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Like to see some?

SCE Elects Officers

The Society of County Engineers of Wayne County (SCE) announces the election of officers and directors for 1967. The SCE is a professional organization restricted to graduate and/or registered engineers employed by the County of Wayne.

Elected for a term of one year are: Lawrence T. McElwee of Allen Park, President; Howard B. Tripp of Plymouth, 1st Vice-President; Robert J. Cummins of Detroit, 2nd Vice-President; Joseph H. Chance, Jr. of Detroit, Secretary; and Victor S. Olesko of Detroit, Treasurer. Two directors were elected for a 3 year term: Joseph T. Leonard of Grosse Pointe Farms and Stanley B. Patterson of Detroit. Currently serving unexpired terms as directors are Philip Epstein, John Kinnell and Alexander Radzibon of Detroit and William G. Sutherland of Riverview.

Muskegon Architects Form New Partnership

Robert J. Landman and Willis W. Andrews have announced the formation of Landman-Andrews for the practice of architecture, with offices located at 282 West Webster Avenue, Muskegon.

Associated with the firm of Bernard J. DeVries for several years, both Landman and Andrews are graduates of the College of Architecture and Design, University of Michigan.

Natives of the Muskegon area, they have been active in civic and public affairs and are corporate members of the Grand Valley Chapter, AIA.

“This Business of Architecture”

Lansing in '67 and “This Business of Architecture” are being planned by Bill Black and his Committee, for the 53rd Annual MSA Convention. The dates are April 12, 13 and 14, 1967 and the place the Civic Center in Lansing.

Three days of seminars with nationally known panelists discussing such topics as “Fee Schedules”, “The High Cost of Doing Business”, “Personnel”, “Public Works”, and “The New AIA General Conditions”, will highlight the working sessions for the continuing education of the architect and his staff.

Plan now to attend the 1967 MSA Convention in Lansing. Registration forms will be mailed soon.

Fire Safety Board

In January Governor Romney appointed members to the new State Fire Safety Board. The Board is charged with the responsibility of making and adopting reasonable and standard rules pertaining to Fire Safety requirements for schools, nursing homes and homes for aged persons. Also the Board shall act as a Hearing Body to review and render decisions on any contested case involving any of the above occupancies.

This Board is the result of consolidated efforts of your fellow Architects, School Administrators, School Boards, Nursing Home Association, Home for the Aged operators, Material Suppliers, and Construction Trades people.

Since January the Board has become operational and may be contacted as follows:

STATE FIRE SAFETY BOARD, 714 S. Harrison Road, East Lansing, Michigan 48823

A procedure for appeals has been set up and several hearings have been held. The fourth Wednesday is established for hearing appeals that have been placed on a prepared agenda.

The Board is in the process of examining the existing codes for schools, nursing homes and homes for aged persons. We have heard requests for changes in the code from the Nursing Home Association. Many of you have received a request for information and help from the Detroit Chapter’s Schools Committee. If you have not responded please do so immediately.

Revisions in nursing homes and homes for the aged regulations will soon be ready for adoption and promulgation. The target date for school regulations is November 1966.

If you have any matters you wish clarified or changed, please notify the Detroit Chapter’s School Committee, the MSA office, the State Fire Safety Board or myself, your MSA member on the Board.

William J. H. Kane, A.I.A., 520 Cherry Street, Lansing, Michigan 48933

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Attorney General Rules on Sealing of Plans

The State Board of Registration has been concerned for some time regarding architects sealing engineering plans and professional engineers sealing architect plans and surveys and plats to be sealed by registered land surveyors.

This matter was taken up with the office of the Attorney General with the ruling opinion dated July 31, 1945, that a separation must be made so as to require the architectural plans to be sealed by registered architects, engineering plans to be sealed by registered professional engineers and land surveys and plats to be sealed by registered land surveyors.

The official notice reads as follows:

Building Plans: Nothing in this act shall prevent any owner from doing any of the architectural, engineering, or surveying work mentioned herein upon or in connection with the construction of buildings on his own property for his own use, nor be construed as preventing a person not registered under this act from planning, designing or supervising the construction of residence buildings not exceeding 2,500 square feet per building "calculated floor area."

