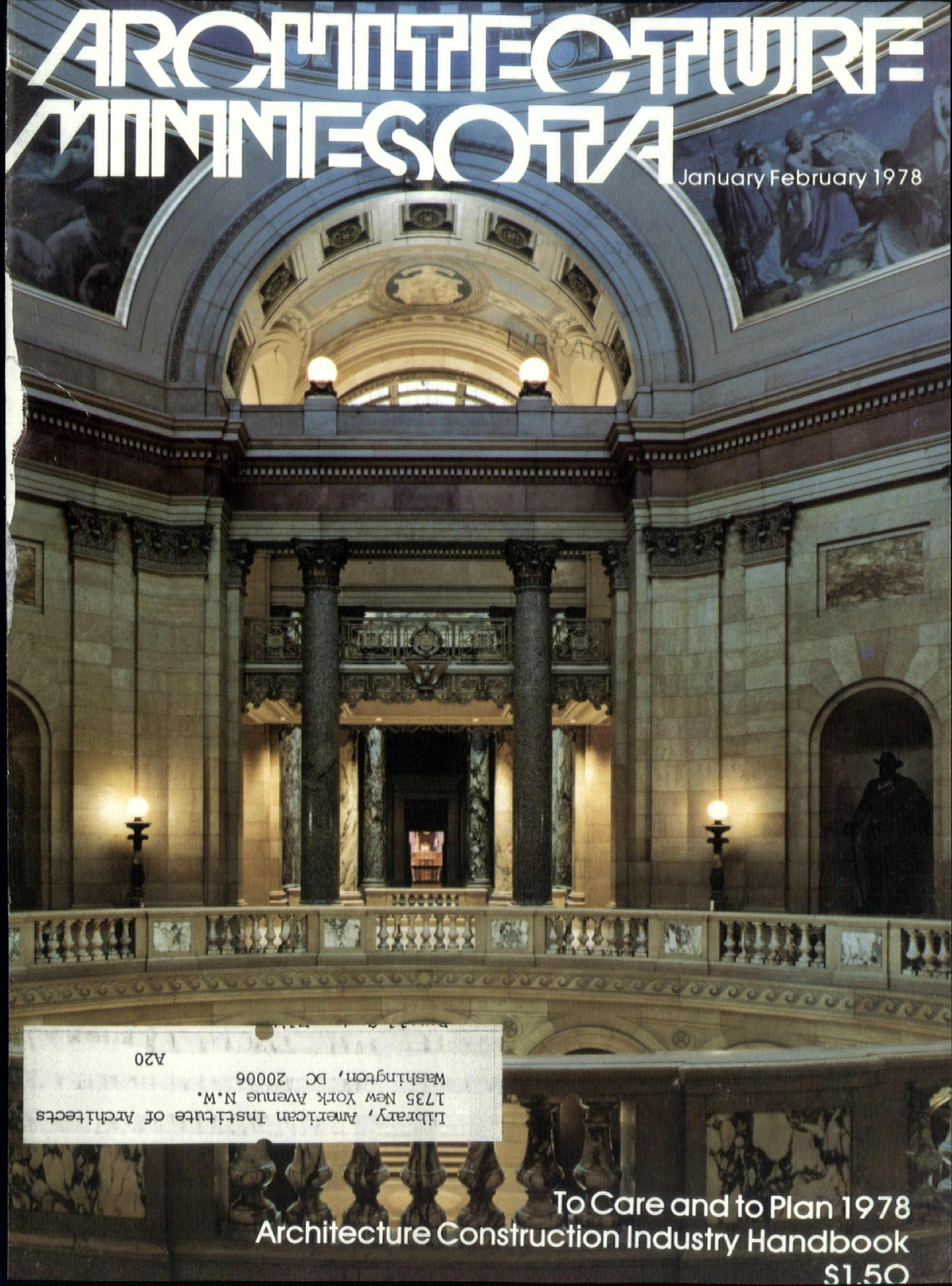


ARCHITECTURE MINNESOTA

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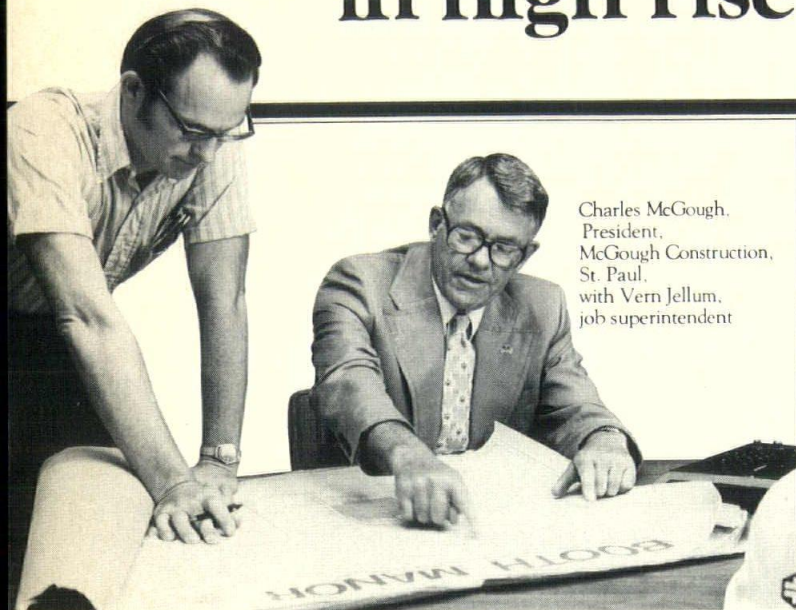
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"Sure, cost is a big factor. But there are more reasons than that for using ready mixed concrete in high rise buildings."



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with Vern Jellum,
job superintendent

"At McGough Construction, because of our experience, we're probably more interested in jobs involving monolithic concrete and masonry, or a combination of the two.

Poured concrete has a lot of advantages. Cost and time are always big factors nowadays. But, personally, I think one of the primary assets of the concrete building is its fire-resistance.

If I were occupying a building, or even constructing one for someone else, I would feel much better knowing it's basically a fireproof structure.

Another one of the unique features of concrete is its appearance. Many people look at concrete and expect it to look like plaster. But Marcel Breuer, one of the outstanding architects in the world, has the idea that concrete should look like concrete. He wants the form marks to show, the knot holes, and everything. That's the coming thing.

Once the architect decides on concrete, the next step is choosing the kind that will be most effective. When we built Booth Manor, a residence for the Salvation Army, a post-tensioned system was used in the floor slabs. This eliminated drop beams, which are costly to form, and enabled us to use a highly economical flying form system.

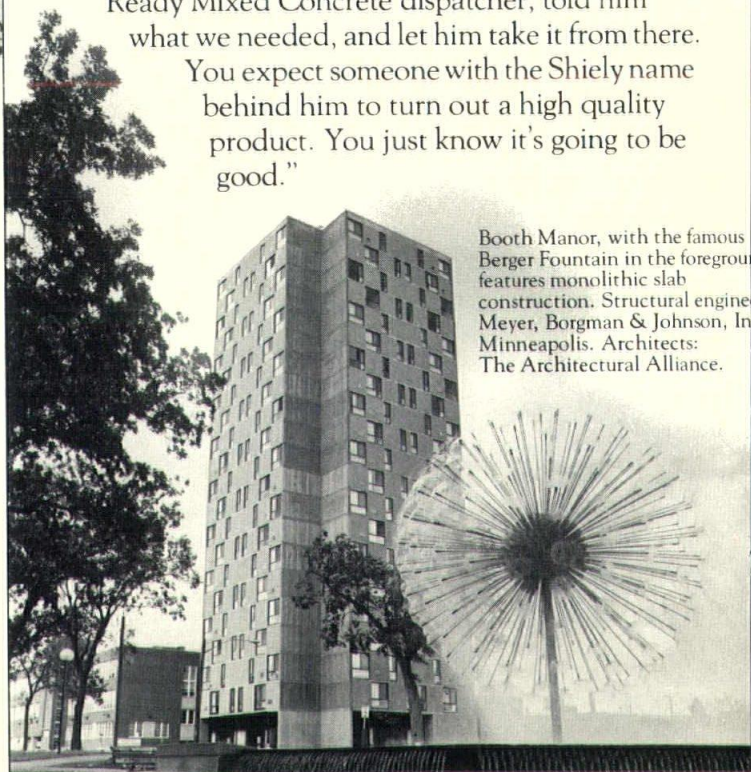
Only 5,500 cubic yards of concrete were used for the 21-story structure. The early strength of our concrete mix, combined with post-tensioning, allowed thinner slabs, without the dead weight of thicker, non-reinforced slabs. Average time from pouring to post-tensioning was about three days. And

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Booth Manor, with the famous Berger Fountain in the foreground, features monolithic slab construction. Structural engineer Meyer, Borgman & Johnson, Inc. Minneapolis. Architects: The Architectural Alliance.



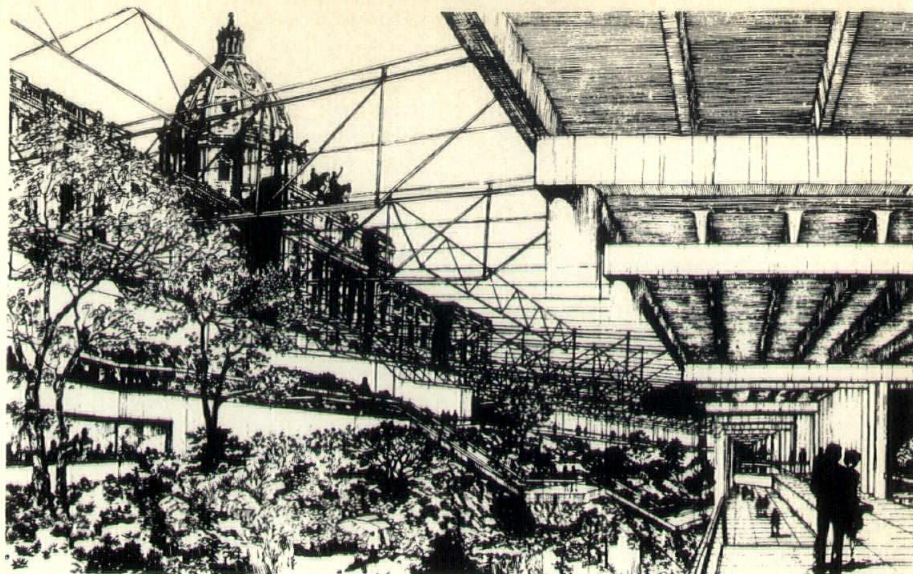
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Minnesota's Quality of Architecture



Minnesota's famed quality of life is also due, we would like to think, to the quality of its architecture. Quality in architecture is achieved when a gifted architect and a farseeing client set out to create a design which meets functional needs, regulatory requirements, budgetary limitations, and then also by transcending them all, a heightened awareness within the building and without the building, i.e. in the immediate vicinity of the new construction.

Minnesota's quality of architecture is high and this is due to an enlightened community and a competent profession. The community is residents, business leaders, civic leaders, and an enlightened legislature; the same legislature which in 1973 authorized preliminary plans for a Capitol Building Annex. As a result of this action the Capitol Area Architectural Planning Board, in 1976, conducted the National Terratectural Competition—Minnesota II.

Some 80 years earlier, a similar national competition had resulted in the selection of Cass Gilbert's design for the State Capitol Building which still stands. An open architectural design competition is a costly and time-consuming means of selecting an architect. It is costly for the client in terms of expense and time. It is costly for the profession to the point of despair. In 1893, as in 1976, the decision to select an architect by this means was based on the desire and the conviction that only in this manner could the best of all possible designs be obtained. The Minnesota State Capitol Building has become part of our architectural heritage. It is unexcelled as a symbolic and physical representation, albeit

eclectic, of the seat of our state government. In 1893 and in 1976, the profession agreed explicitly and implicitly to submit its designs for judgment in the competition. Regardless of the considerable cost, each competitor was willing to submit his vision and his concept for judgment and to take the risks and accept the jury's decision.

Minnesota II received 258 entries from across the nation. It can conservatively be estimated that each submission cost the architect an average of \$12,000. The list of competitors includes the most outstanding architectural firms from across the nation. The roster of these firms indeed reads like Who's Who in the forefront of architecture today.

What made this competition so compelling was not the prize money, not even the chance of winning, but rather the requirements of the competition. For the first time ever, a national competition required the proposed design to be underground. The State Capitol is a monument. What was needed now was more space which could in no way interfere with the view of the monument. Is this non-architecture? Is underground architecture architecture? What a question! What an opportunity! From these 258 entries, the jury selected 5 finalists and asked them to develop the designs further. Anyone of the five final designs could be built and the state would be enriched by it. The jury selected the superior design, a design which answered all the needs and, as we said before, did so creatively and with a vision that transcended the immediate requirements. The winning design is no dilettantish solution. It is the work of a

The winning entry in the Capitol Building Annex design competition by Helmut Jahn, C.F. Murphy Associates, Chicago.

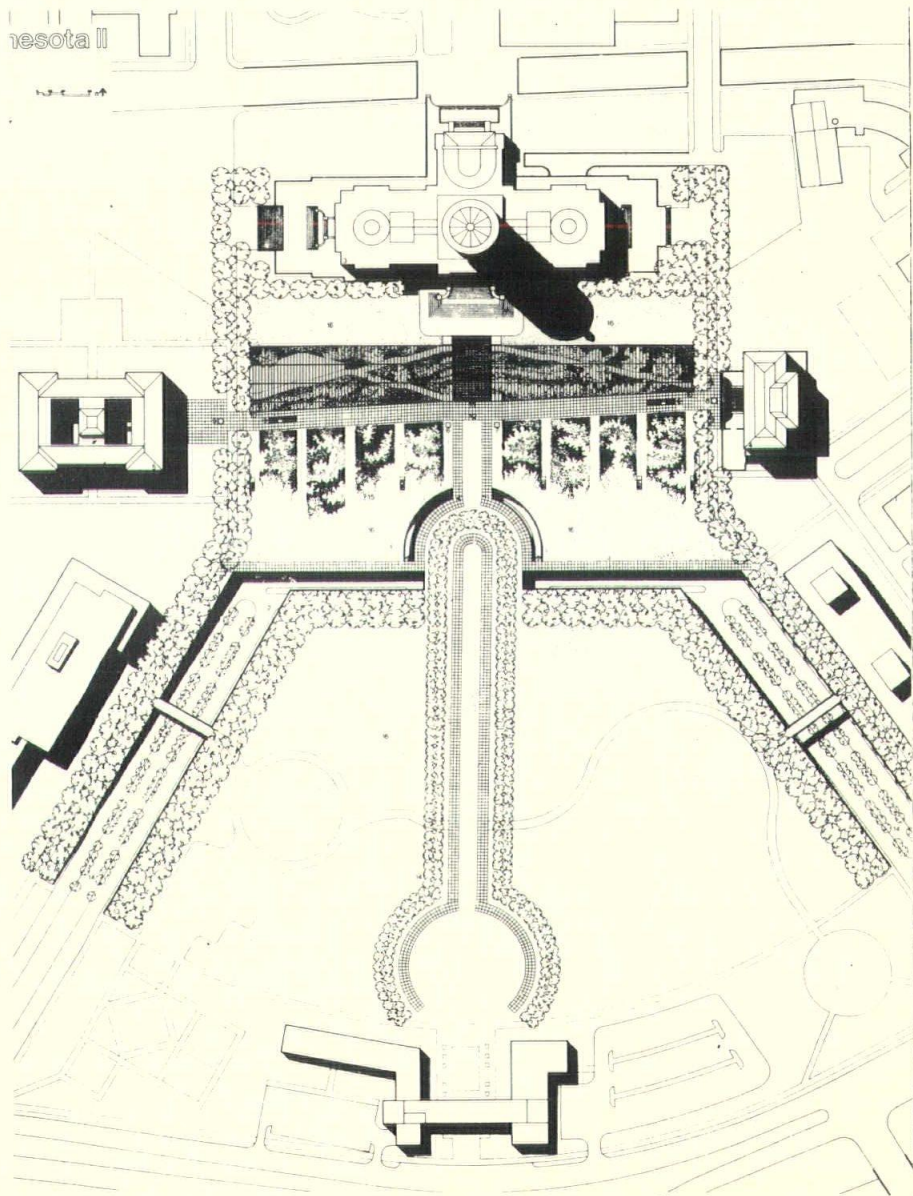
highly organized intelligence which carefully and methodically developed a design which would answer the question "Is underground architecture architecture?" In the hands of the likes of Helmut Jahn underground architecture is architecture, it is great architecture. It sets high standards for the consideration and respect it gives the State Capitol Building and the Capitol Approach. It shows that it can work with and interpret civic symbols. It also shows that an underground building need not be a cell, a cave, a bunker, it can be a very humane environment, resplendent with all the spatial drama, interest and vistas of aboveground buildings. It also illustrates that architecture can have an interior quality which need not be projected, that external symbols are not mandatory.

From the point of view of the building as architecture, from the

point of view of the interpretation of civic architecture, from the point of view of the environmental technical resolutions of underground construction, the winning design for the Capitol Annex Building leads the way.

By asking the nation's architects a question, a dramatic and timely question, Minnesota led the way in challenging the profession. Minnesota has now been given back the challenge. We now have the opportunity to continue to implement a high quality of architecture and in so doing to help answer some of the state's and the nation's most urgent concerns in the areas of energy conservation and historic preservation. Like our State Capitol Building, this proposed landmark building will serve the state for many, many generations to come. ■

—Bernard Jacob



From the Executive Director
Minnesota Society American
Institute of Architects

A Reasonable Law: A Statute of Limitations for the Construction Industry

The Minnesota Society American Institute of Architects and almost the entire construction industry is seeking legislative support for the restoration of the statute of limitations. In reality it is a housekeeping change of approximately 15 words in a statute that had previously been passed by the Minnesota legislature in 1965. In 1976 the Minnesota Supreme Court handed down a decision which negated the original intent of the present Minnesota Statute of limitations as it applies to architects, engineers and contractors.

The court rules that there was a language flaw in the law as written and that, as written, it applied only to cases involving third parties and not also to cases arising between the owner and the architect, contractor, engineer, etc. In handing down the decision, the Supreme Court indicated that language changes would need to be made for the law to properly apply, as it was intended, to the relationship of architects, contractors, subcontractors and materialmen with owners.

The change we are seeking is the minimal language necessary to restore a ten-year statute of limitations. Actually our first preference is to have a six-year statute of limitations. By that we mean that those in the construction industry would be responsible for a building for six years after its completion and occupancy. This is identical to the Wisconsin statute of limitations.

Simply described, a statute of limitations is a concept of law which goes back to English Common Law. It provided that, barring fraud, an individual or organization is legally responsible for an act for a specified number of years. Such statutes are intended to "provide a means of bringing repose to potentially troublesome matters after a suitable length of time so that social order may proceed and to enable a person or organization to be free from onerous legal responsibility beyond a reasonable length of time." It is really a matter of equity and fair play. Also, passage of time tends to deprive those involved of information, personal recall, witnesses and other means of defending themselves.

Most importantly, there is still an avenue of redress or means of recovery for injured third parties. Once a design professional completes his responsibility, the control of the premise is often considerably altered by the owner or user. This in turn alters the structure.

In addition, improper maintenance and numerous other factors occur beyond the responsibility of the contractor and design professional.

Statutes of limitations now exist in 45 of the 50 states. Thirty-four of those states have a statute of limitations of less than ten years, which is superior to Minnesota. Only two states have a statute of limitations in excess of 12 years. In reality, until the Minnesota legislature restores the statute, Minnesota's construction industry is responsible for its buildings for six years from forever. Under law, Minnesota provides a six year statute of limitations from the time of injury. In almost all other fields, for example, medical, dental, professional, etc., the completion of an act and injury occur almost simultaneously, whereas an alleged defect in a building or other structure may cause an injury or damage at an unpredictable distant time in the future. As mentioned, our concerns are:

1. Without a proper statute of limitations, hundreds of small architectural, engineering, contracting and subcontracting firms' financial viability will be seriously jeopardized.

2. Industry professional liability insurance protection, which has already risen at a rate equivalent to that of the medical profession, will need to be carried not only by all existing firms, but by everyone in the profession who retires.

3. The heirs and successive owners of all construction industry enterprises will be liable indefinitely and responsible for buildings constructed by their predecessors. In fact, Cass Gilbert's heirs would now be liable for defending themselves against any action brought by an individual who claimed he was injured by a defect resulting from the design of the Minnesota State Capitol.

4. The costs of legal defense are excessive, not to mention the tremendous interruption and time commitment which must be spent in defending erroneously brought suits. It is only fair that matters be laid to rest after a reasonable length of time.

5. Matters not legally laid to rest remain potentially vexing problems for years.

6. Thus, the protection offered members of the Minnesota construction industry, their families and heirs in-

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volved in the construction industry is considerably less than other states.

Therefore, we propose the following:

1. That modest language changes be made to correct the language flaws in the present statute and to restore the intent of the original statute passed in 1965.

2. That, if possible, we consider reducing the ten-year statute of limitations to six years.

3. That the statute as rewritten, be reviewed to ensure that it is broad in coverage and that, to the degree possible, it will meet the constitutionality test.

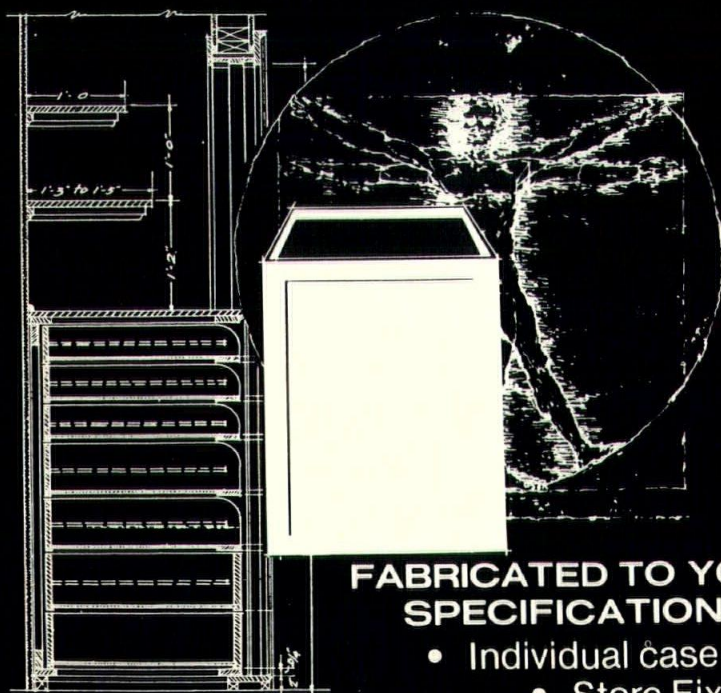
Conclusion

We believe that a good statute, which permits the design professions and the construction industry to practice and work confidently within a reasonable legal liability environment is indeed in the public interest. □

Daniel J. Sheridan

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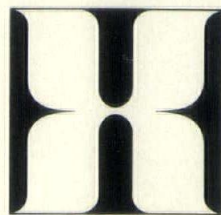
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Alkhobar

Architects Plus, an architectural and interior design firm from Faribault, will be acting as design consultants on a shopping center complex in **Alkhobar, Saudi Arabia**. The complex will house an automobile dealership, offices, bank, service facilities and a general merchandise center, covering 175,000 square feet. The firm was selected as a result of its understanding of pre-engineered building systems which will be utilized on the project to allow almost total fabrication in the United States, with fast erection in Saudi Arabia by a minimal crew of skilled labor.

