barber worries, America is embracing an entirely new system of telecommunications that will offer the prospect of a "wired society" based on two-way and multiple-channel cable TV, satellite distribution, video discs, video cameras and recorders, and access to remote computers and data banks. "Already," he notes, "in some places people are using interactive television to relax, look, talk, vote, play, shop, inform themselves, express opinions, secure their homes, and go to school."

What's so wrong about all that? Barber describes three emerging scenarios, each with "far-reaching consequences." He calls them "The New Tower of Babel," "The Corporate Big Brother," and "The Electronic Town Meeting." The first, he fears, could fragment viewers into different self-interest constituencies where people need talk only to themselves and their clones. The second, in which the capital-intensive task of wiring America for cable would be controlled by the most powerful corporations, sees the Corporate Big Brother making us "pawns of a technology that controls us even as its versatility and diversity let us think we have mastered it." The third, "The Electronic Town Meeting," holds out the promise of bringing the citizenry together across time and place so that they may confront each other "in a continuing process of mutual exploration, deliberation, debate and decision-making." But for this process to work in a truly democratic fashion, the new age of telecommunications must offer its knowledge-enhancing properties to the rich and poor alike. "Today," he concludes, "equal opportunity may depend as much on equal information and equal access to communication as on economic equality; with cable television, this becomes a far more realistic aspiration."

The Shore Dimly Seen

DESPITE ALL EVIDENCE TO THE CONTRARY, OUR LEADERS ACT AS IF THE FUTURE WILL TAKE CARE OF ITSELF. And Russell W. Peterson, author of "Nearsighted Leaders, Long-Range Challenges," in Technology Review (April), brings impeccable credentials to the arena. They include a Ph.D. in chemistry, a stint as governor of Delaware, president of the National Audubon Society, and chairman of the Global Tomorrow Coalition.

Mr. Peterson is perturbed. "It is puzzling," he writes, "that the United States, with the most sophisticated data-processing systems in the world, a high degree of computer-modeling expertise, and unexcelled policy-analysis capability, has so long resisted establishing even one group for conducting global analysis and planning at the highest level of government, where it is needed most."

He is especially puzzled that in a society where long-range planning by corporations is considered essential, it is somehow unsavory for the government to do so. Smacks of communism, say the bureaucrats. To remove the mote in

continued on p. 89
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The concept is simple. Provide all electronic functions of a professional wired together system. Put sensing and control into one easy-to-use device. Use large scale integration of solid state components to achieve lower cost and greater reliability. Here are some of the exciting features:

Invisible Protection. The Midex 55 protects your home using exactly the same technology that police radars use to catch speeding cars and trucks. When you are not at home, the Midex 55 generates a low energy radar field that detects anyone who moves in a designated area of your house. The protection pattern is an adjustable tear drop shape with maximum dimensions of 50 x 20 feet.

Loud Alarm. When the system detects an intruder, it turns on a loud police type electronic siren. The sound is loud enough to cause pain. It is loud enough to drive a burglar away before he can steal or damage your valuables. It is loud enough to alert your neighbors and, more important, loud enough to warn you not to enter your home before the police arrive.

Computerized Controls. To turn the system on, you punch in your personalized 4 digit access code. You now have 30 seconds to leave your home or office. When you return, you enter and disarm the system with your access code. You have 30 seconds to do that also.

When the Midex senses an intruder, it remains silent for 30 seconds. It then sounds the alarm until 8 minutes after the burglar leaves. The alarm then shuts off and resets, once again ready to do its job. This shut-off feature, not found on many expensive systems, means that your alarm won't go wailing all night long while you're away.

Standby Power. Should AC power fail or a smart burglar cut your AC power lines, the Midex 55 automatically switches to FAILSAFE operation using a built-in rechargeable battery pack. You are protected no matter what.

EXPANDABLE SYSTEM

You can set up the Midex in your own home in minutes. It looks like a stereo component. Just plug it into a wall socket, aim and adjust its protection pattern and connect two wires to the powerful alarm blast horn SP-30. If you wish, you can connect two alarm blast horns. If you connect 2 blast horns, we recommend one outside and one inside. A test light allows you to easily determine the area of coverage of the protection pattern. A thumb wheel lets you adjust it to your needs.

As an extra security measure, you can connect one or more panic buttons to the Midex. The panic buttons activate the alarm even with the radar protection pattern turned off. But even if you don't use the expansion features, the Midex is complete, ready to protect you, just as it arrives in its well-protected carton.

The powerful blast horn has a 120dB output and makes a sound so loud it causes pain.

U.L. APPROVED SYSTEM

If you have owned a burglar alarm for more than a year, there's a good chance that it has required service. The Midex, however, is solid state and built with the same heavy duty components in industrial systems. The Midex is made by Solfan Systems, Inc., the leader in the production of radar detectors for commercial and industrial security systems. Solfan has made more than half a million industrial radar sensors and over 100,000 Midex 55. Will the Midex ever need service? No product is perfect. If you ever have a problem, call us on our toll free "help line" at (800) 227-8167. The product has a limited 1 year parts and labor warranty.

STANDING BEHIND A PRODUCT

The Midex protects more than 100,000 American homes. But the true test of how it performs is in your home or office. That is why we provide a one month trial period. We give you the opportunity to see how fail safe and easy to operate the Midex is and how thoroughly it protects you and your loved ones. Decide after one month whether or not you want to keep it. If you decide to keep it, you'll own the best. If not, return your unit for a full and prompt refund. There is no risk.

Purchase the Midex 55 now for $199.95 and the SP-30 blast horn for $39.95. We recommend the purchase of two blast horns. To order, simply send your check to the address shown below. California residents add 6% sales tax. Credit card buyers may call our toll free number below. There are no postage or handling charges. The unit will be sent to you complete with all instructions.

Midex gives you everything you could possibly expect from a burglar alarm: 1) a professional grade system at a very reasonable price, 2) toll free telephone assistance 3) the chance to buy a unit in complete confidence, knowing that you may return it if it's not exactly what you want. You can't lose.

Computer technology has produced the ultimate security system. Order your Midex 55 without obligation today.

The Midex 55 alarm system measures only 4" x 10 1/2" by 7" yet protects you like much larger and expensive security systems.

STANDING BEHIND A PRODUCT

The Midex protects more than 100,000 American homes. But the true test of how it performs is in your home or office. That is why we provide a one month trial period. We give you the opportunity to see how fail safe and easy to operate the Midex is and how thoroughly it protects you and your loved ones. Decide after one month whether or not you want to keep it. If you decide to keep it, you'll own the best. If not, return your unit for a full and prompt refund. There is no risk.

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Computer technology has produced the ultimate security system. Order your Midex 55 without obligation today.
As the information society emerges, the role of the professional expands. How should the professional be prepared? What must he prepare for? How do roles and responsibilities shift in a mass society? What happens to traditional values? At the 32nd Aspen International Design Conference, by addressing ourselves to such questions and by crossing professional boundaries, we hope to illuminate common problems and strengthen common concerns.

George Nelson, Program Chairman
Call on the brick and block wall specialist to give your buildings added fire protection.

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Other samples of area projects include: Control Data, Minneapolis; Citibank of S.D., Sioux Falls; Metropolitan Sports Center, Bloomington; Fairmont Hotel, Denver; American Airlines Computer Center, Tulsa; Target Stores, Minot, Sioux Falls; Sioux City, Rapid City, the Radisson South Hotel, Bloomington.

For complete information on how Gage Brothers can cast a new dimension on your next building project, contact: Al Gage, 605-336-1180.

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Ellerbe Associates, Inc.
Project: James Whitcomb Riley Hospital for Children Indiana University Medical Center Indianapolis, Indiana

History and tradition are highly important and valued ingredients in the personality and character of Riley Hospital. It was recognized early in the design process that the older Riley buildings contained those elements of color, texture, and scale appropriate to the warmth and personalization expressed in the “design criteria.”

The scale of the older Riley buildings and their courtyards give the first clue to the massing of the proposed new construction. (612) 855-2000

Arvid Elness Architects
Project: Creek Ridge Office Building Bloomington, MN

Located between W. 78th St. and 494, Creek Ridge is a 30,000 sq. ft. office building over three floors. Nine Mile Creek runs diagonally through the site providing a natural point of focus for the building’s orientation. The building is sited on the ridge overlooking the creek and the tree line and attempts to place the office space “into” the natural setting.

The parallelogram-shaped building has a flush face to the creek side and a stepped face to the entry side. The flush face captures the view out onto the creek while the stepped facade acts as a sun screen to the office space to the southwest. (612) 339-5508

Lillyholm, Young & Gleeson
Project: Market Place St. Paul, Minnesota

An exciting new renovation in St. Paul’s Lowertown, currently in the design phase, will include loft-style condominiums and 26,000 square feet of retail space in a turn of the century six-story warehouse building.

Lillyholm, Young & Gleeson, designers of several large scale condominium/renovation projects in recent years, were selected to develop this space to complement the adjacent new location of the St. Paul Farmer’s Market. The post and beam interior will be retained with a new atrium extending from lower level restaurant and retail shops to the rooftop skylight. (612) 227-7667

Baker Associates, Inc.
Architects, A.I.A.
Project: Nicollet Plaza
Minneapolis, MN

Nicollet Plaza is a mixed use development proposed by Architect and Developer Edward Baker for Downtown Minneapolis on the Mall at 6th Street. The project consists of a 42-story office tower of over 750,000 square feet which includes retail space

and a 440-room hotel apartment tower, both rising from a four-story retail and commercial space base, with restaurants and bars. Retail shops will be provided along the Mall retaining the traditional shopping street.

The commercial floors will open to an enclosed multi-level public plaza with skyway connections across Sixth Street to the City Center, across the Mall to Penneys Department Store and through the Chamber of Commerce Building to the skyway across 5th Street to the Lumber Exchange Building. Parking will be provided off 6th Street on two levels below grade.

The exterior skin of the two towers will be reflective glass and clear glass at the lower four floors. (612) 339-8601
Zuber Sirny Baker
Stebbins Architects
Project: Afton Court Townhomes
St. Paul, Minnesota

As part of a unique competition for an H.R.A. townhome site, the City of St. Paul allowed the surrounding neighborhood to select the project/developers. The winning design includes energy efficiency, custom design features, and extensive landscaping.

The fifteen townhomes will consist of three plus bedrooms with attached garages. Permanent mortgages will be handled through the Minneapolis/St. Paul Family Housing Fund and conventional programs. (612) 884-6204

Ellerbe Associates, Inc.
Project: Hennepin County Juvenile Justice Center
Minneapolis, MN

The proposed new Juvenile Justice Center provides facilities for two distinct criminal justice functions: (1) courts and court services and (2) detention. Although these functions are mutually dependent, each has clearly identifiable spatial and structural requirements. The design solution responds to these concerns by dividing the functions into two distinct but related buildings.

The courts and offices are located in a rectangular three-story structure permitting direct access from street level while the detention building, linked to the courts building via a skyway, takes the form of a triangle. (612) 853-2000

Meyer, Scherer & Rockcastle, Ltd.
Project: DATATEXT Systems, Inc.
Minneapolis, MN

DATATEXT Systems Inc. has commissioned the Minneapolis firm of Meyer, Scherer & Rockcastle to program, plan and complete the interior design and space planning for their new corporate headquarters. The design accommodates an extensive network of computer terminals and monitors. Full occupancy is scheduled for late spring. (612) 375-0336

Architectural Alliance
Project: Medtronic Business and Technology Center
Fridley, Minnesota

Architectural Alliance provided programming, building design, landscape and interior design for this facility, which uses a 170 foot skyway to connect a 20,000 square foot cafeteria/training center addition to an existing facility and a new 256,000 square foot office and laboratory building. A courtyard provides a quiet relaxation area for employees and an interior focus for the new site. Occupancy is being phased and is currently underway. (612) 871-5703

Coming Soon announcements are placed by the firms listed. For more information call AM at 612/874-8771.
Lilyholm, Young & Gleeson
Project: Energy Center Building in Energy Park
St. Paul, Minnesota

This building takes the standard format of the office manufacturing warehouse development and uses a free plan form to make an exciting and interesting energy-conscious building complex. The development is the core of the very ambitious St. Paul Energy Park and its adjacent neighbors will be projects by Control Data and The Wilder Foundation.

A design review conference assures that the developments will be compatible and fulfill the high ideals set by the covenants. (612) 227-7667

Patch, Erickson, Madson, Watten, Inc.
Project: Augustana Home
Minneapolis, MN.

Augustana Home has been a dominant influence in comprehensive care for the elderly in Minnesota and is located in the revitalized Elliot Park neighborhood of Minneapolis.

The addition to the existing facility is composed of two residential towers of 7 and 13 stories containing 230 one and two bedroom apartments. An interconnecting, two-level atrium space will contain commercial and private facilities necessary to support activities and needs of the residents. The towers will be connected by skyway to the existing nursing health care complex. (612) 374-3490

Frederick Bentz/Milo Thompson/Robert Rietow, Inc.
Project: Elliot Park Neighborhood Recreation Center
Minneapolis, MN

A major addition and remodeling will transform the existing park shelter to a completely new and handicapped accessible recreation center. (612) 332-1234

Ellerbe Associates, Inc.
Project: James Ford Bell Technical Center Expansion; General Mills, Inc.
Golden Valley, MN

The 70,000 square foot laboratory and office expansion is the first phase of the master plan which will ultimately double the size of the existing 25,000 square foot facility. The expansion locates open office functions and the cafeteria within the south-facing, serpentine, reflective glass wall. A skylit concourse provides the connection between the new visitors' entry and the administrative offices in existing building. (612) 853-2000
BRW Architects, Inc.
Project: Amhoist
Building/Park Tower
Condominiums
St. Paul, Minnesota

By the autumn of 1983, this 28-story mixed use development will be a dominant feature in the skyline of St. Paul. The tower will contain 140,000 square feet of parking, 222,000 square feet of office condominiums and 81,000 square feet of residential condominiums.

The post-tensioned concrete structure will be sheathed in reflective glass with aluminum panels to express the columns. Pre-finished metal louvers will screen the parking.

The design respects the rich historic character of the Rice Park District. The project is currently under construction. (612) 379-7878

Ellerbe Associates, Inc.
Project: School of Public & Environmental Affairs (SPEA)
Indiana University
Bloomington, Indiana

The first new school within the Indiana University system in 50 years desired an image and environment responding to their concerns for energy conservation, and at the same time giving them a highly visible image within the campus. (612) 853-2000

Bruce Knutson Architects, Inc.
Project: Lake Shore Drive Condominiums
Richfield, Minnesota

Construction of the 178-unit Lake Shore Drive Condominium project is underway. The 11 story project is a major step toward the renewal of the Lyndale-Hub-Nicollet area in the city of Richfield.

Miller Hanson
Westerbeck Bell Architects Inc
Riverplace: Block 1
Minneapolis, MN

This multi-use project is to be located on the East Bank of the Mississippi River and will become a part of the historic old Main Street of Minneapolis. The development will include a 520 stall parking ramp, 165 rental apartments, in a 27-story tower, 80 Condominiums in a 20-story mid-rise, 9 two-story Townhouses and a 4-story office building.

A skyway across Hennepin Avenue will link this project to a 5-story Commercial office building also designed by Miller Hanson Westerbeck Bell Architects Inc. (612) 338-7700
Architectural Alliance
Project: Vocational Technical Education Facility
St. Paul, Minnesota

Recently occupied, this 100,000 square foot facility on the University of Minnesota Campus uses an interior courtyard to connect a remodeled livestock pavilion to a new addition. (612) 871-5703

The Leonard Parker Associates
Project: New York Law School
New York, New York

The Leonard Parker Associates have completed designs for an addition and major remodeling of the New York Law School, currently housed in three 1920-30's buildings. The design solves the problems of circulation, organization and image posed by the existing buildings. Circulation will be directed along an interior "street" linking the existing buildings and addition. Classrooms, offices and library are to be located around an interior atrium providing a central focus for the school.

Project associates are Carson Lund & Thorson. (612) 871-6864

Smiley Glotter Associates
Project: 1221 Nicollet Mall Office Building
Minneapolis, Minnesota

1221 Nicollet Mall is a prestigious retail/office building to be prominently located at the terminus of the Loring Park Greenway at the Nicollet Mall. The triangular shape of the building complements and directs the intersection while maximizing pedestrian exposure and access. The shape also helps preserve visual openness for adjacent Westminster Presbyterian Church. The smooth, reflective quality of the building surface mirrors the textured stone of the church and serves as a counterpoint to its form. (612) 332-1401

Close Associates, Inc.
Project: Moderate Cost Housing
Minneapolis, MN

The Powderhorn Community Council has embarked on a program to develop moderate cost housing on available sites within their neighborhood. The first project at 66th Street and Chicago Avenue replaces an abandoned filling station with five townhouse units accessible from a semi-private motor court. The scale, elevated lawn, and characteristic gable forms of the neighborhood are retained, but with no need for the typical entrance walk and hazardous exterior stairs. The arrangement provides a variation and enhancement of the urban scene, yet is readily assimilated within the existing community. (612) 339-0979
Frederick Bentz/Milo Thompson/Robert Rietow, Inc.
Project: Summit Bluff Townhomes
St. Paul, Minnesota

Seven Townhouses at 378 Summit Avenue will replace a 22-room mansion which was demolished in 1957.
Ranging in size from 2,500 to 3,350 sq. ft., the new houses are arranged in two sets, four houses fronting on Summit Ave and three houses fronting on Western Ave. All consist of three stories plus loft.
The design has attempted to integrate the houses in large masses to affect the scale of the adjacent existing houses which are extraordinarily large. At the same time, the design has tried to give each house separate identity. (612) 332-1234

Meyer, Scherer & Rockcastle, Ltd.
Project: Gust. Lagerquist & Sons Hqtrs.
Minneapolis, MN

Celebrating their 100th year, the elevator company of Gust. Lagerquist & Sons, Inc. will break ground in early spring for the construction of their new corporate headquarters. Located on West River Road in Minneapolis, the 21,500 sq. ft. facility will feature a glass block enclosed Dover Elevator. Meyer, Scherer & Rockcastle is the architect for the project. (612) 375-0336

Architectural Alliance
Project: Prudential Refurbishing
Minneapolis, MN

Architectural Alliance’s interior design and architectural team began work on this refurbishing of Prudential’s North Central Headquarters Office Facility in early 1981. (612) 871-5703

Klapste Goltz Associates, Inc.: Architects
L. K. Mahal and Associates: Project Developers
Project: Office, Commercial, and Parking Structure
Minnetonka, MN

Spectacular vistas will be offered by this 46,800 sq. ft. four-level office and commercial structure which occupies some of the highest terrain in Hennepin County.
The building is a compact, energy and material efficient design of brick and glass set on a concrete plaza enclosing underground parking. It is the first of four mixed-use buildings in an eight acre master plan adjacent to Ridge-dale. (612) 332-8901

Coming Soon announcements are placed by the firms listed. For rate information call AM at 612/874-8771.
Klapsté Goltz
Associates, Inc.: Architects
John Weidt Associates,
Inc.: Environmental Design
Project: Wooden Shoe Factory
Woodland Park, CO

This 10,000 sq. ft. solar-powered wooden shoe factory, retail outlet, and corporate office for Wasa Clogs, Inc. will be a focal building for Morningsun, a new "solar community" in the Colorado foothills.

A rustic wood structure and wood exterior reflect the mountainous setting and the company product. Daylighting and passive solar heating, the primary form generators, are expected to reduce "standard" utility costs by 60%.

