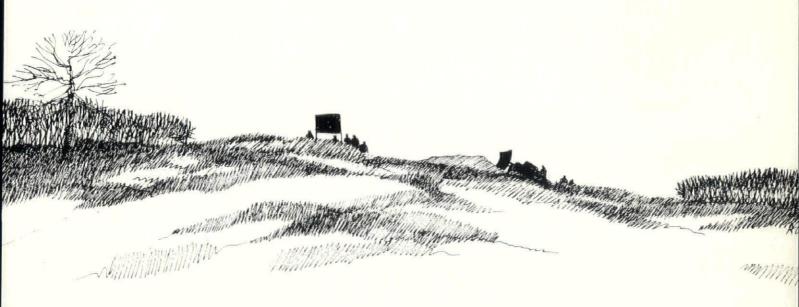
NORTHWEST ARCHITECT

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NORTHWEST ARCHITECT

Official Publication of the Minnesota Society of Architects

VOLUME XXXIII NUMBER 1

JANUARY, 1969

In this issue:

Forecast 1969	õ
Directory of Area Architectural Offices	3
Cumulative Index to 1968	7
Index to Advertisers)

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New Patterns

EACH YEAR the Minnesota Society of Architects, with its newly elected officers and board members, brings to the profession a promise for solutions of new problems. Stewardship over the hard-won gains of the profession for the public is also a constant and continuing challenge. This year, with the departure of James M. Fenelon, Hon. AIA, to Washington, requires additional adjustments and reprogramming to our society's efforts.

The new executive director, Donald W. Hassenstab, brings to the Minnesota Society of Architects a probing, energetic and determined leadership. All members of the society must lend a hand to help Don make this transition not only tolerable but profitable to the society.

The society, acting in concert, can accomplish many things that individual architects cannot. It's aims, goals and actions can, however, be no different from those which would be taken by the individual practicing architect. The pattern of the society, as well as the pattern of the individual architect, in relation to the problems of our total society will be established by interest, involvement and effectiveness.

Individual architects and our society have always had deep interest in man and his environment. In the past decade this deep interest and concern have broadened beyond the "hardware" of physical environment to truly encompass those social and human qualities that are so important to the satisfactory solution of all problems.

Interest alone, however, produces no solution. Architects generally, and particularly in Minnesota, have become increasingly involved in the basic problems and their solutions. Some of the outward evidences of this involvement are increased political involvement in city, state and nation, increased public service on important planning, housing and regulatory boards and by new concepts of expanded service with other professionals. Concern and service by architects relating to community problems not normally associated with the profession are increasing. In short, the architect is becoming a better citizen.

Significant progress has been made in areas of legislation enforcement, compensation, ethics, all industry problems and many other areas by the board and the society's committees and task forces. Much more remains to be done to advance these important tasks.

Hopefully, we are girding our Minnesota Society of Architects so that in terms of its aims and goals it can be of ever greater service to the architect, the community and to man himself.

The task is large
The goals are worthy
We have the tools
We have the interest
We are involved
We will become more effective
Your Board and Officers will help lead.

Louis R. Lundgren, A.I.A. President Minnesota Society of Architects

"Total Environment" Responsibility

As WE LOOK FORWARD to 1969 we realize that the architectural professional has an ever increasing responsibility to the public for the "total environment." Our profession, through the creation of architecture, shapes and molds the daily lives of all of us in the community—the environment in which we live and work.

If I had been writing for a 1959 forecast issue, the contents of this message would have been quite different. The architect would have been concerned about new materials and structural systems, but it is doubtful that we would have spoken about design teams, air and water rights, control of pollution or the urban crisis. Today, however, we have to be prepared to discuss all of these things if we are going to discuss architecture at all.

The architectural profession is becoming more streamlined, modernized and even computerized as our entire civilization moves forward. Ten years ago, would we have imagined an astronaut on the moon?

New opportunities as well as old problems are with us. By new opportunities I mean the growing list of things that an architect can do because of breakthroughs in design procedures and technology. Our cities, where two out of three Americans live, have reached a condition of critical mass as places in which to live. What was ten years ago a polite request for a better environment has become a clamorous and sometimes violent demand.

The architect can render the best possible service to the community by taking an active part in the programs of his professional organization. A strong professional organization will help enhance the image of the architect in his relationship with the total environment.

The Minnesota Society of Architects, AIA, is the state organization of the architectural profession in Minnesota, chartered by the American Institute of Architects, acting for the AIA and its chapters in Minnesota on all state matters. It also functions as the liaison between the national headquarters and the three local chapters in Minnesota—St. Paul, Minneapolis and Northeastern Minnesota.

Each of the nearly 600 members in the chapters automatically is a member of the state society. The MSA gives the architectural profession a single strong voice at the state level. It provides unified representation in all statewide matters affecting the profession and functions as the statewide representative and unifying body of all Minnesota architects and chapters of the AIA.

Some of the objectives of the state society are:

- Represent the architectural profession before the state legislature and the many state agencies whose activities vitally concern architects and their clients.
- Maintains active co-operation with other state-level organizations, including Minnesota Association of Consulting Engineers (MACE), Builders Exchanges of Minneapolis, St. Paul and Duluth, Associated General Contractors of Minnesota (AGC), Minnesota Society of Professional Engineers (MSPE), Minnesota School Board Association (MSBA), Producer's Council (PC), Land Surveyors and State Board of Registration for Architects, Engineers and Land Surveyors.
- Publishes a Newsletter.
- Is directly concerned in the publication of the Northwest Architect.
- Organizes the profession's annual convention and building products exhibition.

These are only a few examples. There are 44 committees carrying on the programs of the MSA. The list of activities is long and constantly changing as projects are completed and new ones undertaken.

The last ten years has caused our profession to examine itself in terms of what society needs today and has caused us to formulate new and bold answers to contemporary problems. We will join with the construction industry and meet the challenges and responsibilities of the 1970's.

Donald W. Hassenstab

Executive Director

Minnesota Society of Architects

Forecast 1969 —

What the Year Holds as Seen by Members of the Construction Industry

Increase Will Be Modest

I've talked with our sales management and field sales people in hopes that we can give a layman's comments on the industry trend for 1969. Although your readers are interested principally in the type of construction that retains the architect, I'd like to comment on all classifications of construction.

The consensus of the reports we've studied indicate that total residential housing will increase between 5% and 10% in 1969 over 1968. We believe this forecast will apply to the Northwest next year. We expect that approximately 40% of residential housing will be multiple family housing and about 75% of multiple housing will be in the low rise category. For the non-residential building market we don't expect this market to increase during 1969 over 2% or 3% above 1968. The increase is expressed in floor area and not dollar value. Included in this classification are commercial buildings, manufacturing buildings, educational buildings, hospital and health treatment buildings and religious buildings.

We believe that one of the deterrents to a higher rate of building next year is the accelerated rate of inflation, with a resulting increase in construction costs. The continuing increase in interest rates on loans does not stimulate residential or non-residential building.