For the purpose of this act "calculated floor area" shall mean that portion of the total gross floor area, measured to the outside surfaces of exterior walls that is intended to become habitable, including heating and/or utility rooms. For the purpose of determining the "calculated floor area" the following spaces will not be considered: (a) crawl spaces, (b) unfinished and nonhabitable portions of basements and attics, (c) garages, (d) open porches, balconies and terraces.

After this act becomes effective it shall be unlawful for any public official of this state or any political subdivision thereof to accept as a public record or for filing as public record plan, specification, report or land survey which does not bear the seal of a registered architect, registered professional engineer or registered land surveyor as required by this act, except for public works costing less than two thousand dollars or residential buildings containing not more than 2,500 square feet of calculated floor area as defined herein.

On July 31, 1945, the Attorney General's Office in their Opinion #0-3801 wrote as follows: "We are of the opinion, in accordance with the statute above set forth that a separation must be made so as to require the architectural plans to be sealed by registered architects, engineering plans to be sealed by registered professional engineers and land surveys and plats to be sealed by registered land surveyors. We do not believe that it was intended by the legislature that the above terms should be used interchangeably or synonymously.

The Enforcement Division of the State Board of Registration for Architects, Professional Engineers and Land Surveyors may take action against anyone issuing a Building Permit when they are in violation of Act 240 P.A. 1937 (as amended).

This opinion from the Office of the Attorney General was received by the State Board of Registration for Architects, Professional Engineers and Land Surveyors on October 3, 1966.
Do your workers waste valuable time because they are cold?

Dock workers could dress warmly enough for the outdoors — but then they'd be too warm after re-entering a heated building. Or they'd lose valuable time slipping in or out of a coat.

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That way men can work comfortably, even in shirt sleeves, on a loading dock while the air temperature two feet away may be below freezing.

Quartz lamps radiate heat like the sun. Electric radiant energy warms only the objects it strikes, not the air. Warmth is instantaneous — there's no waiting for warm-up even after a cold night. And when quartz lamps are on, they light the area, and keep it free of snow and ice.

Comfort heating with quartz lamps can be used for large open areas, such as loading docks. Or use the lamps for spot heating or wherever warm air heating is inefficient or ineffective.

Improved efficiency of the workers and safety have paid for radiant heating installations.

Want to hear more? Good. In the Metropolitan Detroit area, call WO 2-2100, ext. 2861. Elsewhere, call your Edison office.
Omission

The name of Mr. Richard C. Frank, AIA, was inadvertently omitted from the report of the Committee on the State Capitol which appeared in the December issue of the Bulletin. We sincerely regret this omission for the work of Mr. Frank as Chairman of the Committee and his preparation of the material for the Bulletin should be recognized. Our apologies to Mr. Frank and our thanks for a job well done. RMB

Classified


Announcement

The 1967 Spring Term of the Architectural Trades Estimating School operated by the Builders Exchange of Detroit begins Wednesday, February 8, at 6:30 p.m. Registration will be at 1351 East Jefferson, Detroit, the Exchange headquarters. For details of eligibility and enrollment forms please call Woodward 2-5500.

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January, 1967 | 7
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LET'S STANDARDIZE

Quality control tests have always been made to assure the manufacturer that his products are up to standard and the buyer will be getting what he pays for.

Although test cuts have been made on built-up roofing to analyze a failure, it has only been in recent years that a new thought has come to the fore. That of having the cut made BEFORE the failure might occur. How it helps make a better roof is debatable because there are no A.I.A., M.S.A., C.S.I. or A.S.T.M. nationally recognized standards to follow.

In the absence of such standards we suggest the following procedure be given serious consideration:

1. Do the inspection VISUALLY at the job site.
   - On-the-scene observation of the application is your best method of quality control.

2. Take the cut BEFORE the final pour coat and aggregate are applied.
   - Allow the contractor an opportunity for immediate correction while his equipment is still on location.

3. IF a cut is desired take one that is 36"x4" rather than one 12"x12" which is now being done.
   - This size will allow your field man to count ALL the plies and see possible "voids."