Appleton

Work has been started on a new senior citizens housing development in the community of **Appleton**. Designed by the Minneapolis firm of **Hustad and Pontinen Architects, Inc.**, the 37-unit building will contain 34 one-bedroom units and three two-bedroom units and completion is scheduled for summer.

Chaska

The biggest construction project in the Chaska area in the last three years is underway at the site of the **Quali-Tech Products, Inc.**, plant in the **Jonathan Industrial Park**. The project, designed by **Roberts Architects**, is a 35,000 square foot addition to the existing building. Cost of the project is \$1.2 million including equipment, remodeling and debt retirement. Completion is scheduled for March 15.

Coon Rapids

The most sophisticated and scientifically advanced testing facility for snowmobiles is under development at the site of the former Minnesota Dragways in **Coon Rapids**. Designed by GK Design International of Los Angeles and the Saint Paul firm of **Bergstedt, Wahlberg, Berquist and Rohkohl**, the facility will be owned and operated by Yamaha Motor Corporation, U.S.A. The site consists of 160 acres with a straight track, an oval track and a quarter mile sound emission track. A new building will also be constructed to house engineering and research personnel.

Gaylord

Stanley Fishman and Associates of Saint Paul, have designed a new 31-unit apartment building for the community of **Gaylord**. The three-level building

will provide several floor plans of both one and two-bedroom apartments along with several units designed especially for handicapped persons. Completion is scheduled for spring.

Grand Marais

Architectural Resources, Inc., Hibbing and Duluth, have been working overtime lately on a number of projects in northern Minnesota and Wisconsin. Currently under construction, for example, is the conversion of an oil burning heating plant to a wood burning boiler installation for a school in **Grand Marais**. The design will take advantage of wood as an abundant local fuel supply and the actual installation work will include fuel storage, fuel transfer firing equipment, and boiler and distribution systems for both steam and hot water connections to existing buildings. Also under construction is a new tribal office and social services building for the **Red Cliff Band of Lake Superior Chippewa Indians at Red Cliff, Wisconsin**. Plans call for a two-level structure with the upper floor for tribal offices and law enforcement functions and the lower floor for community services and staff. Both levels are accessible with barrier-free-on-grade entrances.

Other firm projects include a \$2,500,000 single residence housing projects at Red Cliff, consisting of 40 single family residences on an 80-acre site and a ten-unit apartment building and community center; three visitor centers for **Voyageurs National Park**; and a school addition and government building for the **Bois Forte Indian Reservation at Nett Lake**.

Hastings

The Twin Cities firm of **Adkins Architects** has been hard at work on plans for a new social service at the Government Center grounds in **Hastings**. The building's design and materials will be compatible on the outside with the existing center and the possibilities of using solar energy in the building are being considered for the 12,000 square foot structure.

Inver Grove Heights

Hungry residents of the **Inver Grove Heights** area will have a new eatery to patronize in the near future. Designed by **Korsunsky Krank Architects, Inc.**, the restaurant is part of the **Anchor Inn** chain and is located on a three-acre site. The concrete block building will feature a nautical theme and part of the 12,000 square foot

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structure will contain banquet facilities for parties of 15 to 170 private rooms. There will be parking for about 220 vehicles with special accommodations for the handicapped.

Plymouth

Construction is in progress on a new city hall for the Minneapolis suburb of **Plymouth**. Located in the geographic center of the community, the finished product will be a two-level brick structure containing 31,000 square feet. Designed by **Thorsen and Thorshov**, Minneapolis, the plans emphasize open space and flexibility to meet changing needs through office landscaping, as well as energy efficiency and functional flexibility.

Proctor

The **Proctor Area Federal Credit Union** which started in a one-room office in a railroad yard building will soon be housed in a new structure designed by the Duluth firm of **Raymond Blesener, Architect**. The facility will feature a drive-up window, expanded teller service area and offices and a conference area. The institution dates back to 1934 and was originally restricted to railroad employees who deposited as little as 25 cents per week from their meager paychecks so that they could borrow to survive during the trying years of the Great Depression. The credit union has now hit an annual mark of \$2 million.

Saint Cloud

Pauly Architects, Inc., Saint Cloud, has been commissioned as design architects for a new building for the Women and Children's Medical Center, **Saint Cloud**. Preliminary design work has been completed on the 32,000 square foot facility which includes an OB-GYN section, a pediatrics section, a pharmacy and rental space.

Stillwater

The Minneapolis firm of **Bissell, Belair and Green** has been selected by the State Designer Board to work with the Department of Corrections in preparing plans for converting **Stillwater Prison** to a medium security institution for adult male felons. Opened in 1913, the Stillwater facility is the second state correctional facility to be physically converted to meet the changing needs in the criminal justice system. Construction is now in progress at the Metropolitan Training Center at Lino Lakes which will convert the facility to a medium security adult institution.

Superior

The Duluth architectural firm of **Raymond J. Blesener, Architect**, has announced Phase I groundbreaking ceremonies on a multi-million-dollar development in **Superior, Wisconsin**, by Midwest Radio Co., Fargo, North Dakota. The planned unit development, on a 53-acre site adjacent to the Saint Louis River, will include a neighborhood shopping center, multi-family apartment complexes, condominiums and single family residences. Completion of the first phase is scheduled for next fall. Anda Construction, Moorhead, are the general contractors.

Woodbury

The Bloomington firm of **Ellerbe Associates, Inc.**, won an honorable mention in the commercial category of Owens-Corning Fiberglass Corporation's sixth annual energy conservation awards program. The firm was cited for the design of **Western Life Insurance Company's** corporate headquarters building in **Woodbury, Minnesota**. The \$14.7 million, 35,000 square foot structure will contain offices, a data processing center, kitchen and cafeteria, when completed next June. Set on a northeast-southwest axis, with major entrances on the south and east, the building will receive maximum solar exposure and will also be less subject to Minnesota's prevailing winter winds, keeping it warmer in cold weather.

Twin Cities

Old Fire Station 19, a University of Minnesota area landmark built in 1893 has escaped the wrecking ball and will soon become the new offices of **LeBarron-Wold and Zenk-Sjoquist Architects** who have agreed to preserve the exterior and renovate the interior. Purchased by bid for \$56,200, the building will require about \$200,000 for renovation according to architect Darrel LeBarron. Although stairways must be constructed, toilets replaced and insulation provided, the hardwood floor and firepole will be preserved. To make the venture successful, the two firms plan to occupy the top floor and lease the main floor and basement.

Architectural students from the University of Minnesota who travelled and studied in Europe last spring, will have an exhibition in the School of Architecture court January 23 through February 22. An opening of the exhibition will be on Monday evening, January 23. □

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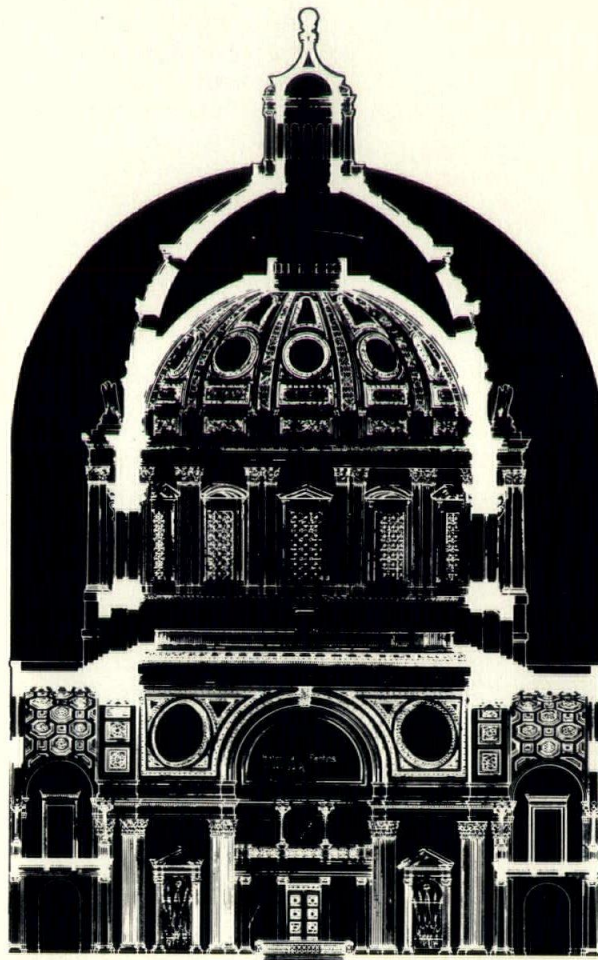
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The Architect as Statesman

Victor Koshkin-Youritzin



Jacob Burckhardt began his monumental **Civilization of the Renaissance in Italy** with a chapter titled "The State As A Work Of Art," wherein he offers the stimulating idea that the state is an artistic conception because it is the "fruit of calculation and reflection" based on objectivity and a relation between internal and external policies. More recently, in **A World Restored**, Henry Kissinger has written: "... the test of a statesman ... is his ability to recognize the real relationship of forces and to make this knowledge serve his ends Anonymously, obliquely, indirectly, he demonstrates that policy may be based on knowledge, but that its conduct is an art." While sound statesmanship is sometimes considered an art, it may be interesting to remember that successful design in

at least one major area of the arts—architecture—can simultaneously often be treated as a rigorous exercise in statesmanship. Indeed, were more architects (and/or their clients) to adopt this perspective, perhaps higher and more humanly-oriented levels of architectural design might be achieved. In this day of cross-disciplinary studies, numerous parallels are drawn between the creative processes in various fields, extending from art to science; nevertheless, the parallel between architecture and statesmanship is a particularly deep, wide-ranging, and potentially productive one. It is a parallel that treats not only creative process, but also method and intent.

Starting with aesthetic/philosophic considerations, it is clear that with both

architecture and statesmanship the problem is very much one of presentation. And in either case, presentation involves two publics: one inside, the other outside, the constructed state. While, *per se*, aesthetics and political reality require that a structure be in tune with itself, they concomitantly demand that it strike dominant, yet sympathetic chords with its environment. It is, therefore, clearly seen that questions of extreme delicacy confront the architect or statesman. For example, what is the **ideal** relationship between a structure and its environment? On the other hand, what is the **practical** relationship? How much of the supporting system should be revealed? How extensively and how forthrightly should the exterior express the interior workings? Rephrased: what kind of, if any, discrepancy should advantageously exist between image and reality? And then, just what should those who are inside be allowed to see of those who remain outside, and from what angle? Where, in trade terms, the glass, and where the iron curtain? Finally, what, if any, good philosophical principle determines the desired relationship between domestic and foreign posture?

Regardless of any inherent merits, philosophical premises ultimately must be implemented. Again the ways of the architect and statesman are similar. Abstractly, the beauty, power, and intricacy of the architect's creation rest on his genius for spatial manipulation of masses, rhythms, textures, colors, light, and scale. All these elements, and more, artfully and artistically employed, allow the architect to achieve almost any aesthetic/psychological effect desired. But projecting ourselves now to the architecture of international politics, envision how the true statesman, like the architect, molds, coaxes, integrates masses, here the often inert masses of industry, commerce, high-to-low society; how he feels and works with the textures of prevailing thought and tradition, at home and abroad; how he nicely puts his nation before the world's impressionable eye on a canvas convincingly colored fresh from propaganda's palette. Appreciate how he responds to the rhythm of world forces with a dominating rhythm all his own, with timing and tact, with changes of pace that set the pace. See, too, where he lets light fall, and where shadows linger. The statesman, then, negotiates with the very essence of the architect's

material and means; if he is skilled, success and the State are his. But the final test is "scale"—the relationship man holds to the structure designed for him.

A building, and indeed a state, is an incredibly intricate, multi-dimensional construct, acting through time and space, of forces meeting from all angles of conflict. On the specific matter of structure, it would seem that a sturdy edifice, built to last, represents a total resolution of physical forces. The "architect" must perceive the nature of all usual and unusual pressures, both internal and external; he must know well the "strategy of conflict" and strategically place his supports, or supporters, knowing how they should behave, but always allowing for error. While the soundness of his architectural or political state requires a concerted effort by all supporting members, between the members themselves the "architect" must effect a subtle system of hierarchies, of checks and balances, to insure internal order. At any particular instant in time, the system must be statically equilibrated; but as time changes and conditions follow suit, a stable structure must be alert and able to adapt. Wherever feasible, the master builder will choose "elastic" materials; likewise, the true statesman will shape his policies so that Strength has as his vice-consul Flexibility.

Both statesman and architect operate through their respective disciplines ultimately to serve the needs of man. And no matter how abstractly beautiful or ordered their political or aesthetic structure may seem, it is meaningless unless it is in harmony with those who are within. Here the most profound aspect of architect as statesman is encountered. Well before the design process even begins, both architect and statesman must measure man. On the initial accuracy of their measurements, the ultimate relevance, strength, and beauty of their design will itself be measured. Be it a state or a statehouse, the inhabitant is Man, be he one or many; and in both cases, the problems are much the same, for in just one man can be embodied the numerous social, economic, psychological, and philosophical forces—and conflicts—that characterize a national or even international community. □

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Campus Planning : The Process is the Product

Clinton N. Hewitt
Kenneth R. Stebbins
D. Eric Wheeler

If Marshall McLuhan is to be believed when he tells us that in the area of communications, the medium is the message, then when it comes to campus planning, the process is the product. Stated another way, it is far more important to establish a planning process than it is to define a specific plan (product) which will almost surely be obsolete before the ink on it is dry. The process is dynamic while the product is static. The process invites participation while the product limits participation.

Many campus plans are product-oriented and only serve to fill a spot on the shelves of college administrators. These plans are highly static and therefore, do not provide the flexibility to deal with changing needs and an unpredictable future. During the early 1960's the product-oriented plan was a very popular instrument which has now proven to be inadequate. Today, many colleges and universities are struggling to change direction because of the inability to such plans to accommodate to new circumstances. To an alarming degree they have missed the opportunity to develop the type of physical environment that promotes the educational experience.

In the early 1970's, the University of Minnesota recognized that the projected growth of the institution required some type of coordinated planning effort. The firm of John Andrews Architects was given a contract. Its initial charge was to review the planning process so that order could be given to the unparalleled growth that was expected. As part of the review of existing policies and procedures, the consultants came to the realization that the University had no administrative structure for monitoring or managing the plan when completed. As a result, they went beyond their initial charge of developing the Plan itself and proposed a planning office structure which could oversee the management of the Plan over time. David Scott, a management consultant, was hired to develop this management structure which is

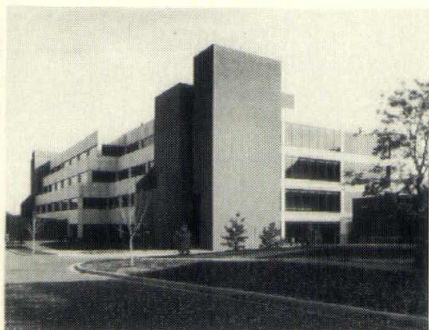
essentially what exists today at the University.

There are no pat answers or standard formulae that will guarantee a successful planning effort. The planning process for any organization or institution is comprised of a unique set of circumstances that demands continuous careful assessment. The results of such an assessment should allow an organization to assemble the appropriate combination of methods to carry out the planning process. There are, however, certain basic guidelines or steps that will ensure that the planning process is responsive to inevitable changes and that it will accommodate continuous re-evaluation and refinement. This approach requires the initiation and establishment of procedures and strategies to achieve goals and objectives.

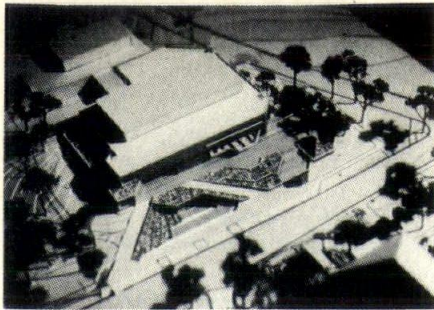
The Andrews/Scott team expanded their efforts to include the establishment of a planning process for the Saint Paul Campus as a component of a system-wide approach and the identification of methods, tools and information needed to maintain the continuing process. In developing the process, three basic assumptions were made: the future of University programs would be sufficiently predictable or coordinated well enough to make the planning effort profitable; the University had the ability to implement overall institutional planning in order to provide a contest for physical planning; and the University would employ a staff capable of implementing the physical planning process.

The Tactical Report is the first step in initiating a comprehensive long range development plan as part of the planning process. It serves as a general outline for the planning process, detailing the work tasks and identifying general issues and decisions that must be resolved early in the planning sequence. In simplest terms, the Tactical Report describes the overall work program.

A unique aspect of the "process" oriented plan is its promotion of participation by the user. Therefore, a key element of the Tactical Report is the identification and resolution of issues that are generated by concerned



Animal Sciences-Veterinary Medicine Building, Ellerbe Associates, Inc., Bloomington, Minnesota, Architects



Saint Paul Campus Student Center Expansion, Myers & Bennett, Architectural Studio/BRW, Minneapolis, Architects

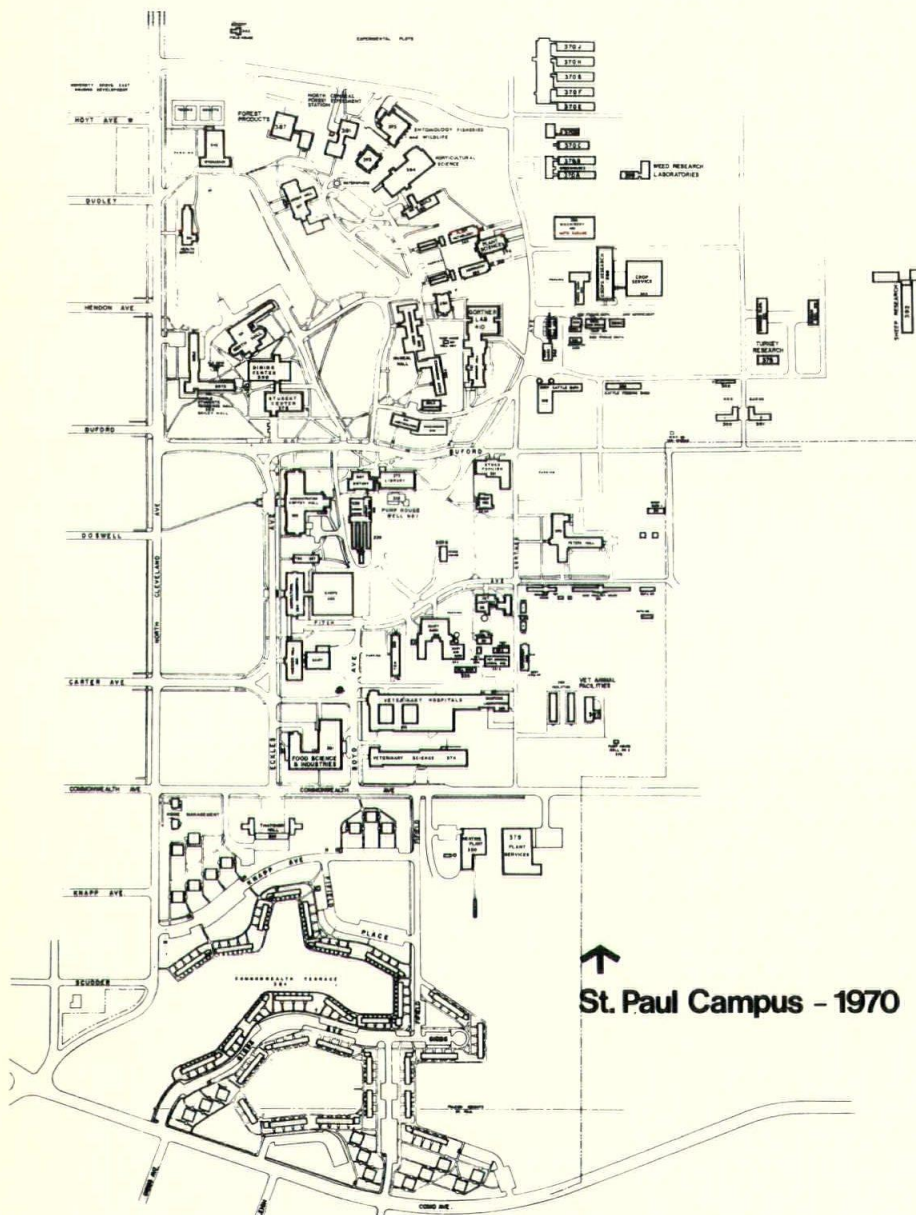
groups and individuals both inside and outside the University. The accompanying task/sequence diagram graphically puts the planning process into the context of its participants and their various responsibilities.

The planning base inventory is the second step in the planning process. It documents current conditions and provides the basic data for the future phases of the process. It includes data on building systems, landscape and natural systems, transportation, services and utilities, housing, social recreation and commercial facilities, population and space predictions and program relationships.