Comments in this letter may indicate that I'm doing a lot of hedging on what we can expect in the construction industry during 1969. We are not as optimistic as some in our industry who feel that 1969 will be an excellent building year. We believe there will be a very modest increase overall. We expect the residential building to show better gains than the non-residential building.

C. C. Stout Andersen Corporation Bayport, Minn.

Building Industry Is A Good Barometer

The building industry has always been a difficult one to predict for any great period of time but I have found that it is an area that is particularly sensitive to the general economic condition of the country and has generally been a good barometer of other economic situations. We find in our practice that we are now able to

plan our work much further ahead than has ever before been possible. This is true partly because there seems to be a plentiful supply of work available and further because the projects that are being undertaken are of such size that much more lead time is necessary than has heretofore been the case. Many of our clients are also those with whom we have been associated in building projects in the past and they are gradually learning that long-range planning is necessary for the proper fulfillment of their building needs.

The prospects for 1969 look very promising and our workload for the coming year promises to be very heavy. It is going to be necessary for architects and their clients to schedule their work very carefully and it is probably going to be very difficult to meet predicted schedules. There seems to be a shortage of qualified and experienced people to staff architects' offices, which is almost sure to result in the inability to complete the architectural phase of the work as quickly as our clients wish us to.

I foresee an acute shortage of skilled labor in the construction field. This is due partly to the increased amount of building that has to be done and partly to the restrictive practices of the various trades in development of new skilled workers. If our builders are going to keep up with the demands of the public in providing new buildings, something must be done to develop more skilled workers. We are constantly being faced with the problem of shortage of personnel in one trade, having the effect of delaying a project to the point of affecting all of the other trades on the project. Under our present system it is necessary to create an entirely new team of contractors and workers for each new building project and the failure of any member of this team can have a disastrous effect on the production of the entire team. This situation is likely to become even more critical under the press of work that I see coming

The other factor that we are going to have to deal with during 1969 is that of cost and this element is sure to have its effect on the problem of financing projects. Every indication is that costs are due to increase very greatly during the coming year and the only question seems to be the extent of this increase.

The wage agreements that are made in the spring of 1969 are bound to have only one effect on cost and that is to increase them, and I am afraid that many of the contractors who are bidding jobs before that time are

trying to anticipate the labor cost factor that they will be dealing with during the subsequent construction period of these buildings. We have heard various estimates of annual cost increases, ranging from five percent to twelve percent of present costs, but the actual predicted cost of buildings is such a nebulous thing that it is difficult to be precise in any such comparison. It seems apparent, however, that we must consider a building cost index considerably higher than any that we have previously experienced. This is likely to have a very strong effect in the financing of certain types of buildings, particularly religious buildings, and I feel that money for projects of this kind is going to be very scarce and very expensive. Church clients and architects doing church work would do well to investigate thoroughly the financing potential of projects before they become involved too deeply.

In spite of all of the problems, however, I think that it is going to be a very busy year for the architectural profession in this area but we will do well if we can keep our clients satisfied with the time required to produce the architectural work and to actually construct the building and with the final cost of that building.

G. Clair Armstrong, AIA Armstrong, Schlichting, Torseth and Skold/ Architects Minneapolis

Volume Will Hold

To forecast at this time the possible architectural practice activity in 1969 will be undoubtedly influenced by many factors whether they be national, local, or within an architectural organization but it is our opinion that the present volume will continue and could increase appreciably.

We actually shudder at any increase in volume because we do not see the available help to get out the work. The need for physical plant to accommodate the increase in population is still with us and undoubtedly will continue to register itself. It is especially evident in construction requirements for housing, education and health facilities.

Sidney L. Stolte FAIA, PE Bettenburg Townsend Stolte & Comb, Inc. St. Paul

Certain Factors Govern

For the past three years business has been way off in volume, about 40 per cent each year. Usually at this time of the year prospects look good for the forthcoming year and that also applies for the year 1969. If the same factors that have governed our volume in the past continues for the year 1969 then I believe we can safely predict that there will be no change in our condition. In other words, it looks like we will have another poor year.

The factors that have governed our volume are high interest rates, inability to obtain financing and opposition of the taxpayers to vote yes on bond elections.

Harold C. Brunner, AIA
Brunner Hoeffel Bohrer &
Associates
Minot, N. D.

Labor Cost Will Be Vital Factor

The expectation of a substantial labor cost increase in 1969 is not news but the general awareness of the impact of it by so many segments of the community is of itself newsworthy. It does not seem to be a deterrent but, rather, an impetus to get projects on the market before costs get even worse.

In the Twin Cities area (and perhaps nationwide) the trend seems to be toward planning for more than just one building at a time—the integrated long range building complex. Specific instances of this trend include the Capitol Campus study in Saint Paul, the University Medical Complex, the West Bank and Cedar-Riverside projects in Minneapolis, the Civic Center and Capital Centre projects in Saint Paul.

This shows an increasing understanding of thoughtful planning whereby 2 plus 2 can add up to more than 4.

One further observation—we are fortunate to have a tradition of competent workmanship in this area, which is still in evidence on our construction projects. It is particularly reassuring to come back from a trip to New York or Chicago, having seen the latest "great" bit of architecture with some rather shoddy workmanship, and realize that the grass is still pretty green on this side of the fence.

Brooks Cavin
Cavin and Page, Architects
St. Paul

Leisure and Recreation Needs Seen

We feel 1969 will be a very good construction year, surpassing 1968. Dwellings will increase and multiples will continue to be big. Contracts on commercials and industrials are the largest yet.

Architects will have to design for more leisure and recreation time for the future.

Shortage of union mechanics will be a trying problem.

William J. Dale
Dale Tile Company
Minneapolis

Volume Up

Our firm anticipates that in 1969 we will have one of the largest volumes of construction since we were established in 1907. The market remains amazingly active and we have a large backlog of work at the present time.

There are, however, several ominous clouds on the horizon. The labor contracts for the most part are up for renewal in May, 1969. The national pattern has been for increases of a startling nature, far beyond any past increases. The AGC and other employer groups have been criticized for permitting this but in most cases settlements have followed long strikes which could be the case in this area. There is also a definite shortage of good building tradesmen even late in the construction season, which makes their bargaining power all the more effective.

Mortgage and finance money has been and remains tight and high priced and has caused some projects to be abandoned by owners. The sales tax has also increased building costs in the area.

I predict a good year in 1969 if some of the above potential problems do not get out of line in this area. If they do get out of line, the reverse could be true.

John E. Ganley Ernest M. Ganley Co. Minneapolis

More Sophistication Required

We find that clients are demanding a higher degree of physical and visual comfort in their buildings. This requires more sophisticated systems, which in turn require more of the construction dollar, more space and more coordination between architect and engineer (Mechanical-Electrical-Structural). It will also require more coordination among the various Contractors.

That's enough comment for this next year. Let's take a look at what may be coming for future years.

All of us in the construction industry must make every effort to increase our overall efficiency to reduce building costs. I believe that if we don't, we won't have much of an industry left. It could, in a large part, be taken over by "package builders" developed by some other large industry. We in the design professions must make use of automated procedures to be able to do a better job without having to raise fees to a level which will seem unreasonable in the eyes of our clients.