(612) 332-8901

Close Associates, Inc.
Project: Ronald McDonald House, Phase II
Minneapolis, MN

Children's Oncology Services, Upper Midwest, owner of the Ronald McDonald House, is about to begin construction of a ten bedroom addition to the original house (1981 CUE Award Winner) which was finished in the Fall of 1980. The addition will provide overnight housing for ten more families of children with cancer. It will complete the existing complex by adding a large outbuilding/dormitory at the north end of the existing porte-co-chère.

The addition is a simple building set back on the property so as not to compete with the established image of the House. (612) 339-0979

Team 70 Architects
Project: Cray Research Corporate Offices
Minneapolis, MN

Cray Research, Inc., is a leading designer of large-scale scientific computers used world-wide by business and government. We redesigned a traditional 1960s office space in the former Pillsbury Building to suit the innovative work patterns of Cray's high technology business.

Team 70 clustered divisional management offices to facilitate Cray's group work process. Individual offices have complete privacy and yet are easily accessible to each other.

The executive offices are grouped in pods around "interior parks," natural habitats which serve as casual meeting or formal group work areas. (612) 332-5515

Miller Hanson
Westerbeck Bell
Architects Inc
Lowertown: Block 40
St. Paul, Minnesota

As part of historic Lowertown, this multi-use development will be the key component in the revitalization of his area of downtown St. Paul. The block will be linked by three skyways to surrounding buildings and will feature a multi-level retail mall.

Plans for the development include: condominium and rental housing, condominium office space, underground parking facilities as well as restaurants, shops, several movie theaters and an old world open food market. In addition the new Downtown St. Paul YMCA will be located here. (612) 338-7700

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Springtime is the best time to render an architectural second opinion.

Here in the Frostbelt, where the four seasons are unambiguous, springtime is clearly the right time to assess humankind's environmental contrivances: the time to rediscover those budget-shattering outdoor plazas nobody has seen, much less used, since early November; the time to recall those heaps of automobiles (and those blasphemous tractor-trailers) mangled and miserable on the infamous snow-choked Spaghetti Junctions concocted by our most inept boys of summer—the highway engineers; the time for remembering all of those little plumes of smoke rising from all of those millions of little single-family bungalows in the Northland—which is to say, all of that non-renewable energy fueling a not very smart society that kowtows before an economic shrine named Doing Your Own Thing.

Springtime is the best time not only to flaunt the brilliance of our hindsight, but also, now that Lord knows how many feet of snow have finally disappeared, the best time to consider where we're going: the time to worry about how many more inches of Dakota topsoil will darken the Twin Cities skyline, come August, the summer drought and the eastering winds; the time to wonder who's kidding whom about revitalizing a Hennepin Avenue with artificial trees on the one hand, and a Berlin Wall in the guise of a brutish structure that goes by the non-sequiter, "City Center," on the other; the time to bestir ourselves and see if these enlightened Twin Cities cannot be up and building again, not merely to slake the appetites of speculative developers but better to reintroduce the ordinary citizen into the mainstream of a cultivating urban milieu.

But far and away, springtime is the best time for the art of living and loving; the time for stripping away the winter's heavy psychological baggage and rolling in the grass with your loved ones. Possibly from a worm's-eye vantage point in Loring Park, you may muster a finer vision of a better world.

William Houseman
Editor
STRUCTURAL MOMENTS

Minneapolis photographer Gary Hallman sees the construction site as his studio *in situ* and, at the same time, his subject matter.
A toast to change

Gary Hallman’s construction site photographs are the product of his fascination with “how our culture projects its values and aspirations into the contemporary urban landscape.” He amplifies “Americans now experience the cityscape as a dynamic and ever-changing environment.” By contrast, in more traditional cultures and times, the cityscape could be experienced as a dependable and unchanging cultural backdrop for the lives of several generations of people. My photographs are in part a celebration of the excitement and inevitability of change, a toast to the anxious passing of the familiar. They are also a ritualized meeting with change, and an attempt to exploit it into the images that invite us to participate in the strange in our space; and to speculate on the subtle and less obvious influences our created environment has on our lives.”
Why do I need an architect?

"Because you want a building and you don’t know how to design it," says Toronto architect Jerome Markson, succinctly summing up the architect's most basic service.

The architect is the only one involved in construction who is trained as a designer. Creativity is part of what he offers to the client. "We see ourselves as a bit of a catalyst," says Norman Hotson, who practices in Vancouver, B.C. "We're really there to spark some new ideas and to try to expand a client's notion of what's possible."

Linda Ostberg, a St. Paul architect with substantial experience in residential design, points out that a lot of people are not aware of what can be done, particularly in remodeling. "They see the typical builder home and think that's all that can happen. So they look to the architect for improvements that can be carried out economically."

If you ask thirteen architects what everyone should know about working with an architect, you are apt to get a myriad of answers. But not to worry. A careful reading of this Q&A feature should persuade you that architects not only know their stuff but are happy to share it with you.

ARCHITECTURE DEMYSTIFIED

Most architects seek to satisfy the client's aspirations through a design solution that can be enjoyed at many levels.

"When you ask why does someone need an architect," says Arne Bystrom, who practices in Seattle, "you might as well ask why does anyone need a glass of good wine or a nice picture, or why do we need to live well. I think you need an architect because he can give you a work of art to live in, if he's any good, and this makes life a little better for us all."

You pay for design in any case. "Design is an integral part of construction," Tom Bergseth, corporate architect for Dayton-Hudson points out. "If you are building, you are going to pay a fee for someone's design expertise along the way. I wouldn't consider not hiring an architect."

Samuel T. Balen sheds an altogether different light on the question. As Executive Director of the National Council of Architectural Registration Boards, he sees the architect's role as being not only desirable but downright essential. "Quite simply," he says, "a majority of states require that all but a few types of minor structures be designed by a licensed architect. In this, architects are no different from physicians, landscapers and the members of many other vocational groups who must be licensed in order, as the phrase goes, to protect the health, safety and welfare of the public. A strong case can be made, however, for acknowledging the architect's peculiar responsibility. Unlike the doctor or dentist, who pursues a one-to-one relationship with individuals, the architect may design buildings for use on a daily basis by hundreds and even thousands of people. The idea of unlicensed individuals doing such work is not at all reassuring."

Who can afford an architect?

"I'd say that anybody who can afford to build can afford to hire an architect," talking about the enclosing of so many cubic feet of space that an architect can do it as cheaply as a small tract builder who's got every dime figured out, every efficiency worked out and every corner cut. I never tell my clients we're going to do something cheaper. Better, yes, and they're getting more value for their money. But if they want more space for their money, they should go to a tract builder."

When it comes to commercial construction, however, several architects turned the question around, asking, who can't afford to hire an architect? "I think anyone who can afford a new building can afford an architect," says regional AIA director LeRoy Bean. "Architects can justify the cost in the long run, and I'm sure they can yield a savings otherwise lost through poor planning."

Joel Glotter, a principal in Smiley/Glotter Associates, Minneapolis, points out that a well-designed building can provide immediate benefits in environ-
be able to make a better-is-better product out of the construction that is going to take place anyway for the price that was anticipated."

Norman Hotson believes it depends on the individual designer. "Without question there are people who work from different poles: those committed to trying to do a high quality of design for the lowest possible price; and there are others who are into a very high degree of refinement in terms of detailing and materials. In those instances, budgets are very easily run away with. I think, however, architects have been educated to see things from a distance and perhaps not get caught up in a specific solution the way a lot of lay people might. In that regard, we might be able to see cost-effective alternative solutions."

This ability to offer alternative solutions was most often mentioned as the way in which architects can save a client money. "Architects have seen enough materials and the way things are put together to come up with a very nice product very economically," says Linda M. Ostberg. Bob Rietow, MSAIA president and principal in the Minneapolis firm Bentz/Thompson/Rietow, also emphasizes this. "An architect can take a list of needs and by looking at design alternatives can illustrate solutions that may allow you to reconcile, very happily, a list of needs with a budget."

A second way the architect may be able to save a client money is by controlling the expenditures recommended by other professionals working on a project. This is the point of view of Tom Bergseth. "Building owners like Dayton-Hudson are very aware of the scalding cost of materials and labor. In our projects, the architect is the focal point, a generalist who oversees all the work of the other design professionals to control costs not only in the early stages but all the way through a project."

Jerome Markson remains skeptical about whether or not an architect can save a client money. "Compared to whom is the question. I suppose he will give you money if he gives you better advice than all your friends who say spend money on marble but forget decent windows. A responsible architect will keep the client on the track of reasonableness."

How much do I need to know about architecture to understand what an architect's talking about?

"The more the better."

"Very little, or nothing."

These statements, as different as they sound, were made in support of the same conviction: namely that good architecture is the product of successful communication between client and architect.

The first response, from Arne Bystrom, emphasizes the client's part in the dialogue. "My best clients have always been the most informed ones who have done a lot of background work and have a fairly good idea of what they want." Bob Rietow says much the same.

Jerome Markson Ar­
chitects, Toronto, Ontario.

Norman Hotson
Architects, Vancouver, British Columbia.

Linda M. Ostberg
The Ostberg Architect­

ts, St. Paul, MN.

Arne Bystrom
Architect, Seattle, WA.

"The client who has never worked with an architect before may think the whole process is mysterious. He may imagine that he just has to sit back and the architect's going to go do his stuff and come back to him with a finished product," says Linda Ostberg. Ostberg, and most of the other architects interviewed, characterized the client-architect relationship as a partnership.

"It's kind of like getting married," says Brooks Gunsul. "If it's going to work, you've got to make it work. Each has to use the other, much like a marriage. The architect expects input from the client so he has some parameters within which to work. The client has the right to get a direct response from the architect within the rules they established. Because, let's face it, it's the client's building, not the architect's. The architect performs a service and sometimes this is overlooked."

It is to the client's benefit to take an active part in his building's development, according to Bob Rietow. He says that while developing a design for a client, his firm seeks to bring out "all of his experiences, all of his desires, all of his aspirations." In this process, Rietow says, the client develops a much greater understanding of his own business or project, whatever it might be.

This requires honesty from the client, as Neil Weber has discovered. "We've

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gone through a project all the way to the end and the clients have nodded and approved everything we've done. Then, out of the blue, they may say, 'Oh, this isn't really what we wanted.' They may have been expressing values they thought they wanted, but didn't really.

While the architects prefer clients to come to them with a clear idea of what they need and how it might be executed, they also hope the client will be open to new interpretations of what a building can be.

"I think you're opening up an opportunity to discuss ideas that may bring a new appreciation of the building process," says Jack Bloodgood. "As the architect goes along he helps you through a very difficult maze of selection choices. He helps organize those design and product solutions which should come first, then takes up the lesser decisions that follow in a logical sequence."

Says Jerome Markson, "We always describe what activities we're going to perform, from helping with programming, to design and working drawings, to supervision of construction, in great detail. There are two good reasons: so the client understands what the architect's going to do for him and because it is related to the fee. The architect always knows that the project could be wiped out at any point for various reasons, and the client is only going to be charged for the work done."

Jack Bloodgood stresses the usefulness of indicating stopping places to the client: "You needn't feel you're signing up for a life sentence to something you don't want to associate with if you feel you're on the wrong track."

And finally, clients should be prepared for frustrations in the construction of a building.

"They're in for some very trying times when they just can't understand how anything gets built," says Arne Bystrom. "It seems to me that things are getting harder and harder to do and taking longer and longer. It used to take six months to build a house and it's now getting to be eight months, if we're lucky. It's a trying process, but like everything else, an incredibly rewarding one."

How does an architect charge for services?

Generally, these days, an architect charges in one or more of three ways. They are:

1) A negotiated lump sum amount.

Brooks Gunsul says his firm often charges a lump sum for large projects. "We will generally do some hourly work at the front end of a job to define the project in terms of program and basic amounts. Once we know what it is, then we negotiate a lump sum based on the project. If the project changes, then we've got to renegotiate the fee."

2) An hourly rate with a stipulated guaranteed maximum fee.

Arne Bystrom prefers to charge in this way because, among other reasons, "The client realizes that the clock is going and tries to give me more direct and timely decisions."

This is also the method most often used by Linda Ostberg. "I generally charge a percentage of the estimated construction cost and work hourly until that maximum is reached. By putting a dollar figure on it right at the beginning, the clients know what they're getting in for.

3) The compensation management system, also known as cost-plus.

With this system, the architect describes the work to be performed and the compensation required for each portion. If the client chooses to spend more time in one area, then the firm charges more for it. LeRoy Bean uses this method of charging in his office and says he would like to see more firms adopt it. "I have a real problem with firms that accept fees on an open-ended percentage of construction costs without a guaranteed maximum. I think it has caused some problems in our profession and a lot of misunderstanding with clients. The closer we come to cost-plus, the better off we're going to be."

How do I know an architect's ideas are compatible with mine?

You never know for certain, said several of the architects, but the best way to find out is the most obvious way: simply sit down and talk with him. "Most of us are very charming," says Brooks Gunsul.

To Tom Martinson, senior project planner for Ellerbe Associates, the great variety of architectural points of view available to the client today makes it important that the client seek out an architect who does the type of work he likes.

"It is my contention that architects have predilections for various kinds of work; they have strong and weak points," he says. "First the client has to understand what is available. The second thing he's got to do is look for architects who can do that kind of thing. If you're a person who's into batik and soft clothes and are really kind of laid back, you really don't want the Miesian white-walled house, or vice versa. The way to do this is to go out to a building the architect is doing to see if it's your kind of building. Secondly, you've got to see if the chemistry's right with the architect."

It is not only important to be able to communicate readily, says Jack Bloodgood, but to feel free to critique each other as well. Many architects, he finds, dislike criticism from a client. "They feel that it's just criticism by committee or something of that sort. Whereas we feel that we do the best work when we have a good client critique. The most informed client stands to gain the best result."

Several architects say that seeing pictures of what the client likes or has in mind can be helpful in determining compatibility.

"Clients speak in various ways," says Bob Rietow. "Some come in and say 'We've got some ideas we're not sure you're comfortable with and here are some representations of those.' One of
Our very finest clients came in first time around with a hundred tear sheets from various magazines. I think this is very useful because eventually we do need to communicate graphically."

Arne Bystrom says that pictures can do more than help determine compatibility. "When I was younger I went through some experiences where I had gone all the way through the working drawing stage for a house the owners decided they didn't like," he says. "That's why I like to see some pictures and have the people see my work and talk with them so we can hopefully arrive at a mutual discovery."

The client, however, should be open to new ideas, too, according to Joel Glotter. "I think it is well for the client to assess the architect with an open mind. The architect should be able to expose you to ideas that you may not have thought of or have not been exposed to before. So, his ideas may or may not appear to be compatible." No matter what the client is looking to learn to what degree the building works functionally for the users, whether it solves the problems that were addressed in the programming, whether it really works, period."

While Arne Bystrom says, "I think it's very, very important that people look at an architect's work and select him by that means. Architects are often selected by a good-old-boy network—on the basis of whose friends you are, who you know, or how entertaining you are at cocktail parties, rather than on the quality of a person's work. The results often show it."

Most of the architects interviewed recommended seeing an architect's work before hiring him or her, but for different reasons. They also attached different levels of importance to it. "I think it's important," says Jack Bloodgood, "to have a sense of what the architect has done, not so much to see work similar to what you want, but to see whether the architect is capable of flexibility in his thinking, or whether he

regrettably did not get a sense of what the client's values; but it can also typecast the architect's work in the client's mind. "It works both ways," he says. "Sometimes you get work because people want something exactly like you've done before, even though the site might suggest something quite different. Or they may not hire you because of a certain thing you've done, despite the possibility that you may do it very differently for them."

To overcome the problem of being typecast and to help the prospective client understand an architect's work, Bob Rietow suggests that a prospective client visit a building, not with the architect but with the owner. "We can understand that, for whatever reason, you might not want us present. That's fine. But we would suggest that someone be on hand who can speak to you and answer questions about how that project evolved."

Linda Ostberg, like many young architects, sometimes faces the challenge of getting hired to design a type of building she has never done before. "It's really common in an interview for the prospective client to say, 'I want a house, show me fourteen houses you've done.' Or 'I want a school, show me all your schools.' I've always thought that was a drawback for people who have not done work in a particular area. So I think it's important to see an architect's work from the standpoint of how the materials are put together, how the concepts were employed, the quality of the detailing. I don't think it's necessarily

important that an architect has done a building just like the one you want, because each should be evaluated and designed according to its own criteria and merits."

No matter how you select an architect, Linda Ostberg thinks a lot of discussion needs to take place "before pencil ever hits paper— and not even from a design standpoint, but just in abstract terms about what his partnership wants to accomplish. In question, the more the owner knows about architecture, the easier or more quickly he will be able to determine if an architect is going to be compatible."

John D. Bloodgood
Bloodgood Architects, Des Moines, IA.

Robert G. Rietow
Bentz/Thompson/Rietow, President, MSAIA.

Books Gunsul
Zimmer Gunsul Frasca Partnership, Portland, OR.

Tom Martinson
Ellerbe Associates, Bloomington, MN.

or in an architect, Linda Ostberg thinks a lot of discussion needs to take place "before pencil ever hits paper—and not even from a design standpoint, but just in abstract terms about what his partnership wants to accomplish. In question, the more the owner knows about architecture, the easier or more quickly he will be able to determine if an architect is going to be compatible."

How important is it to see an architect's work before hiring him or her?

"The single most important thing to do is to see the architect's completed work and the projects currently on the boards to find out how his design philosophy is implemented," states Tom Ergseth.

On the other hand, LeRoy Bean says, "We're really skeptical about showing our work at interviews without being very clear about what we're doing. What you see when looking at a building are the cosmetic features. You don't

works down one and only one avenue toward a solution. You should ask yourself, 'Can he adapt his work to my needs, or does he always do an identifiable thing that's drawn me to him because I like that style and expect only that from him?'

Norman Hotson thinks seeing an architect's work helps, but it's not essential. He says it can be important in order to understand the designer's attitude toward the physical environment, to get a sense of where his aesthetic interests lie and to determine whether the two are compatible with the client's values; but it can also typecast the architect's work in the client's mind. "It works both ways," he says. "Sometimes you get work because people want something exactly like you've done before, even though the site might suggest something quite different. Or they may not hire you because of a certain thing you've done, despite the possibility that you may do it very differently for them."

To overcome the problem of being typecast and to help the prospective

Edited by Elizabeth Hallstrom
MINNESOTA SOCIETY SALUTES THE 25"" ANNUAL HONOR AWARDS WINNERS

From a field of 92 entries in the 1981 Awards Program, six buildings were selected by a distinguished jury to receive awards for excellence in design. All six winning structures are located in Minnesota, two of them the work of one architectural firm. Two awards went to housing—one for a government-aided townhouse development and the other for a single-family residence. The other winners were a law school building, an interpretive center, a performing arts center, and a new restaurant in a landmark building. Members of the 1981 Honor Awards Jury were: Thomas Hall Beeby, Director of the School of Architecture at the University of Illinois, Chicago Circle and a partner in the firm of Hammond Beeby and Babka; Richard Green, a principal in the Cambridge, Massachusetts firm of Hugh Stubbins and Associates and a designer of a number of that firm's large-scale projects; and William Pederson, a principal in the firm of Kohn, Pederson, Fox, New York City, and formerly a senior designer for I.M. Pei & Partners, Pietro Belluschi, and Leonard Parker Associates.