4. Have ONE cut per 50 squares taken.
   - Under present methods the results obtained from a 12"x12" cut are multiplied by 100 to ascertain what lies in a certain area of the roof. Why take more cuts than are needed and leave the roofing susceptible to possible future problems?

5. Inspect, replace the sample and immediately approve the work done up to that point.
   - Why waste valuable time waiting for a lab report to be returned when you already know the number of plies and the amount of bitumen that have been applied?

6. Be SELECTIVE in your choice of contractors.
   - For GUARANTEED work specify R.I.P.F. contractors

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Memo...

Building Material Manufacturers and Suppliers

Reservations are now being taken for Exhibit Space at the 53rd Annual MSA Convention, April 12, 13, and 14, 1967

Civic Center
Lansing, Michigan

Call or write the MSA Office, 28 West Adams, Detroit 48226 for details and floor plan.
Telephone: (313) 965-4100

LANSING IN '67
A customer usually gets his first impression of a store from the parking area. That's why Hudson's Budget Store on Michigan and Greenfield Avenues in Dearborn wanted that impression to be a good one—no holes, no cracks, no bituminous break-up in the paving.

The Slag base and Slag-asphaltic bituminous construction was installed by R. A. Cousino Co., Dearborn. They didn't find it difficult. When you specify a proper base, the rest is smooth going. If your projects involve asphalt paving, check Asphalt Products Corporation. Our motives are 'base' but you'll be happy with the results. Besides technical assistance, we also furnish all standard asphaltic mixtures. There's a plant near you.
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Membership in the Michigan Society of Architects includes all Corporate members of the American Institute of Architects assigned by the Institute to A.I.A. Chapters in Michigan and The Michigan Society of Architects and all Professional Associate and Associate members of the eight A.I.A. Chapters in Michigan.

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January, 1967
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14 | Monthly Bulletin, MSA
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22 | Monthly Bulletin, MSA
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January, 1967 | 23
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January, 1967 | 25
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In order for a building material to excel, it must be durable, simple, versatile, economical and readily available. Duo-Wire encompasses all these advantages to better serve all four members of the building team, architect, engineer, contractor and building owner.

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Duo-Wire is basic in concept, using the straight cross-rod rectangular design, which yields greater economy and increased strength.

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- Duo-Wire is sold and distributed exclusively through your local masonry products manufacturers.

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Nowing the value of horizontal joint reinforcing and recognizing the need for versatility as well as simplicity of design in this product . . . Duo-Wire today, is the core of better mortar joint reinforcement where strength, permanence and appearance are an essential in quality masonry construction. Duo-Wire offers architects and engineers a durable, single self-contained cross-wire welded unit for reinforcing all types of masonry construction. Fabricated in three gauges, five widths and two finishes of the highest quality domestic steel with tensile strengths that exceed all existing requirements for reinforcing masonry walls. To the contractor, Duo-Wire means rapid installation because it is light weight, rigid, yet easy to form on the job site. It is packaged for convenient one man handling and sold and distributed through our local masonry products manufacturer. The building owner gains, because the use of Duo-Wire minimizes cracking, therefore maintaining the value and beauty of his building . . . Always specify Duo-Wire for better masonry wall reinforcement. There is a gauge, width and finish for every form of masonry construction. Weather-free warehoused . . . kept clean and ready for delivery.
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DUO-WIRE EXCEEDS SPECIFICATIONS • A.S.T.M. specification A82-61T (high tensile), A.S.T.M. specification A116-57 (galvanized), National bureau of Standards (report #3079), U.S. Corps of Engineers, Federal Housing Administration, Federal Specifications Code QQ-W-461e, and the Concrete Products Association of Michigan. Technical Series index number 4.08.55. Specification numbers 403.1—403.2—403.3.

GAUGES, WIDTHS AND FINISHES • Duo-Wire is fabricated in THREE gauges, FIVE model widths and TWO finishes of the highest quality domestic steel. Other gauges and widths furnished on request. Duo-Wire TYBRICK data is not listed.