To extend the limited supply of highly skilled labor contractors will need to use more prefabbed materials and more labor saving devices. This should prove to be a challenge to make it work rather than have some groups fight necessary changes. We must learn to use new materials without having to wait years for them to prove themselves (on someone else's job).

To keep our industry as it is, or with reasonable modification, we must learn to sell, we must improve our public image, we must work even closer as a team.

Glenn Gausman Gausman & Moore, Inc. St. Paul

Activity "Enormous" in Certain Practices

In our primarily commercial practice, heavy in multifamily residential high rise and garden apartments, shopping centers and industrial facilities, we are experiencing a period of enormous activity. This activity points to an expansion in all these facilities which is apparently being absorbed as fast as it is created, and thus we do not foresee a market saturation in the immediate future.

Quality is now apparently becoming a design parameter in the builder's sense of values, apparently owing to the increase in competition for the market at all levels.

Construction techniques, whether prefabrication or on-the-job are tending strongly toward cost-oriented systems which group elements into larger units, thus supposedly shortening the length of time required for construction and simplifying complicated procedures.

Especially in multi-family housing volume per project is far greater than it has been. Where the typical project was from twenty-four to fifty units in the past, currently multi-family projects run from two hundred to three hundred units in one or several buildings, with far greater emphasis on site planning and "added attractions" than previously. To some degree, certainly, this is brought about by greater attention to these details by the suburban planning boards but unquestionably the demand and therefore the dollars to pay for it are also there.

Probably a summary of all these remarks is simply that affluence and inflation together with the increased leisure developed through automation are providing our society with more goods and more time to appreciate both the practical and aesthetic qualities of these goods.

Benjamin A. Gingold, Jr., AIA Gingold-Pink Architecture Minneapolis

South Dakota Difficulties Overcome

Work in the commercial and industrial fields of architecture appears to have a very bright future, as does the governmental and institutional work. South Dakota had a temporary lag in this area due to financial limitations on local units of government but this is being overcome.

Raymond J. Hengel, AIA Hengel, Egge, Beedle & Associates Rapid City, S. D.

New Ulm's Growth Creates Work

We do not do much building outside of New Ulm so will confine our comments to local work only.

Our town is growing so consequently the need for new schools is increasing. It looks as though we will need an addition to the senior high school and either a new elementary school or else additions to the present pair. Providing that a bond issue can be passed, we look for at least one of these projects to begin in late 1969.

We have a small Lutheran College in New Ulm and we understand that they may build a new library or a dorm in 1969. This, again, is dependent upon availability of money in their synod.

New Ulm is in the process of setting up a Housing Authority and if all requirements can be met there is a possibility of a 100-unit home for the elderly being built. We doubt that this project could be ready for 1969 but we are sure that New Ulm will eventually have one.

Along with the steady growth of the city goes a need for new housing and already signs of new apartment unit construction are beginning to appear, to say nothing of the normal number of single family dwellings.

Recently it was announced that New Ulm has been recommended for a junior college. So again, depending on available state appropriations, it looks as though we can look forward to lots of building activity in that area.

Even though most of this new construction depends on one small item—money—we are optimistic about New Ulm's future.

> John P. Heymann, Jr. Heymann Construction Co. New Ulm, Minn.

Federal Expenditures Are a Key

We have seen a slow down in design activities during the last half of 1968, with fewer new projects starting. We believe it is tied primarily to the cutback in federal expenditures. We have seen it in our direct bridge design projects involving federal funds. We believe it carries over into the architectural projects, such as college dormitories, housing for the elderly and similar projects partially funded with government money. The architects would be closer to this phase of work than we are.

If this cutback in federal spending is the reason for some of the year end slow down, the government has succeeded in stemming the inflationary trend. We would expect this will hit the construction phase of the industry during the first part of the year and perhaps continue until federally financed projects now curtailed are released.

Willis A. Jacus
Jacus & Amble, Inc.
Consulting Engineers
Minneapolis

Manpower Shortage a Continuing Problem

It appears to us that the demand for new building may continue to increase. It also appears that there will continue to be a manpower problem, due to shortages in several of the building trades, particularly brick masons, carpenters, sheet metal workers, electricians and all mechanical trades.

There is another imponderable that may involve a serious problem in spring, '69 namely, the wage agreements which we negotiated in 1966 with the unions representing our seven basic trades run only to May 1, 1969, and some new agreements should be negotiated *before* that date if threats of delays due to strikes, etc., are to be avoided.

Dale F. Vogt Lovering Construction Co. St. Paul

New Products and New Methods

Major changes in techniques and development through research of a variety of products promise much to architects and builders. In our special field better walls and ceilings at lower cost in the coming year through use of lath and plaster are assured.

Among the most interesting are the new high strength plaster systems, particularly the veneers. They were developed to answer a need for a stronger, more durable wall which could be applied very quickly and without introducing excess moisture into a building. The significant development in the midwest area is that skilled craftsmen are now specially trained for this work and have the know how so that the architect and owner can be assured of good quality workmanship, and speedy erection. The new products are supplied by the major gypsum companies, which are helping to provide the job training and follow-up.

Another product gaining importance in the plastering trade is the exposed aggregate epoxy application allowing the architect complete freedom of design. These products are cast in place over various bases and used both as feature walls or accent panels. Their fine weathering characteristics and availability of colors are making them of increasing value in our industry. There are two of the largest manufacturers located in the Twin Cities area and each provides both architectural service and job inspections if necessary.

Soon to be seen in increasing numbers will be exterior wall systems of load bearing and non-load bearing metal studs. A large church just being finished in St. Paul Park is a prime example of the flexibility of design and the varieties of finish which can be achieved at a very competitive cost. There lathers build outside and inside walls with one framing to carry both finishes. Conventional methods of welding and tying made the job go very rapidly.

Manpower in the lathing and plastering industry should not be as great a problem as in many other fields of construction because the use of new materials and machines is now rapidly raising the productivity of each workman. The future looks bright and this is expected to help attract good young apprentices to the trades.

C. C. Fladland
Minnesota Lathing &
Plastering Bureau

School Construction Holds Down

Our practice at the present time is largely confined to the planning of educational buildings, which gives us a rather restricted look at the building picture.

We find four factors which are keeping the volume of school construction under what it could otherwise be. 1, Constantly increasing taxes are providing resistance to the passage of school bond elections. 2, The wealth of outstate school districts rests largely on farm income, which lags behind the income of industrialized and unionized urban centers. 3, The possibility of forced consolidation of small high school districts with larger high school districts is, in many instances, delaying planning and construction in both. 4, Recent innovations in educational systems have left school authorities reluctant to commit themselves to planning for a future which is confused and unclear.

However, since all four of these factors have been at work for some time, we expect this coming year to be as good as the last.

> Bruce R. Church Pass, Rockey & Church Mankato, Minn.