The winners:

- Myles Reif Performing Arts Center, Grand Rapids MN. Designed by Hammel Green and Abrahamson, St. Paul.
- Jefferson Square townhouse development, Northfield, MN. Designed by Arvid Elness Architects, Inc., Minneapolis.
- Hamline University School of Law, St. Paul, MN. Designed by Hammel Green and Abrahamson, St. Paul.
- Oliver Hudson Kelly Interpretive Center, Elk River, MN. Designed by Thorsen & Thorshov Associates, Inc., Minneapolis.
If pleasing the client is the name of the game, architects Hammel Green and Abrahamson doubtless take special pride in the Myles Reif Performing Arts Center at Grand Rapids, MN. For the success of this striking cedar-faced theater structure stems from an unusual collaboration between the local arts association and the school district, both of whom needed, and got, a beautiful facility where each may mount theatrical and musical productions.

The new arts center is all the more notable for being an altogether dissimilar addition to an existing high school: architecturally, the old and the new have nothing in common, save for the art center's unobtrusive siting in a dramatic setting. The entry to the site is by a narrow curving road through a pine forest; seen in a clearing, the center's cedar wood siding forms an architectural banner across the front of the structure.

Indoors, the major performing space is a theater designed for maximum flexibility, thanks to an elaborate catwalk system, adjustable acoustical panels, removable sound-deflecting baffles, and seating which can be expanded from a fixed 630 to a maximum of 700 seats.

The MSAIA Honor Awards jury gave the Myles Reif Performing Arts Center high marks for "the contrast between the old and new buildings... dealt with in juxtaposition very skillfully." The jurors further commended the interior's "festive appearance," largely attributable to "the reappearance of the exterior wood."
QUALITY LIVING
AT $30,000 A UNIT

The Jefferson Square townhouse development designed by Arvid Elness Architects is another of those infrequently seen but always reassuring demonstrations that good housing at an affordable price is still possible. Built on a 5.5 acre site on the outskirts of Northfield, Jefferson Square was brought in at a total construction cost of $1,514,971, or a remarkable $30,000 a unit.

But it would have been an exemplary multi-unit project at any cost. Though financially aided through HUD Section 8 Federal funding, the project neither looks nor functions as "public housing" in the perjorative sense of the label. It is first a very nice place for children, with its generous open space and well-designed outdoor gym situated cheek by jowl with nearby corn fields. If the design is a little too self-consciously postmodernish with its timid half moon cutouts over the stoops of each unit, what's the harm in echoing what the carriage trade is spending big bucks for? Moreover, the cool blue clapboard exteriors and variegated roofline profile do indeed give Jefferson Square a high-style attribute that belies its modest economic circumstances.

In analyzing this project, the Honor Awards jury applauded it in these words: "The public/private nature of the project is very well done, yet seems so simple, with its communal village kind of atmosphere. The details work very well at all three scales: the urban design scale, project scale and human scale." It added that "the wainscoting adds a playfulness and liveliness to the facade."
Literally a prairie project, the Jefferson Square townhouses form an arresting silhouette on its exurban site near Northfield (below). As noted by the Honor Awards jury, "The individual units are done so that the residents have an identity (far left)." The play area for youngsters is enjoyed as a whole miniscale environment, yet its strategic location assures easy parental surveillance and supervision. Rhythmic alternation of two-story, one-story units contribute appreciably to an interesting architectural geometry unlike the visual monotony often associated with moderate-cost housing.
Straightforward plans in a self-contained "village" yield a sense of family security

As a place to live, Jefferson Square responds to two social needs equally well: it ensures the near-total privacy never attainable in comparable single-family housing, yet it also aggregates as an easy-to-assimilate social place. Much credit for both of these virtues traces to a site plan that both buffers project segments from two-close proximity and provides comfortable elbow room through the greensward flowing through the property. Almost in the way the Midwest pioneers circled their prairie schooners for protection against hostile elements, Jefferson Square effectively closes up its ends with obliquely angled multi-unit segments. Note how these segments are cleverly "bent" through the expedient of a corner unit that acts as a hinge (floor plan top left and site plan). A further benefit from Jefferson Square's self-enclosing site plan is the psychological and actual climate-modifying configuration in this four-season setting. Yet despite the project's self-containment, it also enjoys the best of two worlds: agrarian to a point of near-invisibility when the corn crop has reached its peak, but still only a couple of stone's throws from the civilizing advantages of downtown Northfield.
Les Quatre Amis, an elegant restaurant designed by Design Consortium, Inc., occupies a formerly vacant light well in the Lumber Exchange, one of the finest landmark buildings in downtown Minneapolis. Virtually an architectural slipcover within the old space, it is notable for its spatial ambience and sense of having been designed just for those at your table. (See also AM, June/July, 1981.)
A CASE OF ARTFUL SHOEHORNING

South-facing exterior of the Hamline School of Law (above) presents a sunscreen wall which neatly obscures skylights. These skylights, running almost the breadth of the building three stories high, admit the superabundance of daylight that gives the building's main interior thoroughfare the character of an urban street (right). The opposite side of the school faces inward toward the main campus complex of buildings (top), with which it may be seen to co-exist harmoniously.
The Hamline University School of Law, the second of Hammel Green and Abramson’s 1981 Honor Award winners, occupies a site bearing no resemblance whatever to the clearing in a forest on which its first winner, a performing arts center (page 39), stands. It is a structure that not only had to be fitted on a space-shy university campus in the midst of a residential neighborhood of single-family houses—it also had to relate agreeably to nearby university buildings of greater height and mass. No mean challenge, but one HGA met admirably. It seems apt to describe the exterior as architecturally judicious. An interplay of concrete planes and strong brick volumes (they enclose the stairwells at either end) produce a building form of considerable compatibility with its man-made surroundings.

Indoors, this law school is something else. The seriousness of its professional purpose is clearly evident in the care and quality invested in all of its interior spaces. The moot court is the visual and academic centerpiece, two stories high and viewable by spectators from above, it is finely detailed and suitably imposing to the students who practice arguing their cases here. The two-level library dominating the second and third floors and the classrooms are planned with meticulous care; and all interiors are, by educational facilities standards, luxuriously furnished and equipped.

But the Hamline School of Law deserves further commendation for the architectural appreciation of what makes a satisfying social milieu for today’s jeans-clad graduate students, informal almost to a fault, without lapsing into condescension.

Student lounge is more of a sprawl, its capacious sofa surfaces encouraging students to kick off their shoes and stretch out. This main lounge is bathed in light from a south window wall and is located conveniently off one terminal point of the central indoor "street."
The Law School plan organizes administrative and academic activities vertically, as in a small-town business block, on one side of the major pedestrian street. The most imposing space along the street is the moot court, which is located toward one end. The MSAIA Honor Awards jury felt that HGA's "consistency of planning" is one of the strongest points of the structure. They noted, "Handling of all parts of the project was very sophisticated. The site was a difficult one and the scale transition from larger surrounding buildings to residential areas was handled very well." Also impressive to the jury was the "successful" detailing of the library. A notably handsome space, the Law School's moot court is richly appointed, though by no means forbidding; its sculptured cutaway ceiling links the proceedings in the courtroom with a semicircular gallery around which students may sit and observe (below). And when they weary of spectating, they may back off a step or two to another of the school's inviting lounge areas.
This school's academic environment, though unstuffy, is conducive to hitting the books.

Heart of any law school is its library, and Hamline's functions exceptionally well. Its perimeter is bordered with bright-hued study carrels (above) which are bathed in daylight that enters through shoji-like screens. The library's central circulation artery and major interior focal point is its carpeted and burgundy-railed stairway. As in every school extant, students will lounge wherever there's a back rest (below) - in this case on a stairway incline in the library.
Seen from the air (top), the Oliver Hudson Kelley Interpretive Center makes its presence unobtrusively felt, its concrete geometry punctuating an otherwise earth-sheltered structure. Sharp cuts in the natural grade serve effectively to create an architectural "gateway" for visitors between Center and far vista. Landscaped observation platform (left) yields an explicit, story-telling panorama. As part of a three-year planting plan, prairie grass is being established to cover the Center’s earthen surface, thereby rendering the architecture even more diffident.
In a state where the words "farm" and "labor" spell potent politics, the "birthplace of organized agriculture" warrants special attention. So it was natural that the Minnesota Historical Society should decide to pay homage to the Oliver Hudson Kelley farm, where the National Grange of the Patrons of Animal Husbandry was founded in the late 19th century, by building an interpretive center on this historic farmstead near Elk River, twenty miles north of the Twin Cities. The inherent challenge to Thorsen & Thorshov Associates, the Minneapolis architectural firm commissioned to design the Oliver Hudson Kelley Interpretive Center, was to make sure its solution, out of deference to the farmstead itself, manifested a very low profile. They succeeded admirably, as the photos and plan herewith affirm.

The basic design strategy finds the Center occupying a transitional position midway between a busy highway and the Kelley farmhouse itself (the original barn and other support structures, now being rebuilt, will complete the bucolic picture). As the visitor approaches the site, the farmhouse is glimpsed briefly from afar to the Center, then back to the farmhouse after arriving at the parking area adjacent to the essentially earthsheltered Center. A very sound piece of theatre in an exceptional prairie land setting.

A major feature of the Center's interior is its pedestrian spine that channels visitors either to the exhibition and audio-visual spaces on one side or the staff and toilet area on the other (see plan). An abundance of natural light enters these spaces through a south-facing arched skylight running the spine's length (below). Of the Center, the Honor Awards jury remarked, "There is good dialogue between the demands of the site and the demands of the program."
For the firm of Bentz/Thompson/Rietow, winning an MSAIA Honor Award for their LeJeune residence was but a glorious beginning. Subsequently, it also won the most coveted prize of all—a national AIA Honor Award.

Like the prow of a sleek sailboat, this handsome structure seems to knife cleanly through its verdant setting on the western shores of Lake Minnetonka (right), though sited solidly within a sloping triangular-shaped site. It is an elegant home which conveys a judicious sense of privacy by turning its back to the street, pitching its cedar-shingled roof at a low angle typical of the neighborhood, and concentrating major glass areas to the rear, or lake side. It does all this without closing itself off completely from the landscape. On the contrary, the living spaces are splayed pivotally around the central fireplace mass in a stepped pattern which allows each space generous access to the lakeside property and, not incidentally, plenty of natural light (left).

The Honor Awards jury called the design "an extraordinary expression of the building’s response to the site." They felt it was a "powerful orientation in perfect alignment to solar angles."
The Architect as Entrepreneur

The point, of course, is not whether having a piece of the action (or even all of it) is right or wrong. The real question is whether entrepreneurial architects can produce better architecture. Here is one yea-sayer's views.

By Bonnie Richter

The very word "developer" has traditionally conjured mean visions in the design-oriented architect. Developers are purported to be crassly commercial (they make lots of money); they are arrogant (they abide by the budget); they demean and devalue the environment (they don't abide by the budget); they build marketplace architecture (it doesn't get published in Progressive Architecture or Architectural Record, or win AIA design awards)—and the litany goes on.

Despite all the alleged shortcomings, there are two facts worth noting. By conservative estimate from Dodge\'s Construction Outlook, real estate developers are responsible for at least two-thirds of the building construction in this country. That is, they have an inordinate influence on our surroundings. And real estate development, at least until recently, has been reasonably lucrative.

When architects themselves began to move into the development field, cries of heresy were heard throughout the profession. There was a perceived conflict of interest. Some, however, disagreed. Tom Van Housen, a Minneapolis architect, was one of those. He resigned from his board position with the Minnesota Society of Architects to fight for development rights for architects. He was the only architect from Minnesota to take that issue to the national level, working with the American Institute of Architects on ethical guidelines. His design and development of the Hyatt Regency Hotel there in 1967, with its eye-popping 23-story atrium, drew international attention and demonstrated that marketplace architecture could be successful, both as exceptional design and sound economics.

As Portman moved through other projects (among them the Embarcadero Center in San Francisco, the Bonaventure Hotel in Los Angeles and the Renaissance Center in Detroit), his knowledge was gained through entrepreneurial proclivities. The legal, financial and economic components of development became overlays added to his architectural and engineering foundations. The whole construction was fashioned specifically to meet the needs and abilities of his firm.

But as several Minnesota architecture firms attest, learning to be a developer is no small task; it is perhaps akin to a pianist's learning Ravel's Gaspard Suite by ear. (The music appears on the exterior of the Minneapolis Schmitt Music Store, if you wonder how difficult that is.) It is not standard fare at the university; developers who are successful are loathe to reveal their secrets, so few first-rate texts are available. Banks and other lending institutions give some information, but prefer that you be the expert. And attorneys like to be paid for advice.

There is also the element of risk—financial, professional and, occasionally personal—that must be weighed against potential gain. Development is not, in short, for the faint-hearted. A look at several Twin Cities architects' experiences can lend insight to some of the pitfalls, perils and pratfalls of the development process.

Consider the experience of Zuher associates, Inc., a young Bloomington-based firm. It encountered nearly every potential disaster its first time out but managed to triumph in the end. All the right ingredients seemed to be there—housing shortage in St. Paul, a government low-interest mortgage guarantee for new units, a stable middle-class community with a dilapidated structure up for sale. A former church became a row of townhouses, the neighborhoods got a facelift, the city put an exempt mortgage loan program that was temporarily curtailed when a new administration took office, a general slump in real estate market, and a building that was over-designed for its neighborhood (Summit Hill, yes; the blue collar North End, no).

Satisfying all the governmental requirements was a major portion of the project, according to John Sirny at the firms. Documents an inch and a half thick had to be digested that told him how to apply, how the program runs, how to qualify a buyer, construction requirements, etc. "But as a result," says Sirny, "I feel that the level of development improved. City programs carry with them a very careful review. They are a level of quality. For example, the
quirement that buildings must be super-
insulated is improving the quality of the
built environment. And the city now
wants to use our project as an example,
saying, "We've had all these ordinary
projects and here is an architectural one
that shows how much more can be
done." The city has been very helpful
every step of the way.

All of this time represents up-front
cost, whether spent tracking down gov-
ernment programs, applying for them,
administering them, or clearing city
councils, community organizations and
zoning boards. Then there is the finan-
cial side of lining up investors, assuring
long-term commitments, dealing with
an uncertain economy, judging the mar-
ket, the location and the size of the pro-
ject, as well as meeting land payments
and assuring construction costs and
quality. All these expenses must be cov-
ered while your income is zero.

"Things just don't happen overnight,"
says Sirny, a bit rueful after having
spent months doing the paper and leg
work on this one. "But I'm glad we did
it. We learned from it and we're going
to do the next one better."

From the standpoint of the firm, the
experience has been valuable. "It made
us a better buy for another developer
who needs an architect," according to
Jeri Zuber. The project generated fees
at a time when the office needed new
work, but the design/build aspect wasn't
quite as remunerative as expected. "We
thought we'd make money the first
time," Zuber recalls. "That's naive ap-
proach. We were lucky to break even."

Delays in start-up time played havoc
with the firm's construction estimates.
For the initial investors, most of whom
were Zuber staff members, the project
should eventually produce about a 30
percent return. "But for the risk we
took, I'm not sure we should have done
it," says Zuber. Personal assets had to
be used as collateral to cover develop-
ment costs because a young firm without
assets cannot establish an adequate line
of credit. "Now that we've completed
the project, it makes a difference with
the bank," says Zuber. "We've got a
track record." The firm is currently well
into another housing development in St.
Paul, feeling much more aware of the
financial ramifications of what they do as
architects. For one thing, they know
what it means to be over-budget.

Tom Van Housen: an early advocate of
architect involvement in development.

The next one usually does go better,
according to Richard Zejdlik of Zejdlik,
Harmala, DeLapp, Inc., Minneapolis.
For Zejdlik there have been so many
"next times" that he has almost reduced
his housing development projects to a
formula. He is now in the enviable po-
sition of not having to look for investors
but having to choose from many inter-
ested parties.

Zejdlik started in the housing market
when an apartment developer for whom
he was doing some architectural engi-
neering work became disillusioned with
the building's costs. That was in the
mid-1960s and Zejdlik took over the
project to recoup his fees. "It taught me
to become more involved in construc-
tion," says Zejdlik, "just at a time when
government programs changed." The
timing was important because of the
timely arrival of the turnkey system
which enabled developers to build
strictly for sale, cutting architects out of
a considerable amount of work. With
government-backed construction loans
and a ready market for tax-sheltered
properties, the traditional developer
could forego the "luxury" of architec-
tural design. "I started my own devel-
opment corporation to compete," says
Zejdlik, who was the first turnkey de-
veloper in North Dakota and Iowa and
the first architect to become a turnkey
developer in Minnesota. "It has
effectively taken me out of the active
practice of architecture," he says.

That involvement eventually grew to
a cradle-to-the-grave approach to hous-
ing that can include development, archi-
tecture and engineering, construction,
ownership, and management. The result
is that where Zejdlik used to need ap-
proximately one new project each month
to keep going as an architect, he now
can keep his firm busy for about a year
and a half on that same job, generating
fees each step of the way. "It contributes
to my income, but it also contributes to
my way of life," says Zejdlik, who
clearly savors his independence. "The
times dictate everything, and the devel-
opment role has given me the flexibility
to go with the times." How does he
plan to counteract the high interest rates
that have brought housing starts to a
standstill? "If Washington's going to let
this industry go to hell, I'll just button
up. I've got my management business
and holdings to carry me," he says.

The role of government in the vicis-
situdes of the development process can-
not be overstated. Aside from direct
government programs and the general
health of the economy, the government
also gives direction through tax incen-
tives. Ankeny, Kell and Associates,
Inc., St. Paul, for example, has found
advantage in adaptive reuse, particularly
under the new tax laws of the Reagan
Administration. Having worked for
other developers, Ankeny/Kell decided
to become involved itself when it pur-
chased Baker School in St. Paul. It has
been a learn-as-you-go exercise that has
both whetted their appetites for more
and left them sleepless nights wondering
whether the gambit will pay off.

The school itself has recently been
converted to commercial space in a non-
proven market area, with housing even-

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Says one architect-entrepreneur, “To actually own it when you’re done is to be part of the life and emotion of the project.”

actually scheduled to fill the 2.5 acre site. It is located near the St. Paul-Minneapolis border in the Midway, and intersected by freeways. Ankeny/Kell is counting on location to draw office tenants to Baker Court.

The firm became interested in development as a means to control the level of work in the office. “Roughly ten to fifteen percent of our gross revenues for the year are our own projects. In the future, it will probably be 50 to 60 percent,” according to Duane Kell. Ownership, or equity interest, has strong appeal as well. “As architects, we give a project all kinds of care and love for two to three years. Then we walk away from it. To actually own it when you’re done is to be part of the life and emotion of the project, and to really enjoy it,” according to Kell.

That great sigh of relief when the building is up and running frequently comes only after much struggle. “You have to be tenacious to do development,” says Kell, who would have probably given up on the project a dozen times were it not for his sense of commitment. When Ankeny/Kell first heard that the school would be up for sale, it recognized the rehab possibilities that eventually led the firm to purchase it. Little did the architects know how expensive and complex that transaction would become.

St. Paul City Council hearings and neighborhood meetings ground on for months, giving the firm a liberal education in government programs related to private financing. “You must be willing to be involved politically, because whether you like it or not you’re going to be—you have to be,” says Kell. He and Ronald Ankeny eventually were handed a four-inch thick document to which each signed his name 104 times. St. Paul now has another taxable property and may soon have additional housing, thanks to the rehabbing of a handsome but obsolescent schoolhouse. As was the case with Zubor’s Cook Crossing condominiums, Ankeny/Kell’s Baker Court has contributed to the maintenance and enhancement of the urban environment; and the ripple effect should radiate for several blocks in all directions.

On a larger scale, development projects have the ability to affect the life of whole cities. Ellerbe, Inc., of Bloomington, has been able to achieve full community-scale results with several projects generated by Landmark, a division of Appletree Enterprises, Inc., a wholly owned subsidiary of Ellerbe.