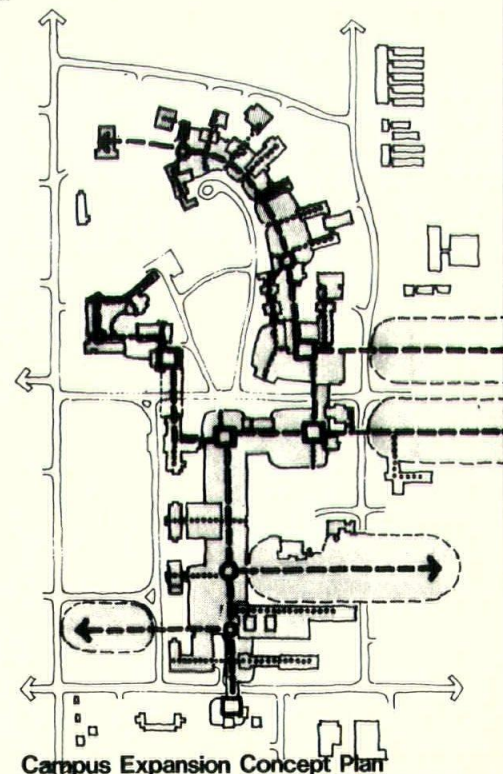
The third step in the process—analysis and planning recommendations—represents the focal point of the planning process. It involves the analysis and evaluation of the information

that has been assembled and the development of planning goals and objectives. It requires the development of planning criteria and strategies that will shape the physical content and organization of the campus. The refinement of the planning policies and directives and the development of the framework plan is the next step in the planning process.

The term "framework" is used to identify that part of the plan which will primarily function as the general guideline mechanism for the future development of the campus. It includes the strategies, design criteria and development options for physical planning. The strategies, criteria and options are related to a set of planning horizons and a broadly based system of user participation. An important aspect of the framework plan is that the actual physical forms should not



St. Paul Campus - 1970



Campus Expansion Concept Plan



Renovation and Addition to McNael Hall, Home Economics Department, The Hodne/Stageberg Partners, Minneapolis, Architects

be given detailed consideration until the time of implementation. This will keep the plan and its options open within the context and restraints of current conditions and allow for maximum adaptation to unforeseen conditions or changes.

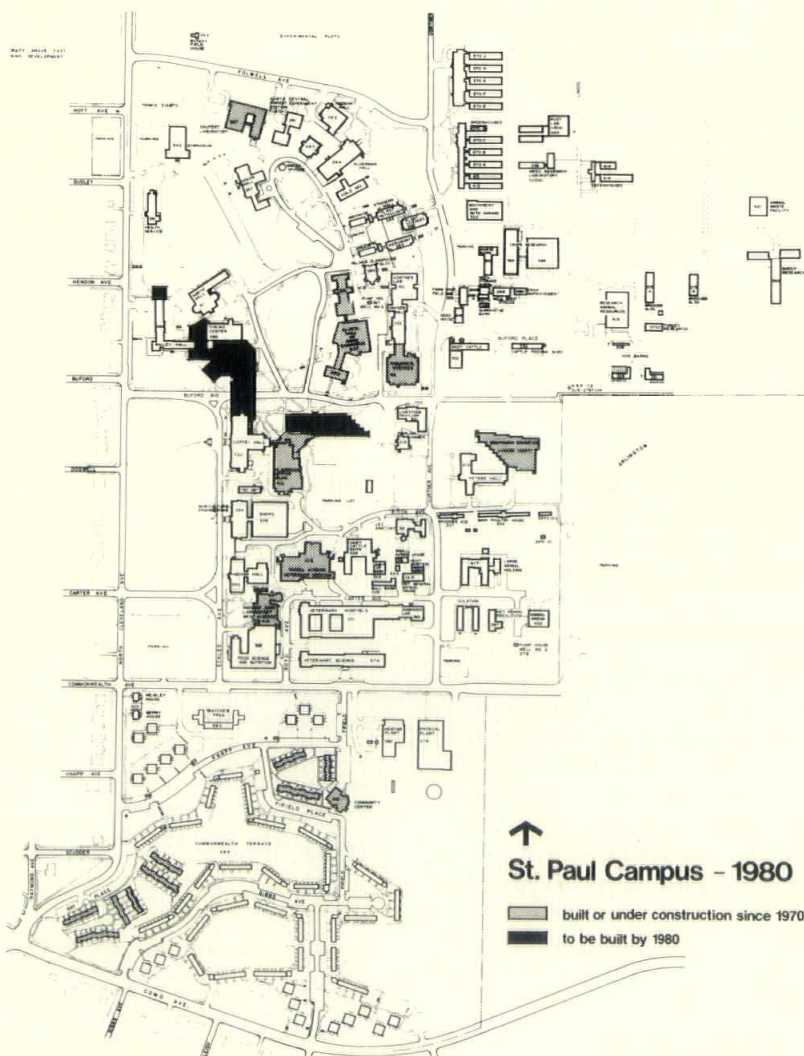
The final step in the planning process is the monitoring and implementation of the plan. This is an internal, self-evaluating planning mechanism that integrates the function of the various offices that are to be involved during the implementation stage. It includes the evaluation of the physical implications of academic and administrative decisions, the means of integrating the design of specific project solutions within the context of the overall planning goals and objectives, and a structure for continuously updating the framework plan based upon feedback and new information. The management of the planning process is very critical to achieving solutions that are consistent with the mission of the University. This requires the establishment of a series of levels of

controls, the first being periodic major presentations to the central University administration. The second level involves regular review of projects by the Office of Physical Planning. The third level of control takes place through a periodic self-review at the University departmental level. An appropriate network of communication between these three levels of control is important to keep the planning process organic and alive and to prevent a transition to a static plan.

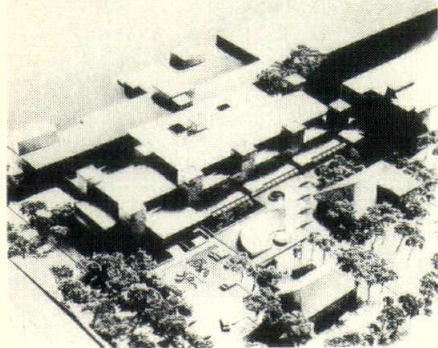
When the Saint Paul Campus Long Range Development Plan (L.R.D.P.) was being formulated, the campus was expected to experience significant growth in both enrollment and physical facilities due primarily to changes in existing programs and a shift of programs from the Minneapolis Campus. Therefore the development of the L.R.D.P. took on added significance in that it would establish how and where growth was to take place in order to provide the most effective campus environment. The accompanying three maps illustrate: (1) how the Saint Paul Campus looked in 1970 when the plan was being developed; (2) the concept plan for campus growth; and (3) the campus as it will look in 1980. Although much still needs to be accomplished to fully realize all that was recommended in the Plan, significant strides have been made to that end, graphically demonstrating that the planning process can work and that a quality environment can result.

The plan directed itself to a number of issues which, within the past few years, have begun to pull the Saint Paul Campus together into a cohesive whole. Land use and transportation form the basic "framework" for Campus development. The plan not only establishes what uses are to occur where, but also indicates densities of development and alternative locations for various land uses. An important and unique aspect of the plan is the development of a "Don't Build" plan which very explicitly identifies those areas of the campus that have high intrinsic value that are otherwise unsuitable to build on. The preservation of the "mall" and plotlands led to their designation as "don't build" areas.

The transportation element of the plan calls for the re-orientation of the campus from the west side (which conflicts with adjacent residential uses) to the east, where access can be accommodated efficiently and related more appropriately to major parking



vet med phase 2



Veterinary Medicine II, Freerks Sperl Flynn, Inc., Saint Paul, Architects

facilities. Progress is slowly being made to this end and additional planning is being conducted to develop this concept and bring it into being.

The plan recognized that the Saint Paul campus possesses a unique architectural scale and quality. As a result, recommendations are identified which establish restrictions on building heights (new buildings are to be no higher than the height of the existing mature tree canopy), building materials (new construction should relate to existing materials, basically brick and campus character (the basic pedestrian scale of buildings should be continued). Recent examples demonstrating these recommendations can be found in the Classroom Office Building, Meats Sciences Building, and Animal Sciences/Veterinary Medicine, Phase I.

Expanding on the pedestrian orientation concept further, the plan recognizes the fact that the weather is inclement for a significant portion of the academic year. Therefore, the plan recommends a framework of pedestrian streets which serve to interconnect existing buildings and new construction with climate protected linkages. Recently completed buildings such as the McNeal Hall complex (Home Economics), the Classroom Office Building and Animal Sciences/Veterinary Medicine, Phase I, are good examples of the use of these streets. Future buildings such as the Student Center/Bookstore expansion, the Learning Resources Center expansion, and the Continuing Education Building will further build on this framework.

Since institutions continuously face the problem of growth and change, how to best meet these changing needs is a critical issue. To address this problem, the plan suggests a series of alternatives which must be considered when investigating how to provide new facilities. The plan clearly states that as a first approach, higher utilization of existing space must be considered. Recently, an additional alternative has been included which involves the leasing of space, temporarily, in areas adjacent to the campus. If this is inadequate, then remodeling of existing facilities should be investigated. If new construction is necessary, then infill construction between and adjacent to existing space should be evaluated, and only as a last resort should totally new facilities be considered. Examples of each of the above alter-

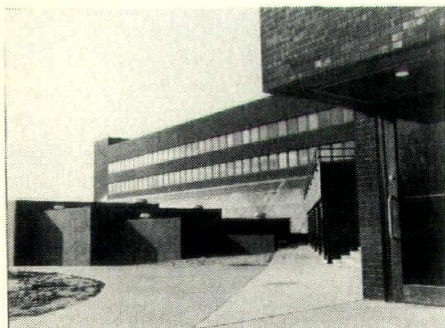
natives can be found on the Saint Paul Campus.

With a perspective gained through experience and the passage of years, several things concerning the plan have become clear. First, perhaps the best example of the fact that the "process is the product," is that the process originated by the John Andrews firm Scott team for the Saint Paul Campus Plan has served to guide the development of the Plans for the Minneapolis Campus and the Duluth Campus. The data base has obviously been totally different in each case, but the process has been used in each instance with little or no modification. Thus the original plan (process) has truly proven to be prototypical.

Second, it must be mentioned that the beneficial changes in the physical environment envisioned in the plan have not, and will not, happen by accident. While it must be regarded as a strength rather than a weakness, it is none the less true that it is not the nature of the plan to include specific solutions to environmental problems; the plan does not so much solve design problems as it establishes parameters which must be met in the solutions to those problems. Just how those parameters are met, however, can spell the difference between economy and waste, variety and monotony, delight and disappointment. With so much at stake, design quality can not be left to chance. Creative, and conscientious designers (architects, landscape architects, engineers, etc.) are essential to the realization of the plan.

Third, an assumption underlying the development of the plan was that the process could be rational. As obvious as that might sound, it is not true with all plans. As a corollary, it must be assumed, or at least hoped, that the implementation of the plan will also be rational. This is dependent upon several factors, not the least of which is that those in a position to support the various constituent parts of the plan must do so with at least some understanding of the long range objectives of the plan, a commitment to see it through, and a willingness to set expediency aside in making the decisions which lie ahead. □

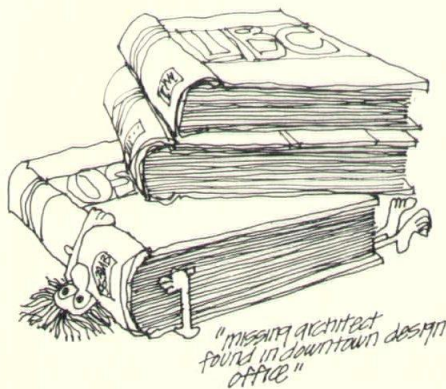
Clinton Hewitt is Assistant Vice President for Physical Planning at the University of Minnesota. Kenneth Stebbins is Planning Coordinator and Eric Wheeler is an Assistant Director in the Office of Physical Planning at the University of Minnesota.



Classroom-Office Building, Griswold and Rauma, Minneapolis, Architects

Building Codes: Blessing or Curse

James I. Lammers



The proliferation of building codes and regulations has had perhaps a more profound effect on architecture within the past dozen years than any other single factor. A building today must be designed to meet the criteria of numerous agencies, regulatory bodies, and code officials. The impact of these regulations very severely affects what the architect can and cannot do in terms of the design of buildings and building components. Construction cost ramifications are enormous and the burden placed on the architect effectively reduces the time available for design.

One classic example of the impact of codes on building design is the "Wedding Cake" office building in New York City which steps back away from the street as the building increases in height. This results from a requirement in the zoning code designed to permit light to penetrate the deep canyons created by the skyscrapers. Tradition has it that one architectural firm became expert in defining the maximum building area which would fit within the prescribed zoning code envelope. This firm was the office building specialist in New York City for decades.

Another example of code impact on design is the disappearance of the "split entry" building and/or the appearance of ramps for the handicapped. Codes insuring accessibility for handicapped persons require the main level to be on grade or accessible by a ramp sloping no steeper than 1 foot vertically for every 12 feet in length (a 48 foot long ramp is required for a main floor 4 feet above grade). Numerous other examples exist since

various codes govern everything from the size and shape of windows to the location and number of stairways.

The impact of code requirements on construction cost is difficult to measure. The figure most often heard in the industry is 10% added to the base cost by strict adherence to building code provisions. This estimate is probably conservative.

Seemingly, the abundance of building codes and guidelines would make the architect's job more simple: he need merely conform to all codes and his building cannot help but be safe and functional. However, this is far from the case. Building codes are not static; they change on a regular basis as new editions are published. Oftentimes the code will reverse itself and declare something legal which previously was illegal. Requirements of one code may be in conflict with or more stringent than another. Not only must the architect determine which agency enforces which code with respect to the project at hand, he must also work with various code officials to interpret sections of the code which may be ambiguous or not directly applicable to a particular design. The architect must ask the enforcing agency to be reasonable since it is quite probable that if all pertinent codes were enforced literally, it would be impossible or too costly to erect the building.

Why do we have building codes and regulations? These laws find their basis in the responsibility of government units to provide for the health, safety and welfare of the general public. Codes such as those written by the National Fire Protection Association (NFPA) focuses on life safety and fire prevention in buildings. Other requirements,

COMPOSITION OF THE MINNESOTA STATE BUILDING CODE

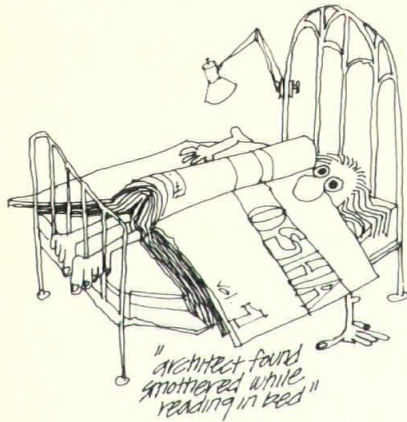
The State Building Code adopts by reference or includes the following codes:

- (a) 1973 Edition of the Uniform Building Codes. (ICBO).
- (b) 1975 National Electrical Code. (NFPA 70).
- (c) 1971 American National Standard Safety Code for Elevators, Dumbwaiters, Escalators and Moving Walks. (ANSI A17.1).
- (d) 1973 Minnesota Plumbing Code. (MHD 120).
- (e) "Flood Proofing Regulations," Office of the Chief Engineers, U.S. Army.
- (f) Minnesota Heating, Ventilating, Air Conditioning and Refrigeration Code.
- (g) "Design and Evaluation Criteria for Energy Conservation in New Buildings, Additions and Remodeled Elements of Buildings."
- (h) Certain appendices which contain the listing of various National Standards referred to in the body of the Code; technical requirements for fallout shelters; and various chapters of those codes adopted by reference.

such as the HUD guidelines for design of single family and multi-family structures, prescribe the size and layout of living spaces and control design items ranging from the area of window in a living room to the amount of counter-top space and arrangement of cup-

boards in a kitchen.

Energy codes are concerned with reducing energy consumption in buildings and handicapped accessibility codes aim to make buildings workable for handicapped occupants. All codes reach for the laudatory goal of pro-



CODE	ENFORCING AGENCY
HUD4900.1 Minimum Property Standards One & Two Family Dwellings	Minneapolis/Saint Paul Area Office, U.S. Department of Housing & Urban Develop- ment
HUD4910.1 Minimum Property Standards Multifamily Housing	and Minnesota State Housing Finance Agency
HUD4930.1 Manual of Acceptance Practices	
OSHA/Construction Safety & Health Regulations Department of Labor Occupational Safety & Health Adminis- tration	State of Minnesota Department of Labor & Industry
Uniform Fire Code International Conference of Building Officials	Minnesota State Fire Marshall's Office
National Fire Codes (16 Volumes) National Fire Protection Agency	Various portions enforced under Minnesota State Building Code & by Minnesota State Health Department, Joint Commission on Accreditation of Hospitals, Minnesota State Fire Marshall's Office, U.S. Department of Health, Education & Welfare.
Codes & Standards American National Standard Institute Inc.	Various portions enforced under Minnesota State Building Code & by US Department of Health, Education & Welfare.
Uniform Building Code International Conference of Building Officials	Enforced with amendments under Min- nesota State Building Code.
State Safety Glazing Law (HF 874 ch 74)	Enforced as State Law, violation is a misdemeanor.
CPSC Safety Standard for Architectural Glazing Materials	Federal Consumer Products Safety Com- mission
ASHRAE Standards American Society of Heating, Refrigeration, Air Conditioning Engineers	Various standards enforced under the Energy Code Section of the State Building Code.
Minnesota Reg. MHD 151 Rules & Regulations of the Minnesota State Board of Health Lodging Establishments & Food & Beverage Establishments	Minnesota State Health Department
Minnesota Reg. MHD 44 Rules & Regulations of the Minnesota State Board of Health Construction, Equipment, Maintenance, Operation & Licensing of Nursing Homes & Boarding Care Homes	
Minnesota Reg. MHD 391 Rules & Regulations of the Minnesota State Board of Health Construction, Equipment, Maintenance, Operation & Licensing of Supervised Living Facilities	
Minnesota Reg. MHD 76 Rules & Regulations of the Minnesota State Board of Health Construction, Equipment, Maintenance & Licensing of Hospitals	
Minnesota Reg. MHD 411 Rules & Regulations of the Minnesota State Board of Health Freestanding Outpatient Surgical Center Rules	
Minnesota Reg. MHD 120 Rules & Regulations of the Minnesota State Minnesota Plumbing Code	Minnesota State Health Department & en- forced under Minnesota State Building Code
Hospital Accreditation Manual Joint Commission on Accreditation of Hospitals	Joint Commission on Accreditation of Hospitals
Minimum Requirements of Construction & Equipment for Hospitals & Medical Facilities U.S. Department of Health, Education & Welfare	U.S. Department of Health, Education & Welfare

moting a safer, higher quality environment.

Who enforces codes? Generally "model" national codes, written by NFPA or the International Conference of Building Officials, etc., are adopted and enforced by various local governmental agencies, although these agencies sometimes write their own codes (See Box). Local zoning codes and ordinances, which govern land use, are written and enforced by municipalities, townships or sometimes counties.

The Minnesota State Building Code adopts, by reference, several national codes such as the Uniform Building Code (See Box). A specific edition of a national code is adopted after going through a public hearing process and amended if necessary to suit local conditions. Don Pates, an architect, presently heads the Building Code Division of the State Department of Administration. The Minnesota State Code is somewhat unique in that it applies to all areas of the state but is enforced by local building officials. Previously each municipality, county or township enforced a wide variety of codes or in many cases had no code at all.

The federal government has gotten into the act through OSHA (the Occupational Safety and Health Act of 1970) as well as HUD and HEW requirements which require compliance with HUD regulations or life safety codes as a stipulation for obtaining federal mortgage funds or to be eligible for reimbursement through Medicare and Medicaid.

The preponderance of codes has or will lead to additional specialization within the architectural community. New York, for instance, which has a city code the size of the Manhattan telephone directory, has had for a number of years architects who specialize in interpreting the code and gaining code approval from various city agencies.

The retroactive enforcement of building codes has created a new market for architectural services. For instance, the Joint Commission on Hospital Accreditation, which surveys member hospitals for code conformance, makes compliance a necessary condition for accreditation. This means that a facility must be brought up-to-date and oftentimes this results in hiring an architect to survey the facility and develop a plan of action to correct the deficiencies. The Minnesota Health

Department also mandates retroactive compliance with various state and national codes prior to licensing and certification of health care facilities—including nursing homes as well as hospitals.

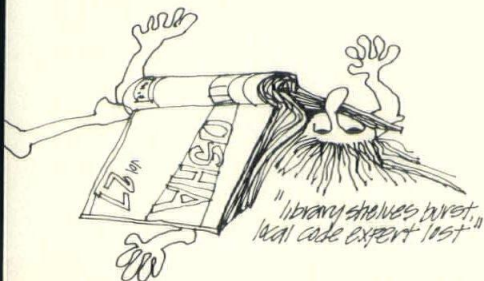
Codes have tended to develop a bandwagon effect in that proponents of various causes have independently tried to legislate their own concerns into law. These concerns range from providing sprinkler fire protection in buildings to requiring automatic smoke detection devices. In the past, national code-making bodies have often been dominated by representatives of the electrical supply and sprinkler industries and their motivations have been questioned by building owners and managers.

Code compliance usually involves researching code requirements and meeting with various agencies enforcing different codes. The process is extremely time consuming and the time the architect spends in code related work has the effect of reducing the time available for the design of the project.

No one will argue that codes are not required. However, a strong case could be made for a simplification to reduce the number of codes and/or enforcing bodies. The State Plumbing Code, for example, is enforced by the Minnesota State Health Department and also by local building officials under the State Building Code. Municipal Health Departments often have additional requirements. Such overlapping is costly not only to the building owner who pays for the architect's time, but to the tax payer as well.

As the architect designs buildings to conform to the various codes, he must walk a narrow line: on the one hand he is vitally concerned with the ultimate safety and well-being of the occupants of the building, on the other hand he is concerned with the total cost of the project. He must search for an optimum design much as a structural engineer designs a beam which will adequately support the load, but will not be over-designed to the point of being wasteful. The architect must satisfy the many code provisions without adding unnecessary cost to the project. □

James Lammers AIA is a principal in the firm of Centrum Architects Inc., Minneapolis, which specializes in design for existing medical facilities. Mr. Lammers is also a member of the National Fire Protection Association.



A \$10 billion umbrella.