Money Availability Can Influence Work

From a purely personal standpoint the year 1969 will be an average year for our firm unless some private monies become available to those clients we have completed design work for. We have several private projects in the mill, which to this point in time are at a standstill because of high interest rates and slow money. I believe this will generally affect the architectural work in this area and will therefore slow down the building prospects for at least the early part of 1969. If, however,

some of the state projects now proposed are allocated funds and if some of the school bond issues are passed in this area, the picture could become somewhat brighter.

George S. Rutter, AIA Rutter & Kosir Architects Moorhead, Minn., & Bismarck, N. D.

Hold-back Factors Listed for North Dakota

We will endeavor to ramble on briefly, setting forth some of our own personal feelings in the event they might be of interest.

We do not feel the volume of work to be handled by the various architects in North Dakota for the next several years will be as great as it has been in times past. There might be some extremely large projects, such as shopping centers, which will influence the dollar total but taking these isolated projects out of the picture the statement just immediately preceding is an expression of our feelings.

The economy of North Dakota does not appear to be so structured that one can expect any big changes in the feeling expressed above. Population is on the downgrade, industry seems to shy away from this fine climate and without some improvement in these factors one just must wonder where construction demands will originate.

People of North Dakota are generally very, very conservative. School bond issues are failing right and left, which is not a good sign. There appears to be a general attitude of "wait and see." One hears many comments to the effect perhaps the federal government will have to step in in order to assist in the financing of schools as taxes just "can't go any higher." To some extent the writer agrees that taxes are extreme but I don't know that we need federal assistance to solve the problem. Perhaps instead a different form of a tax base, more equitable in nature, might change the income from this source.

For many years North Dakota has enjoyed the "privilege" of the right-to-work law. This privilege is still with us but nevertheless the labor union element is becoming more strong each year and spreading further away from the larger metropolitan areas. This, of course, will definitely affect the costs of construction throughout the rural areas in a manner that these people were not previously accustomed to. This is not to say the wage earner in these areas isn't entitled to a better living but costs of construction in rural communities will definitely be higher than before and I feel this will have a bearing on the amount of construction in these areas.

There appears to be more and more of a tendency toward the package-turnkey deal. Metal building people with their high-powered salesmen are influencing many buyers and there are literally millions of dollars of construction taking place that do not originate in an architect's office. Perhaps to confront this the architects and the major conventional building contractors will have to do more in the areas of promotion and even packaging in order to sell their services to the somewhat ignorant public. Financing also is entering this picture and there are those who just can not afford to pay out for a building but instead would prefer to acquire

same on a lease-purchase arrangement.

Conservatism of the good people in our area might also be a cause of apathy in the appreciation, or lack of it, of good architecture. There is a definitely strong feeling, when it comes to construction, that "it doesn't matter too much how aesthetically appealing a structure might be or how better one plan might function as compared to others but, rather, it is most important that it be *cheap*." In many cases this feeling is correct; the people just do not have the money or the basis of obtaining it in order to make a better situation even if they wanted it.

Name withheld on request

Cost Spiral Too Rapid

Relative to the prospects for 1969, work seems to be most sizeable in dollar volume though not necessarily too numerous in number of projects by actual count. Construction costs continue spiralling ever upward at a far too rapid pace. As a result, private work seems to continue downward while public work continues to increase.

Government subsidy is playing a greater role in the construction market and it is evident that this will continue for some time to come. Even the smallest governmental entity, to accomplish the minimum of building needs, often requires federal support to make it a reality.

Taxes, too, play a very large role in the construction outlook while private industry and business try to go the building route alone under private or public financing programs. Public financing has become quite popular and has lent a degree of support in spurring independent construction. As we see it for now the federal funding support is the big backbone of construction for 1969.

S. C. Smiley Minneapolis

Aggregates Becoming More Versatile

Trends in aggregates and related stone products are toward greater versatility.

In the aggregate business the trend has been toward decorative and border use of various aggregates. Generally the interest is toward white stone, which tends to gain a gray color when exposed to dust, smog and weather. More neutral colors serve the same purpose at considerably less cost.

Exposed aggregate in concrete is increasing greatly. Again interest is in color. Color is like a man's sex life, it's a personal thing, and what appeals to one person may not appeal to another. Locally available aggregates are less expensive than the imported and special aggregates. Locally available aggregates are shipped out-of-state because of preference over local supplies. Again pointing out the personal preference specification, which certainly is to be admired, the point is *locally* available aggregates can be used attractively as border decoration and exposed concrete and at considerably less money.

Interest has been shown in the use of crushed stone (dolomite or granite) for entrances or walkways which are exposed to our severe winter weather conditions. All locally available gravels have a small percentage of shale or spall content. While these gravels easily meet all ASTM specifications, even the best gravels contain spalls which will cause occasional "pop outs" and be distracting in these high traffic walk areas.

Concrete using crushed stone as the coarse aggregate has equal durability and is equal in every way to concrete with gravel as the coarse aggregate, with the added benefit of no "pop outs." These "pop outs" can result in a distracting appearance in areas where so much care is taken to given an attractive first impression.

More and more crushed stone base meeting specifications for Minnesota Highway Department specification 3138-Class 2 is being used. Crushed stone, with its high load bearing qualities, is gaining more acceptance as a replacement for sand and gravel base below bituminous surfaces. Economies can be made in thickness design which show a savings in construction. A base design manual produced in conjunction with Twin City Testing Laboratories and the J. L. Shiely Company using data from the Crushed Stone Association and AASHO is available free of charge to assist architects to design the most economical parking areas for the various type soil conditions. Crushed stone base not only can be economical in original design, but has proved more maintenance free than conventional sand and gravel bases.

Lowery J. Smith
J. L. Shiely Company
St. Paul

Backlog Has Built Up

The volume of new construction in 1969 is potentially greater than that of 1968. A considerable backlog has built up as owners have delayed their plans because of the increase in construction costs and the difficulty of obtaining suitable financing. Architectural activity will probably increase in '69 as owners accept the new costs and interest rates and proceed with their planning in anticipation of the availability of private funds or the release of additional federal funds. The situation in Vietnam is probably the key to a continuation of the backlog build-up or the substantial movement from planning to actual construction in 1969.

Norman E. Madson Sovik-Mathre-Madson Northfield, Minn.

Research Industries Aid Expansion

In 1969 I believe the Twin Cities' metropolitan area will increase its present rapid growth. The research oriented industries are feeding each other. Their growth is unrestrained. These firms are drawing young people from many surrounding states, creating a great demand for housing and better service industries. These same people have high incomes and are demanding many luxuries.

Plant expansion and housing for these groups will tax our industry. We feel this will increase the need for prefabricated building components. New materials and new techniques will lead the way in 1969.

David W. Hanson Spancrete Midwest Co. Osseo, Minn.

Budgeting Is Important

We certainly think it looks good for the year to come, at least from where we sit. The shortage of good help is certainly the big indication that everybody is busy.

Budgeting has to be the most important consideration. Prices change so much during the year or more time involved in getting the average jobs on the market. So many things influence the final price of our product.