Ellerbe’s Tom Van Housen sparked the founding of Landmark in 1971 to offset the impact of the large design/build firms that had moved in on traditional architectural fields. “We, as an architecture and engineering firm, felt we could be much more professional,” Van Housen says today. “We didn’t think we should just back off as the profession had done in the housing industry. We believed we could do a better job if we were realistic about the marketplace. We had the skills, the education.”

Ellerbe soon found a development niche in the civic center and hotel/convention center market for mid-sized American cities. Its first urban revitalization experience came in the early 1970s when Landmark played the lead development role in Kentucky’s Lexington Center. The $50-million facility covered an 11-acre urban renewal site in Lexington’s central business district and included the 23,000-seat Rupp Arena, then the largest basketball arena in the nation. Other Center structures were a 70,000 square foot exhibition hall, a glass-enclosed, three-level retail section, and new commercial businesses have moved in. Over $75 million in new construction began almost immediately around the complex, including completion of a 27-story office building that had been on hold. The ripple effect became a wave.

When Ellerbe went into Flint, Michigan to develop a hotel/convention center there, the pattern was repeated. In an area hit by the ailing automobile industry, the 35-story, 390-room Flint Hyatt Regency Hotel and attached 40,000 square foot convention center recently opened as part of Riverfront Center, an ambitious plan for revitalizing the city’s central business district.

Plans for the theme park Auto World, across the river, now seem ready to go ahead. The city has torn down some of the dilapidated buildings in the area and nearby buildings are upgrading their exteriors. Ellerbe is now developing similar multi-use commercial projects in Minneapolis, Lynchburg, Virginia; Lansing, Michigan; and Fort Myers, Florida—all with a major hotel/convention center component.

It sounds deceptively simple. Construct a major new facility and everyone around it will pick up on that enthusiasm. But the negotiations to put these projects together can take years, an indication of the complexity facing a developer in today’s economy.

The financial packages for such projects typically require two to three years to assemble before pencil is set to paper in design development. There are basically three questions that should be asked to determine whether a potential project should be pursued and if an equity position should be assumed, according to Robert Jacobsen, president and chief executive officer of Ellerbe, Inc. “First we ask, is it a good investment? Of utmost importance is the financial outcome of the project. Second, what kind of fees can it generate? And a close third, what does it do for your taxable income? If it doesn’t satisfy a balance of the three, then we would probably give up those fees for the future.”

How does Ellerbe decide whether a
Baker Court is one of those success stories that city mayors and chambers of commerce love to cite as an example of community vitality and continued business activity. It is also a good example of architects taking the initiative for generating new work in a time of decreasing prospects for building.

Springing from the strong feelings architects Ron Ankeny and Duane Kell had for the abandoned brick schoolhouse, Baker Court was conceived first as a space to house their growing architectural practice and later as a fully developed office-retail venture in a neighborhood that heretofore lacked quality office space. The transition from architect to developer came gradually for Ankeny/Kell as the architects became enmeshed with the process of negotiating for the building. States Kell, "I really feel that we as architects had a distinct advantage over other developers. We were able to explain completely what we were going to do to the building with models, drawings, plans; and we spent more time on our proposal than the others, knowing that we were going to have to live with it." Continues Kell: "We learned in the very early stages of the project that you need to be believable. You need to have all the ducks in a row. Not only the construction costs, design, and materials—things we deal with daily as architects—but it's very important that you have behind that the documents, the confidence of a financial institution, the commitment of prospective tenants—all of those things that make a project work."
Development is taking a front seat in many firms as they try to make the business of architecture more effectual.

project is a good investment? The first and critical step is to determine if there is a market for it. That step usually requires the commissioning of an independent market study, an expensive tool, to be sure, but invaluable in assuring both the financial and architectural prospects for a project's success. From that information, a financial pro forma can be extrapolated with finances, expenses and return on investment projected. (For example, if the market study tells you that office space in a particular town rents at $8/sq. ft. and your pro forma tells you that your building will rent at $26/sq. ft., you might want to back out.) The numbers are then reviewed to weigh the risks and benefits in relation to the firm's projected financial and staffing requirements. "The gain on fees is the frosting on the cake," according to Jacobsen. "It can occasionally shade the return on investment that is marginal. But you get fees only once; if it's a good investment, it will be there for years."

The issue of taxable income is particularly important for Ellerbe, whose staff numbers nearly 700 and enjoys liberal profit sharing, pension and other benefit programs. Ellerbe almost learned the hard way when a 50 percent interest in the Lexington Center project nearly dragged the firm under. "It was simply too rich for us," says Jacobsen. The investment was made at a time when Ellerbe needed to shelter income from a high-profit year. Unfortunately, a national recession came on the heels of that investment and the tax losses came in low-profit years, along with major mortgage payments. Ellerbe eventually sold its interest at a good profit and generally considers it an excellent investment. But those unstable years in the middle made the firm acutely aware of long-range economic planning. The firm has passed by investment opportunities that didn't fit into the overall plan, although retaining its role as developer.

The money market's impact on development has become more significant. As sources of revenue go dry, so does the potential for new architectural work. "It is very hard to relate to people how every rule has changed in the financial world," says Scott Godin, president of Ellerbe's Applekettle Enterprises, Inc. "No one wants to make a long-term commitment. Everything's going short." The financial reality is that mortgages for commercial properties have been virtually eliminated and a new method of finance has to be developed. "We're just beginning to understand the new ways," says Jacobsen.

As early as 1971, Ellerbe began to notice a change. To begin work on a medical office complex that was eventually to include a hospital, the firm took on a joint venture with Fairview Community Hospitals and contractor M. A. Mortenson. Located in Burnsville, the Ridges is part of an expanded concept in health care delivery: a satellite complex to serve the total health and medical needs of a suburban population. Physicians' offices, a YMCA, church, retirement home, and hospital were to be located on a 140-acre site, according to Carl Platou, president and chief executive officer of Fairview Community Hospitals. "The concept is for a total integration of human and health services."

Investment in the Ridges represented seed money to assure the architect's position when the hospital came on line—a hospital that has been hotly disputed by the Metropolitan Health Board. Now, several years later, the hospital is finally underway but drastically reduced in size, and the Ridges investment will break even this year for the first time. The experience reminds us that the best laid plans can go somewhat astray.

For a convention center—hotel in Lynchburg, Virginia, Ellerbe had to be even more aggressive to assure a project. By the fall of 1979, $4.5 million in UDAG (Urban Development Action Grant) funds, $2 million from the City and $10 million in bonding authority had been secured. Then in October of that year, the Federal Reserve tightened the money supply and interest rates went up. The City could not market the bonds. It has taken the last two years to put the finances back together again, and this has resulted in a complicated arrangement with the Westinghouse Credit Corp. It has agreed to pick up the bonds, with a two-point concession, but to carry them for only five years. During that time, Ellerbe will have to find long-term financing. In the meantime, the First National Bank of St. Paul has joined in a standby agreement with Westinghouse and issued a letter of credit, saying in effect that if Ellerbe is unable to market those $10 million in bonds over the next five years, the bank will stand by to cover it. "We've had to put our credit on the line," says Godin. "We've had to guarantee more things."

Those aspects of creative financing are going to take on increasing importance for the architectural and engineering professions, according to Dennis Walsh, president of Ellerbe Associates, Inc., the architecture and engineering subsidiary. "I'm absolutely convinced that our own development projects will be 50 percent of our business before we hit the 1990s."

So the old prejudices about development may finally be falling away. Development is taking a front seat in many firms as they try to make the business of architecture more secure and the practice of architecture more effectual. The economic times, as much as anything, seem to dictate concern for the future that extends beyond the next indeterminate commission. It may be time for more architects to consider developing their own market, and not least because it may be the best way of controlling their own designs.

Bonnie Richter is a freelance writer and editor specializing in architecture and regional history.
Lexington Center: a case of learning by doing

"The project turned out to be a beautiful experience for us," says Ellerbe's Director of Architecture Fred Richter. "It accomplished two ends: it gave us expertise in two design areas—in arenas and hotels, although we'd already had some experience in arenas and therefore welcomed the opportunity to build our portfolio in that building type. The second Ellerbe benefit gained from Lexington Center was as unambiguous as it is elusive to many architectural firms: it was a learning experience in making money.

In a sense, Ellerbe enjoyed the best of both worlds at Lexington. As a 50 percent partner with the contractor, the firm assumed ownership status in the Center's commercial and hotel projects, as well as doing design work for the entire development. The city of Lexington developed Rupp Arena (right) and its related exhibit space. Attractive "people spaces," such as the seven-story atrium in the Hyatt Regency Hotel (above) have made the Center a magnet for drawing affluent consumers from the marketing region.
Minnesota's architects in recent years have won hundreds of important awards and commissions across the nation and the world. But they have also served thousands of clients, large and small, throughout Minnesota and the Upper Midwest with skill and dedication. If you need the services of a highly qualified architectural firm, you will assuredly find a suitable one in this Directory. Or if you aren't sure you need an architect, any of the firms listed herein will welcome the opportunity to meet with you to provide professional advice and recommendations.

Robert Rietow, President
Minnesota Society
American Institute of Architects

Legend
AHA American Hospital Association
AHP American Hospital Planners
AIA American Institute of Architects
AICP American Institute of Certified Planners
ASID American Society of Interior Designers
ASLA American Society of Landscape Architects
CSI Construction Specifiers Institute
FAIA Fellow of the AIA
IBD Institute of Business Designers
IES Illuminating Engineers Society
PE Professional Engineer
RAIC Royal Architectural Institute of Canada
ACKERBERG AND ASSOCIATES, INC.
2622 West Lake Street, Suite 210
Minneapolis, MN 55416
612/920-9020
Established 1955
S. M. Ackerberg AIA
D. P. Watschke
Firm Personnel by Discipline
Architectural 4
Other Technical 2
Administrative 3
Total in Firm 9

THE ADAMS GROUP, INC.
118 East 26th Street
Minneapolis, MN 55404
612/872-8506
Established 1978
C. Culver Adams AIA

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Selby/Dale Cooperative Housing, St. Paul, MN; Downtown Shelter Development Program, St. Paul, MN; Peace Lutheran Church, Bloomington, MN; Miscellaneous Projects, St. Paul School System, St. Paul, MN; Community Electronics Corporation, Minneapolis, MN; Jefferson Office Plaza, St. Paul, MN.

ALPHA ARCHITECTS, INC.
3585 N. Lexington Avenue
Arden Hills, MN 55112
612/224-1358
Established 1980
Gunnar F. Unger, Jr. AIA
Robert G. Joslin AIA

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Nordstrand Office Building, Hudson, WI; Frisco Professional Center, Frisco, CO; Keller Office Building, Hudson, WI; Women's Advocates House St. Paul, MN; Detector Electronics Office, Mpls., MN; Holy Condominiums, St. Paul, MN.

ANKENY, KELL AND ASSOCIATES, ARCHITECTS
821 Raymond Avenue, Suite 40
St. Paul, MN 55114
612/645-6806
Established 1976
Ronald W. Ankeny AIA
Duane A. Kell AIA

Firm Personnel by Discipline Administrative Total in Firm

ANDERSON TOLLESON ARCHITECTS
2001 University Avenue S.E.
Minneapolis, MN 55414
612/623-1800
Established 1976
Elliot M. Anderson AIA
Lee Tollefon AIA

Firm Personnel by Discipline Administrative Total in Firm

ANDREA ASSOCIATES, INC.
5085 Clubhouse Drive
Minnetonka, MN 55343
612/492-4525
Established 1980
J. Andrew Lin AIA

Firm Personnel by Discipline Administrative Total in Firm

ARCHITECTURE MINNESOTA
60
ARCHITECTS IV—
FUGELSO, PORTER, SIMICH & WHITEMAN, INC.
1226 East 1st Street
Duluth, MN 55805
218/728-5124
Established 1935
Sanford Porter
AIA
Leon Simich
AIA
Richard Whitman
AIA
Jack Jyring
AIA
Firm Personnel by Discipline
Architectural 7
Other Technical 1
Administrative 2
Total in Firm 10

ARCHITECTURAL ALLIANCE
400 Clifton Avenue South
Minneapolis, MN 55403
12/871-5703
Established 1970
John W. Lackens
AIA
Herbert A. Ketcham
AIA
Richard D. Lembke
AIA
Earl J. Remick
AIA
Firm Personnel by Discipline
Architectural 12
Engineering 1
Landscape Architects 1
Interior 2
Other Technical 2
Administrative 8
Total in Firm 24

ARCHITECTURAL RESOURCES, INC.
704 East Howard Street
Hibbing, MN 55746
218/262-6868
Established 1972
E. A. Jyring
AIA
W. H. Moser
AIA
Roger Saccoman
AIA
Parnell Satre
PE
Lyle Peters
AIA
Kent Worley
ASLA
Firm Personnel by Discipline
Architectural 13
Engineering 5
Landscape 3
Planners 2
Administrative 4
Total in Firm 26

ARCHITECTURAL DESIGN GROUP, INC.
300 Third Avenue S.E., Suite 405
Rochester, MN 55901
507/288-8100
Established 1918
Willis E. Schellberg
AIA
Gordon O. Gjelten
AIA
Byron Stadsvid
AIA
Steven Sorensen
AIA
Firm Personnel by Discipline
Architectural 8
Interior 2
Other Technical 2
Total in Firm 12

ARMSTRONG, TORSETH, SKOLD & RYDEEN, INC.
4901 Olson Memorial Hwy.
Minneapolis, MN 55422
612/545-3731
Established 1944
Kenneth L. Skold
AIA
John C. Torseth
AIA
James E. Rydeen
AIA
Kenneth E. Grabow
AIA
LeRoy H. Palmquist
AIA
Harold E. Shull
PE
Donald L. Yungner
PE
Firm Personnel by Discipline
Architectural 26
Engineering 9
Interior Designers 1
Administrative 4
Total in Firm 40

ARCHITECTURAL ALLIANCE EAST
325 Cedar Street, Suite 208
St. Paul, MN 55101
612/221-1908
Established 1979
Robert R. Nelson
AIA
Robert C. Armbruster
AIA
Darrell D. Carlson
AIA
Firm Personnel by Discipline
Architectural 5
Administrative 1
Total in Firm 6

ARCHITECTURAL ALLIANCE
2162 South University Avenue
St. Paul, MN 55114
612/696-0808
Established 1960
James E. Speckmann
AIA
Charles D. Liddy, Jr.
AIA
Grant Peterson
AIA
Firm Personnel by Discipline
Architectural 4
Other Technical 2
Other General 1
Total in Firm 7

ASSOCIATED ARCHITECTS AND ENGINEERS
241 S. Cleveland
St. Paul, MN 55105
612/698-0808
Established 1960
James E. Speckmann
Charles D. Liddy, Jr.
Grant Peterson
AIA
AIA
AIA
Firm Personnel by Discipline
Architectural 4
Other Technical 2
Other General 1
Total in Firm 7

Firm Personnel by Discipline
Office Buildings/Banks 50
Retail 7
Industrial 2
Educational 10
Medical 2
Interior 2
Solar/Earth Sheltered 2
Housing 4
Municipal 2
Restoration 2
Other 2

Firm Personnel by Discipline
Office Buildings/Banks 30
Retail 5
Industrial 6
Medical 5
Churches 5
Restoration 2
Municipal 3
Interior 4
Solar/Earth Sheltered 5
Education/Academic 10

Reliance Federal Savings & Loan, Rochester, MN; Hiawatha Adult Home, Rochester, MN; Bethany Samaritan Nursing Home, Rochester, MN; Queen of Peace Hospital Addition, New Prague, MN; International Transport Office Building, Rochester, MN; Mayo Clinic Institute Hills Research Farm Remodeling, Rochester, MN.

Work %
Firm Personnel by Discipline
Office Buildings/Banks 50
Retail 7
Industrial 2
Educational 10
Medical 2
Interior 2
Solar/Earth Sheltered 2
Housing 4
Municipal 2
Restoration 2
Other 2

Firm Personnel by Discipline
Office Buildings/Banks 30
Retail 5
Industrial 6
Medical 5
Churches 5
Restoration 2
Municipal 3
Interior 4
Solar/Earth Sheltered 5
Education/Academic 10

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Work %
Firm Personnel by Discipline
Office Buildings/Banks 50
Retail 7
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Solar/Earth Sheltered 2
Housing 4
Municipal 2
Restoration 2
Other 2

Firm Personnel by Discipline
Office Buildings/Banks 30
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Work %
Firm Personnel by Discipline
Office Buildings/Banks 50
Retail 7
Industrial 2
Educational 10
Medical 2
Interior 2
Solar/Earth Sheltered 2
Housing 4
Municipal 2
Restoration 2
Other 2

Firm Personnel by Discipline
Office Buildings/Banks 30
Retail 5
Industrial 6
Medical 5
Churches 5
Restoration 2
Municipal 3
Interior 4
Solar/Earth Sheltered 5
Education/Academic 10

Reliance Federal Savings & Loan, Rochester, MN; Hiawatha Adult Home, Rochester, MN; Bethany Samaritan Nursing Home, Rochester, MN; Queen of Peace Hospital Addition, New Prague, MN; International Transport Office Building, Rochester, MN; Mayo Clinic Institute Hills Research Farm Remodeling, Rochester, MN.