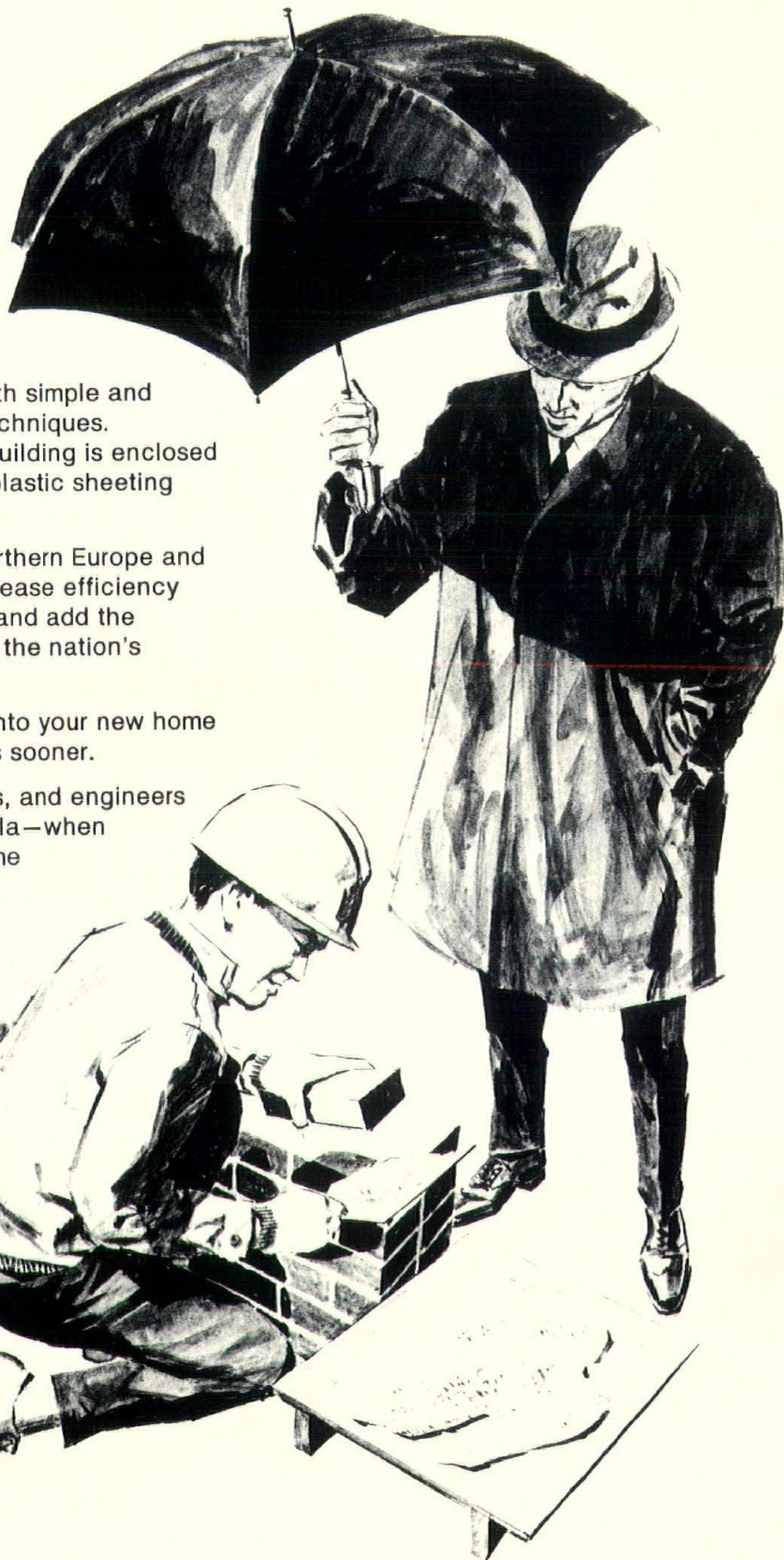
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Old and New Architecture— Design Relationship, Or: The Good and the Bad News From Washington

Joanna Baymiller

For the architect confronting the controversial and increasingly visible problem of the relationship between old and new architecture in historic settings, a recent conference in Washington D.C. offered some much needed encouragement. Jointly sponsored by the National Trust for Historic Preservation, the Washington metropolitan chapter of the AIA, and the Society of Architectural Historians in Washington, the well-organized and tightly packed program was attended by an audience drawn from all levels of the profession and all parts of the country.

Two days of mild weather enabled participants to explore, on bus and on foot, a city that would seem to offer more examples, outside of New York, of both the profound and the profane in architecture. The overwhelming impression remaining is one of redundancy.

The two-day forum focused on the range of problems involved in designing compatible new architecture in old areas, adjacent to significant period buildings, or in the context of an existing strong architectural fabric. The discussions focused on historical or current theoretical design approaches; major problems and advantages of design ordinances; and successful and unsuccessful designs representing a variety of methodologies. Conference speakers included many noted professionals with a wide range of experience and an equally wide range of opinions.

To many, it must have seemed as if the conference was plagued by a Cassandra who had little more to tell the profession than to warn it to watch out, the design review commissions are coming—and those mundane-minded plebians are armed with nothing but red pencils for your blueprints!

Indeed, as Salem, Massachusetts attorney and city solicitor William Tinti pointed out: "We have observed in the last few years only the warning

light of design review." Guidelines, design standards, and historic review boards are clearly an increasingly important part of the picture, particularly in historic districts. Where court decisions in the recent past have been handed down, they suggest strongly that the balance is shifting from private to public rights. Thus, where commissions do exist and have been empowered to enforce standards for design, the law will probably support them.

Given that, the question then becomes to what degree architects and architectural organizations will step to the front of the line and help not only to develop standards, but to facilitate citizen and community understanding of the design process. It means, to some degree, a different role for the architect—that of participant and collaborator in design, rather than bringer of the stone (or glass) tablets. It means not making a statement in cases where one is not called for.

If this seems discouraging, the other side of the coin is that a truly wide range of options is still possible. There was evidence of this fact in the number of architectural vocabularies represented by the "case studies" speakers—which ranged from the relatively pragmatic work of Charles Tseckares, of Boston, to the more abstract/historical-classicism of Michael Graves, all the way to the admittedly whimsically theatrical building ensembles of Louis Sauer. All of these solutions, in their contexts, worked. None, interestingly, was imitative.

This is not to say that the range of options did not provoke controversy. Admittedly, there was a great deal. There probably always will be. This became very clear during an evening of "good and bad examples" slides provided by the conference participants and commented on by a panel that included Giorgio Cavaglieri and Jean-Paul Carlhian. Carlhian countered the accusation that architects ignore their surroundings by stating that at times

it is impossible to respect them. Not only did the panelists disagree—but so did the conferees—on what solutions were sympathetic, which were unsuccessful. It became clear, however, that "successful" buildings, both additions to and neighbors of older buildings, worked for reasons other than successfully connecting the dotted lines provided by historic district commissions or following precise guidelines related to building height, mass, color, texture, fenestration, and form. Some of the worst solutions obeyed the rules to the letter. They failed because they didn't breathe any life of their own.

What should be challenging, and encouraging to architects, is that if any rule emerged, it was that there is no single banner to hoist—no one philosophy, or formula that will manufacture the right solution. The rules are simply an outline; guidelines will not prevent bad design; neither, unfortunately, will they assure good architecture. Only the architect will. What is important is the process—one that is meaningful to the architect and translatable to an increasingly more participatory citizenry that not only seeks acceptable solutions, but demands superior ones.

If contemporary architecture in old settings is to evoke meaningful and lasting metaphors of its own, establish continuity, provide utility and prolong life to adjacent structures, it must transcend rules and guidelines. And this is the province of the architects' imagination and sensitivity. At stake is no less than the vitality of our communities. □

Joanna Baymiller is a regular contributor to Architecture Minnesota and other reviews. She concentrates particularly on the urban environment and architecture.

How New Jersey Saved \$12,000,000

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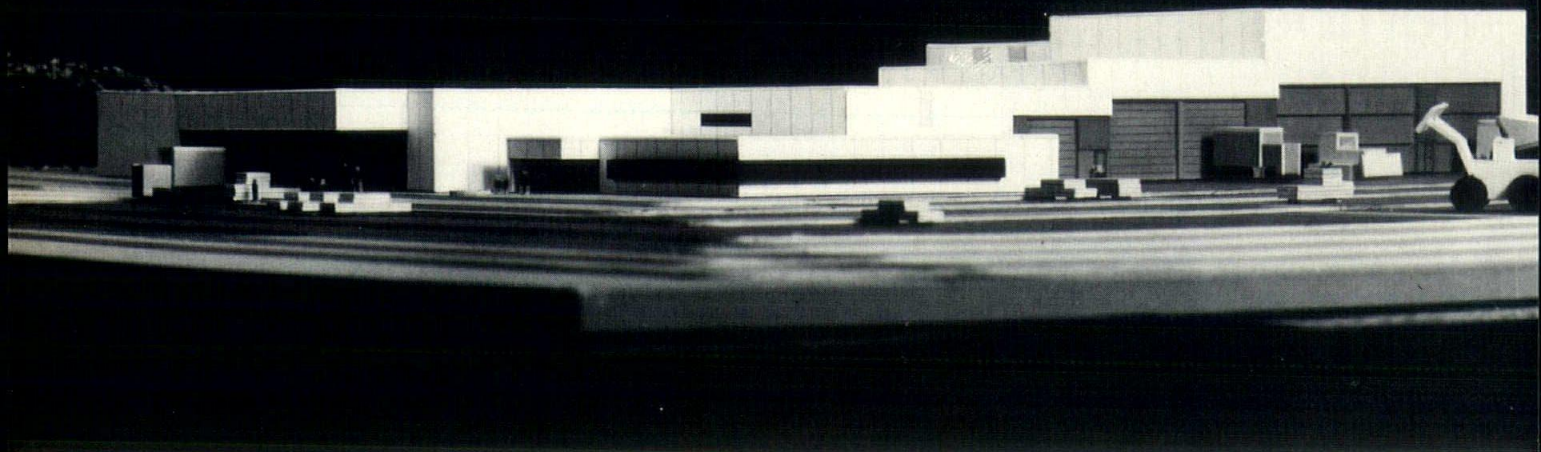
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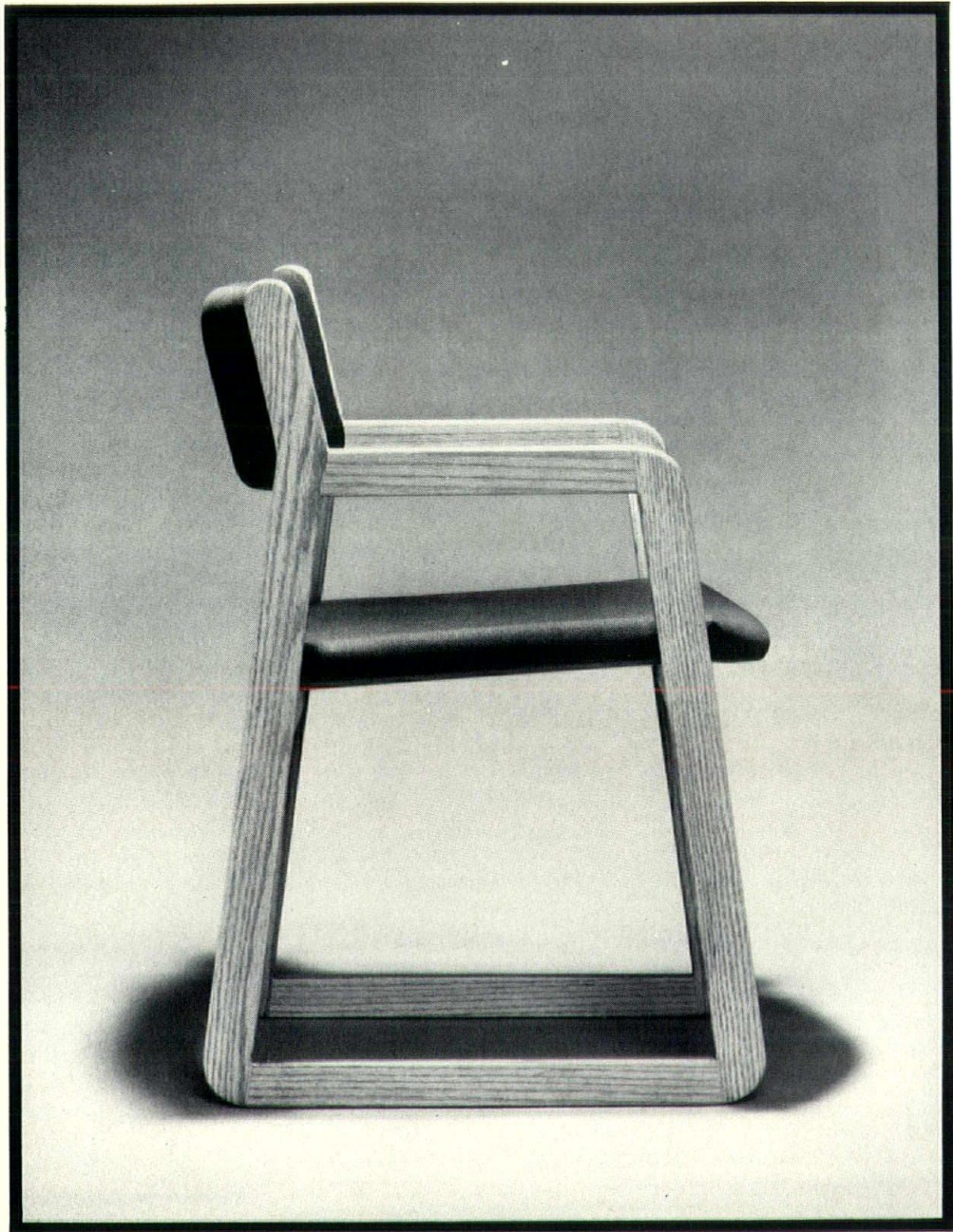
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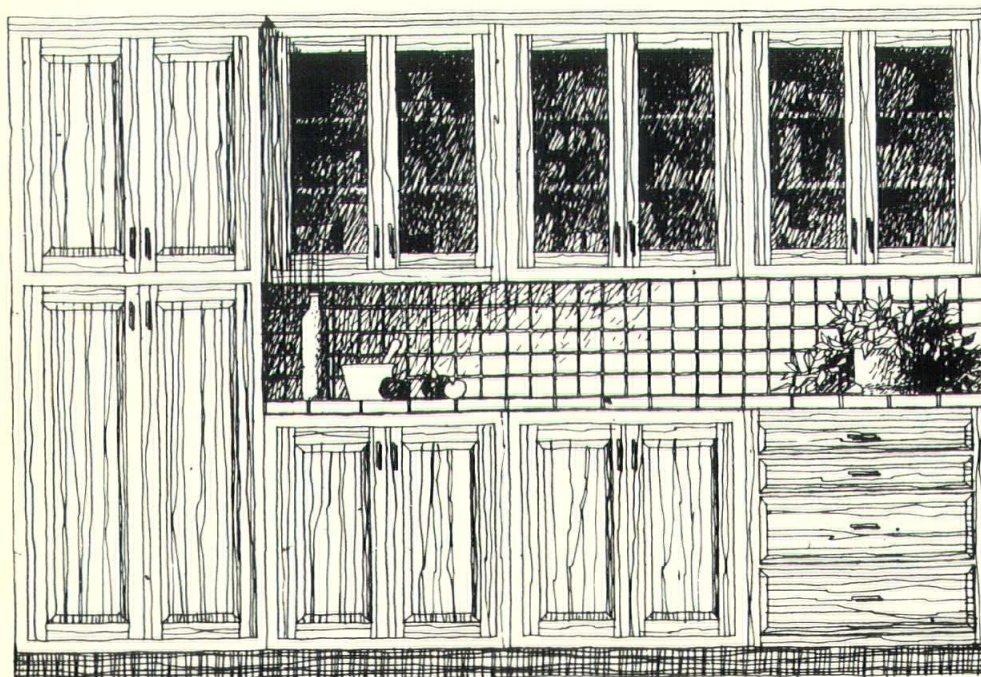
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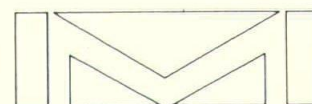
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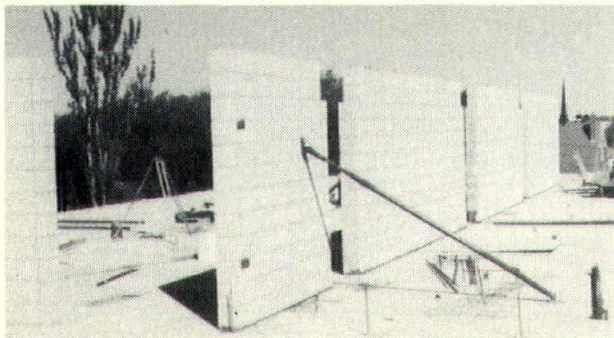
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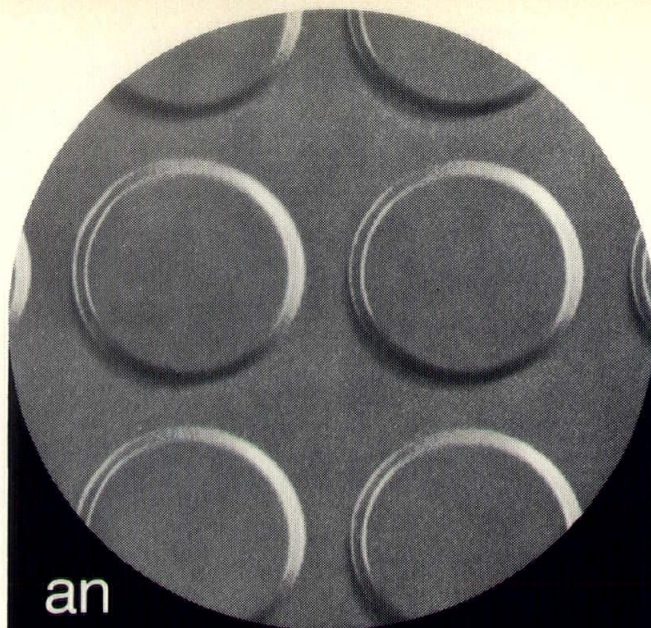
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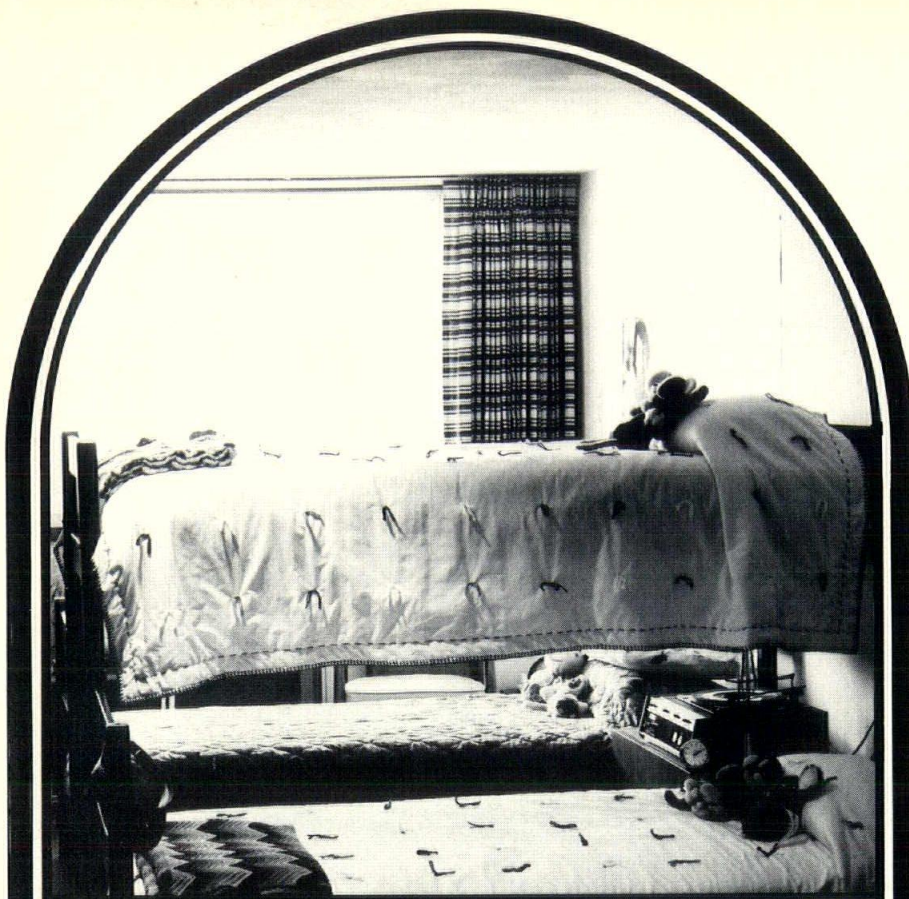
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To Care and to Plan 1978



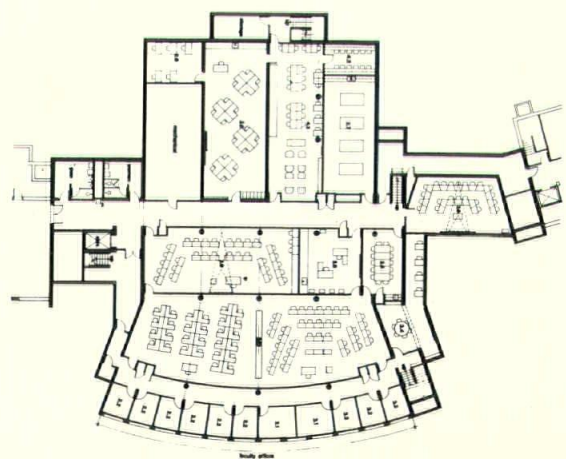
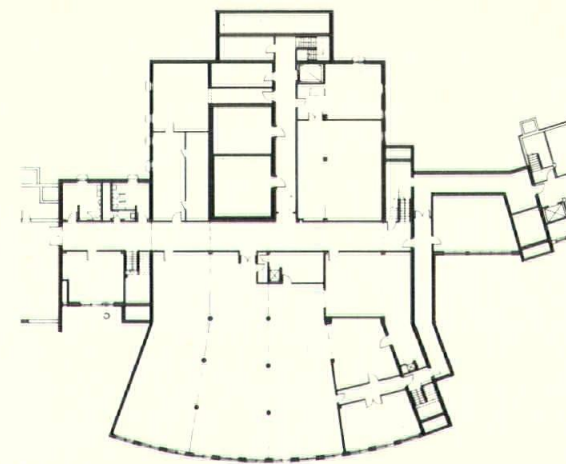
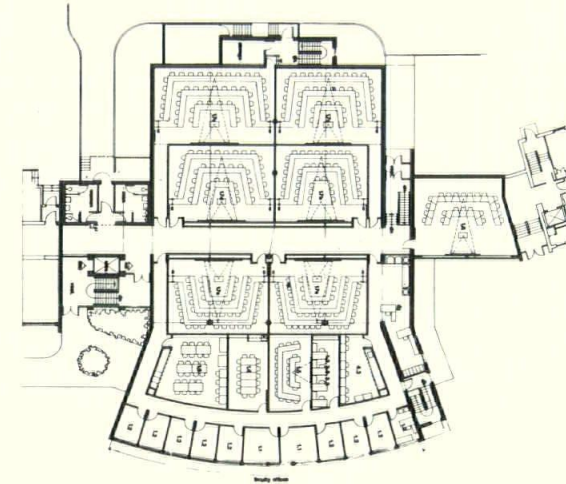
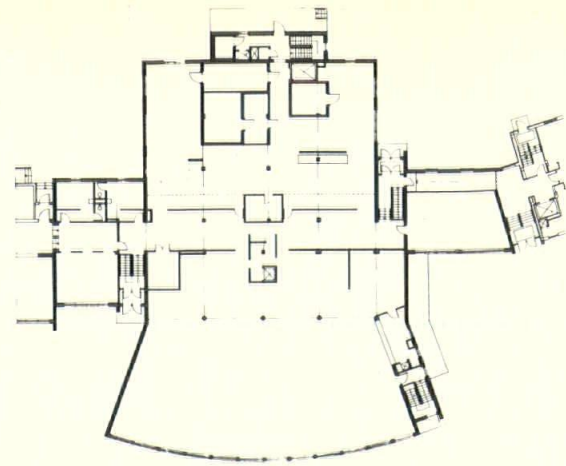
Minnesota Society American Institute of Architects



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Morris Campus-Humanities and Fine Arts Center, Morris, Minnesota, Ralph Rapson & Associates, Minneapolis, Architect

Remodeling of Hickory Hall, Bemidji State University, Griswold and Rauma, Minneapolis, Architect



To the People the Legislators and the Public Officials of Minnesota

The architects of Minnesota and the members of the Minnesota Society American Institute of Architects have concerns and proposals which we wish to place before the people, the Legislators, and the governmental officials of the State of Minnesota.