Actual material selection is the next most important consideration. Naturally this affects a budget but of real importance is that we are not all trying to use the same materials and creating shortages which are unnecessary. My personal effort would be to design around a material selection, good material of course, but one that others are not likely to use because of their strong desire to do what others are doing. There is enough material shortage without all of us doing the same things. Good material distribution can also make a better use of our inadequate construction labor force.

W. C. Hendrickson, AIA-NSPE Stegner-Hendrickson-McNutt Brainerd & Marshall, Minn.

Public Work Strong

It appears to us that it should be just as good a year for the architectural profession as it was in 1968, especially for public work. Last week, as to our own work, one community passed its bond election by a goodly margin on a large high school development and we have a number of other public projects in various stages of development.

As to private work, the writer wonders whether the continuing inflation will slow it up, especially in connection with residential construction. Let us hope that the new administration will make a real effort to control this inflation situation or, at least, slow it down. Otherwise, we may eventually run into real trouble, both at home and abroad, as regards world trade which can affect all of us.

Gerald A. Anderson
Toltz, King, Duvall,
Anderson and Associates,
Inc.
St. Paul

Hands Full

This office and I believe the other architects in this area are looking forward to a very full and profitable year. Speaking for our own firm, we have our hands full in turning out the work contemplated and under contract for the area. We know of several large projects contemplated for next year that are being designed by Twin City firms and we anticipate a great deal of commission work which will be built next year. In closing let me say it looks like the best year of this decade.

Fred V. Traynor
Traynor & Hermanson,
Architects, Inc.
St. Cloud, Minn.

Trend Creates Optimism

Our backlog of work under contract is greater in dollar volume than ever before. The projects are quite large (by small office standards) and could well spill over into 1970. With the ordinary influx of smaller work, year 1969 could well be the banner year of years.

It is true that lending money rates are high, but it has not slowed down apartment building in our areas. Land costs increase daily, which is a good sign of an expanding economy. We look to the future with optimism.

William T. Wick
Wick Stansfield Kagermeir,
Architects, Inc.
Mankato, Minn.

Blank Period a 1969 Possibility

We feel that 1969 will be the starting point of a reduction in the total construction volume. The new administration's professed philosophy would indicate that the federal government will tend to enter less into local projects and yet be providing some of the funding. However, until the methods and organizations are worked out a blank period should ensue.

It is very probable that the spring of 1969 will be marked by strikes. The large wage increases obtained in the east, Detroit, Cleveland, etc., areas have raised the hopes of local labor. However, the election of Nixon has given management encouragement to try to hold

the line on wage increases. There is a good reason to believe that the next labor contract negotiations will produce strikes and be prolonged.

R. R. Young
Young Construction Co.
St. Paul

In Central Minnesota

To estimate what is going to happen in our area I must confine my remarks to the Central Minnesota area in general.

As I see the situation we are expecting a great growth for the next few years. This is confirmed by the Federal Reserve Bank reports and by the employment reports and Chamber of Commerce reports which I read. St. Cloud is experiencing a fast growth and much of it is a spill-over from the Twin Cities area moving in all directions. Our building reports indicate a heavy increase in permits and with the apartment house building expanding rapidly in our area we see lots of building to come.

Industry is moving in and our population growth is above the national average. I am of the opinion that the anticipated new International Airport for the Twin Cities (if located north) will improve our situation greatly. In other words we are looking forward to an increase in future building because of our community's being one of the fastest growing in the nation.

Name withheld on request

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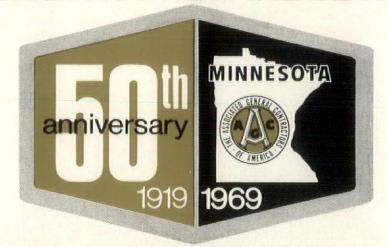
JANUARY-DECEMBER 1968		Ames, Robert L
January-February		Anderson, C. Vaughn
Saint Paul Today	27 66	Anderson, Leonard W
March-April		Architects Counseling Committee
Wisconsin Honor Awards	46	Block A Sketch J-F 46 Lowertown
May-June		Architecture as Form
Architecture as Form	40	Bassford, Edward P. Guardian Building, St. Paul J-F 36
July-August		McColl BuildingJ-F 58
Jonathan—Minnesota's New Town MSA Convention Preview	48	Berg, Charles
September-October		Farm Credit Banks Building J-F 47
Twelfth Annual Design Awards	19	Bergstedt, Wahlberg, Bergquist Assoc J-A 72
November-December		Bettenburg, Townsend, Stolte and Comb Saint Paul Seminary
The Osborn Building	60	Bettenburg, Philip G
North Dakota Honor Awards	68	Bofferding, James J J-F 72

Bowen and Kanazawa Girl Scout Troop House, East Troy, Wisc. M-A 25	North Central Wool Marketing Corp.,
British New Towns	Minneapolis
Brunner, Hoeffel, Bohrer & Associates Sacred Heart Benedictine Convent N-D 74/75	Grebner, Dennis W
Butler Company, Walter Federal Courts Building J-F 49	Griswold and Rauma Sanford Hall Addition, U. of M., MplsM-J 37
Byrne, Thomas R.	Anoka Public Library S-O 30
Editorial, Saint Paul Today J-F 27	Gropws, Walter
Capital Centre, St. Paul J-F 29	Gruen, Victor Dayton's
Cashwin-Goodwin & Associates Food Service Facility M-A 27 Wisconsin State University	Haarstick, Lundgren & Associates American National Bank
Cavin and Page Central Apartments, St. Paul J-F 58	First National Bank
Cerny, Robert G	Lewiston High School M-J 22/23
Cerny Associates	Hackner, Schroeder & Associates La Crosse Public Library
Churches	Hammel, Green & Abrahamson N-D 88 Capital Centre Plaza
Convention Center Architects and Engineers	Skyway Bridge
Block J. Apartments J-F 50 Civic Center	Vademecum Mfg. Plant. J-A 32/33 S-O 32/33 Jonathan Village One Center J-A 38/39
Cottle-Herman Architects J-F 73	Herbert & Associates, Charles
Crites and McConnell Convenant United Presbyterian	Office Building
Church, Danville, III	Cross of Christ Evangelical Lutheran Church, Coon Rapids
Cunningham, Benjamin J-A 45	Horton, Gilbert R
Computer Time Sharing Bldg J-A 30/31	Howe, John H
Damberg & Peck	Jacob, BernardM-J 18 M-J 60 N-D 40
Dimond Associates, Inc., Grover	Jonathan
YWCA	Keller, Raymond
Northwestern Nat'l Bank Bldg J-F 44	Kenneth, Robert L J-A 68
Charles Sommers Scout Service Center M-J 35	Korsunsky and Frank
Dormitories M-A 24 M-J 20, 21, 37	Krank, Ronald
Drews, Donald	Mails, Milaid
Durham, Robert L	Lammers, James I
Ellerbe Architects M-A 56 N-D 87 Technical-Vocational Institute J-F 53	Legislative Conference J-F 66 Washington
Northwestern Bell Telephone Bldg J-F 58	LibrariesM-A 26 N-D 70
Foreles James M	Lighting Design Award N-D 92
Fenelon, James M. S-0 53 Form M-J 18	Lundgren, Louis R
Foss, Engelstad & Foss	MCA Convention
Hope Lutheran Church Addition N-D 73	MSA Convention
Freerks, Sperl, Flynn	MSA Design Awards
Holy Rosary Church	Madson, John A
Giedion, Sigfried	Masqueray, Emmanuel L. Cathedral of Saint Paul
Gilbert, Cass Minnesota State Capitol	McNeish, Robert J
Minnesota State Capitol	Metropolitan Council
0.0	