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<th>DIMENSIONS</th>
<th>STANDARD</th>
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<tr>
<td>NOMINAL WALL THICKNESS</td>
<td>DUO-WIRE OVERALL WIDTH</td>
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President’s Report

PRESIDENT’S REPORT

To gain the interest of the reader, a news article should begin with a very good lead line—something interesting that catches and holds the reader’s attention. On the other hand, an annual report usually has a rather stilted beginning and remains dry and formal throughout.

This is a news story and not an annual report, because the items covered are news of the progress of M.S.A.—news of the Architectural Profession in Michigan.

Many of these news items are as yet incomplete, that is, the work is still in progress, and the news story is only an interim report. Some of the items represent the final report on the culmination of years of work by M.S.A. Boards and Committees.

Taken together, these brief progress reports give a sketchy, but rather accurate picture of the continuing work and growth of the Michigan Society of Architects.

In this period of changing concepts in the practice of Architecture, completion of either the work or the growth of M.S.A. would be undesirable. Each year the officers and the board inherit old problems and acquire new ones; old concepts are re-evaluated and new concepts are developed; obsolete services are abandoned and valuable new services to the profession are instituted. This is as it should be if M.S.A. is to continue to serve the profession.

This service “to” the profession must also be “through” the profession. Committees must be given positive charges and members must make these committees work. The staff and officers must receive significant help from individual members and chapters. Needed new projects must be undertaken, especially in areas of education, legislation, and registration, and new ways must be found to finance this work. M.S.A. must become the voice of the Profession in Michigan, not only within the profession, but in the eyes of Government, allied professions, and the general public.

Quoting from the Florida Association of Architects, “We face basically the same each year—responsibility for the profession—communication with the profession—education of the profession—improvement of the profession—image of the profession.”

This then, is an M.S.A. news report, covering the following major items of Board and Committee action.

Registration and Education

This committee was combined for the first time and instructed to begin to solve problems of our current registration act and to develop a program for total architectural education. A joint committee was later formed with M.S.P.E. to explore common ground in hopes of developing a new Registration Act.

The committee has placed special emphasis on developing programs for education of Architectural Technicians and for allied design professionals.

Legislative Matters

The M.S.A. officers and board were called on to express the Society’s opinion on numerous proposed pieces of Legislation affecting the profession, some insignificant and some of considerable consequence.

We were unsuccessful in our joint attempt with M.S.P.E. to prevent the licensing of Registered Community Planners under an entirely separate board of registration. However, we have high hopes that this new 5-man governing board will include one member who is an Architect and one who is an Engineer.

In the area of the Statute of Limitations, our efforts to secure an amendment to the revised Judicature Act of 1963 died in committee. This was due to a conflicting court decision regarding malpractice of doctors issued last June and the pressure of urgent legislation at the end of the last session. We now have a proposed statute ready to be sent to the drafting room and introduced early in the new Legislative session.

We were successful in securing creation of a State Fire Safety Board, whose membership includes a M.S.A. member; and the passage of a State Housing Law. And we helped defeat a bill to abolish the Registration Act for Architects, Engineers, and Land Surveyors, as well as several minor bills relating to the labeling and use of construction materials.

As a culmination of several years work, M.S.A. has employed M. Les Butler as a legislative advocate and
representative in Lansing, and we look for continued improvement in Government liaison and relations.

**Special Projects**

Our very successful Honor Awards program will be improved and continued in the area of education, M.S.A. co-sponsored seminars in City Planning and Environmental Control. It is our hope to participate in more short course educational seminars in the future.

M.S.A. and the Michigan State Historical Society are in the process of jointly publishing an illustrated booklet, "Michigan Historical Buildings."

**Monthly Bulletin**

Under the capable guidance of our new editor, Mr. Robert Beckley, and managing editor, Ann Stacy, the "Bulletin" has continued its climb to success — editorially, graphically, and financially. It received several citations for excellence of context and graphics in the Institute's competition.

**Conventions**

In both number of registrants and amount of profit to the Society, the Mid-Winter and Mid-Summer Conventions were among the best that M.S.A. has ever had. (Profits from conventions are derived from fees paid by exhibitors and are used to subsidize other vital M.S.A. programs.) The Board feels that a continuing effort must be made to secure programs of greatest interest and value to the profession for presentations at conventions.