Work %
BAKER ASSOCIATES, INC.
301 Chamber of Commerce Bldg.
15 South 5th Street
Minneapolis, MN 55402
612/339-8601
Established 1959
Edward F. Baker AIA
Brian R. Morgan AIA
Firm Personnel by Discipline
Architectural 5
Administrative 3
Total in Firm 8

THE BAYMILLER STUDIO, INC.
300 St. Paul Building
6 W. 5th Street
St. Paul, MN 55102
612/292-1610
Established 1978
John S. Baymiller AIA
S. Rae Baymiller IES
Firm Personnel by Discipline
Architectural 1
Interior Design 1
Total in Firm 2

FREDERICK BENTZ/MILO THOMPSON/ROBERT RIETOW, INC.
1234 Dain Tower
Minneapolis, MN 55402
612/332-1234
Established 1971
Frederick Bentz FAIA
Milo H. Thompson AIA
Robert G. Rietow AIA
Firm Personnel by Discipline
Architectural 11
Administrative 1
Total in Firm 12

S. J. BERNSTEIN ASSOCIATES, ARCHITECTS-PLANNERS
7711 Country Club Drive
Minneapolis, MN 55427
612/545-8319
Established 1968
Firm Personnel by Discipline
Architectural 1
Other Technical 1
Administrative 1
Total in Firm 3

A. J. BERREAU AND ASSOCIATES, INC.
1220 Glenwood Ave.
Minneapolis, MN 55405
(612) 377-8314
Established 1971
Alfred J. Berreau AIA
Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5

BOARMAN ARCHITECTS, INC.
710 Chamber of Commerce Bldg.
15 South 5th Street
Minneapolis, MN 55402
612/139-3752
Established 1978
Jack Boorman AIA
Svend Anderson AIA
Jerome Undberg
Mike McDonald
Firm Personnel by Discipline
Architectural 1
Marketing Coordinator 1
Total in Firm 2

RANDALL BRADLEY DESIGN
1229 N. Thomas Avenue
Minneapolis, MN 55411
612/529-0146
Established 1981
Randall Bradley AIA
Firm Personnel by Discipline
Architectural 1
Industrial 1
Total in Firm 1

BLUMENTALS/ARCHITECTURE INC.
6100 Summit Dr. N.
Brooklyn Center, MN 55430
612/571-3550
Established 1976
Janis Blumentals AIA
Susan Blumentals AIA
Firm Personnel by Discipline
Architectural 8
Administrative 5
Total in Firm 13

Work %

Office Bldgs./Banks 10
Retail/Commercial 5
Industrial 70
Medical/Health Care 5
Churches/Worship 5
Restoration/Preservation 5
Municipal Buildings 10
Nobles County Complex, Worthington, MN; Eastern Distribution & Spreads Plant, Kent, OH; Law Enforcement Center, Esterville, IA; Faribault State Hospital Renovation, Faribault, MN; Christian Reform Church, Worthington, MN

Boettenc, Townsend, Stolte & Bettenburg, INC.
2000 N. Snelling Avenue
St. Paul, MN 55113
612/645-1276
Established 1922
William J. Estebo AIA
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

Work %

Housing 20
Office Buildings 10
Retail/Commercial 10
Medical Facilities 20
Churches/Worship 10
Restoration 10
Education 20
Medical Center, Thief River Falls, MN; Medical Center, Chisago Lakes, MN; Galter Elementary School, St. Paul, MN; Student Union, Bemidji State University; Wilder Square, Housing, St. Paul, MN; St. Rose of Lima Church, Roseville, MN

Work %

Housing 45
Office 10
Retail 5
Industrial 10
Restoration/Preservation 10
Solar/Earth Sheltered 10
Larson Commons Elderly Housing, Cloquet, MN; Scottwood & Thrifty Scot Motels; American Center Building Renovation, St. Paul; HRA of Dakota County, Rosemount, MN; Solar Townhouses For HRA of Dakota County; Northeast Condominiums, St. Cloud, MN

Work %

Housing 10
Office 10
Retail 5
Industrial 10
Other 15

The Kit Connection: Rosedale, Duluth, & Victoria Crossing; Sabathani Community Center Remodeling; Adams Residence Remodeling.
### BRW ARCHITECTS
A Studio of Bennett-Ringrose-Wolsfeld-Jarvis-Gardner, Inc., 5240 University Avenue SE, Minneapolis, MN 55414
Established 1956
612/379-7878

- David J. Bennett, AIA
- Donald W. Ringrose, PE
- Richard P. Wolsfeld, PE, AICP
- Peter E. Jarvis, AICP
- Lawrence J. Gardner, PE
- Thomas F. Carroll, PE

**Firm Personnel by Discipline**
- Architectural: 23
- Engineering: 34
- Landscape Architects: 4
- Planners: 19
- Other technical: 15
- Administrative: 17
- Total in Firm: 112

**Work %**
- Housing: 20
- Office Buildings: 35
- Retail: 10
- Industrial: 5
- Municipal Buildings: 5
- Solar/Earth Sheltered: 15
- Education/Academic Buildings: 10
- U.S.A.F. Academy Visitor Center, Colorado; Bonaventure Center, Minnetonka; Holaday Circuits Manufacturing, Blaine; “The Galleria,” Edina; “Williamson Hall” (University of Minnesota); Civil/Mineral Engineering, (University of Minnesota).

### BUETOW & ASSOCIATES, INC.
345 Rice Street, Suite 210
St. Paul, MN 55113
612/483-6701

- Thomas W. Dunwell, AIA
- Darrell F. Johnson

**Firm Personnel by Discipline**
- Architectural: 4
- Other Technical: 1
- Administrative: 3
- Other General: 2
- Total in Firm: 10

**Work %**
- Housing: 5
- Office Buildings: 13
- Industrial: 13
- Medical/Health Care: 5
- Churches/Worship: 10
- Restoration/Preservation: 10
- Municipal Buildings: 15
- Interior Architecture: 10
- Solar/Earth Sheltered: 10
- Education/Academic Buildings: 5

### BWBR ARCHITECTS, INC.
400 Sibley Street
St. Paul, MN 55101
Professional Center
Hudson, WI 54016
612/222-3701

- Fritz C. Rohkohl, AIA
- Lloyd F. Bergquist, AIA
- Wilford F. Johnson, AIA
- Charles D. Wahlberg, AIA

**Firm Personnel by Discipline**
- Architectural: 24
- Engineering: 3
- Interior Designers: 5
- Other Technical: 3
- Administrative: 9
- Total in Firm: 44

### ROBERT DAVID IBROArchitects, INC.
750 South Plaza Drive
Mendota Heights, MN 55120
612/443-8505
Established: 1977

- Robert D. Burow, AIA

**Firm Personnel by Discipline**
- Architectural: 2
- Interior Designers: 1
- Other Technical: 1
- Administrative: 1
- Total in Firm: 5

**Work %**
- Housing: 10
- Office Buildings: 50
- Industrial: 10
- Churches/Worship: 10
- Municipal Buildings: 5
- Exterior Sheltered: 5
- St. Jude Medical, Little Canada, MN; Cardiac Pacemakers, Inc., Arden Hills; 1st State Bank of Spring Lake Park; Dakotas Adults, Mendota Heights, MN; Augusta Lutheran Church, W. St. Paul; Central Telephone, Lakeville, MN.

### CAVIN AND ROVA ARCHITECTS
432 Landmark Center
St. Paul, MN 55102
612/224-2311
Established 1946

- Brooks Cavin, AIA
- John P. Rova, AIA

**Firm Personnel by Discipline**
- Architectural: 2
- Total in Firm: 2

**Work %**
- Housing: 8
- Office Buildings: 4
- Retail: 30
- Industrial: 4
- Medical/Health Care: 3
- Churches/Worship: 5
- Restoration/Preservation: 35
- Municipal Buildings: 6
- Interior Architecture: 4
- Minneapolis Club Interior Remodeling; Brown County Historical Museum; Exterior Conservation of Minnesota State Capitol; Historical Society Bldg.; & State Office Building; Trinity Lutheran Church Remodeling.

### CLOSE ASSOCIATES, INC.
3101 East Franklin Avenue
Minneapolis, MN 55406
612/339-0979
Established 1939

- Elizabeth S. Close, AIA
- W. Garman Hargreaves, AIA

**Firm Personnel by Discipline**
- Architectural: 3
- Other Technical: 2
- Administrative: 1
- Total in Firm: 6

**Work %**
- Housing: 20
- Office Buildings: 5
- Retail: 20
- Solar/Earth Sheltered: 10
- Education/Academic Buildings: 45
- Tuttle School Renovation, Minneapolis; A Chemical Dependency Center for Anoka State Hospital, Anoka, MN; Ronald McDonald House, Minneapolis; Seward West Earth Sheltered Townhouse; “Winds of Hope” (Moderate and Low-Income)
- Housing, The Preserving Institute; Gray Freshwater Biological Institute, Navarre, MN.

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MAY 1982 63
THE DESIGN PARTNERSHIP, LTD
15 South Fifth Street
Suite 900
Minneapolis, MN 55402
612/338-8889
Established 1972
William C. Anderson AIA
Darrell D. Anderson AIA
Firm Personnel by Discipline
Architectural 6
Administrative 1
Total In Firm 7

Work %
Housing 24
Office Buildings/Banks 25
Retail/Commercial 15
Industrial/Mfg. 15
Other 5
Loring Green West; First National Bank; Plymouth; Century Corporate Plaza; IBM—Branch Office, Washington Square; Riverview Office Park; "Le Café" Brasserie

DESIGNERY, ARCHITECTURE
P.O. Box 57
Stillwater, Minnesota 55082
612/433-1973
Established 1979
Raymond R. Raffel AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %
Housing 10
Office Buildings/Banks 10
Retail/Commercial 3
Industrial/Mfg. 55
Churches 15
Restoration/Preservation 3
Solar/Earth Sheltered 5
Passive Solar Residence, Stillwater, MN; Office Warehouse, New Hope, MN; Trinity Church Addition, Crystal, MN; Office/Manufacturing Plant, Blaine, MN; Grace Lutheran Church, Anoka, MN

DESIGN TWO INC.
684 Excelsior Blvd.
Excelsior, Minnesota 55331
612/474-3291
Established 1971

J. Nicholas Ruch AIA
Bertil E. Haglund AIA
Firm Personnel by Discipline
Architectural 4
Administrative 2
Total in Firm 6

Work %
Housing 15
Office Buildings/Banks 20

ECKBERG ASSOCIATES, INC.
2140 Spruce Trail
Minneapolis, MN 55422
612/588-6388
Established 1972
Erland Eckberg, Jr. AIA

ELLERBE ASSOCIATES, INC.
One Appletree Square
Bloomington, MN 55420
612/853-2000
Established 1909
Dennis Walsh AIA
H. William Nara AIA
Fred Richter AIA
Donald C. G. Nelson AIA
Robert F. Jacobsen PE
Roger Santelman PE
Donald Chapman PE
Malcolm Nett PE
A. G. Erickson PE

DYKINS ASSOCIATES, INC.
2950 Metro Drive, Suite 307
Minneapolis, Minnesota 55420
612/854-3363
Established 1975
Charles A. Dykens AIA
Firm Personnel by Discipline
Architectural 4
Total in Firm 4

Work %
Office Buildings/Banks 37
Industrial/Mfg. 18
Medical Facilities/Health 32
Municipal Bldgs/Education 7
Other 7

InterNorth Corporate Headquarters, Omaha, NE; Hennepin County Juvenile Detention Center, Minneapolis, MN; Center Square, Knoxville TN; Volusia County Civic Center, Daytona Beach, FL; Riley Children's Hospital, Indianapolis, IN; Mt. Sinai Medical Center, New York, NY
### ARVID ELSNESS
**Architects**
383 Butler Square Bldg.
Minneapolis, MN 55403
612/339-3508
Year Established 1975

<table>
<thead>
<tr>
<th>Arvid Elness</th>
<th>AIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paul Madson</td>
<td>AIA</td>
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</table>

**Firm Personnel by Discipline**

- Architectural: 10
- Other Technical: 1
- Administrative: 1
- Total in Firm: 12

**Work %**

<table>
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<td>Interior Architecture</td>
<td>5</td>
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<tr>
<td>Solar/Earth Sheltered</td>
<td>5</td>
</tr>
</tbody>
</table>

*Butler Square West, Minneapolis, MN; Trinity Church & School, Wausau, WI; Cedar Riverside infill housing, Minneapolis, MN; Southhaven Seniors Housing, Edina, MN; Nine Mile Office Bldg., Bloomington, MN; Southshore Senior Housing, Excelsior, MN.*

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### RICHARD ENGAN ASSOCIATES, ARCHITECTS
323 W. 4th Street
P.O. Box 89
Willmar, MN 56201
612/235-0860
Established 1979

| Richard P. Engan | AIA |

**Firm Personnel by Discipline**

- Architectural: 3
- Administrative: 3
- Total in Firm: 5

**Work %**

<table>
<thead>
<tr>
<th>Housing</th>
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<td>Churches/Worship</td>
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<tr>
<td>Interior Architecture</td>
<td>5</td>
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<tr>
<td>Solar/Earth Sheltered</td>
<td>5</td>
</tr>
<tr>
<td>Education/Academic</td>
<td>10</td>
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</tbody>
</table>

*Christian Living Center, Willmar, MN; Camp Sanderson Peacepipe Girl Scout Council, Spicer, MN; Grandstand Athletic Field, Montevideo, MN; Family Practice Medical Center; Willmar, MN; Handicapped Accessibility—Bemidji Hall, U of M, Morris, MN; Renovations, Medical Treatment Centers, Willmar State Hospital, Willmar, MN.*

---

### ENERGY ARCHITECTURE MINNESOTA, INC.
8510 210th Street West
Lakeville, MN 55044
612/646-2519
Established 1982

| Gary P. Turpening | AIA |

**Firm Personnel by Discipline**

- Architectural: 1
- Total In Firm: 1

**Work %**

<table>
<thead>
<tr>
<th>Housing</th>
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<td>Office Buildings/Banks</td>
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<tr>
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<tr>
<td>Industrial/Mfg.</td>
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<tr>
<td>Churches/Worship</td>
<td>10</td>
</tr>
<tr>
<td>Restoration/Preservation</td>
<td>10</td>
</tr>
<tr>
<td>Municipal Buildings</td>
<td>10</td>
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</table>
| Office Building, Camp Hill, PA; Broad St. Market Plaza, Harrisburg, PA; Renovation Mt. Calvary Church of God in Christ, Harrisburg, PA; Planning Proposal for Cultural Center, Toledo, OH; Addition Crowley Residence, Lemoine, PA.*

---

### STANLEY FISHERMAN ASSOCIATES, INC.
348 North Prior Avenue
St. Paul, MN 55104
(612) 646-1381
Established 1965

<table>
<thead>
<tr>
<th>Stanley Fishman</th>
<th>AIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>George Cundy</td>
<td>AIA</td>
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</table>

**Firm Personnel by Discipline**

- Architectural: 2
- Administrative: 3
- Total in Firm: 3

**Work %**

<table>
<thead>
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<tbody>
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<td>Office Bldgs/Banks</td>
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<td>Medical/Health Care</td>
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<tr>
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<tr>
<td>Solar/Earth Sheltered</td>
<td>5</td>
</tr>
<tr>
<td>Other (Street Revitalization)</td>
<td>30</td>
</tr>
</tbody>
</table>

*Woodmount Townhomes, Cottage Grove, MN; Cedar Riverside Peoples Center, Minneapolis, MN; Riverview Manor Group Home for the Developmentally Disabled, Wannamigo, MN; Fort Road Revitalization, St. Paul, MN.*

---

### STANLEY FISHERMAN ASSOCIATES, INC.
348 North Prior Avenue
St. Paul, MN 55104
612/690-2431
Established 1898

| Mark B. Foss | PE |

**Twelve other principals**

**Firm Personnel by Discipline**

- Architectural: 39
- Engineering: 23
- Interior Designers: 9
- Other Technical: 1
- Administrative: 8
- Total In Firm: 80

**Work %**

<table>
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<th>Office Bldgs/Banks</th>
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<tbody>
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<tr>
<td>Industrial/Mfg.</td>
<td>3</td>
</tr>
<tr>
<td>Medical Facilities</td>
<td>30</td>
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<tr>
<td>Churches/Worship</td>
<td>7</td>
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<td>5</td>
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<tr>
<td>Municipal Buildings</td>
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<tr>
<td>Interior Architecture</td>
<td>8</td>
</tr>
<tr>
<td>Education/Academic</td>
<td>12</td>
</tr>
<tr>
<td>Other (Street Rehabilitation)</td>
<td>8</td>
</tr>
</tbody>
</table>

*Northwestern Bank, Fergus Falls, MN; Judicial Wing/State Office Building Addition to State Capitol, Bismarck, ND; Music Education Center, North Dakota State University, LeSuer; County Law Enforcement Center, LeCenter, MN; Kittson County Nursing Home and Hospital, Hallock, MN; U.S.D.A. Human Nutrition Lab, Grand Forks, ND.*

---

### FOWLER HANLEY INC.
1207 Harmon Place
Minneapolis, MN 55403
612/332-8728
Established 1973

<table>
<thead>
<tr>
<th>Michael A. Fowler</th>
<th>PE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thomas J. Zumwalde</td>
<td>AIA</td>
</tr>
<tr>
<td>John T. Hanley</td>
<td>PE</td>
</tr>
</tbody>
</table>

**Firm Personnel by Discipline**

- Architectural: 12
- Engineering: 4
- Other Technical: 1
- Administrative: 3
- Total in Firm: 20

**Work %**

<table>
<thead>
<tr>
<th>Housing</th>
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<tbody>
<tr>
<td>Office Bldgs/Banks</td>
<td>20</td>
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<tr>
<td>Medical/Health Care</td>
<td>5</td>
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<tr>
<td>Restoration/Preservation</td>
<td>10</td>
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<tr>
<td>Municipal Buildings</td>
<td>10</td>
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<tr>
<td>Solar/Earth Sheltered</td>
<td>10</td>
</tr>
<tr>
<td>Education/Academic Building</td>
<td>10</td>
</tr>
</tbody>
</table>

*Boca Raton Office Complex, Boca Raton, FL; Federal Lumber Company, Brooklyn Center, MN; Quorum Registry Hotel, Addison, TX; City Walk Garage & Condominiums, St. Paul, MN; Luxury Hotel, Miami FL; New Offices 1207 Harmon Place, Minneapolis, MN.*

---

### FREERKS SPERL FLYNN ARCHITECTS
2575 West Seventh Street
St. Paul, MN 55116
612/690-2431
Established 1958

<table>
<thead>
<tr>
<th>Eugene L. Freerks</th>
<th>AIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Robert H. Sperl</td>
<td>AIA</td>
</tr>
<tr>
<td>Eugene G. Flynn</td>
<td>AIA</td>
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</tbody>
</table>

**Firm Personnel by Discipline**

- Architectural: 39
- Administrative: 8
- Total In Firm: 47

**Work %**

<table>
<thead>
<tr>
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<td>Medical Facilities</td>
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</tr>
<tr>
<td>Education/Academic</td>
<td>12</td>
</tr>
<tr>
<td>Other (Street Rehabilitation)</td>
<td>8</td>
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</tbody>
</table>

*Minnesota Bureau of Criminal Apprehension Headquarters, St. Paul, MN; College of Veterinary Medicine Hospital, University of Minnesota; Hayden Heights Library, St. Paul, MN; Church of St. Patrick, Edina, MN; East Shore Place Elderly Housing, Mahtomedi, MN; Chisago County Jail, Center City, MN.*

---

### ENVIRONMENTAL DESIGN
948 Lindwood Avenue
St. Paul, MN 55105
612/228-0869
Established 1979

| Douglas Derr | AIA |

**Hobbit Hills, MN: Energy Efficient Housing Demonstration Program.**

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### FREDERICKS SPERL FLYNN ARCHITECTS
2575 West Seventh Street
St. Paul, MN 55116
612/690-2431
Established 1958

<table>
<thead>
<tr>
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<td>AIA</td>
</tr>
<tr>
<td>Eugene G. Flynn</td>
<td>AIA</td>
</tr>
</tbody>
</table>

**Firm Personnel by Discipline**

- Architectural: 39
- Administrative: 8
- Total In Firm: 47

**Work %**

<table>
<thead>
<tr>
<th>Housing</th>
<th>9</th>
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<tbody>
<tr>
<td>Office Bldgs/Banks</td>
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<td>Industrial/Mfg.</td>
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<td>Medical Facilities</td>
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<tr>
<td>Churches/Worship</td>
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<tr>
<td>Education/Academic</td>
<td>12</td>
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<tr>
<td>Other (Street Rehabilitation)</td>
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</tbody>
</table>

*Bureau of Criminal Apprehension Headquarters, St. Paul, MN; College of Veterinary Medicine Hospital, University of Minnesota; Hayden Heights Library, St. Paul, MN; Church of St. Patrick, Edina, MN; East Shore Place Elderly Housing, Mahtomedi, MN; Chisago County Jail, Center City, MN.*

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### ARCHITECTURE MINNESOTA

**66**
RAY W. GEIGER
ARCHITECTS, INC.
730 Hennepin Ave., Suite 206
Minneapolis, MN 55403
(612) 370-0893
Established 1979
Ray W. Geiger AIA
Firm Personnel by Discipline
Architectural 2½
Total in Firm 2½
Work %
Housing 45
Churches/Worship 40
Restoration/Preservation 10
Interior Architecture 10
Faith Covenant Church, Burnsville, MN; Single Family Residence, Minneapolis, MN; Single Family Residence, Troy County, WI