Michelson, Val	Scott, Fitzhugh
St. Paul's Priory, Maplewood M-J 30/31	Milwaukee School of Engineering
Miller, Fred, Jr M-A 36 J-A 58 S-O 58	Dormitory
Miller, John R N-D 42	Seifert & Staszko Associates
Miller, William JS-0 42	Fargo Public Library
Minnesota State Capitol J-F 31	L. E. Berger Middle School N-D 72
Morgan, Brian R	Setter, Leach & Lindstrom
Morton, lan	St. Louis Park Medical Center J-A 60
Mutchler, Twichell & Lynch	Smiley, S. C
Twichell Residence N-D 68/69	South Dakota Convention N-A 60
Nemeth, Frank D	Sovik, E. A
Neuricha Dadasu F	Sovik, Mathre & Madson
Neujahr, Rodney E	Men's Tower Dormitory M-J 20
North Dakota Convention N-D 60	St. Olaf College, Northfield
Office Buildings . J-F 36, 44, 46, 58 M-J 25, 26	Women's Tower Dormitory M-J 21
J-A 30, 60 S-O 62 N-D 24	Good Shepherd Lutheran Church,
Dadies Learned	Moorhead
Parker, Leonard	Spitznagel, Harold
Westview Park Apartments, W. St. Paul M-J 32/33	Stageberg Architects
Dr. Goodman Residence, St. Paul M-J 36/37	Edina Evangelical Free Church M-J 28
Peabody, Arthur W	Sullivan, David RJ-F 76
Peters, Robert W	Summit-University AreaJ-F 54
Potter, Lawson, Findlay & Pawlowsky	
Life Saving Station	Tabler, William
Progressive Design Associates	Saint Paul HiltonJ-F 34
Moderate Income Living UnitsJ-A 34/35	Taylor, James Knox
Luthern Church of Our Savior S-O 34/35	Federal Courts BuildingJ-F 33
Rapson, Ralph	Endicott BuildingJ-F 37
Chateau Co-op Dining Club, Mpls M-J 34	Thompson, Harlyn N-D 87
Gourley Residence, Falcon Heights M-J 39	Thompson, James G
Better Homes & Gardens Red Cedar House	Thompson, Milo
1.00/07	Thorbeck, Duane
Rauma, JohnJ-F 60	Thorsen, WillardJ-A 23
Reidl, Joseph	Thorsen & Thorshov
Assumption Church, St. PaulJ-F 36	Solberg Dental Clinic, Mpls
Saint Paul TodayJ-F 29	Wedin, Winslow E J-A 63
Sample/Mullins, Inc.	Home Office Bldg, for Production
Public Safety Bldg., Whitewater, Wisc M-A 26	Credit Assoc, and Fed. Land Bk. Assoc.
Saski, Dawson, DeMay	Redwood Falls
Jonathan Cluster Houses J-A 40	Wisconsin Honor Awards
Schoening, John A	Wold, Clark
Schools J-F 53 M-J 22 S-O 20 N-D 72	Osborn BuildingJ-F 43, N-D 24

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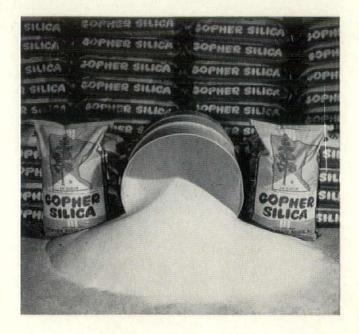
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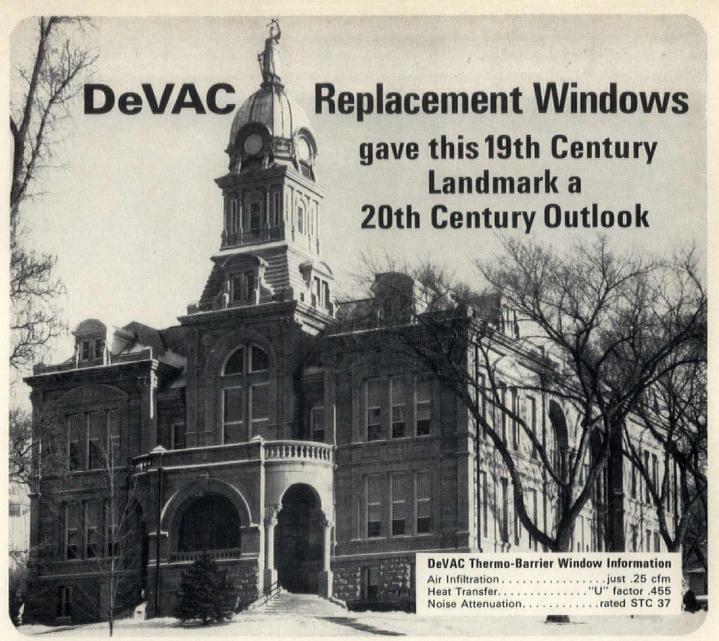


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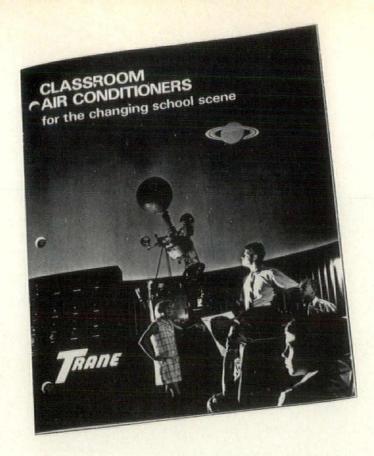
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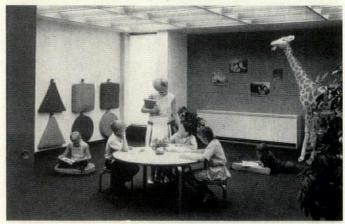
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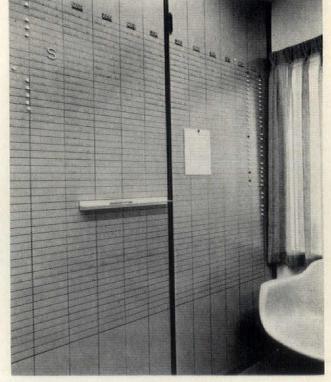
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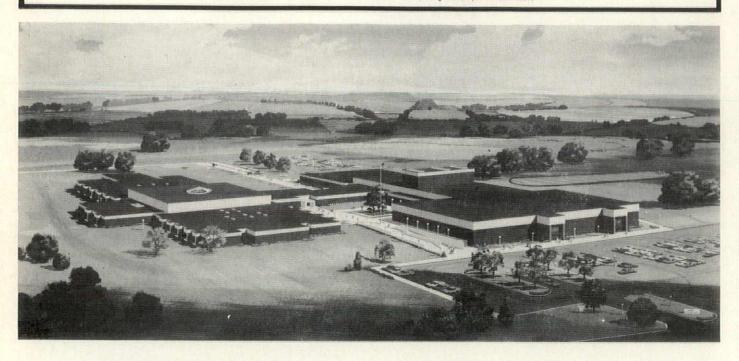
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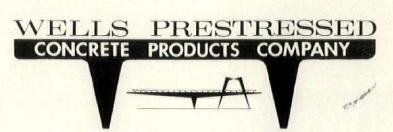
The \$4,300,000 Marshall Senior High School can be defined architecturally as a closed campus design. The various active and academic functions are collected into separate buildings and linked by an entrance area incorporating student locker banks where noise is isolated. The common roof over all the functions is modern prestressed concrete. Although the theme and structure suggested concrete, a study of other systems was made. Wells Prestressed Concrete was selected because it provided both an economic and structural solution to the problem of long clear spans required to obtain a flexibility that recognizes and provides for the rapid changes and advances in education.