**State Capitol Study**

In answer to a request from the State Senate Joint Capitol Outlay Sub-Committee, an M.S.A. Committee prepared a well documented and thorough report on the architectural and historical significance of the State Capitol Building. This report was the basis for M.S.A.'s recommendation to the Senate Committee that the State Capitol be preserved as an historic building and restored in the future for its most appropriate and best use.

**Exhibits**

M.S.A. Committee is continuing work with the Association of School Boards, the Association of School Administrators, and the Hospital Association to develop standards for architectural exhibits at their conventions to insure proper handling, professional quality, and a dedication to the improvement of Architecture as a whole.

**Government Relations**

Relationships between M.S.A. and the various departments of State Government have probably never been on a higher or a more receptive level. This is certainly due to a continuing effort by Boards and Officers over the past several years, and we hope that this association will continue to progress in future years. No doubt the effort will be aided by our constant representation in Lansing in the person of Les Butler.

Lieutenant Governor William G. Milliken was the principal speaker at our Mid-Summer Conference, and finished his inspiring talk with several challenges to M.S.A. to develop a state wide action program aimed at improving Man's Environment. We have accepted these challenges and are currently in preliminary planning stages on a Governor's Conference on Man's Environment, and the creation of an environmental design commission.

**Coordinating with State Fire Marshal**

This very active committee, together with other committees of professionals from the building industry, and the State Fire Marshal, developed the brochure "Clarification of Rules Regarding Fire Dampers", which has been sent to all practicing Architects.

They are currently working with the State Board of Fire Safety in a major effort aimed at re-writing the Fire Prevention Section of "School Bulletin 412." When this has been completed, they hope to revise or re-write the Fire Safety Codes relative to hospitals, nursing homes, places of public assembly, etc.

They need the continued cooperation and written suggestions from each M.S.A. member.

**M.S.A. Office**

After the resignation of James B. Hughes, as Executive Director, the M.S.A. office was re-organized and is now under the capable direction of Executive Secretary, Ann Stacy. Robert Beckley was employed as "Bulletin" Editor and Chuck Irvine was made Advertising Director.

The office continues to institute programs to better serve the profession, and is always available to individuals, firms, or chapters for consultation or help on any specific problem.

**By Laws Revision**

It is the plan of the Board to have ready for membership vote at the April Convention in Lansing, a completely new set of By Laws for the Society.

A committee under the M.S.A. Secretary has been working toward this end for nearly a year. The major goal is to adopt a brief but flexible set of By Laws which are in keeping with current M.S.A. operating procedures and reflect M.S.A.'s status as a Region of the American Institute of Architects.

**Financial**

Due to the dues increase approved by the membership
a little over a year ago, and to the continued support, through sustaining membership, by firms throughout the State, M.S.A. is currently in a stronger financial position than it has been in recent years.

This financial strength is essential to an effective State Organization, and has allowed employment of our new “Bulletin” Editor, our Legislative Advocate, and special legal counsel, as well as the establishment of new programs to serve the profession.

In the very near future, this financial strength should allow a great M.S.A. effort in such areas as scholarships, public relations, continuing education seminars, short courses, and other special projects.

Fee Schedule

M.S.A. Committees are working to achieve unanimous acceptance of the fee schedule published in Document M.S.A. 65-8, “Architectural Services” by all boards and municipalities and potential clients throughout the state. Committees are also currently working to update all fixed agency fee schedules in the state, including the State of Michigan Fee Schedule.

Allied Professions

The changing practice of Architecture forces closer coordination and cooperation of all the various design disciplines involved in creating “Man’s Environment.” This closer cooperation has been felt on the level of State Societies as well. Architecture is no longer an ivory tower profession and the attitude of the M.S.A. Board has reflected this feeling.

Throughout the past year, we have had very close cooperation with allied professional societies and with the State Board of Registration. This cooperation must increase in years to come.

Due to this close cooperation between societies and with the State Board, and, after a thorough study, both M.S.A. and M.S.P.E. withdrew from APELSCOR, in the belief that there was no longer a need for an intermediary in our dealings with each other and with the State Board.