We are deeply concerned and involved with the conservation of our environment, the need for adequate housing and health facilities, the conservation of energy, and the reuse and rehabilitation of existing buildings. We are also deeply concerned with such professional issues as registration laws, the statutes of limitations and frivolous law suits.

The Minnesota Society American Institute of Architects is committed to assist those persons in Government involved in resolving our immediate problems. We are equally anxious to participate in formulating the long-range plans necessary to meet the physical and social needs of the people of our State.

The Minnesota Society American Institute of Architects represents over 200 architectural firms that employ thousands of individuals who in turn are responsible for the design and construction administration of hundreds of millions of project dollars annually.

We believe that Minnesota's Legislature has been among the most progressive in the country. What we need now is not so much new laws as the refinement of those we already have. We need to deal firmly with such difficult issues as conservation of energy, preservation of our environment, control and design of urban growth and the provision of much needed health and social facilities. We now truly need To Care and To Plan.



Photo by: Denes Saari, Saari and Farrai
Photography, Minnesota State Capitol Dome

The Construction Industry's Foremost Priority a New Statute of Limitations

Simply described, a Statute of Limitations is a concept of law which goes back to English Common Law. It provides that, barring fraud, an individual or organization is legally responsible for an act for a specified number of years, such as six years. It provides that a matter is then laid to rest legally. As an example, an architect, contractor or engineer, under the intent of the Minnesota Statute of Limitations, is legally responsible for the design and construction of a building for a period of ten years. Recently the Minnesota Supreme Court handed down a decision which negated the present Minnesota Statute of Limitations as it applies to architects, engineers and contractors. It ruled initially that there was a language flaw in the law as written and that it applied only to cases involving third parties and not to cases arising between the owner and the architect, contractor, etc. In handing down its most recent decision the Supreme Court declared the statute unconstitutional because the class of persons protected was too narrow and should include Owners as well as the construction industry.

Statutes of limitations now exist in 45 of the 50 states. Thirty-four of those states have a statute of limitations of less than ten years. Our neighboring state of Wisconsin has recently passed a statute of limitations of six years which is the same as we are proposing.

Our Concerns Are:

1. Without a proper statute of limitations, hundreds of architectural, engineering, contracting and subcontracting firms' economic viability will be seriously jeopardized.
2. Industry professional liability insurance protection, which has already risen at a rate equivalent to that of the medical profession, will need to be carried not only by all existing firms but also forever by everyone in the profession who retires.
3. That protection offered people, their families and heirs involved in the construction industry in other states is not now available to Minnesota citizens.
4. Matters are not legally laid to rest, but remain potentially vexing problems for years.

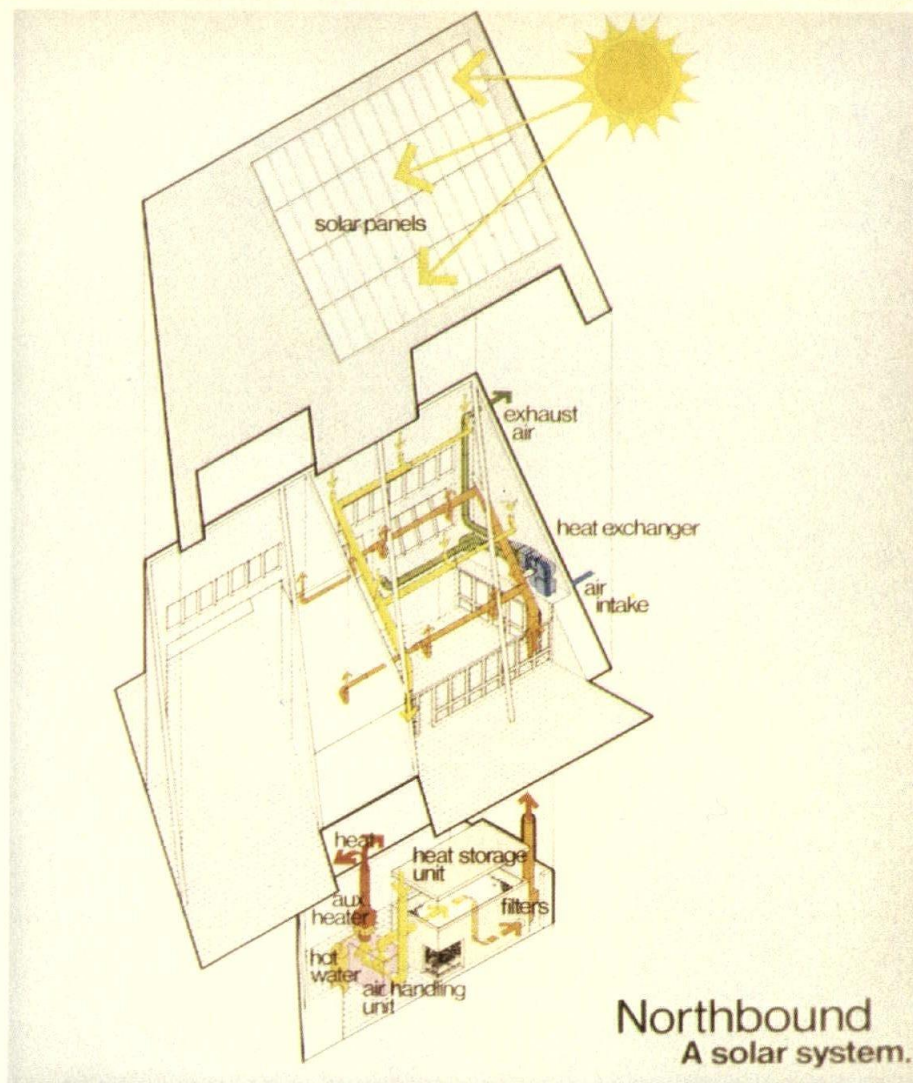
We Propose the Following:

1. That the language flaws in the present statute be corrected to ensure the original intent.
2. That the statute be redrafted to ensure that it is broad in coverage and that, to the degree possible, it meets the constitutionality test.
3. That, we have a six year statute, as in our neighboring state of Wisconsin.

Conclusion:

We believe that a good Statute of Limitations which permits the design professions and the construction industry to practice and work confidently within a reasonable legal liability environment is indeed in the public interest.

Registration of Design Professionals and Public Responsibility



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Our Concerns Are:

1. Each session the Legislature addresses itself to the issue of the public responsibility of professionals.

The Minnesota Registration Law for architects, engineers, land surveyors and landscape architects was developed by the Legislature to assure that the public's health, safety and welfare are protected by allowing only licensed persons to design buildings, structures or works. The Minnesota Society American Institute of Architects is concerned that the exemption clause (326.03 e & f), which allows non-licensed persons to execute design for all work under \$30,000 once again faces threats of arbitrary increases.

The cost of work, related to buildings, structures or engineering systems, is in no way related to the degree of public jeopardy in their use by the public, and it is therefore not in the public interest to continue to expand the scope of work to be done outside the law, at the potential expense of the public, for the convenience of the unqualified.

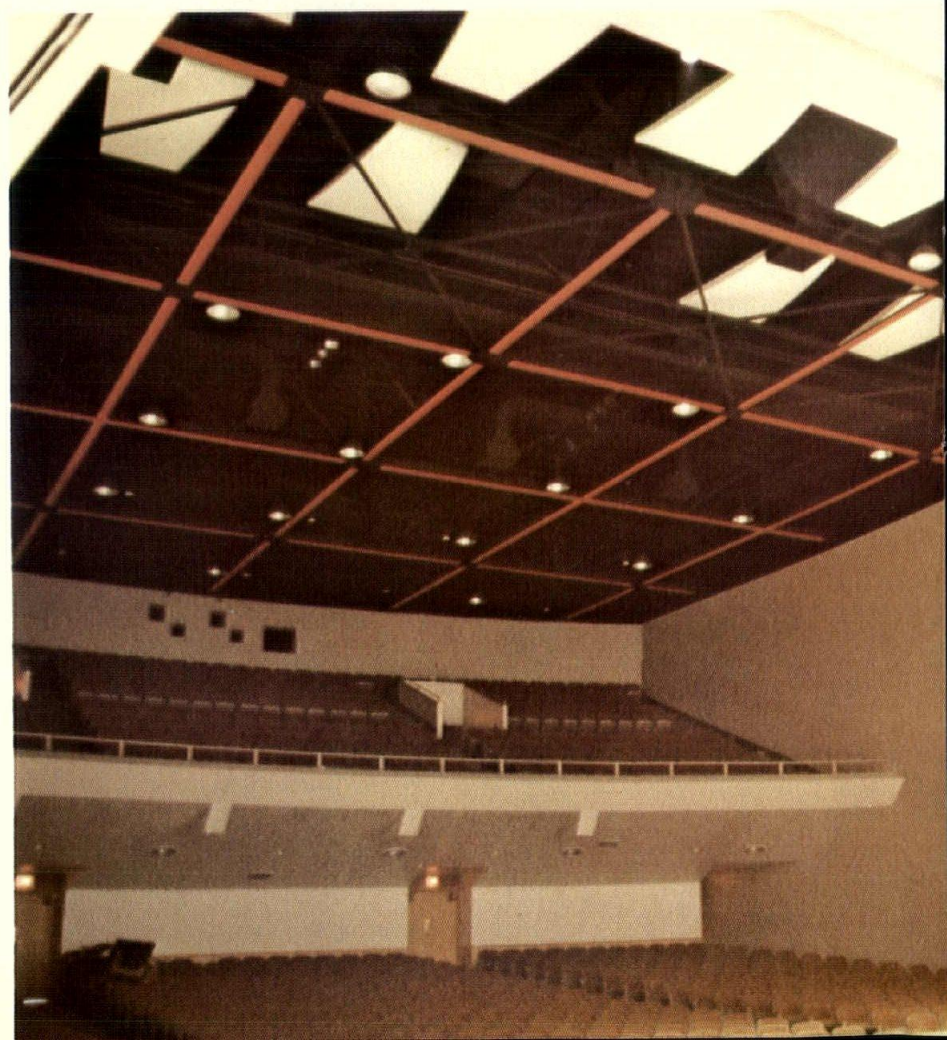
We Propose the Following:

1. That the Legislature approve the proposal being discussed by the State Board of Registration of Architects, Engineers, Land Surveyors and Landscape Architects, which eliminates the exemption for work under \$30,000 and in its place provides for the Board to develop rules which will define those areas which do not require the skills of specially educated, trained and tested design professionals. The existing exemptions for single family residences and farm buildings shall be maintained. The exemption should not be removed until the necessary rules are promulgated.

Straight River Highway Rest Areas, Minnesota Department of Transportation, Interstate 35, Owatonna, Minnesota, Smiley, Glotter Associates Incorporated, Architects, Minneapolis

The concept was to create an energy testing situation with the design of two identical structures, applying solar and heat recovery systems to the Northbound facility and conventional fossil fuel system to the Southbound facility. This comparison would be documented for state records and be displayed for public consumption to generate public participation and interest in alternative energy sources.

Preservation of Historic Resources



Stewart Hall Auditorium Remodeling, Saint
Cloud State University, Saint Cloud, Min-
nesota.

Department of Administration, State of
Minnesota

Val Michelson and Associates, Inc., Saint
Paul, Architect



The quality of life throughout the State is enhanced by the preservation of our built environment. This preservation should include not just the buildings of obvious architectural merit or associated with important persons and events; it should include engineering structures, prehistoric and historic archeological sites, and most importantly, neighborhoods throughout our cities which have developed distinctive qualities worthy of preservation.

Our Concerns Are:

1. Many features of our built environment are being irreversibly and unnecessarily altered or destroyed. In some cases, the destruction is a direct result of unfortunate tax considerations. In other cases, it is because there is little flexibility in meeting code requirements in the course of a rehabilitation project. In most cases, however, it is simply a lack of concern for and recognition of less distinctive buildings and neighborhoods.

We Propose the Following:

1. Revisions to the State revenue codes to encourage preservation of existing buildings and to discourage the demolition of significant structures. These changes could be similar to the preservation provisions of the Federal Tax Reform Act of 1976.

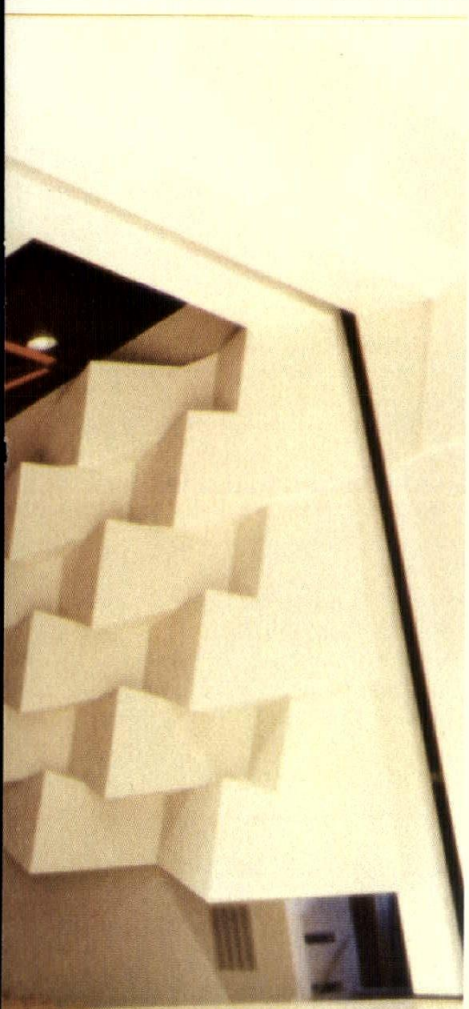
2. Revisions to the State revenue code to encourage preservation of existing residential structures and neighborhoods, such as the bills introduced in the last legislative session relating to delayed increases in assessed value of rehabilitated properties.

3. Significantly increased efforts by the State to use existing facilities of architectural or historic value to meet the needs for office space. Encouragement to county and local governments to do the same.

4. Development of programs to insure that building project undertaken by all levels of government do not have an adverse effect on either officially recognized historic properties or on the less recognized qualities of neighborhoods.

5. Development of special building code provisions so that officially recognized historic buildings can be excepted from some requirements and so that other rehabilitation projects can utilize alternative methods of providing for life safety, access for the handicapped, and energy conservation.

6. Increased funding for preservation activities through the Minnesota Historical Society with an emphasis on preservation, restoration and adaptive use rather than reconstruction. More of this money should be made available to local groups and individuals than has been the case in the past.



Planning Growth Land Use and Transportation

Our Concerns Are:

The state of Minnesota has a distinguished record in providing Legislative frameworks for planning as exemplified by the creation of the Metropolitan Council, enactment of the mandatory Cooperative Metropolitan/Municipal Planning Program, creation of the Minnesota Department of Transportation, and creation of Regional Planning/Coordinating Administrative units. Yet there remain these basic concerns:

1. Metropolitan planning and development policy and related fiscal investment are entrusted to an appointive Metropolitan Council, which interacts in the planning/development decisions of elected municipal bodies. In effect there is authority in the Metropolitan Council, but not elected representation.
2. Under-utilization of existing and available land resources through sprawl and "leap-frog" development can cause the overextension and premature development of public services utilities and resources.
3. Pollution and development of natural areas, wetlands and flood plains. Failure to plan, preserve and coordinate open space and recreational areas within urbanizing regions for the preservation of natural and recreational amenities.
4. There continues to be increased investment in outlying suburban areas and disinvestment in the older urban centers.
5. Efforts to obtain quality planning and design are hampered by:
 - a. Non-uniform development controls and zoning instruments, inadequate formats, procedures and criteria for development review and decision making.
 - b. The lack of positive development incentives balanced with control mechanisms to encourage and achieve desired growth, investment, construction and housing.
6. Continued development of costly but inadequate transportation systems—which rely basically on the automobile—blocks attempts to develop overall policies focusing on generating viable alternatives.

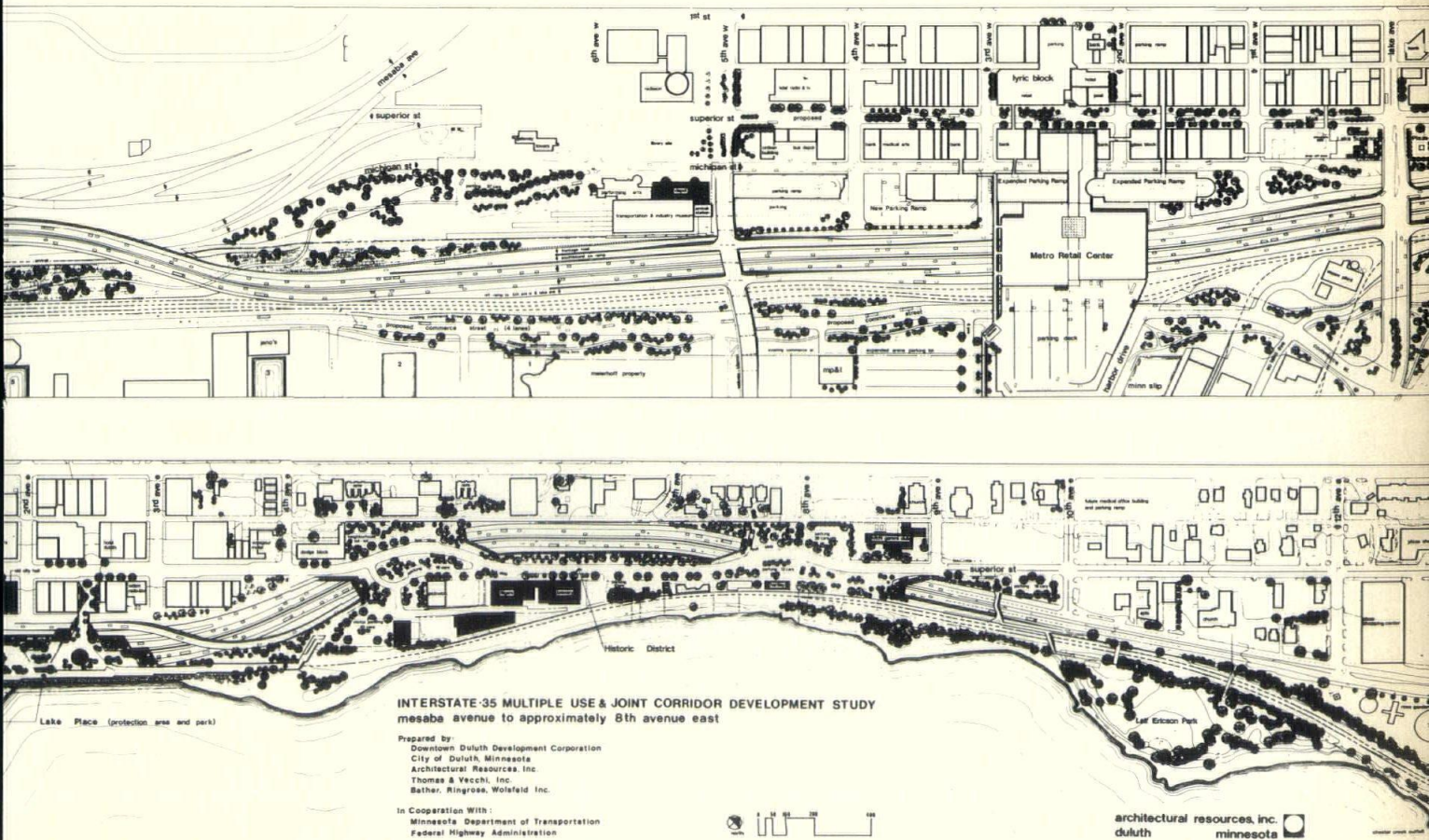
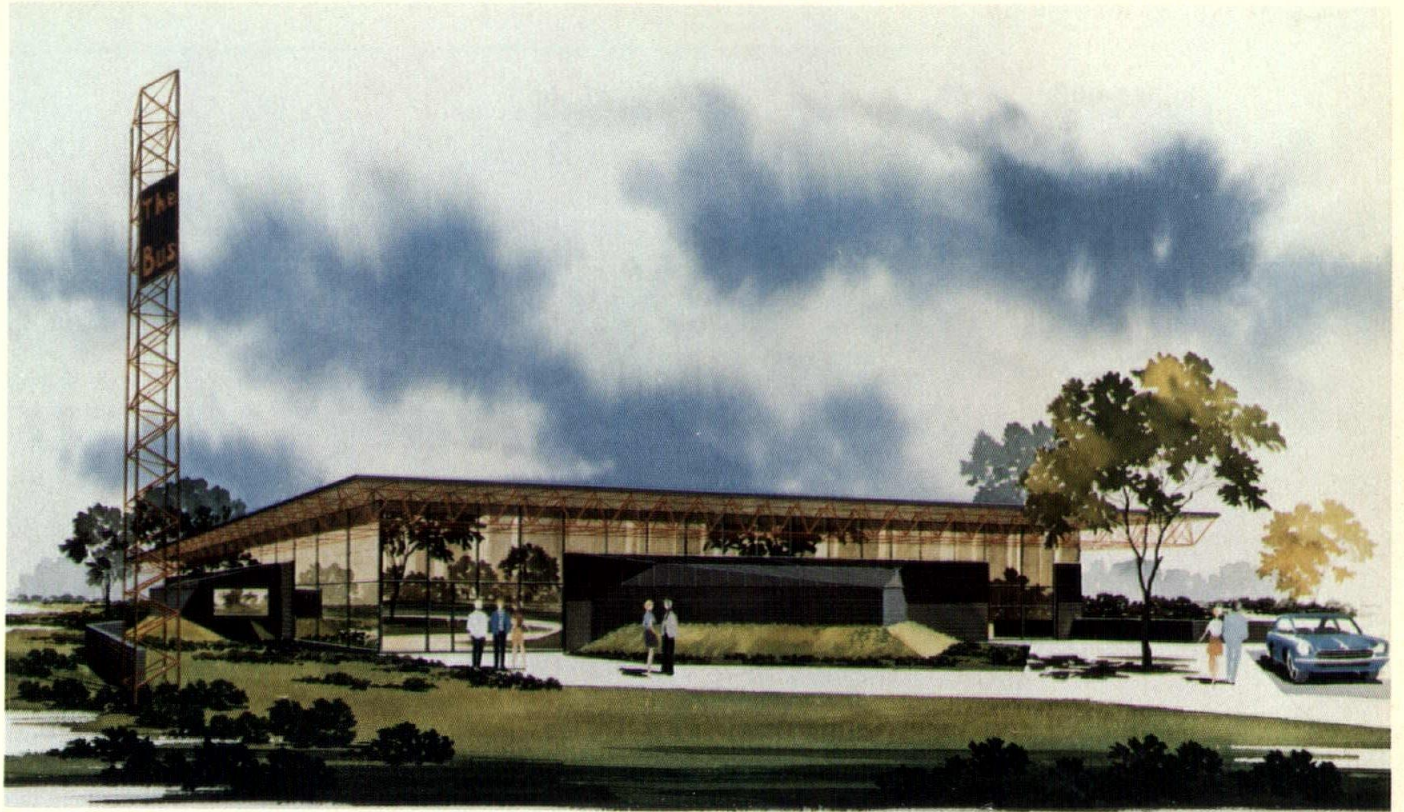
We Propose the Following:

1. The Metropolitan Council should become an elected rather than appointed body.
2. A statewide land-use and growth policy should be developed and a statewide transportation policy should be completed to be used as tools to influence development from a comprehensive perspective.
 - a. The regional structure of planning/coordinating administrative units should be funded and empowered to develop regional growth and land-use strategies and coordinate development control.
 - b. Uniform statewide procedures should be established for land development including zoning instruments, environmental impact analysis requirements, and procedures for securing development application approvals.
 - c. The efforts to protect natural areas, wetlands and flood plains should be continued and increased.
 - d. Agricultural land should be stabilized and protected from pressure towards urbanization.
 - e. Programs to promote creation of open space/recreation/green areas with urban areas should be extended and increased.
3. A program should be developed to provide funding for on-going technical planning assistance to local communities to encourage updating of development policies, land-use controls, and capital improvements planning.
4. Special incentives, financing mechanisms, and development tools should be provided to stimulate redevelopment maintenance, and rehabilitation in the inner cities.

Bus Transportation Origins Interpretive Center, Hibbing, Architectural Resources, Inc.

I-35 Multiple Use and Joint Corridor Development Study, Duluth, Architectural Resources, Inc.

Preliminary design of the planning components for the Multiple Use and Joint Corridor Development of Interstate-35 in Duluth for the Minnesota Department of Transportation and the City of Duluth.



The architectural profession is committed to environmental sensitivity and the preservation of our limited natural resources. We believe that sensitivity to the environment is the foremost attribute of a design professional.

Our Concerns Are:

1. While the Minnesota Society American Institute of Architects endorses the intent of our current environmental assessment/environmental impact statement regulations, we have concerns and suggestions. We believe that the Environmental Quality Council is a statewide body with considerable expertise. Decentralization of the EIS/environmental assessment procedures should be undertaken with extreme care. We believe that the Environmental Quality Council should be the only group to determine when an environmental impact statement is required. When the determination is made at the local level, the decision is or could be politically motivated by groups wishing to stop projects for other than environmental reasons.

2. In addition to the political consequences of giving authority to local bodies to require environmental impact statements, we believe that the provision which makes the developer totally responsible for paying impact statement costs should also be revised. In many cases this should be the responsibility of the State.

3. We are concerned also that many local governmental bodies will attempt to undertake environmental assessment/environmental impact statements, when they do not have adequate expertise, staff or financial resources.

We Propose the Following:

1. The concept of consolidation of the different permits into one environmental permit process as is currently being done.

2. Continued funding and strengthening of the Minnesota Environmental Quality Council to ensure overall state coordination of environmental policy.

3. A strict adherence to the time requirements for the review of environmental assessment and environmental impact statements. Delays become excessive and the costs often are a burden which makes it financially impossible to complete developments.

4. Individuals preparing environmental assessment/environmental impact statements should be required to sign their work, thus indicating the person responsible.

5. The development of proper and meaningful land use policies and their enforcement.

6. Open space planning and additional land acquisition both in the metropolitan area and statewide.

7. Grants to cities, municipalities and counties expressly for enhancing existing environments by incorporation of the following:

Networks of bike and pedestrian trails

Neighborhood activity centers for nature studies and related activities

Vegetation planting and maintenance program

Shade tree reforestation programs

Maintenance of natural watersheds

8. Provision of tax credits to developers or owners for choices made to enhance rather than detract from the natural environment, such as:

Pond areas versus run-off ditches

Parking ramps which would allow more open land versus a large paved parking area which would eliminate the open land

Forest maintenance

9. Continuation of the Critical Areas designation program and refinement of the Critical Areas Act.

Saint Cloud Science and Mathematics Center, Bissell, Belair & Green, Inc., Minneapolis, Architects

Some of the special areas and equipment include

Astronomy—The Planetarium, which seats 60 persons, simulates various night-time skies. The Observatory is equipped with a slide-off roof and houses eight telescopes. The largest telescope is a 12-inch Cassegrain Reflector.

Atmospheric Physics—These classes use equipment to monitor the electrical properties of the atmosphere. Other instruments serve to receive and record weather map information.

Geophysics—Seismograph and Magnetometers are used by students studying physical properties of the earth.

Electronics—A special screen room in the electronics lab shields sensitive apparatus from stray fields that could upset measurements.

Optics—A Coherent Optics Laboratory enables students to engage in various projects utilizing lasers, including the production and study of various kinds of holograms.

Radiation—A Van de Graaff Accelerator and associated instruments are used for experiments in nuclear physics. All of the science departments jointly participate in equipping a Hot Lab where radioactive materials can be processed.

State of Minnesota Public Buildings, Plan Prepare Appropriate

The M.S.A.I.A. is pleased that the architectural consultative assistance requested by the House of Representatives Appropriations Committee has been implemented.

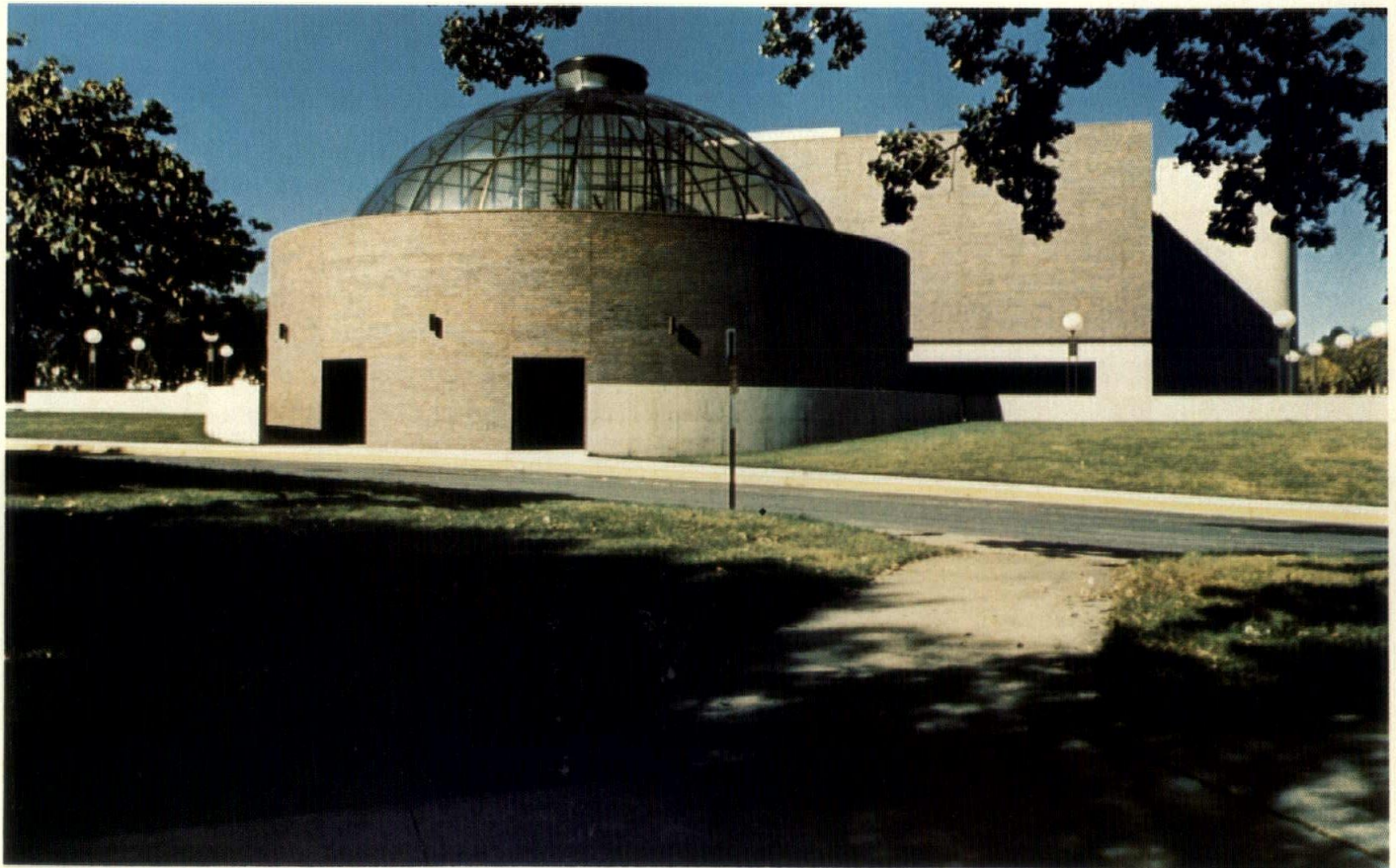
The design professional in Minnesota is an important resource and can effectively contribute to the appropriation and physical planning process. The involvement of an architect is particularly significant at the appropriation level of the State Building Program and it is hoped that this involvement will be a continuing one.

Our Concerns Are:

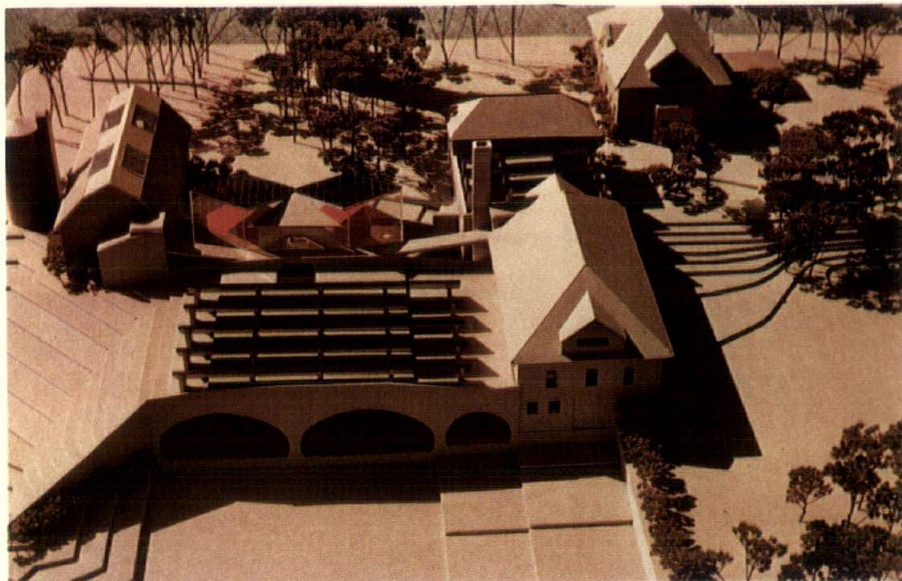
1. The contents and the preparation of the "Building Bill".
2. That facility investigations be completed jointly by the House and Senate with continued professional assistance.

We Propose the Following:

1. That accurate appropriations be determined on the basis of detailed and comprehensive planning and space programming; that planning funds be allocated and consultants retained to program, design, and complete construction documents prior to determining the amount of the particular building appropriation; and that funds be appropriated on the basis of current cost estimates based on complete documents.
2. That a long range Planning Committee consisting of House and Senate members be reconstituted and that a professional consultant be retained to advise that Committee.



Energy Conservation: Additional Dramatic Steps are Needed



Our Concerns Are:

1. Energy/Conservation

A viable National Energy Policy must be based on strong energy conservation efforts and the development of new energy sources. Conservation could have a substantial effect immediately while alternative sources and new technologies will require at least ten to twenty years to effect overall energy use patterns. State governmental efforts are necessary to achieve the efficient use of fuel. Minnesota has already begun such efforts; however, there is much to be done if we are to achieve the significant energy savings and maintain the national energy conservation leadership position that Minnesota has earned.

2. Energy Budget vs. Prescriptive Standards

Throughout the nation two types of standards are emerging. The first are prescriptive standards which Minnesota has now adopted. The second type is an annual energy budget for each building type.

The Minnesota Society and the American Institute of Architects view the prescriptive code restrictions as an interim solution. An energy budget establishes each building's maximum energy consumption and does not specify the means which an architect and owner must use to achieve the desired results.

3. Energy and Land Use Planning

Intelligent land use planning is probably the most fundamental long-term key to energy conservation. Our current land use patterns, urban sprawl and development systems encourage the waste of energy—not only in the delivery systems required for their occupants, materials and services, but also in the energy required to provide hardware (roads, cars, pipelines, power plants, etc.) to structure these systems. Much current effort is directed to the extension of transportation and utility networks to service helter skelter developments, resulting in the unintentional encouragement of more fragmentary developmental patterns. Much of this is a result of the quest for cheaper land. Enlightened planning would eliminate the extension or minimize the level of services to fragmented developments. Where feasible the needs of unserved existing establishments should be met through special or localized services.

1. The continued strengthening of the Minnesota Energy Agency.

2. A continued emphasis on the collection and assimilation of data and information which can be used to establish an energy budget or performance code for buildings.

3. An expanded function of the Minnesota Energy Agency to direct research and development for energy conservation and alternative sources.

4. A package of tax and economic incentives to make it economically feasible

Red Wing Energy Education Center for the Red Wing Area Vocational Technical Institute, Red Wing, Minnesota. Architects: Toltz, King, Duvall, Anderson & Associates, Inc., Saint Paul, Minnesota; Criteria, Inc., Minneapolis, Minnesota.

for Minnesota building owners to retrofit existing buildings and design into new structures maximum energy conservation design technology.

5. Development of incentives for residential consumers of energy to retrofit their homes.

6. State appropriations for Minnesota cities, counties, and educational institutions to survey their buildings to determine energy conservation capital improvements which are economically feasible.

7. A requirement of life cycle costing on all public buildings funded by the State of Minnesota, which would entail an estimation of the total energy costs of a particular building over a 10 year period.

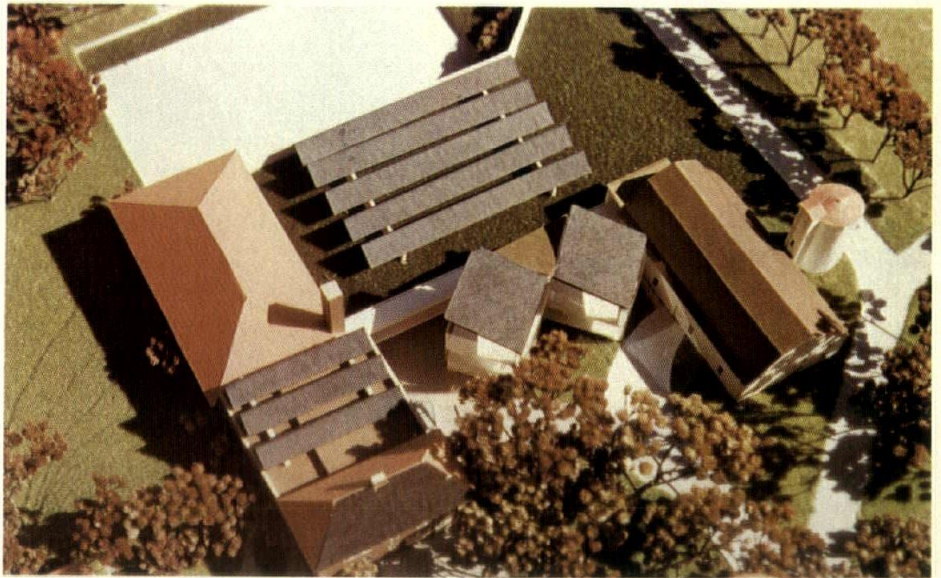
8. In order to facilitate the implementation of energy oriented land use planning concepts, the state should provide enabling funds to the appropriate governmental agencies (State Planning Agency, Metro Council, Energy Agency) to undertake the following actions:

a. Survey existing zoning, code, tax and other incentives that have misdirected the growth patterns of our urban and rural areas. Recommend changes in these incentives to encourage efficient development and appropriate directions of growth.

b. Survey existing energy uses in the delivery of persons, materials and services. From this survey, analyze which land use patterns minimize energy usage and still provide for a good human working environment and economic growth.

c. Investigate, in terms of energy efficiency and environmental impact, the relationship between the elements of certain utility and transportation services and their capacity to meet the needs of the area.

Land developed efficiently along with services, should strive to use our limited supplies by building a more condensed environment. This allows for efficient energy systems such as district heating, mass transit and a higher level of human services.



Red Wing Energy Education Center for the Red Wing Area Vocational Technical Institute, Red Wing, Minnesota. Architects: Toltz, King, Duvall, Anderson & Associates, Inc., Saint Paul, Minnesota; Criteria, Inc., Minneapolis, Minnesota

Red Wing Area Vocational Technical Institute serves as a learning environment and as a launching place for future careers. It is a progressive, modern vocational school, well staffed, well equipped, and has an impressive placement record.

The Tower View Site, where the Red Wing Energy Education Center will be located, consists of 345 acres, 300 of which is untouched wetland near the Cannon River, and the remaining 45 acres being flat agriculture land adjacent to the building complex.

The Tower View Site is being offered as a gift to the Red Wing School District and will serve as the site for the Red Wing Energy Education Center. Through this center, teachers, students, business and industry throughout the region could explore and receive training for occupations related to energy conservation and alternative energy systems.

Frivolous Lawsuits

"Frivolous" lawsuits have been a burden to our judicial system and a financial drain to all professions. Almost every professional business has or will be affected by such a legal procedure. In recent years many states have instituted legislation to protect innocent victims from this type of legal action while protecting the right of plaintiffs to institute suit only where there is a valid reason.

Our Concerns Are:

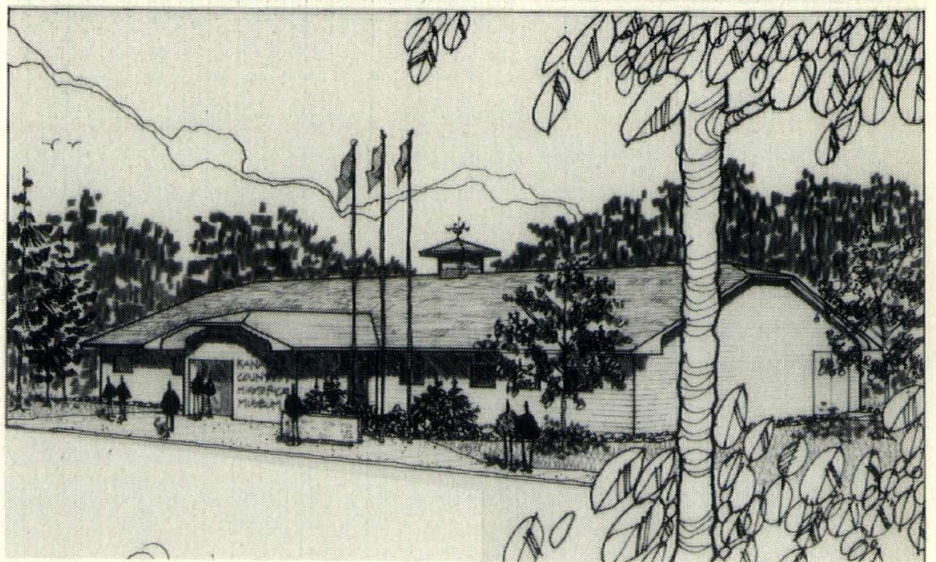
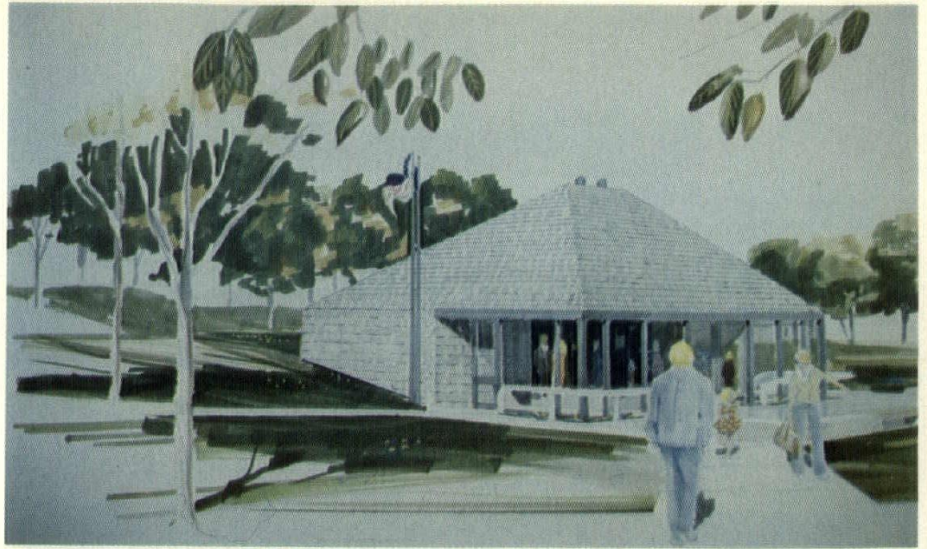
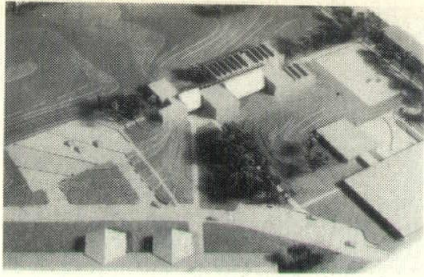
1. Without proper legislation enacted in Minnesota, "frivolous" lawsuits will continue.
2. The cost of defending against these "frivolous" lawsuits is continually rising thereby adding to the already increasing financial burden of professional business operations.
3. "Frivolous" lawsuits contribute to the overcrowding of court calendars and cause needless expense to taxpayers required to support the judicial process.
4. Professionals in some states are protected, in varying degrees, from the activities of "frivolous" lawsuits. Minnesota professionals should be provided with a reasonable amount of protection for their business operations, as well.