The hub of the academic complex is the instructional materials center. By placement it invites and encourages student use and participation. The I.M.C. is also the electronic nerve center of the school. Audio and video programs, tapes and communications originate in or can be distributed from this center. Interior, vertical DT wall panels highlight the circular form of the

I.M.C. center. 20" and 24" DT roof units span the academic complex. The entire complex is designed in terms of flexibility. Electrical grids, flexible mechanical ducts for heating and cooling and demountable partitions on a 2 foot grid meet these requirements.

Active area features include a glass wall and reversible bleachers between gymnasium and nautatorium. Audio from the nautatorium provides for spectator contact. 24" DT's span the 62' pool area and 101' long x 42" ST's span the gymnasium. The 600 seat auditorium is divisible by moveable partitions into 3 lecture areas for large group instruction. The auditorium has a sophisticated stage where scenery can be flown. 32" DT's span the 80' auditorium.

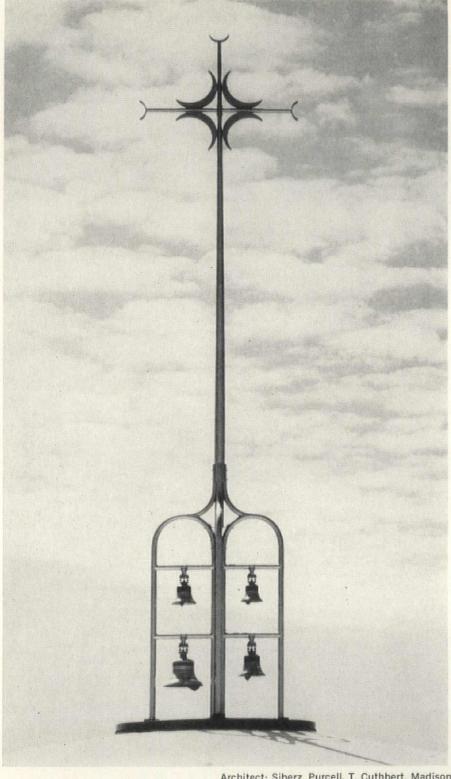
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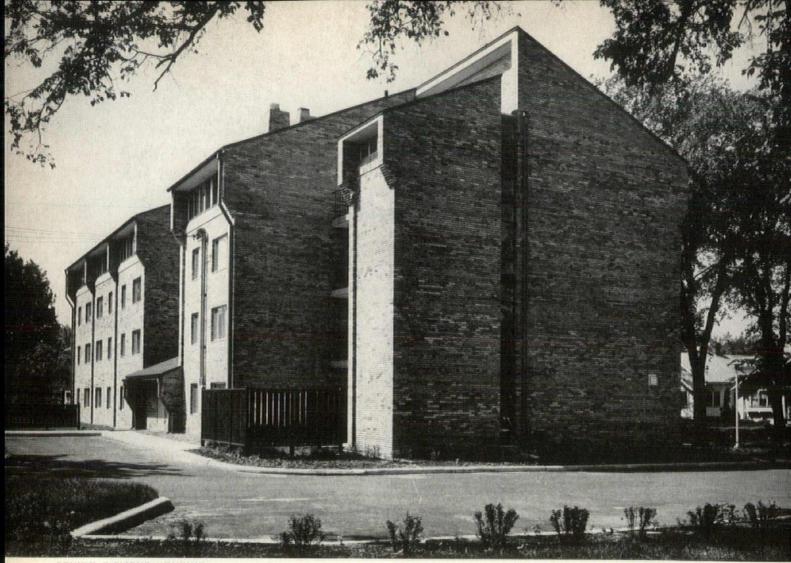