With these notes, I turn over the job of President of M.S.A. to “new talent and new ambition.” For me, this has been a very challenging and rewarding year, and in many respects I hate to see it pass. The job of President of M.S.A. brings with it an ample amount of honor and prestige, which anyone would enjoy. It also brings work — enough for a full time job. It therefore becomes necessary to evaluate the work which could be done and concentrate your efforts on the areas which are the most crucial and of the greatest general interest to the profession. This I have tried to do, and preceding brief reports indicate the chosen areas and the effectiveness of the M.S.A. Board and Officers. I am deeply indebted to the Profession for allowing me to serve for this year.

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Cavanagh Urges Drive For 'Rebirth of City'
'Crisis of the Cities' — What Role for Business?
A Company Like Comsat To Battle Slums Is Urged
Space Men Design 'Super City'

Ever since President Johnson's "Great Society" speech and the formation of the Department of Housing and Urban Development, hopes have been high for a concentrated effort from the federal government directed towards improving our urban environment. The architectural profession and the AIA have been anxiously waiting to take part in the "great effort" to create a "great society", but will they be asked to participate in the rebuilding of urban America?

The above headlines have all appeared in newspapers within the last few weeks. They represent news from many events dedicated to one topic, The City. The events which prompted these captions present both a promise and a threat to the architectural profession. The events included a meeting of the National League of Cities, Detroit Mayor Jerome P. Cavanagh, President; a continuation of the U. S. Senate's hearing on 'urban problems', a proposal by a group of private and government "experts" to the Department of Housing and Urban Development, and a presentation made to the American Institute of Aeronautics and Astronautics. The topic is a common one, The City. The discussion, however, is indeed new.

Mayor Cavanagh has observed that the amount of federal funds being spent in urban areas is sadly inadequate and disproportionate to other federal spending. We are spending 16 times as much money on the war in Vietnam as we are on the war on poverty. We have committed $70 Billion to put a man on the moon by 1970 and a similar commitment has been made for interstate highways. By comparison, federal assistance to the 38 American cities which have been faced with major racial disturbances is virtually nonexistent. Mayor Lindsay of New York City has likewise criticized the lack of financial assistance being given to cities by the federal government. The continued criticism of men such as these should do much to make the President and Congress consider seriously their promises of federal assistance in solving the urban dilemma.

Meanwhile the Administration is "rumored" to be considering a plan to set up a nationwide, non-profit corporation which would merge the ability of Government to finance rehabilitation with the ability of private enterprise to carry out the work "on a large scale." Senator Robert F. Kennedy is already in the process of establishing a local version of this plan by developing a semi-private corporation in a New York slum area "to rebuild houses, improve medical services and education and put to work the indigent neighborhood residents."

A similar proposal has been presented to the government for development of a "Comsat" for housing. "Comsat," Communications Satellite Corporation, is a quasi-public body established by Congress to advance space communications. Its housing counterpart would be the Urban Development Corporation which would presumably be headed by the housing secretary and "a distinguished roster of industry, labor, academic, and government leaders." (Please note that neither architects or planners are mentioned.) Advocates of this program have outlined a program which might be carried out in the next decade. "The target for 1977 would be the rehabilitation of 656,000 existing slum units and the construction of 4,344,000 new units — five million in all which supposedly is the number of "substandard" dwelling units in the country.

At an average of $10,000 a unit, it is claimed the entire job could be accomplished for $50 billion. The present estimated cost per unit is $16,000 but it is expected the cost could be reduced by half in a decade. This expectation is based on the hope that such a corporation's ability to guarantee markets will encourage mass production and cost-reducing technological innovations; something architects have advocated for a long time but have never been able to implement. The gradual reduction in costs also presupposes major improvements in antiquated building codes and the elimination of restrictive and time-consuming labor practices.

"Space Men Design 'Super City'.” It is no secret that the people of HUD have been talking with the space industry concerning urban problems. It is also quite clear that the space industry is interested in directing a part of its problem-solving and technological abilities to the problems of cities. After all, the city is only a very large "life support system." The "super city" designed by two space scientists is not perfect, and is in fact rather naive, but none can deny the technological capabilities which have been developed by the space industry.