We Propose the Following:

1. The enactment of a Minnesota Statute providing a reasonable degree of protection against "frivolous" lawsuit procedures.
2. That members of other professional organizations be contacted and enlisted in an organized effort to implement this investigation and the ultimate endorsement by their respective organizations of proper legislation to be implemented by our Legislature.



Nelson Hall, Moorhead State University, Moorhead, Minnesota. Foss, Engelstad and Foss, Inc., Architects and Engineers, Moorhead, Minnesota



Willmar Rehabilitation Therapies Building, Willmar State Hospital, Willmar, Minnesota, Hammel Green and Abrahamson, Inc., Architects and Engineers, Saint Paul

Big Spunk Lake & Middle Spunk Lake Rest Area Buildings, near Avon
Team 70 Architects, Inc., Minneapolis, architects

Fuller Lake Rest Area Building, Interstate 94, Clearwater, Minnesota, Pauly Architects, Inc., Architect, Saint Cloud

Kanabec County Historical Museum, Mora, Minnesota. The Museum, designed by the Saint Paul firm of Toltz, King, Duvall, Anderson and Associates, Saint Paul.

To Care and to Plan 1978

A photograph of the interior of the Minnesota State Capitol dome. The image shows a grand, circular space with a high, vaulted ceiling. The ceiling is painted with a blue sky and white clouds, and features several large, arched windows. The walls are made of light-colored stone and are decorated with murals. A balcony with a decorative railing runs around the perimeter of the dome. In the center, there is a large, ornate doorway. The lighting is warm and comes from several sources, including wall sconces and ceiling lights.

Minnesota Society American Institute of Architects
314 Clifton Avenue, Minneapolis 55403 Telephone 612 874-8771

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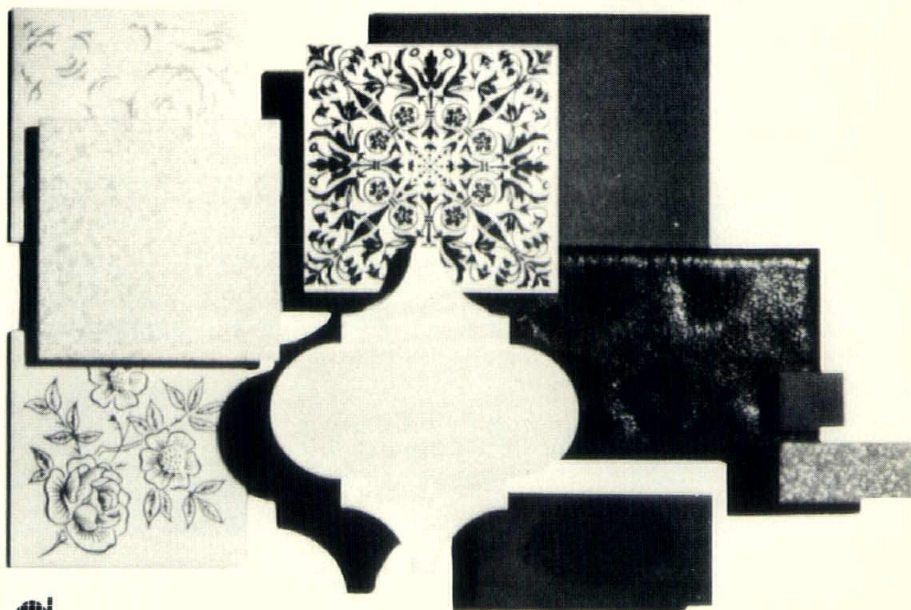
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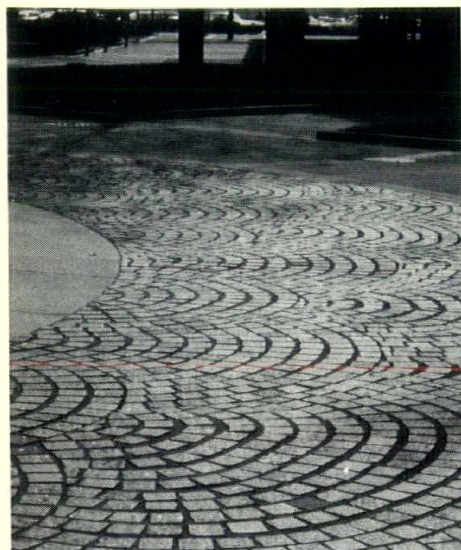


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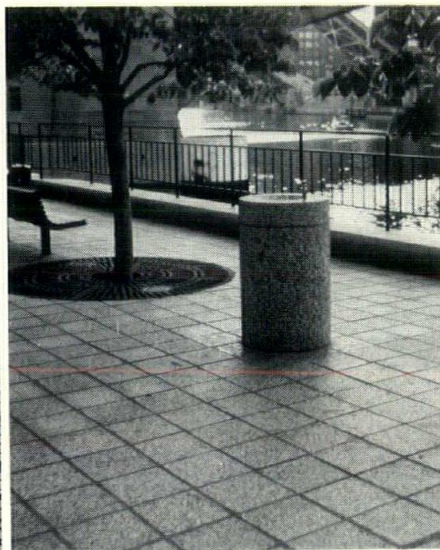
420 Excelsior Avenue West, P.O. Box 397, Hopkins, Minnesota 55343, 612-938-2785

Granite.

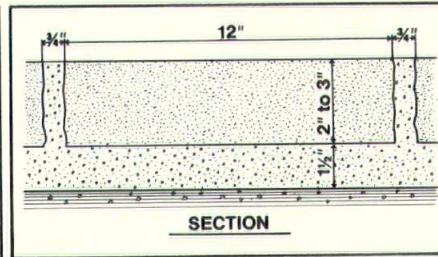
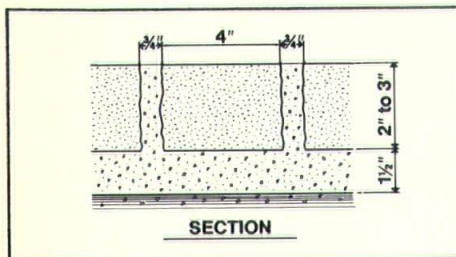
Beautiful for heavy traffic areas.



Architects: Lawrence Halprin & Associates

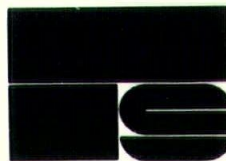


Architect: Joe Karr & Associates, Chicago, IL



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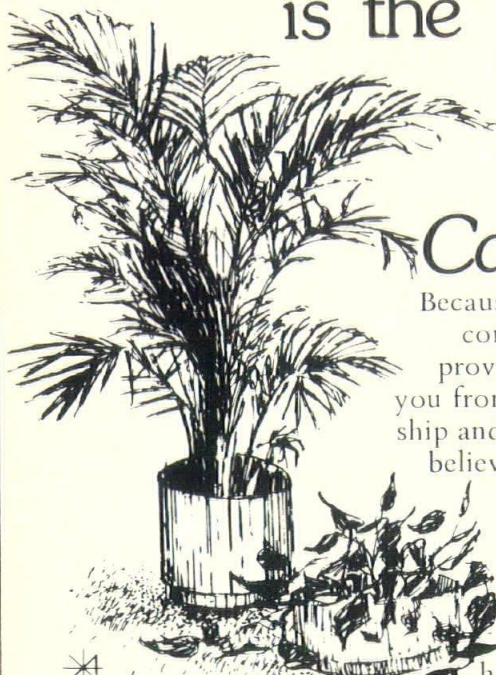
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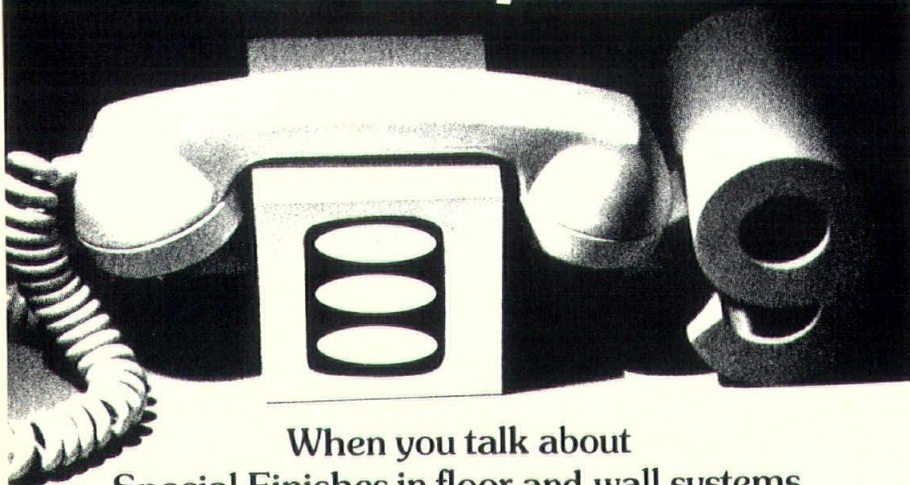
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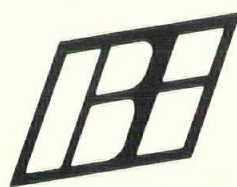
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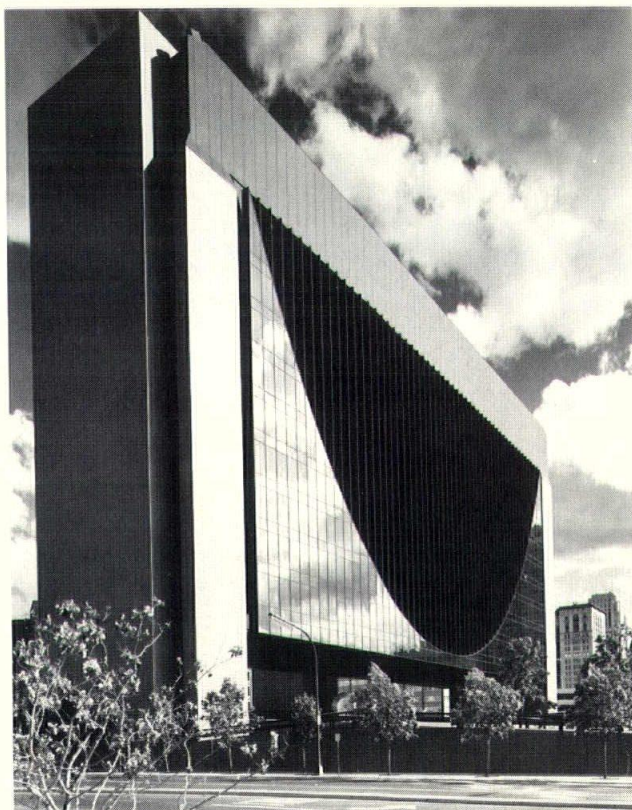
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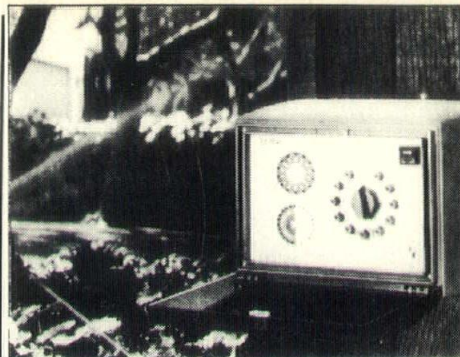
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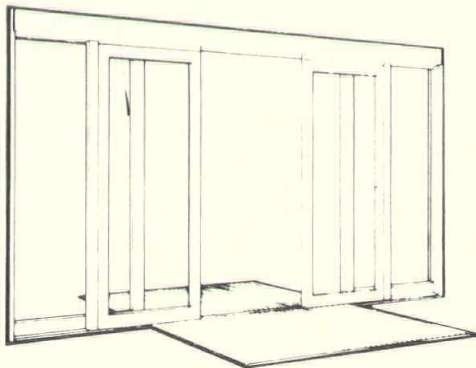
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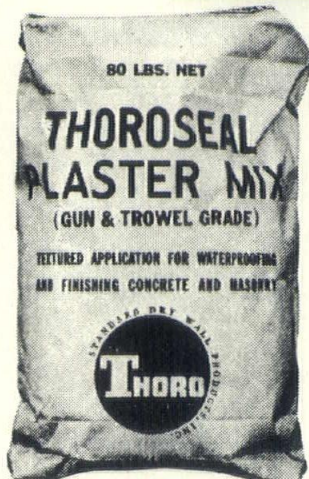
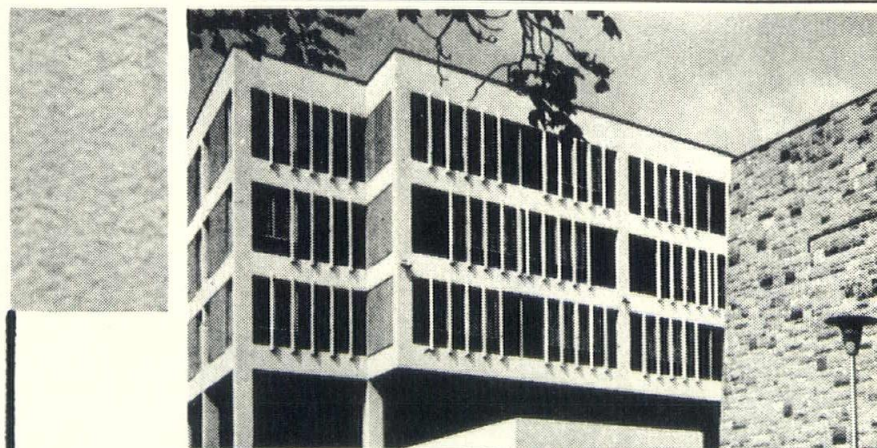


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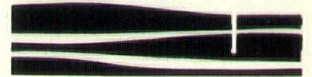
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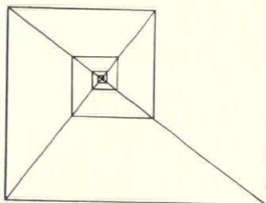
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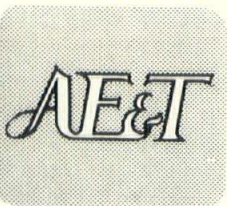
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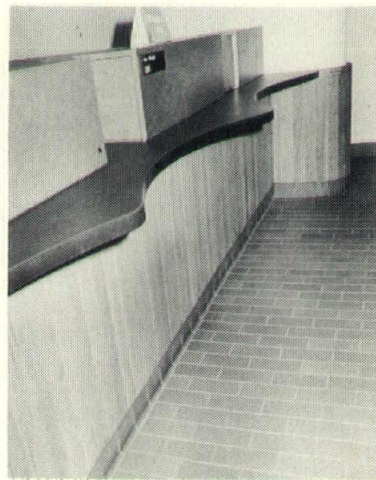
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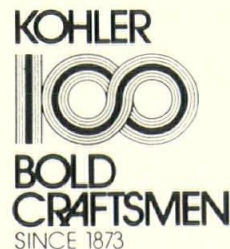
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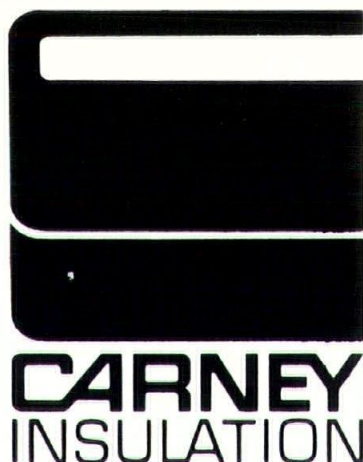
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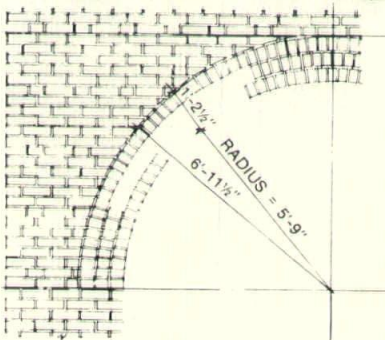
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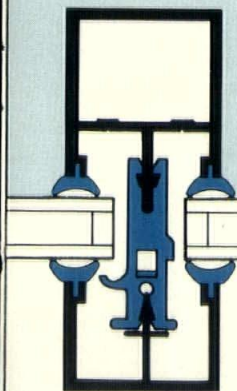
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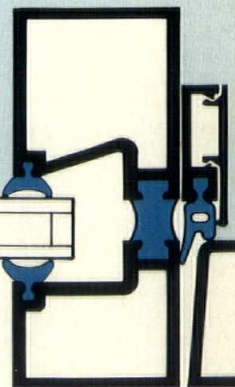
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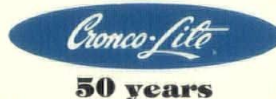
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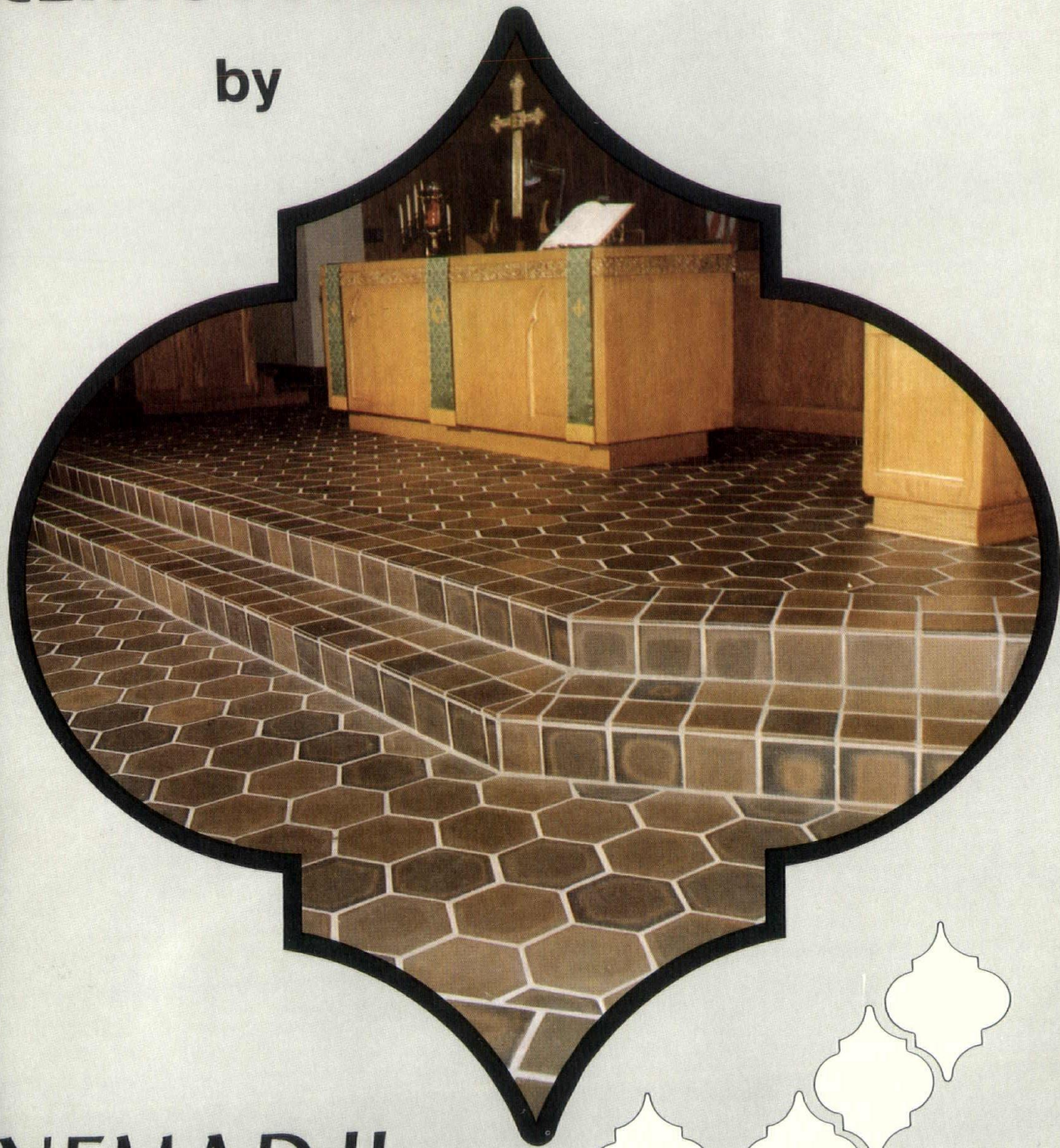
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9