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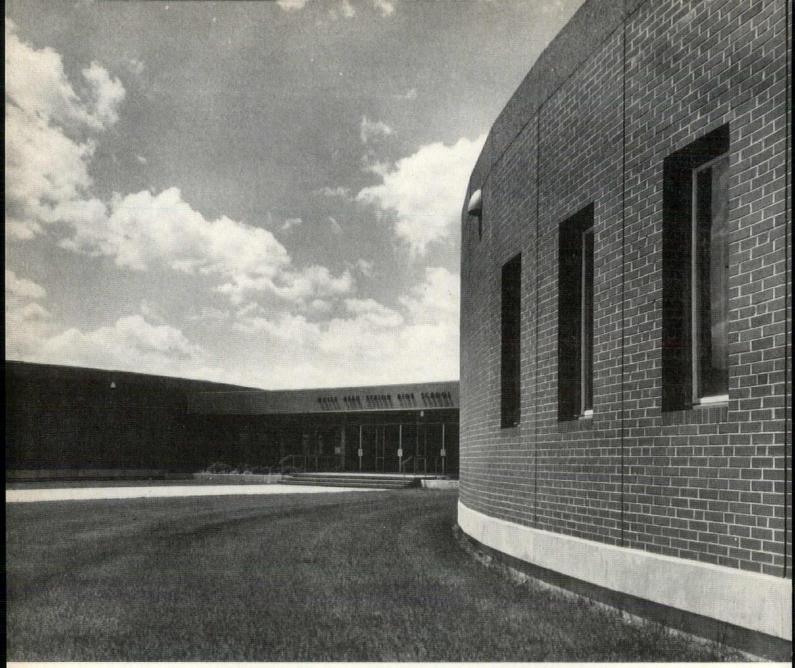
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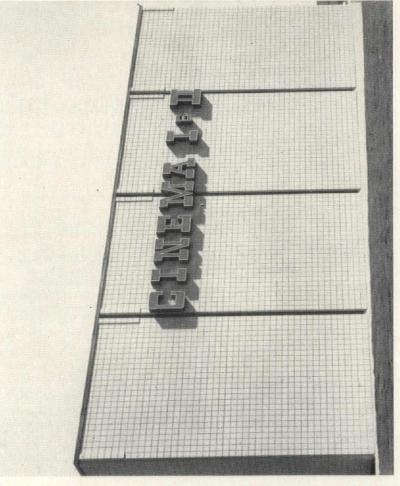
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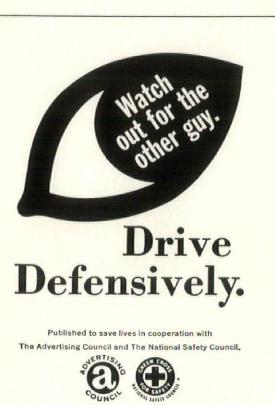
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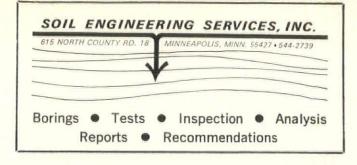
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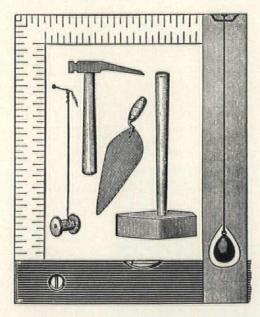
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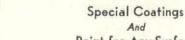
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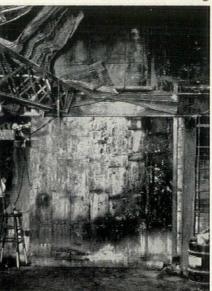
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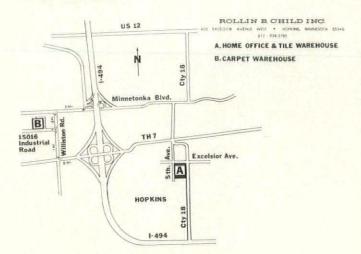
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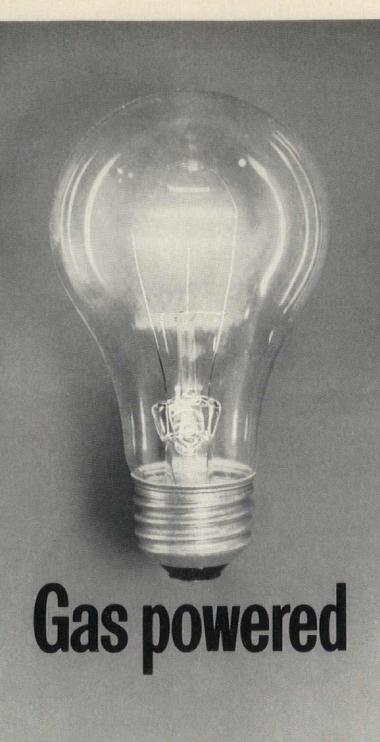


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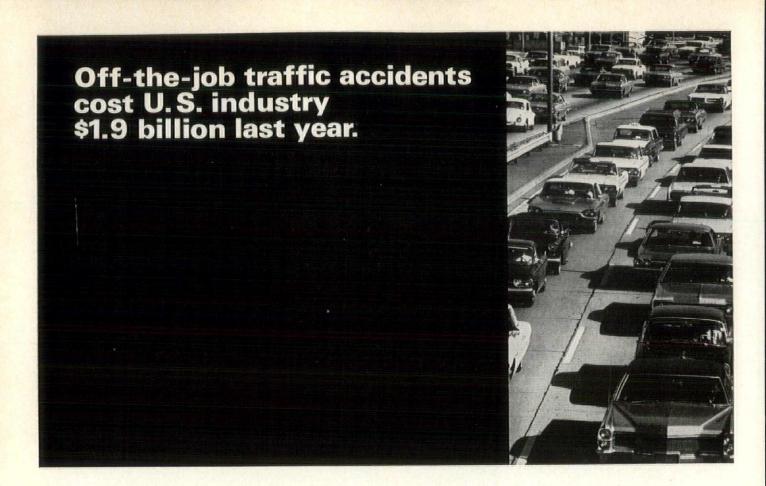
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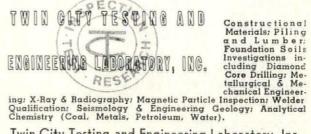
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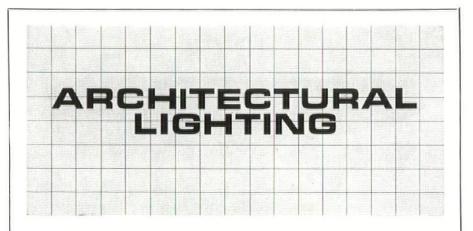
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INDEX TO ADVERTISERS

American Artstone Co, Andersen Windows Architectural Metal Association Arrigoni Bros, Associated Concrete	37 39 48
Bladholm BrosBMD&R, Inc.	
Carney Co	47
Oale Tile Co	$\frac{31}{46}$
ogelberg, Carl	48
Gohlke, George Gopher State Silica, Inc. Grazzini Bros. Co.	30
Hall Co., W. L Hebron Brick Co.	
nland Supply Co	46
Mahin-Walz Mankato Stone Co. Minneapolis Blue Printing	44 50
Minneapolis Gas Co	
Bureau Back Co Minnesota State Conference Molin Concrete Co.	45
National Electric Contractors' Association Neal Slate Co. Northern States Power Co. Northwestern Tile Co.	35 11
Ochs Brick Co.	42
Piping Industry Development Council Portland Cement Association Prestressed Concrete CoCover	44
R & O Elevator Co	
Snow Larson Co.	44
Soil Engineering Services Spancrete Co. Staples Co., H. W. Stremel Bros.	49
Spancrete Co	49 46 34 47
Spancrete Co. Staples Co., H. W. Stremel Bros. The Trane Co. Twin City Brick Co.	49 46 34 47 48



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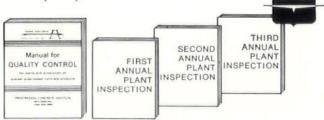
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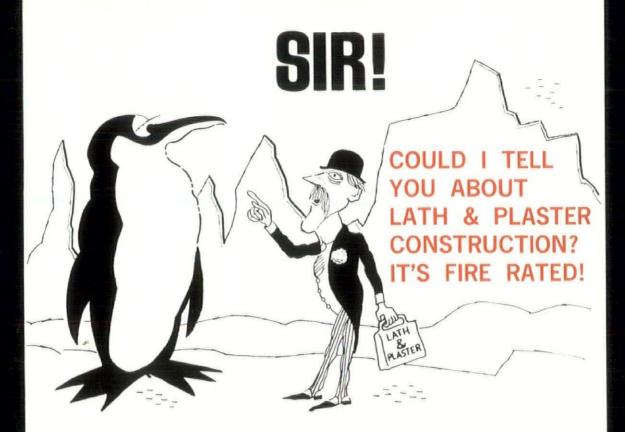
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