GRAFFUNDER ASSOCIATES INC.
221 1st Natl. Bank Bldg.
Wayzata, MN 55391
612/473-6727
Established 1948
Carl Graffunder AIA
Firm Personnel by Discipline
Architectural 1
Other Technical 3
Total in Firm 4
Work %
Housing 50
Office Buildings/Banks 10
Medical Facilities/Health Care 10
Churches/Worship 10
Solar/Earth Sheltered 20
Holbrook Townhouses, Wayzata, MN; Dental Clinic, Fairmont, MN; Office Building, Minnetonka, MN; 101 Townhouses, Minnetonka, MN; Building Remodeling, Hastings, MN

GREEN, NELSON, WEAVER & WINSOR INC.
3033 Excelsior Blvd.
Minneapolis, MN 55416
612/926-7635
Established 1878
Gene L. Green AIA
Arthur E. Nelson
John K. Weaver
Mark F. Winsor
Firm Personnel by Discipline
Architectural 5
Engineering 4
Administrative 2
Total in Firm 11

Housing 3
Office Buildings/Banks 16
Retail/Commercial 2
Industrial/Manufacturing 30
Churches/Worship 2
Restoration/Preservation 14
Municipal Buildings 2
Interior Architecture 2
Solar/Earth Sheltered 2
Education/Academic Buildings 27
Minneapolis Technical Institute and Parking Garage, Minneapolis, MN; Weyerhaeuser Distribution Center (Retrofit), St. Paul, MN; Ridgedale YMCA, Minnetonka, MN; Boise Cascade Manufacturing Plant, Milford, CT; Minneapolis Star & Tribune Newspaper Office Building, Minneapolis, MN; Stone Container, Tupelo, MS

GARY GROOTERS ARCHITECTS P.A.
400 East St. Germaine
St. Cloud, MN 56301
(612) 252-3740
Established 1977
Gary Grooters AIA
Firm Personnel by Discipline
Architectural 2
Interior Designers 1
Total in Firm 3
Work %
Housing 30
Office Bldgs./Banks 5
Retail/Commercial 5
Industrial 5
Medical/Health Care 40
Churches/Worship 5
Interior Architecture 5
Solar/Earth Sheltered 5
Country Manor Nursing Home and Elderly Housing, Sartell, MN; Woodland Acres Health Care & Retirement Center, Brainerd, MN; Good Shepherd Lutheran Nursing Home, Sauk Rapids, MN; Glen Oaks Nursing Home and Elderly Housing, New London, MN; NSF Office Building, St. Cloud, MN;

GROUP II ARCHITECTS
104 West Redwood
Marshall, MN 56258
507/532-4946
Established 1979
Thomas J. Osterberg AIA
Ronald D. Halgerson AIA
Firm Personnel by Discipline
Architectural 3
Other Technical 2
Total in Firm 5
Work %
Housing 2
Office Buildings/Banks 18
Industrial/Manufacturing 40
Churches/Worship 10
Restoration/Preservation 2
Municipal Buildings 20
Education/Academic Buildings 8
Law Enforcement/County Extension Addition, Watonwan County, St. James, MN; Municipal Building, Redwood Falls, MN; First Bank Minneota, Marshall, MN; Building Addition, Magnetic Peripherals, Inc., Redwood Falls, MN; Alterations to First Lutheran Church, Marshall, MN;
<table>
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<tr>
<th>Firm Name</th>
<th>Discipline</th>
<th>Work %</th>
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</thead>
</table>
| RICHARD HANFORD & ASSOCIATES, LTD. | Architectural | 0.0%
| | Interior Designers | 1.0%
| | Total in Firm | 3.0%
| HENDRIX/SNYDER ARCHITECTS INC. | Architectural | 0.0%
| | Interior Designers | 0.0%
| | Total in Firm | 2.0%
| HAMMEL GREEN & ABRAHAMSON INC. | Architectural | 0.0%
| | Total in Firm | 1.0%
| HARMALA, DELAPP, MULVEY/ARCHITECTS INC. | Architectural | 0.0%
| | Total in Firm | 0.0%
| HILLS GILBERTSON ARCHITECTS INC. | Architectural | 0.0%
| | Interior Designers | 0.0%
| | Total in Firm | 1.0%

**HARRY HENDRICKS**

<table>
<thead>
<tr>
<th>Firm Name</th>
<th>Discipline</th>
<th>Work %</th>
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</thead>
</table>
| HENDRIX/SNYDER ARCHITECTS INC. | Architectural | 4.0%
| | Interior Designers | 2.0%
| | Total in Firm | 6.0%
| HAMMEL GREEN & ABRAHAMSON INC. | Architectural | 0.0%
| | Total in Firm | 0.0%
| HARMALA, DELAPP, MULVEY/ARCHITECTS INC. | Architectural | 0.0%
| | Total in Firm | 0.0%
| HILLS GILBERTSON ARCHITECTS INC. | Architectural | 0.0%
| | Interior Designers | 0.0%
| | Total in Firm | 0.0%

**HARRY HENDRICKS**

<table>
<thead>
<tr>
<th>Firm Name</th>
<th>Discipline</th>
<th>Work %</th>
</tr>
</thead>
</table>
| HENDRIX/SNYDER ARCHITECTS INC. | Architectural | 0.0%
| | Interior Designers | 0.0%
| | Total in Firm | 0.0%
| HAMMEL GREEN & ABRAHAMSON INC. | Architectural | 0.0%
| | Total in Firm | 0.0%
| HARMALA, DELAPP, MULVEY/ARCHITECTS INC. | Architectural | 0.0%
| | Total in Firm | 0.0%
| HILLS GILBERTSON ARCHITECTS INC. | Architectural | 0.0%
| | Interior Designers | 0.0%
| | Total in Firm | 0.0%
HORTY, ELVING & ASSOCIATES INC.
605 E. Grant St.
Minneapolis, MN 55404
612/332-4422
Established 1955

Thomas Horta AIA
Carl D. Elving PE

Firm Personnel by Discipline
Architectural 2
Total in Firm 2

Work %
Housing 75
Energy Research 25

Whittier Townhomes, Minneapolis, MN; Marshall Avenue Residence, St. Paul, MN (single family house)

INTERDESIGN INC.
1409 Willow St.
Minneapolis, MN 55403
612/871-7979

Duane Thorbeck AIA
Roger B. Martin ASLA
Robert Lambert AIA

Firm Personnel by Discipline
Architectural 4
Landscape Architecture 2
Other Technical 2
Total in Firm 10

Work %
Housing 25
Office Buildings/Banks 12
Retail/Commercial 13
Industrial 10
Medical/Health Care 5
Restoration/Preservation 7
Municipal Buildings 3
Interior Architecture 15
Solar/Earth Sheltered 5
Education/Academic Buildings 5

Northland Executive Office Center, Bloomington, MN; Golden Hills Shopping Center, Golden Valley, MN; American Indian Evangelical Church, Minneapolis, MN; Garcia’s Restaurant, St. Louis Park, MN; Clairmont Residence, Bismarck, ND; Johnnson Residence, Wayzata, MN

JOHNSON, SHELDON & SORENSEN ARCHITECTS, INC.
10249 Yellow Circle Drive
Minnetonka, MN 55343
(612) 935-6337

Roger F. Johnson AIA
Alvin D. Sheldon AIA
Carlyle A. Sorensen AIA

Firm Personnel by Discipline
Architectural 7
Other technical 1
Administrative 1
Total in Firm 9

Work %
Housing 20
Office Bldgs./Banks 25
Retail/Commercial 5
Industrial 10
Medical/Health Care 10
Churches/Worship 10
Municipal Buildings 5
Interior Architecture 5
Education/Academic Buildings 10
Energy Conservation 10

Addition and Remodeling, First National Bank, Anoka, MN; Bunker Riverview Estate

TRUMAN HOWELL ARCHITECTS & ASSOCIATES, INC.
20 Mendelssohn Avenue, suite 130
Minneapolis, MN 55427
Established 1978

Firm Personnel by Discipline
Architectural 3
Total in Firm 1

Work %
Housing 15
Office Buildings 30
Medical/Health Care 30
Churches/Worship 10
Solar/Earth Sheltered 15

Airport Business Center I, Bloomington, MN; Airport Business Center II, Bloomington, MN; Tescom Corporation, Watertown, SD; Tescom Corporation, Elk River, MN; Pinecrest Residence, Burnsville, MN; Infield Residence, Stillwater, MN

PHILIP D. JOHNSON ARCHITECT
5637 Brooklyn Boulevard
Minneapolis, MN 55429
612/533-4235
Established 1978

Phillip D. Johnson AIA

Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %
Housing 20
Office Buildings 5
Medical/Health Care 10
Churches/Worship 10
Solar/Earth Sheltered 15

Brooklyn Law Center; Zimmerman Evangelical Free Church Addition; Remodeling of Colony Park Baptist Church

K

KEGEL ASSOCIATES ARCHITECTS
1030 Lake Ave.
P.O. Box 599
Detroit Lakes, MN 56501
218/847-9876
Established 1960

Fred W. Kegel, Jr. AIA

Firm Personnel by Discipline
Architectural 2
Administrative 1
Total in Firm 3

Work %
Housing 15
Office Buildings/Banks 40
Medical Facilities/Health Care 15
Municipal Buildings 10

Hospital, Red Lake, MN; Telephone, Walker, MN; Fish Processing, Sault Ste. Marie, MI; YMCA, Fergus Falls, MN; Nursing Home, Fertile, MN; Community College, Fergus Falls, MN

KEILLOR ARCHITECTS
1642 Edgewood Ave. S.
St. Louis Park, MN 55426
612/545-1324
Established 1980

Richard Keillor AIA

Firm Personnel by Discipline
Architectural 1
Total in Firm 1

Work %
Housing 20
Office Buildings/Banks 50
Retail/Commercial 10
Education/Academic Buildings 10
Energy Conservation 10

Addition and Remodeling, First National Bank, Anoka, MN; Bunker Riverview Estate

MAY 1982 69
LEONARD LAMPERT ARCHITECTS, P.A.
Re, 1 Box 178H
Cedar River Township, MN 55372
612/447-8700
Established 1980
Leonard Lampert AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1
Work %
Housing 64
Retail/Commercial 36

LILYHOLM YOUNG & GLEESON
237 E. Sixth Street
St. Paul, Minnesota 55101
612/227-7667
Established 1979
Leonard P. Lilyholm
Howard J. Young
Daniel J. Gleeson AIA
Firm Personnel by Discipline
Architectural 4
Administrative 3
Total in Firm 7
Work %
Housing 40
Office Bldgs./Banks 30
Restoration/Preservation 20
Interior Architecture 10
St. Paul Energy Park, St. Paul; Panama Flats Condos, St. Paul; Riverbend Project, Rochester; Chicago Great Western Freight Station Office Condo, St. Paul; Fifth Avenue, Edina; Marquette Bank, Fridley

MACDONALD AND MACK PARTNERSHIP
750 Grain Exchange Building
Minneapolis, MN 55415
612/341-4061
Established 1977
Stuart E. MacDonald
Robert C. Mack
AIA
Firm Personnel By Discipline
Architectural 2
Other 1
Total in Firm 3
Work %
Restoration/Preservation/Adaptive Use 100
Adaptive Use of Hohlmans Methodist Church, St. Paul; O'Neal-Dayton Place Condominium Rehabilitation, St. Paul; Historical/architectural study of Nicholas Jansot Mansion, Chicago, IL; Masonry Restoration at Fort Jackson, Savannah, GA; Historical/architectural survey of Janesville, WI; Restoration of the Grain Exchange Building terra cotta, Minneapolis

MAY 1982
MALLORCH-WIRTH ARCHITECTS INC.
221 3rd Avenue South
Minneapolis, MN 55401
612/333-3141
Established 1981
Harry Wirth
Duncan Mallorh AIA
Bob Ready AIA, AICP
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

Work %
Housing 40
Office Buildings/Banks 20
Retail/Commercial 20
Solar/Earth Sheltered 20
Control Data Small Farms Earth Berm Housing, Princeton, MN; 1990 Portola Estate Residence, Woodside, CA; Timber Inn Motel-Restaurant, Phillips, WI; Planning Phase—17.5 acres on El Camino Real, San Francisco, CA; Restoration/remodel—Silverado Mountain Ranch, Healdsburg, CA; Wild River General Store, Cable, WI.

MASTNY ASSOCIATES, ARCHITECTS
15 Brown Road South
Long Lake, MN 55356
612/476-0276
Established 1957
George G. Mastny AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1
Work %
Housing 10
Retail Commercial 10
Industrial 10
American Inns Hotel, Minot, ND; Boosalis Building, Chicago & Lake, Mpls.; Arrowhead Center Remodeling, Minot, ND; Clyde Jorgenson Addition, Plymouth, MN; Red Owl Store, St. James, MN; Industrial Bldg., Northland Park, Brooklyn Park, MN.

MATSON, WEGLEITNER, ABENDROTH ARCHITECTS
North Plaza Building
5217 Wayzata Blvd.
Minneapolis, MN 55416
(612) 344-8941
Established 1958
Al Wegleitner AIA
Urban Abendroth AIA
Firm Personnel by Discipline
Architectural 6
Engineering 1
Administrative 1
Total in Firm 8
Work %
Office Bldgs./Banks 5
Industrial 5
Interior Architecture 5
Education/Academic Buildings 5
Southwest Junior Swimming Pool, Forest Lake, MN; Barnum Senior High School, Barnum, MN; Stapes AVTI, Staples, MN; Big Lake Elementary School, Big Lake, MN; Orono Theater, Orono, MN; Rice Lake Elementary School, Osseo, MN.

MAXNARY KRAFFT BIRCH & KILGORE, INC.
10501 Wayzata Boulevard
Minnetonka, MN 55343
612/546-8917
Established 1934
Merrill A. Birch AIA
Robert A. Kilgore AIA
Robert C. Van Hoe CSI
Firm Personnel by Discipline
Architectural 3
Total in Firm 3
Work %
Housing 34
Industrial 2
Medical Facilities 38
Education 12
Non-Consulting 14
Luther Haven Home, Monticello; Bethesda Nursing Home, Willmar; Doctors Clinic, Benson; Renovation & Remodeling, Cambridge State Hospital; Remodeling Oddfellows' Home, Northfield; Mini-warehouse, New Hope.

MCGUIRE COURTEAU LUCKE ARCHITECTS INC.
667 Grand Avenue
St. Paul, MN 55105
612/222-8451
Established 1973
Patrick F. McGuire AIA
Arnold S. Lucke AIA
Richard J. DuBresne
Firm Personnel by Discipline
Architectural 6
Administrative 1
Total in Firm 7
Work %
Housing 15
Office Bldgs./Bank 5
Retail/Commercial 5
Industrial 10
Medical 10
Churches/Worship 10
Restoration/Preservation 5
Municipal Buildings 10
Interior Architecture 15
Solar/Earth Sheltered 10
Education 20
Our Lady of Good Counsel Home, St. Paul, MN; Dakota County AVTI, Rosemount, MN; John Paul Residence Hall, College of St. Thomas, St. Paul; Eastview Recreation Center; City of St. Paul; District Services Facility, St. Paul Public Schools; Longfellow Elementary School, St. Paul Public Schools.

MACKNUTT ASSOCIATES
409 West Washington
Brainerd, MN 56401
218/829-0424
Established 1981
James McKechnie
Firm Personnel by Discipline
Architectural 2
Retail 1
Industrial 1
Housing 1
Churches/Worship 1
Medical 1
Restoration/Preservation 1
Municipal Buildings 1
Education 1
East Central Technical Institute—Update Project; East Grand Forks AVTI Additions & Remodeling; Owatonna High School Auditorium Remodeling; Owatonna Free Public Library, Addition & Remodeling; Various projects for Brainerd Public Schools.
### MELANDER AND MELANDER ARCHITECTS, INC.

- **Established 1971**
- **Donald K. Melander**
- **James C. M. Wilander**

#### Work %
- **Housing**: 12%
- **Office Bldgs/Banks**: 10%
- **Retail/Commercial**: 2%
- **Industrial**: 5%
- **Medical**: 3%
- **Churches/Worship**: 4%
- **Restoration/Preservation**: 10%
- **Municipal**: 20%
- **Interior Architecture**: 18%
- **Solar/Earth Sheltered**: 2%
- **Education**: 14%

#### Firm Personnel by Discipline
- **Architectural**: 3%
- **Administrative**: 2%
- **Total in Firm**: 5%

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### MEYER, SCHERER AND ROCKCASTLE, LTD.

- **Established 1981**
- **Thomas A. Meyer**
- **Jeffrey A. Scherer**
- **Garth C. Rockcastle**

#### Work %
- **Housing**: 5%
- **Office Bldgs/Banks**: 10%
- **Churches/Worship**: 15%
- **Municipal Buildings**: 65%
- **Solar/Earth Sheltered**: 5%

#### Firm Personnel by Discipline
- **Architectural**: 26%
- **Other technical**: 3%
- **Administrative**: 2%
- **Total in Firm**: 31%

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### MILLER-METCALF ARCHITECTS, LTD.

- **Established 1961**
- **Valerius F. Michelson**
- **Craig G. Andersen**
- **David P. Bowers**
- **Daniel H. Feidt**

#### Firm Personnel by Discipline
- **Architectural**: 26%
- **Administrative**: 6%
- **Total in Firm**: 32%

---

### VAL MICHIELSON AND ASSOCIATES, INC.

- **Established 1981**
- **Valerius F. Michelson**
- **Craig G. Andersen**
- **David P. Bowers**

#### Firm Personnel by Discipline
- **Architectural**: 43%
- **Total in Firm**: 43%

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### WILLIAM MILBRATH, ARCHITECT

- **Established 1949**
- **William Milbrath**

#### Firm Personnel by Discipline
- **Architectural**: 1%
- **Total in Firm**: 1%

#### Work %
- **Housing**: 5%
- **Office Bldgs/Banks**: 10%
- **Churches/Worship**: 15%
- **Municipal Buildings**: 65%
- **Solar/Earth Sheltered**: 5%

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### MILLER-DUNWIDDE ARCHITECTS, INC.

- **Established 1963**
- **Foster W. Dunwiddie**
- **William J. Miller**

#### Firm Personnel by Discipline
- **Architectural**: 5%
- **Administrative**: 1%
- **Total in Firm**: 6%

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### MONSON/UELAND ARCHITECTS, INC.

- **Established 1981**
- **D. Jon Monson**
- **Christopher Ueland**

#### Firm Personnel by Discipline
- **Architectural**: 2%
- **Administrative**: 1%
- **Total in Firm**: 3%

#### Work %
- **Housing**: 70%
- **Retail/Commercial**: 10%
- **Restoration/Preservation**: 20%

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### MILLER HANSON WESTERBECK BELL ARCHITECTS INC.