What does all this imply for the architectural profession? Perhaps, of greatest significance is the size of the programs which have been discussed; a $50 billion housing program, a national Urban Development Corporation, national changes in building codes and labor practices and a highly disciplined industry which has already shown it can expedite the solving of very large problems. I am sure the architectural profession has not been purposely excluded from consideration of problems of this magnitude, but neither has it been included. These programs do not envision the rebuilding of America one building at a time.

The architectural profession need not be excluded from the very high level considerations being given urban problems right now. But, if the profession wants to be included it must offer some ideas of its own. What changes can be made in the building industry to improve building quality and lower building cost? What changes can be made in our political and legal structure which would help to encourage the building of a better environment? What kind of environment should we be able to provide to the inhabitants of the "Great Society"? The architectural profession should be able to offer the answers to these questions and others concerning the urban environment, and we should make it clear to everyone that we are interested in answering these questions, for if we don't, someone else will.

Robert M. Beckley  EDITOR

January, 1967 | 37
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BUILDING TECHNOLOGY

THE ROLE OF GRAVEL AGGREGATE IN MODERN CONSTRUCTION

Gravel aggregate has become a 20th century "Cinderella." What was once a rather dull and unromantic bulk commodity has become a principal component of sophisticated structural elements—a semiprecious gem in decorative motifs. The responsible gravel producer of today has equipped himself with both the machinery necessary to provide the selection of products required for modern construction. Often, obtaining what your project requires, however, is facilitated by a knowledge of materials readily available. What follows is a generalized description of the principal gravel products available in the Detroit area, how you may expect them to look, perform, and those features of local materials that should be incorporated in aggregate specifications.

BACKGROUND:
The ever-growing list of tasks which gravel performs unquestionably accounts for the industry's remarkable growth. A recent publication of the National Sand and Gravel Association states: "There was probably little processing of the materials until late in the 19th century." As a matter of fact, until the era of World War I when the National Association was established, the industry had essentially two products: gravel for roads and gravel for railroad ballast. The extensive use of Portland cement concrete and bituminous concrete has brought about major changes and, from a relatively insignificant status of horse-drawn scoops and sales by the bushel, it has, in a span of 50 years, emerged as the largest mining industry in the United States and growing larger every year. For instance, in 1962, the Executive Director of the American Society of Planning Officials stated that by 1992, the sand and gravel industry would have to be producing one billion tons annually. Just three years later that staggering sum was already a near reality. You may wonder just what one can do with a billion tons of gravel. Well, for one thing, a billion tons represent enough concrete aggregate to build an expressway from Detroit to San Francisco that would provide motorists with 68 lanes for each direction.

For all its versatility, and in spite of the great demand for this product, gravel remains a very low priced commodity. The average value of all the material produced in the 50-year period prior to 1966 was about $1.31 per ton. Last year the national average value was only $1.31. Thus, the value of America's largest mining product is often far less than the cost of transporting the material to a consumer.

ORIGIN:
Fortunately, the glacier provided a fairly substantial supply of gravel locally. Michigan boasts two of the largest pit operations in the world. As the ice sheet that extended from the upper regions of the North American Continent began to recede, great quantities of sand and gravel were deposited in...
its wake. The glacial ice was often several thousand feet thick and moved with sufficient force to entrap and carry, in its forward progress, vast quantities of rock material. In the process of moving, it was ground to varying sizes and shaped to the roundness characteristic of gravel aggregate. The "Out-

wash Plain" deposit is one of the types to be found in this part of the United States. It was formed when warming trends developed and the ice began to melt and retreat northward. Swift moving glacial streams were formed and these distributed materials released by the melting ice over broad, relatively flat areas called outwash plains.

Unfortunately, the glacier was totally indiscriminate with respect to sizing, color, or the mineralogical make-up of the gravel deposits it formed. Often, the removal of overburden and processing required to make the raw gravel in a given deposit suitable for commercial use exceeds the limit of economic feasibility. Thus, the presence of large quantities of sand and gravel is no assurance that it can be used.