CLAYSTONES

1977/1978

TILE WORK Brochure No. 3

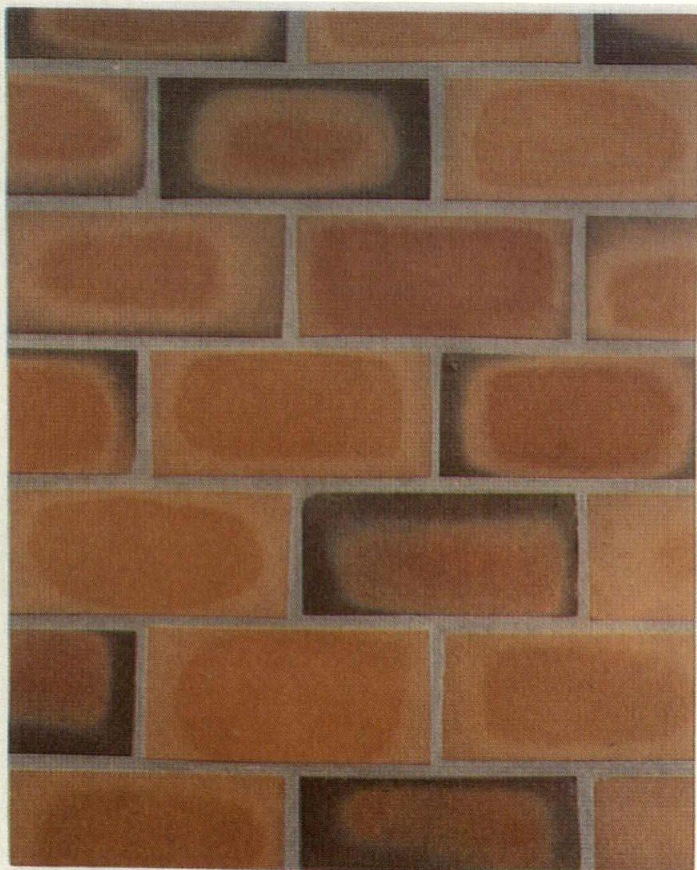
FIRE FLASHED CLAYSTONES COLORS



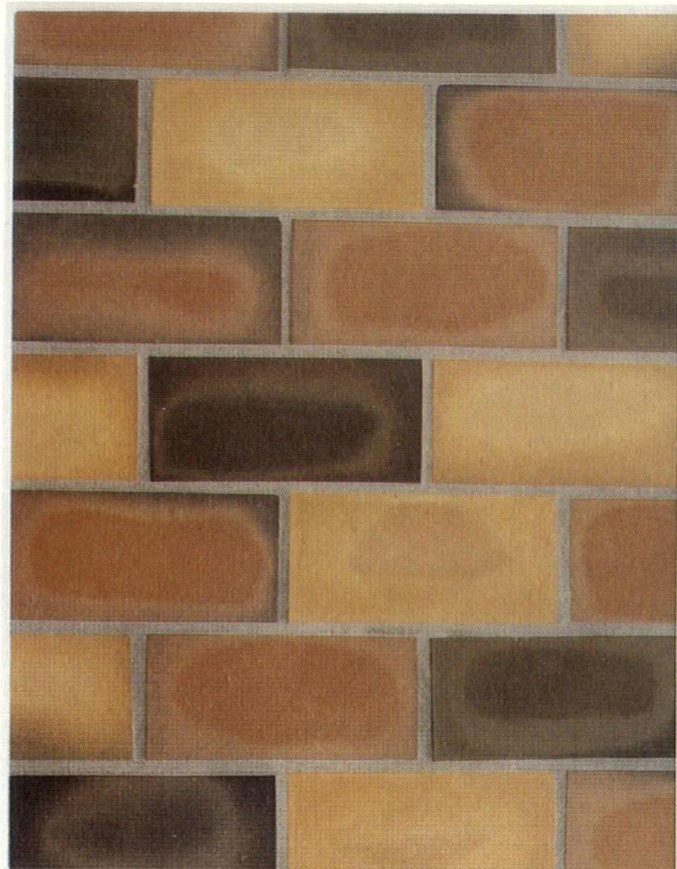
BROWN RANGE



TAN RANGE

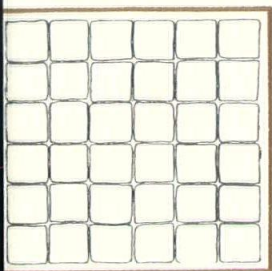


RED RANGE

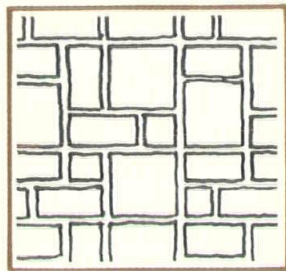


FULL RANGE

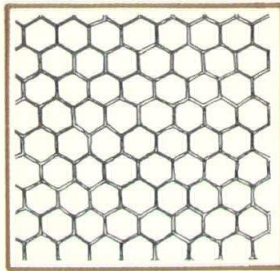
SUGGESTED CLAYSTONES PATTERNS



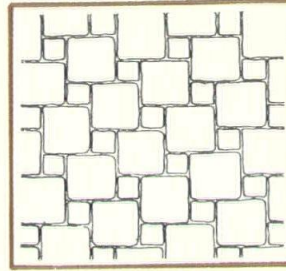
PATTERN #1



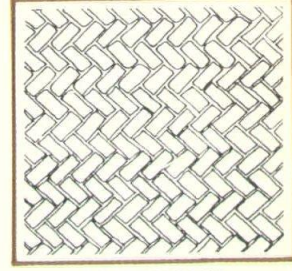
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PATTERN #3



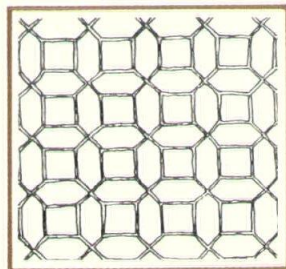
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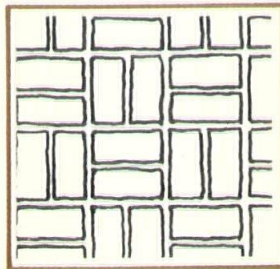
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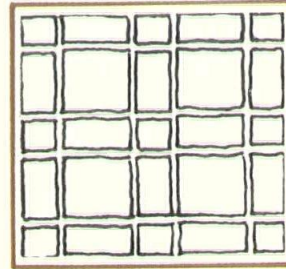
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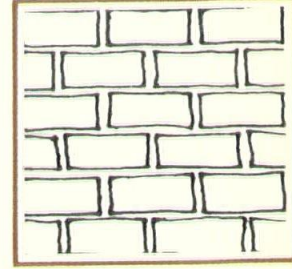
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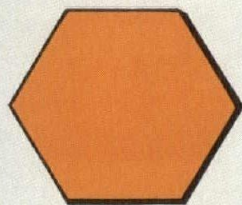
PATTERN #11



PATTERN #12



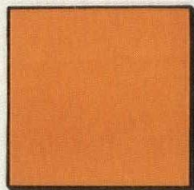
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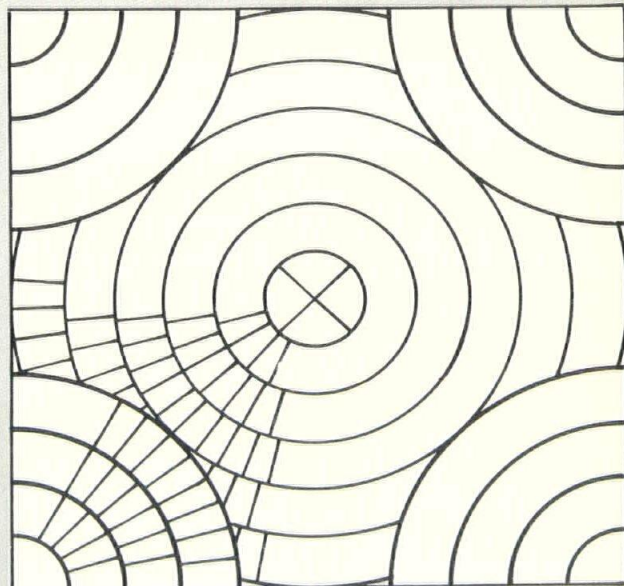
8" HEX.



4-1/2" HEX *



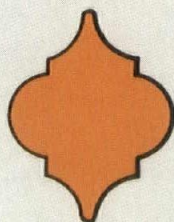
2" x 2" *
4" x 4"
6" x 6"
8" x 8"



PATTERN # CIRCULAR



8" BRICKPOINT *

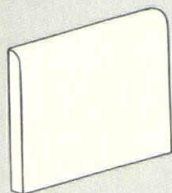


SPANISH

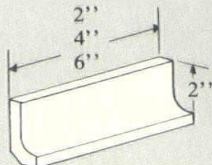


2" x 4" *
3" x 6"
4" x 8"
3" x 12" *
6" x 12" *

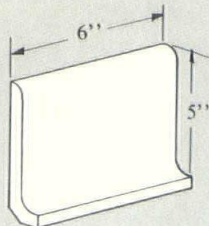
TRIM:



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TO FIT ALL SIZES



COVE BASE *



Q3565 BASE



#1



#2



#3

WEDGE TILE FOR CIRCULAR PATTERN

*MADE ON REQUEST ONLY



8" HEX FLOOR TILE BROWN RANGE.



3" x 6" TAN RANGE WALL WITH CIRCULAR FLOOR.

SPECIFICATIONS FOR INSTALLATION

CLAYSTONES

by NEMADJI TILE AND POTTERY COMPANY, INC.

SCOPE: The tile contractor for tile work shall finish all labor and equipment, deliver, install, and furnish tile.

MATERIALS: Nemadji Claystones Tile shall be unglazed, hand-molded tile, made of natural clays, fire flashed as manufactured by Nemadji Tile and Pottery Company, Kettle River, MN. Tile shall conform to published specifications of Nemadji Tile and Pottery Company, Inc.

INSTALLATION: Except as otherwise specified, tile shall be installed, grouted, cleaned, protected, and cured in accordance with the instructions for Claystones tile in the following American National Standards Institute specifications.

American National Standard Specification

- (a) A108.3-1967 for installation of Claystones in portland cement mortar.
- (b) A108.4-1968 for installation of Claystones with water-resistant organic adhesives.
- (c) A108.5-1967 for installation of Claystones with dry-set portland cement mortar.
- (d) A108.6-1969 for installation of Claystones with epoxy mortar on plywood. Grout with a sanded latex portland cement or epoxy grout.

TEST

(average of 3 samples)

Absorption (%)—ASTM: C67

Color Range	5 Hour Boil	24 Hour Immersion
Red	5.3	4.7
Brown	4.1	3.8
Tan	4.9	4.6

Abrasion (wear index) ASTM: C501

Color Range	Tabor Abrasion H-22 Wheels, 1,000 Cycles
Red	43
Brown	56
Tan	35

TWIN CITY TESTING LAB

NEMADJI TILE & POTTERY COMPANY

Kettle River, Minnesota 55757

(218) 273-4311

For any questions, ask for Joe D'Antoni

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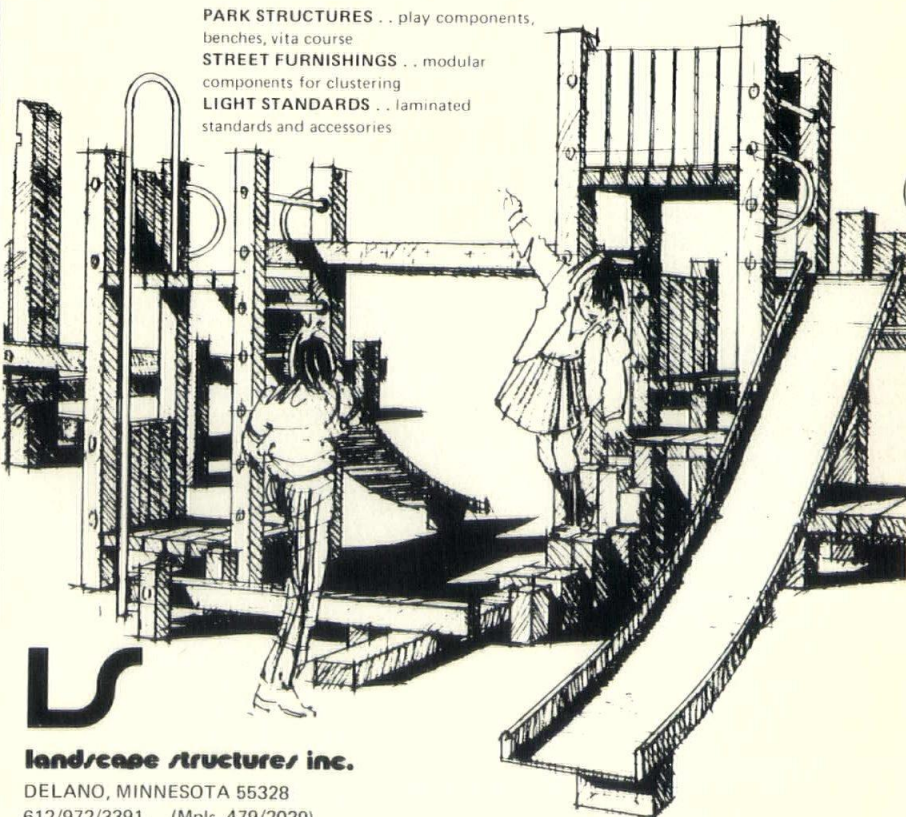
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AND WHAT KIND OF HEAT IS IT?

(Proshop, Olympic Hills Country Club, Eden Prairie, Mn)

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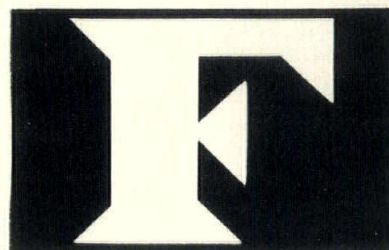
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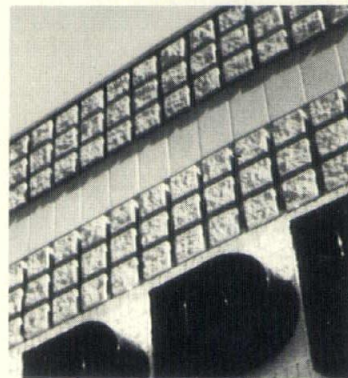
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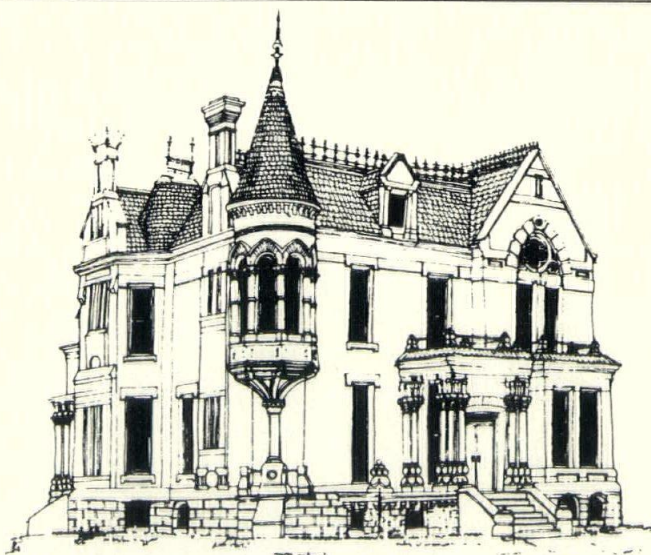
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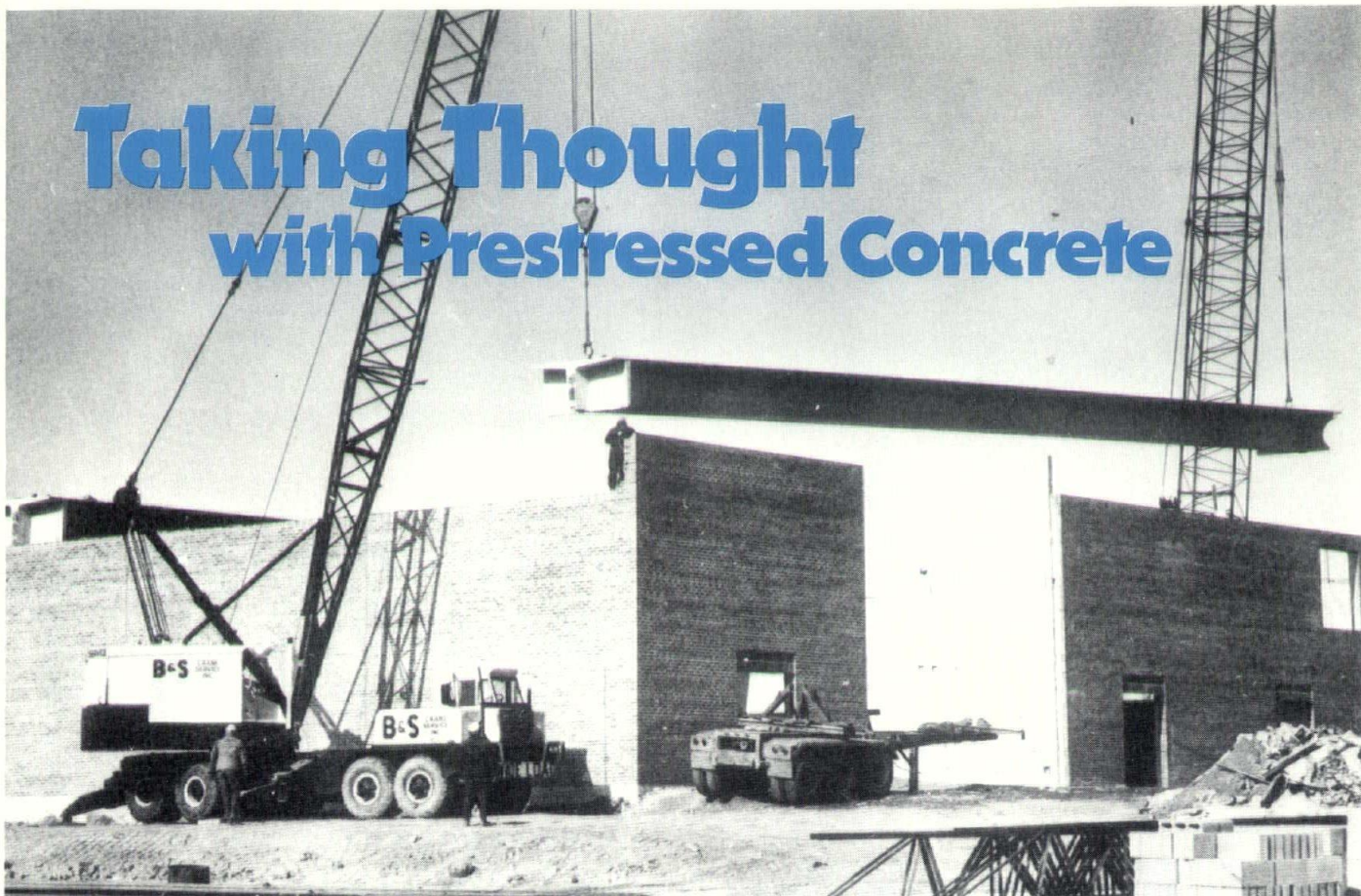
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STRUCTURAL ENGINEER: Johnston-Sahlman Co., Inc., Mpls., Minnesota
CONTRACTOR: Lovering Associates, Inc., St. Paul, Minnesota

Photos courtesy of Sherburne County Star News, Elk River, Minnesota



Ceramic Tile mosaic, Chaska High School,

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the ordinary. . .

Beauty isn't just a flight of fancy, or a fragile ephemera; beauty becomes very real and tangible when Ceramic Tile is used on nearly any surface. Ceramic Tile is available in a tremendous variety of textures and colors and provides a handsome counterpoint to wood, metal, stone or glass.

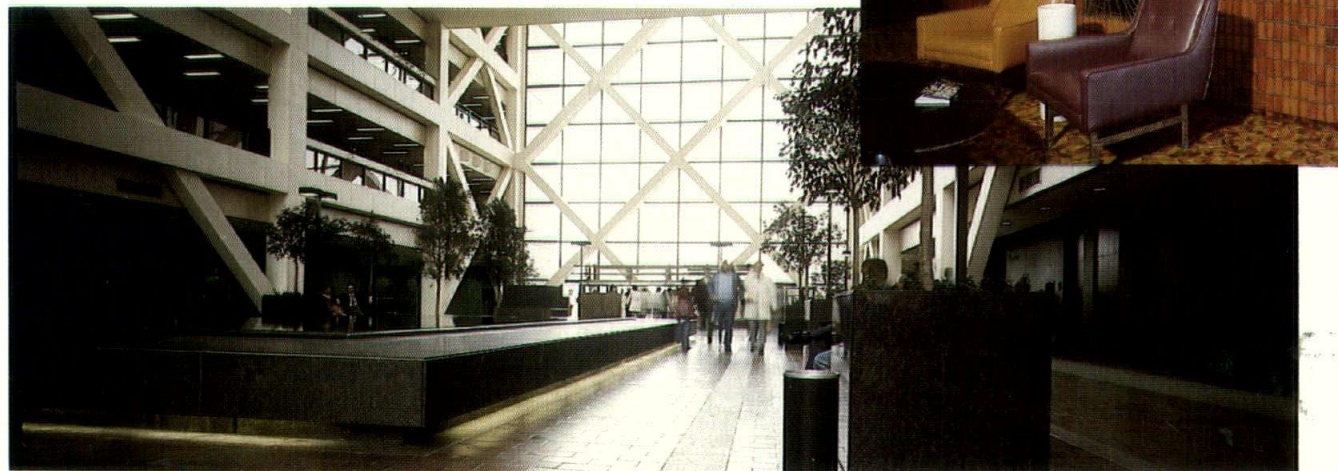
with down-to-earth costs and practicality. . .

Ceramic Tile makes beauty liveable and affordable. Durable Ceramic Tile can withstand years of the most demanding conditions with minimum maintenance costs. No fading, no colorshift, no warping, no buckling. Simple to clean and keep clean. See what we mean by "down-to-earth"?



Maplewood Mall Architect: North Architectonics, Inc.

North Memorial Hospital Meditation Room
Architect: Smiley, Glotter Associates, Inc.



Hennepin County Gov't. Center

Architect: John Carl Warnecke, San Francisco



old as history... modern as tomorrow

MINNESOTA CERAMIC TILE INDUSTRY