- **Established 1962**
- **John R. Miller**
- **James E. Hanson**
- **Larry W. Westerbeck**
- **Edwin M. Bell**

#### Firm Personnel by Discipline
- **Architectural**: 26%
- **Other technical**: 3%
- **Administrative**: 2%
- **Total in Firm**: 31%
ELDON MORRISON
ARCHITECTS/INC.
613 Fourth Street
White Bear Lake, MN 55110
612/426-3287
Established 1967
Eldon Morrison AIA

Firm Personnel by Discipline
Architectural 5

Total in Firm 5

Work %
Housing 20
Office Bldgs/Banks 10
Retail/Commercial 5
Industrial/Manufacturing 10
Medical Facilities 5
Churches/Worship 20
Consulting 20
Superwood Corp. Addition, Duluth, MN; Aerolift Inc., Eden Prairie, MN; Cirrus Flight Operations, Inc., Blaine, MN; Dereman Welding & Tank Service, Inc., Fridley, MN; New Life Community Church, Cottage Grove, MN

ROBERT M. NELSON,
ARCHITECT
2589 Fisk Street
Roseville, MN 55113
612/484-9027
Established 1980
Robert M. Nelson AIA

Firm Personnel by Discipline
Architectural 1

Total in Firm 1

Work %
Housing 25
Churches/Worship 50
Consulting 20

Superwood Corp. Addition, Duluth, MN; Aerolift Inc., Eden Prairie, MN; Cirrus Flight Operations, Inc., Blaine, MN; Dereman Welding & Tank Service, Inc., Fridley, MN; New Life Community Church, Cottage Grove, MN

NEMETH ASSOCIATES
6 West Fifth Street
St. Paul, MN 55102
612/227-7888
Established 1980
Frank D. Nemeth AIA

Firm Personnel by Discipline
Architectural 4
Interior Designer/Planner 1

Total in Firm 5

Work %
Housing 20
Office Buildings/Banks 35
Retail/Commercial 20
Industrial/Manufacturing 5
Medical Facilities/Health Care 5
Consulting 5

Evenson Office Building, Columbia Heights, MN; Retail Mall, Columbia Heights, MN; Private Residence, Big Sandy Lake, McGregor, MN; COMSERV Corp., International Headquarters, Eagan, MN; Women's Specialty Hospital, Cairo, Egypt; One Corporate Center, Phase 5 and 6, Edina, MN

NEUJAHR & WALIJARVI ASSOCIATES, INC.
1600 Pioneer Building
St. Paul, MN 55101
612/224-3355
Established 1967
Rodney E. Neujaehr AIA
Michael E. Walijarvi

Firm Personnel by Discipline
Architectural 4
Other technical 1
Administrative 2

Total in Firm 7

Work %
Industrial/Manufacturing 8
Churches/Worship Facilities 12
Education/Academic Buildings 80

Central Baptist Church, St. Paul, MN; Westwood Junior High School, Blaine, MN; Fine Arts Auditorium Addition, Spring Lake Park, MN; Earth Sheltered Elementary School, Norwood, MN; Gymnasium Addition, Granite Falls High School, Granite Falls, MN; Lindstrom Junior High School Addition, Lindstrom, MN

NORDALE ASSOCIATES
3250 West 66th Street
Minneapolis, MN 55435
612/925-3646
Established 1972
David E. Nordale AIA

Firm Personnel by Discipline
Architectural 1

Total in Firm 5

Work %
Industrial/Manufacturing 10
Office Buildings/Banks 15
Solar/Earth Sheltered 35

Superwood Corp. Addition, Duluth, MN; Aerolift Inc., Eden Prairie, MN; Cirrus Flight Operations, Inc., Blaine, MN; Dereman Welding & Tank Service, Inc., Fridley, MN; New Life Community Church, Cottage Grove, MN

THE OSTBERG ARCHITECTS
191 Niles Avenue
St. Paul, MN 55116
(612) 699-9678
Established 1980
Linda Ostberg AIA

Firm Personnel by Discipline
Architectural 1

Total in Firm 7

Work %
Housing 80
Office Bldgs./Banks 20
Interior Architecture 10
Solar/Earth Sheltered 30

Central Baptist Church, St. Paul, MN; Westwood Junior High School, Blaine, MN; Fine Arts Auditorium Addition, Spring Lake Park, MN; Earth Sheltered Elementary School, Norwood, MN; Gymnasium Addition, Granite Falls High School, Granite Falls, MN; Lindstrom Junior High School Addition, Lindstrom, MN

74 ARCHITECTURE MINNESOTA
REESER DESIGN
Suite 140 E
9100 W. Bloomington Freeway
Bloomington, MN 55431
612/884-1172
Established 1981
Frank L. Reese AIA
Firm Personnel by Discipline
Architectural 2
Total in Firm 2
Housing %
Office Buildings/Banks 25
Industrial 10
Restoration/Preservation 20
Medical 1
Churches/Worship 5
Restoration/Preservation 5
Municipal Buildings 10
Solar/Earth Sheltered 10
Pentucket Place Cond. Apts, Apple Valley, MN; Willow Grove
Shooting Center, Plymouth MN; CWA 7200 Remodeling,
Minneapolis, MN; SGL Manufacturing, Eden Prairie, MN;
Interplastic Manufacturing, South Bend, IN; Park Brook
Townhouses, Plymouth, MN.

ROCKEY & CHEEVER ARCHITECTS
300 Martin Building
Mankato, MN 56001
507/345-3577
Established 1878
Walter B. Cheever AIA, CSI
Gerhard Teschner A. David Asleson
Firm Personnel by Discipline
Architectural 3
Other Technical 1
Administrative 1
Total in Firm 5
Housing %
Office Buildings/Banks 30
Interior Architecture 20
Education 45
HECO Building, Mankato, MN; Swimming Pool Addition and Auditorium Renovation, St. Peter; Elementary School, St. James, MN; Middle School, St. James, MN; Bethany Seminary, Bethany College, Mankato, MN; Northwestern National Bank, remote facility, Mankato, MN.

DAVID TODD RUNYAN AND ASSOCIATES, INC.
2412 Valentine Avenue
St. Paul, MN 55108
612/645-2700
Established 1973
David T. Runyan AIA
Gary J. Vogel AIA
Firm Personnel by Discipline
Architectural 8
Interior Designers 1/2
Administrative 1
Total in Firm 9-1/2
Housing 10
Office Buildings/Banks 50
Retail/Commercial 10
Industrial 30
Production Service Building, Deluxe Check Printers, Shoreview, MN; Evenson Arden Woods Office Building, Arden Hills, MN; Lyndale Garden Center, Richfield, MN; Elder Jones Office Building, Bloomington, MN; Office and Printing Plant, Deluxe Check Printers, Denver, CO; Ridgehaven Mall, Dayton Hudson Properties, Mankato, MN.

S
ROBERT Y. SANDBERG & ASSOCIATES, INC.
505 East 26th Street
Hibbing, MN 55746
218/263-7353
Established 1955
Robert Y. Sandberg AIA
Firm Personnel by Discipline
Architectural 2
Total in Firm 2
Work %
Retail/Commercial 10
Medical/Health Care 45
Churches/Worship 5
Municipal Buildings 20
Interior Architecture 5
Solar/Earth Sheltered 5
Education/Academic Buildings 10
Minnesota Power Service Center, Coalerine; Northland Mental Health Center, Grand Rapids; Ely Bloomenson Community Hospital Addition, Ely; Remodeling Itasca Memorial Hospital, Grand Rapids; Addition-Remodeling First Federal Savings and Loan, Grand Rapids; Boentje Residence, Eshquagame-Biwabik

SCHROEDER ASSOCIATES, INC.
1935 West Co. Rd. B-2
St. Paul, MN 55113
612/631-0159
Established 1974
Harry Schroeder AIA
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2
Work %
Housing 20
Office Bldgs/Banks 80
Anthony Place, Saint Anthony; Schools Distribution Center, Arden Hills; Willow Court Town Houses, White Bear; Hamline Town Office Plaza, Roseville

MAY 1982 77
RICHARD SCHWARZ/NEIL WEBER, INC.
3601 Park Center Blvd.
Minneapolis, MN 55416
612/922-3542
Established 1970
Richard J. Schwarz AIA
Neil Weber AIA

Firm Personnel by Discipline
Architectural 4
Total in Firm 4

SHANK KLEINEMAN DEZELAR ARCHITECTS
507 Pioneer Building
St. Paul, MN 55101
612/224-7831
Established 1977
Fred J. Shank AIA
Steven A. Kleineman AIA
Gerald G. DeZelar AIA

Firm Personnel by Discipline
Architectural 3
Other Technical 1
Administrative 1
Total in Firm 5

SMILEY GLOTTNER ASSOCIATES
1021 LaSalle Avenue
Minneapolis, MN 55403
612/332-1401
Established 1946
Saul C. Smiley FAIA, RAIC, AIA
Joel H. Glottner AIA, AIA, AIA
Ralph Y. Laiderman AIA

Firm Personnel by Discipline
Architectural 15
Engineering 1
Interior Designers 1
Planners 1
Administrative 3
Total in Firm 21

SHELTER RESOURCES, INC.
1219 Marquette Avenue South
Minneapolis, MN 55403
612/333-6837
Established 1978
Alan D. Raymond AIA
Michael D. Sharratt AIA

Firm Personnel by Discipline
Architectural 3
Other Technical 1
Administrative 1
Total in Firm 4

SMILEY GLOTTNER ASSOCIATES
1021 LaSalle Avenue
Minneapolis, MN 55403
612/332-1401
Established 1946
Saul C. Smiley FAIA, RAIC, AIA
Joel H. Glottner AIA, AIA, AIA
Ralph Y. Laiderman AIA

Firm Personnel by Discipline
Architectural 15
Engineering 1
Interior Designers 1
Planners 1
Administrative 3
Total in Firm 21

W. SMITH ARCHITECTS & ENGINEERS
525 Juncton Street
Winona, MN 55987
(507) 452-4196
W. Wayne Smith AIA
Willard W. Ward
Roger L. Green AIA

Firm Personnel by Discipline
Architectural 2
Engineering 1
Other technical 4
Administrative 1
Total in Firm 8

SMEGO, INC.
(Sovik, Mathre, Sathrum, Quanbeck, Architects & Planners)
205 South Water Street
P.O. Box 390
Northfield, MN 55057
507/645-4461
612/332-8679
Established 1949

Edward A. Sovik AIA
Sewell J. Mathre AIA
Clinton L. Sathrum AIA
Robert M. Quanbeck AIA
Terrance J. Schlink AIA

Firm Personnel by Discipline
Architectural 9
Landscape Architects 1
Other Technical 1
Administrative 1
Total in Firm 16

Dormitory, St. Olaf College, Northfield; Science Building Addition, Concordia College, Moorhead; AIC Mission Board Apartments, St. Paul; Jones-Harrison Home, Minneapolis; St. Olaf College Old Main Restoration, Northfield; St. Michael's Church, Sioux Falls, SD
MUCKLER CORPORATION
200 Mount Curve
Minneapolis, MN 55403
2/377-7553
Established 1978
Jack Smucker AIA
Firm Personnel by Discipline
Architectural 3
Administrative 1
Total in Firm 4

HOMAS H. STAHL, INC., ARCHITECTS
30 West Old Shakopee Road
Bloomington, MN 55420
2/881-3610
Established 1966
Thomas H. Stahl AIA
Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5

L. E. STANIS & ASSOCIATES, INC.
31 East 8th Street
Luth, MN 55812
612/724-8578
Established 1976
Erald E. Stanis AIA
Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5

STEGNER-HENDRICKSON
P.O. Box 1
Brainerd, MN 56401
218/829-2255
Established 1955
L. E. Stegner AIA
W. C. Hendrickson AIA
Firm Personnel by Discipline
Architectural 4
Administrative 1
Total in Firm 5

M. STENERSON, ARCHITECT
205 East Walnut Street
Stillwater, MN 55082
612/439-5329
Established 1975
Maurice Stenerson AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

DAVID STOVALL
ARCHITECT
1610-C West Lake Street
Minneapolis, MN 55408
612/823-8063
Established 1980
David Stovall AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

SURI ARCHITECTS, INC.
1150 Benton Way
St. Paul, MN 55112
612/483-6583
Established 1981
Shashi M. Suri AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

TEAM 70 ARCHITECTS, INC.
55 South 8 Street
Minneapolis, MN 55402
612/332-5515
Established 1970
Bernard Jacob FAIA
Sandra Becker IBID
Firm Personnel by Discipline
Architectural 2
Interior Designers 2
Planners 1
Administrative 1
Total in Firm 6

THOMAS AND VECCHI INC.
1518 East Superior Street
Duluth, MN 55812
(218) 724-8802
Established 1971
John Ivey Thomas AIA
Thomas A. Vecchi AIA
Firm Personnel by Discipline
Housing 5
Retail/Commercial 80
Industrial 15

Pioneer Hall Convention Center
Skywalk System, Duluth; University of Minnesota Health Science Library, Duluth; Koochiching County Courts, Law Enforcement and County Jail; Scolastica Nursing Home, Duluth; Stillwater, MN; River Bluff Estates/Walker; Suburban Subdivisions, Bloomington

Work %

Housing 60
Office Bldgs/Banks 10
Retail/Commercial 10
Restoration/Preservation 10

Work %

Housing 50
Restoration/Preservation 10
Education/Academic 20
Recreation Buildings 20
Interpretive Center and Contact Station, Afton State Park; Handicap Accessibility Alterations, Brookwood Hall, University of Minnesota; James Lake House, Lighthouse Point, FL; James Hannah House, Tonka Bay, MN

Work %

Housing 10
Office Bldgs/Banks 15
Industrial/Manufacturing 15
Churches/Worship 20
Municipal Buildings 10
Parking 10

Work %

Housing 10
Office Bldgs/Banks 10
Medical/Health Care 5
Municipal Buildings 5
Solar/Earth Sheltered 10
Education/Academic 5

Senior High School Additions and Remodeling, Burnsville; Senior High School, Park Rapids; Marshall Fire Station, Marshall; Hutchinson Vocational School; Hutchinson; Senior High School, New Prague; Additions and Remodeling, St. Joseph's Hospital, Brainerd

Work %

Housing 60
Office Bldgs/Banks 10
Retail/Commercial 10
Restoration/Preservation 10

Housing 50
Restoration/Preservation 10
Education/Academic 20
Recreation Buildings 20
### THORSSEN & THORSHOV ASSOCIATES, INC.
1000 Title Insurance Building
Minneapolis, MN 55401
612/339-7671
Established 1957
Willard L. Thorsen AIA
Roy N. Thorshov FAIA
William L. Fay AIA
Firm Personnel by Discipline
Architectural 7
Administrative 3
Total in Firm 10

<table>
<thead>
<tr>
<th>Work %</th>
<th>Housing</th>
<th>Office Buildings/Banks</th>
<th>Retail/Commercial</th>
<th>Municipal Buildings</th>
<th>Interior Architecture</th>
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### TOLTZ, KING, DUVALL, ANDERSON & ASSOCIATES INC.
2500 American National Bank Building
St. Paul, MN 55101
612/292-4400
Established 1910
Robert R. Ryder PE
Duane T. Prew PE
Wayne A. Olson AIA
James E. Voyer PE
Walter W. Thorpe PE
DuWayne R. Kasma PE
Firm Personnel by Discipline
Architectural 14
Engineering 67
Landscape Architects 2
Planners 1
Other Technical 64
Administrative 22
Total in Firm 170

<table>
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<th>Work %</th>
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<th>Retail/Commercial</th>
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### TRAYNOR, HERMANSON & HAHN ARCHITECTS INC.
311 Medical Arts Building
St. Cloud, MN 56301
612/251-8760
Established 1949
Gilbert F. Hahn AIA
Firm Personnel by Discipline
Architectural 5
Administrative 2
Total in Firm 7

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<th>Work %</th>
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<th>Office Buildings/Banks</th>
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### TOLYSON ASSOCIATES, INC.
711 West Lake Street
Minneapolis, MN 55408
612/827-5484
Established 1977
Jay W. Tyson AIA
Firm Personnel by Discipline
Architectural 3
Administrative 1
Total in Firm 4

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### WILLIAM A. VIEVERING, ARCHITECT, INC.
1939 Munster Ave.
St. Paul, MN 55116
612/699-1294
Established 1971
Wm. A. Vievering AIA
Firm Personnel by Discipline
Architectural 1
Total in Firm 1

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<th>Work</th>
<th>Housing</th>
<th>Office Buildings/Banks</th>
<th>Retail/Commercial</th>
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### VOIGT & FOUERRE, INC. ARCHITECTS
2109 Grand Ave.
St. Paul, MN 55105
612/696-2451
11 W. Vine Street
Owatonna, MN 55060
Established 1954
James D. Voigt AIA
Daniel W. Foure RE
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

<table>
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<th>Work</th>
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<th>Industrial</th>
<th>Medical/Health Care</th>
<th>Churches/Worship</th>
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### VOORHEES, BOYER &環, INC.
2045 W. Lake Street
Minneapolis, MN 55408
612/871-9000
Established 1945
John D. Voorhees AIA
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

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<th>Medical/Health Care</th>
<th>Churches/Worship</th>
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### WYATT-BROWN, MOORE & ASSOCIATES
1208 Hennepin Avenue
Minneapolis, MN 55403
612/338-2395
Established 1952
William H. Wyatt AIA
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

<table>
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<th>Industrial</th>
<th>Medical/Health Care</th>
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### WYLIE, WILSON, KELLY, QUELTI, INC.
210 N. Park Avenue
Minneapolis, MN 55401
612/338-9797
Established 1952
W. J. Wylie AIA
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

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<th>Medical/Health Care</th>
<th>Churches/Worship</th>
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### WYMAN, ARNOLD & WYMAN, INC.
125 E. 6th Street
Minneapolis, MN 55401
612/338-9200
Established 1952
John A. Wyman AIA
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

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<th>Office Buildings/Banks</th>
<th>Industrial</th>
<th>Medical/Health Care</th>
<th>Churches/Worship</th>
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### ZEPFEN, STEPHENSON & ZEPFEN, INC.
1101 W. Lake Street
Minneapolis, MN 55403
612/339-1130
Established 1952
H. J. Zepfen AIA
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

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<tr>
<th>Work</th>
<th>Housing</th>
<th>Office Buildings/Banks</th>
<th>Industrial</th>
<th>Medical/Health Care</th>
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### ZIEGLER, LEWIS & ZIEGLER, INC.
1200 Park Avenue
Minneapolis, MN 55401
612/338-1110
Established 1952
R. J. Ziegler AIA
Firm Personnel by Discipline
Architectural 1
Administrative 1
Total in Firm 2

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<tr>
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<th>Office Buildings/Banks</th>
<th>Industrial</th>
<th>Medical/Health Care</th>
<th>Churches/Worship</th>
<th>Municipal</th>
<th>Education/Academic</th>
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WALLACE & MUNDT, ARCHITECTS
2275 Edina Industrial Blvd.
Minneapolis, MN 55435
612/831-3509
Established 1963
Gerald E. Mundt AIA
Firm Personnel by Discipline
Architectural 2
Administrative 1
Total in Firm 3
Work %
Housing 15
Office Buildings 15
Retail/Commercial 10
Industrial 5
Medical/Health Care 30
Churches/Worship 5
Restoration/Preservation 5
Municipal 5
Interior Architecture 5
Solar/Earth Sheltered 5
Chisholm Care Center, Chisholm; Golden Valley S.E. Fire Station, Golden Valley; Pondwood Office Park, Golden Valley; Ewphort United Methodist Church, Minneapolis; 4933 France Shops/Office, Edina; Castle Ridge Care Center, Eden Prairie

WATERS, CLUTS & O'BRIEN, INC.
470 Market Place Drive
Eden Prairie, MN 55344
612/941-4822
Established 1978
Keith Waters
Brian Cluts
Daniel O'Brien AIA
Firm Personnel by Discipline
Architectural 7
Administrative 2
Total in Firm 9
Work %
Housing 55
Office Buildings 23
Retail/Commercial 5
Industrial 5
Churches/Worship 5
Interior Architecture 5
Irons Mountain Village—Resort Condominiums and Townhouses; Lake Ridge Office Park—Office Condominiums, Eden Prairie; BurntHaven trium Office Building, Burnsville; Brienza Residence, Blooming-тон; Sugar Hills Base Village—Resort Condominiums; ichman's Rosedale Store

JOHN WEIDT ASSOCIATES, INC.
401 Lake Village Center
Chaska, MN 55318
612/448-6464
Established 1977
John L. Weidt AIA
Firm Personnel by Discipline
Architectural 2
Landscape Architects 1
Administrative 1
Total in Firm 4
Work %
Housing 10
Retail/Commercial 10
Interior Architecture 20
Solar/Earth Sheltered 40
Education/Teaching 20
Security State Bank, Wells MN; Knott Residence, Chaska; Dear dorff Residence, Wisconsin; Bank of Mexico, Mazatlan; Midwest Mountaineering—Town Square, St. Paul; Federal Express Offices, Memphis, TN

WEIS BUILDERS—DESIGN/BUILD
2227 Seventh Street NW
Rochester, MN 55901
507/288-2041
Established 1939
Christopher W. Colby AIA
Michael J. Wilkus
Firm Personnel by Discipline
Architectural 3
Total in Firm 3
Work %
Housing 40
Office Buildings 10
Retail/Commercial 30
Industrial 20
Weis Companies Office/Warehouse, Rochester, Plainview MN and Hayfield MN Seniors Housing; Apache Mall Shopping Center; Remodeling & Retail Stores, Rochester; McNeilus Truck & Manufacturing, Dodge Center, MN; Barlows Plaza Shopping Center & Retail Stores, Rochester; Schmidt/Goodman Office Products, Rochester

FREDRIC WEMLINGER AND ASSOCIATES, INC.
Box 519
1521 Northway Drive
St. Cloud, MN 56302
612/253-2100
Established 1968
Fredric Wemlinger AIA
Firm Personnel by Discipline
Architectural 3
Engineering 1
Administrative 1
Total in Firm 5
Work %
Housing Office Buildings 20
Industrial 10
Restoration/Preservation 10
Municipal Buildings 10
Solar/Earth Sheltered 10
Education/Academic 10
Prime Engineering 20
Correction Facilities 20
Sherburne County Law Enforcement and Judicial Facility, Elk River; WJON/WWJO Radio Station, St. Cloud; Renovation and Remodeling at the Minnesota Correctional Facility, St. Cloud; Corporate Office, Bankers Systems Inc., St. Cloud; 1321 Northway Professionals, Condominium Offices, St. Cloud; Handicapped Access Remodeling, St. Cloud State University

WICK-KAGERMEIER-SKAAR ARCHITECTS, INC.
526 South Second Street
Mankato, MN 56001
507/388-6271
Established 1932
James H. Kagermeier AIA
Roger J. Skaar AIA
Firm Personnel by Discipline
Architectural 2
Interior Designers 1
Other Technical 1
Total in Firm 4
Work %
Housing Office Buildings 20
Industrial 15
Restoration/Preservation 15
Municipal 10
Solar/Earth Sheltered 5
Education/Academic 15
Consulate Housing, U.S. Dept. of State, Kaduna, Nigeria; Functional Industries Sheltered Workshop, Cokato, MN; Findley Place Housing, Minneapolis, MN; Oxford Pool Building, St. Paul, MN; Bridgeplac Office & Condominium Project, Minneapolis; Classroom Lab & Special Purpose Lab Buildings, U of M, Waseca, MN

WILLIAMS/O'BRIEN ASSOCIATES, INC.
43 South Ninth Street
Minneapolis, MN 55402
612/338-8911
Established 1962
Lorenzo D. Williams FAIA
James W. O'Brien AIA
Stephen M. DeCoste AIA
Firm Personnel by Discipline
Architectural 6
Administrative 1
Total in Firm 7
Work %
Housing 25
Office Buildings 15
Retail/Commercial 15
Industrial 5
Restoration/Preservation 5
Municipal 10
Interior Architecture 5
Solar/Earth Sheltered 5
Education/Academic 15
Jackson High School, Jackson MN; First Bank Detached Unit, Mankato; Spearhead Industries Warehouse, Mankato; First Lutheran Church, LeSueur MN; Minnesota Valley Regional Library, Mankato; Multi-Church Center, Mankato

MAY 1982 81
## WINSOR/FARICY ARCHITECTS, INC.

28 West 5th Street  
Suite 175  
St. Paul, MN 55102  
612/227-0655  
Established 1971

- **Richard Faricy**  
  FAIA  
- **Wayne Winsor**  
  AIA  
- **Thomas Lynch**  
  AIA  
- **Eugene Nelson**  
  AIA  
- **Greg Conboy**  
  AIA  
- **John Lavender**  
  AIA

**Firm Personnel by Discipline**

- **Architectural**: 36
- **Interior Designers**: 4
- **Administrative**: 11
- **Total in Firm**: 51

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<td>Hill City School, Hill City MN</td>
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<td>Citizens State Bank, Milaca</td>
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## ZUBER SRINY BAKER STEBBINS ARCHITECTS, INC.

816 W. 79th Street  
Minneapolis, MN 55420  
612/884-6204  
Established 1976

- **Jeri E. Zuber**  
  AIA  
- **John E. Sirny**  
  AIA  
- **Wylie Baker**  
  AIA  
- **Ken Stebbins**  
  AIA

**Firm Personnel by Discipline**

- **Architectural**: 31
- **Administrative**: 1
- **Total in Firm**: 32

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<td>Cook Crossing Townhouse restoration, St. Paul</td>
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<td>Marion Fry Residence, St. Paul, MN</td>
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<td>Winfield Potters Restaurant, Minneapolis</td>
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<td>Polly Berg Store, Eden</td>
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<td>Administrative Services Center Remodeling, St. Paul</td>
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<tr>
<td>Elder-Jones Office Building</td>
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**WIGHT ASSOCIATION**

510 Northern Federal Building  
St. Paul, MN 55102  
612/227-7773  
Established 1968

- **Clark D. Wold**  
  FAIA  
- **Norman L. Glewwe**  
  AIA  
- **Michael S. Cox**  
  AIA  
- **Mikio Kirihara**  
  AIA  
- **Kevin P. Sullivan**  
  AIA  
- **Kern C. Olson**  
  CSI

**Firm Personnel by Discipline**

- **Architectural**: 13
- **Interior Designers**: 1
- **Administrative**: 3
- **Total in Firm**: 17

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<td>Hill City School, Hill City MN</td>
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## RICHARD F. ZENISEK ARCHITECT

1428 W. 30th Street  
Minneapolis, MN 55408  
612/823-0917  
Established 1971

- **Richard F. Zenisek**  
  AIA

**Firm Personnel by Discipline**

- **Architectural**: 10
- **Total in Firm**: 10

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<td>Office Buildings</td>
<td>50</td>
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4. Superior finish-holding of stains and paints.
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7. Excellent insulator — 1" redwood has the same thermal insulation as 5.8" thickness of brick, 9" concrete block, 13.7" concrete, 1,706.0" aluminum.
8. Low flame spread rating, means more resistance to flame spreading than most other species of wood products.

Has top quality saw-textured surface:
Not just roughed up, the surface will hold stains and paints up to twice as long as many smooth surfaces.

Has exceptional thickness:
Manufactured with a hefty overall butt thickness, the exposed portion of the rabbeted butt is 5/8"—much thicker than that of the traditional rabbeted sidings. Knots remain in place better than in thinner sidings.

APPLICATION INSTRUCTIONS:
For sheathing use fiberboard, plywood, or lumber, etc. Rigid foam plastic sheathing can cause misperformance of wood sidings. Until the problems are solved, we have to recommend our siding not be applied over rigid foam plastic sheathing.

Use only corrosion-resistant nails to avoid staining of the wood: top quality hot-dipped or hot-tumbled galvanized, or stainless steel nails. Nails must penetrate 1 1/2" into studs or 1 1/2" combination of wood sheathing and studs. If sheathing is not solid wood, use long enough nails to penetrate studs 1 1/2".

Spacing of 1/8" for expansion clearance.

FINISHING RECOMMENDATIONS:
Palco's Rustic Redwood can be finished with a variety of appearances.
1. Stains: Oil-base semi-transparent stains, very popular, provide color but don't hide the grain, knots or texture. Oil-base opaque stains will usually obscure the grain and knots but not the texture.
2. Paints: Top coat can be either latex or oil base and must be applied over a compatible prime coat. Prime coat must be an oil or alkyd-resin base, or a stain-resistant latex base.
3. Water-Repellents: A non-pigmented water-repellent coating will minimize the darkening. The surface will become a buckskin tan. If reapplied, water-repellent can keep the buckskin color; if not, driftwood gray will be reached in time.
4. Do not use shake and shingle paints, low lustre alkyd paints or varnishes.

DETAILS PRODUCT SPECIFICATION
Product name: Palco Rustic Redwood Rabbeted Bevel Siding
Sizes: Nominal 1 1/4" x 6" is Pattern #472; 1 1/4" x 8" is Pattern #473. Net sizes are shown in this sketch:

Lengths are random 6'-20'
Grade: A combination of Select and Construction Common, air-seasoned, saw-textured surface.
Units: Each unit contains 1,750 feet surface measure and is pre-taped.

PALCO RUSTIC REDWOOD is also available in thick butt Bevel Sidings 1 1/4" x 10", 12". Ask for the PALCO literature. Other patterns including vertical siding are available on special order.

SHIPPING INFORMATION FOR DISTRIBUTORS:
This siding is available in truck or carload quantities or can be mixed with a wide range of redwood lumber, Douglas fir lumber and plywood.
The city council chambers, main courtroom and the mayor's office, has been carved up or remodeled.

The City Hall Committee, chaired by Linda Mack, a writer and preservationist, is addressing three major issues: determining which public areas of City Hall should be remodeled, restored or renovated; setting guidelines to bring consistency to the design and maintenance of the building; and determining which potential building functions will attract people. The committee will also examine the building's exterior setting.

Mack says the committee's recommendations, when approved by the Municipal Building Commission, will form the basis for a request for proposal to be sent out in the fall.

At last, landscape architects are members of a single body

With the signing of a unification agreement recently by their leaders, the two national landscape architecture organizations—the American Society of Landscape Architects (ASLA) and the American Institute of Landscape Architects (AILA)—became one. The new organization will be known as the ASLA, thereby keeping the name of the larger, 5,900-member group. The agreement with AILA increases the new organization's membership by 300.

"The Prepared Professional" is 1982 Aspen Conference theme

"The subject is very large," admits architect and industrial designer George Nelson, who is this year's Conference Chairman. "To cope with the abundance of material some unifying assumptions will be used: the fact that professional activity goes on in a mass society, not an ivory tower; the ongoing transformation of many professionals into personnel; the existence of crises in education; and the underlying similarities in professional activity." IDCA participants will be able to attend three seminars on architecture, industrial design and graphic design as well as a major presentation on artificial intelligence. Speakers will include, among others, Dr. Daniel Boorstin, van Chermayeff, Niels Diffrient, Milton Glaser, M. Arthur Gensler, Jr., Jerome B. Wiesner, and Henry Wolf. The International Design Conference is scheduled for June 13-18.

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scanning the media
continued from p. 21

Washington's eye, Mr. Peterson suggests the semantic shelving of long-range planning in favor of the term "foresight capability." He amplifies: "What we are talking about, of course, is not a planned society, but rather the use of planning by our democratically selected leaders to meet society's needs." Foresight capability, he believes, would enable us not only to anticipate the likelihood of such serious problems as hazardous wastes and nuclear wastes but to assess their significance as projected along the time line.

"Fortunately," he concludes, "citizens are well ahead of their current leaders on these issues." He cites a recent poll by Louis Harris indicating the survey respondents' opposition, by the extraordinary margin of 80 to 17 percent, to any relaxation of existing Federal regulation of air pollution.

Twin Cities Batting High

THEY ARE SETTING THE EXAMPLE FOR PRIVATE-PUBLIC PARTNERSHIP SUCCESSES IN THE NATION. To celebrate its fortieth anniversary as a great catalyst in helping business and government accomplish together that which neither can do alone, the prestigious Committee for Economic Development has issued a thoughtful report by its Research and Policy Committee. Repeatedly throughout this report, both Minneapolis and St. Paul are lauded for their exemplary business-community cooperation. Some notable success stories:

- **The Minnesota Five Percent Club.**
  Friendly but vigorous peer pressure is placed on the corporations in the Twin Cities to take maximum advantage of the five percent pre-tax profit contributions mechanism," says the CED report. Started in 1976, the Club by 1980 had 5 member corporations. Few other communities have any kind of corporate percentage-giving plan; the Minnesota Club is thus recognized by CED "as a model for encouraging higher levels and effective use of corporate giving."

- **The Minnesota Project on Corporate Responsibility.**
  An outgrowth of the Five Percent Club, the project sponsors a series of two-day courses on corporate social responsibility. It is held five times a year and is one more reason why the CED report states categorically, "Among America's larger cities, Minneapolis-St. Paul presents an unparalleled picture of corporate leadership."

continued on p. 93
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“Human history becomes more and more a race between education and catastrophe.”
H.G. Wells
The Dayton-Hudson Foundation. Cited as "a leader in community outreach efforts," CED mentioned in particular the Foundation's spearheading of planning process in the Whittier neighborhood, from which a community development corporation evolved. Dayton-Hudson gave $1 million to implement the development plan.

Control Data Corporation. "It has intentionally located plants in depressed areas and provide employees with such services as day care, legal services, and personal, educational, and financial counseling."

The 3M Company. One of the first major corporations to set up a comprehensive van and car pool service, 3M's still probably the most successful. Indeed, many other companies come to St. Paul to study the 3M system.

The Downtown Council. The CED report recognizes all aspects of the downtown business community in Minneapolis for its vision and sophistication making the Council a planning/development catalyst to accomplish major urban projects such as Nicollet Mall.

**People Need Not Apply**

Heres A Club Whose Members Must Be 100 Years Old — And a Ree. What a delightful man Edwin Lewis Stephens must have been. For it as he, as Skip Rozin recounts in the *Audubon* article, "The Most Exclusive Club in America," (March) who founded the Live Oak Society back in 1934. Then president of Southwestern Louisiana Institute, Mr. Stephens reached his idea for this novel society these engaging words:

"Let its membership be composed of trees themselves! Such business of publicity as it may require may be carried out with the assistance of friends. I will volunteer my service for a time as tending secretary. I suggest that the members of the association shall consist of trees whose age is not less than a hundred years (thus affording a background of experience, maturity, and wisdom in counsel)."

Rozin writes that the Society's human sources failed it for a time after its founder's death in 1938, but it is once again as alive as its lively membership, thanks to the loving attention of the Society's current secretary and only human member, a lady named Edith Pfister, who presides in Metairie, Louisiana, and the recording of new members and the dispensing to them of the official Live Oak Society Certificate of Membership.

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Elegance in black has become the trademark of product designs by Sinclair Radionics of Great Britain. Ten years ago they produced the first, thin (pencil thick) calculator for everyman and it was promptly installed in MOMA's permanent collection of exemplary product designs.

In the mid-70s, Sinclair again came up with a first, the “pocket-sized” TV. A stunning piece of technology, it is operable anywhere in the world and sports a 2" screen. It seems only fitting, then, that Sinclair's miniaturization should lead to the production of a black microcomputer called the ZX81.

Introduced to the US market at the end of last year, this computer provides an inexpensive “tasting” to the world of computers for the uninitiated. And you have a choice: the ZX81 kit at $100, or the ready-made at $150. The kit option seems like a good “de-mystifying” approach for introducing computers.

Intrigued, AM's editors obtained a ZX81 kit, built it, and, when it didn't work, took it to a MicroAge Computer store for servicing. Diagnosis: a sick integrated circuit (or chip) which needed replacement.

Based on this experience, we hesitate to recommend the kit for those without access to a computer store or without the skills to wield a mean soldering gun.

The kit is indeed a “best product.” But it has one notable but rectifiable weakness: namely, the assembly instructions assume far too much and are not organized in a step-by-step sequence.

The ready-made version, however, appears to be an excellent product for getting to know what computers are about and at a low cost.

The ZX81 includes hookups to your TV and a cassette tape recorder. The TV becomes your video screen and the cassette player is a medium for storing your data and programs. An extensive instruction manual is also included which will lead you through the basics of how to use this computer. The programming language is called BASIC, the same as used by most of today's personal computer makers.

At present an additional 16K memory module is available to greatly expand the internal data storage potential of the ZX81. A small printer is now available in Europe and will be introduced to the US shortly. All can be ordered by phone (800/543-3000).

The Sinclair ZX81 is an inexpensive way to become acquainted with computers. If you decide to go further, it can fit within a larger system or as a single purpose (dedicated) computer. If you discover that computers are not for you, however, you've spent very little and, at the very least, obtained an elegant piece of black, high-tech sculpture.

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Just before our last issue went to press, we learned and duly reported that *AM* had been named first-prize winner, magazine classification, in the highly respected Gold Circle Award Program sponsored by the American Society of Association Executives. We have since received a handsome trophy which makes this singular honor official. And we couldn’t be prouder.

Or could we?

Now, as we are about to go to press again, we have been advised that *AM* has been nominated for still another award. The screening committee for the National Magazine Awards Program has selected our publication as a finalist in the “general excellence” category for magazines whose circulation is under 100,000 circulation. This awards program, sponsored by the American Society of Magazine Editors and administered by the Columbia University Graduate School of Journalism, is widely recognized by magazine journalists as the most prestigious in their profession.

Win or lose (the results will be announced at about the time this issue of *AM* reaches you), those of us associated with *AM* feel enormously gratified. We feel gratified not so much for the progress we’ve made editorially (important though it be) but for the enhanced opportunity such recognition brings us to serve the profession of architecture and the public more effectively.

Which leads me to invite your interest in two special attractions found in these pages. One is the annual MSAIA Directory of Architectural Firms. This basic source of information promises once again to make this issue of *AM* the one most frequently thumbed through, and actually used, during the remainder of the year. We urge all non-architect readers to peruse this Directory—and use it!

You will also find a new professional service in this issue through which architects may tell you what they are up to. We are calling it “Coming Soon,” and we are delighted that so many firms have elected to use it as a means of reporting on the progress of the projects they are developing at this moment. We believe you will agree that “Coming Soon” responds to a communications need that cannot always be fully embraced in our regular news columns. Follow it closely from issue to issue, and you will be kept abreast of the “action” in our profession hereabouts.

James P. Cramer, Publisher
A message of importance to those planning major buildings in the near future.

The next five years will see one of the highest levels of commercial building this area has ever experienced. It will put the suppliers and contractors for building services to the ultimate test. Quality, productivity, economy—all could suffer because of an enormous demand on limited amount of qualified facilities and qualified labor.

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We have more than a quarter of a century of experience manufacturing and erecting every conceivable type of structure using the latest Prestressed methods and materials. Our imagineering can be seen everywhere in the Twin Cities area. Proof of the desirability, practicality and efficiencies of our prestressed systems. The additional advantages are obviously simple: precasting concrete is faster, less expensive and, more often than not, esthetically better than conventional, on-site building methods.

Your future building plans should include a talk with a Prestressed Concrete, Inc. building consultant. There is no obligation.

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Prestressed Concrete, Inc. structures illustrated: Coon Rapids Post Office; Brookdale Towers Office; 19 Story Housing for Elderly; Valley Office Park, Holiday Inn Central; Chippewa Falls Bridge.
They're "Picky, picky, picky" at the Burnsville Center

That's why they picked Ceramic Tile

"Picky, picky, picky," that's what its ads say and its strategic planning and quality construction bears this out. Burnsville Center was designed for relaxed family shopping. Its more than 140 prestigious specialty stores, shops, theatres, banks and restaurants are in easy proximity due in large part to easily negotiable pedestrian ramps and stairways between levels.

For the latter (plus vestibules, balconies and lounge areas) the "picky, picky" architects (North Architectronics, Inc.) picked distinctive, permanent, easily cleaned 4" x 8" Ceramic Paver Tile... 50,000 square feet of it!

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