WORKING THE DEPOSIT:
Almost every gravel deposit is covered by some overburden that must be stripped before the gravel can be removed. Its depth may be 30 inches or 30 feet and from what has already been stated concerning the dollar value of this product, there are obviously limits to the amount of stripping a producer can afford in order to reach the gravel. Figure 6 shows one type of equipment used for stripping operations in this area. This machine can carve out a bite of 30 cubic yards in a single pass and will dispose of 1,750 yards of overburden in an eight-hour shift. Once the gravel is exposed, various types of equipment may be employed in removing it. In Figure 7 a large dragline is taking gravel from a stripped area.

This 500-ton monster is equipped with a nine cubic yard bucket on 165 feet of boom and can excavate about 750 tons of gravel per hour.

Moving to another part of the same huge pit where gravel runs well below the water table, removal of gravel is accomplished with suction dredges. Figure 8 shows three floating dredges spraying the wall of sand and gravel in front of them with a heavy stream of water. When saturated, the bank will collapse and slide to the bottom of the lake where the dredges' suction lines can pick it up. Equipment of this type "vacuums" the bottom of the lake with a line that is 20 inches in diameter. Synchronous motors rated at 1,000 horsepower drive the main pumps that lift as much as 1,000 tons of gravel from the lake every hour.
Raw material from the pit is transported to a processing plant by the "trainload." Large diesel-electric locomotives pull six cars capable of holding about 50 tons each. The train eventually reaches a point where its load must be dumped and rehandled. Figure 10 illustrates the way in which this is done. Referred to as the "tunnel reclaiming method," the material is dumped over a concrete tunnel of special design.

Gates in its roof are provided for drawing the gravel into the tunnel where it is deposited on a moving belt and carried to either its destination or some transfer point. In very general terms, gravel processing is a four-step operation: (1) Crushing, to reduce oversize or to create angular material for use in asphalt; (2) Washing, to remove surface dirt and coatings; (3) Screening, to compose the various particles into a usable range of sizes; and, (4) The removal of so-called deleterious minerals which are harmful in certain products, particularly concrete that will be exposed to severe weathering. Until relatively recent times, this 4th step consisted of some mechanical device to erode or pulverize the deleterious fraction of the gravel. Because about 98% of the gravel producer's output is consumed by some form of construction relating to concrete or asphalt, most of his efforts are concentrated on refining aggregates for use in these products.

Washing and Screening are often accomplished simultaneously. It is a step frequently repeated in the process of refining gravel aggregate.

January, 1967
One of the most remarkable aspects of the modern gravel operation is the way in which land is made ready to serve new, useful purposes when all the gravel has been removed. The responsible producer follows a policy of land rehabilitation to help assure that when mining operations terminate, the land will continue as an economic or recreational asset to the surrounding community.

**PRINCIPAL GRAVEL FEATURES AND USES**

**Bituminous Concrete**

Bituminous pavements are also referred to as "flexible pavements." Particularly, on major routes carrying heavy loads of high speed traffic, flexible pavements impose great demands on the performance of the aggregate. This is because aggregate is the only element in flexible mixtures that imparts to it the necessary property of "stability" or resistance to shoving and rutting. The interlocking action obtained through the use of angular, crushed gravels can provide required stability. Gravels for use in bituminous concrete should, therefore, be 100% crushed.

**Base Course**

The stresses imposed upon bituminous pavements are transferred through the surface course(s) to that section of the structure immediately beneath the surface and referred to as the Base Course (see Figure 17). Thus, the base course becomes the real load-bearing element of the bituminous pavement structure. The performance of aggregates used in base course construction is of vital importance in areas like Detroit where bituminous pavements must be constructed, in most cases, on very weak subgrade soils. One of the most common causes for so-called asphalt failure is in reality, base failure. Fortunately, gravel base course aggregates that possess extraordinarily high structural values are readily available. Again, one of the essential features of the specification for such materials is that they be 100% crushed. Proper top size is also very important and the Michigan State Highway Department specification for 21-AA gravel covers both these requirements. Local specifications, however, fail to spell out actual performance requirements and there is evidence of a wide range of structural values for base course products from different sources regardless of their conformance to grading and physical requirements. The Asphalt Institute uses CBR (California Bearing Ratio) values in their base course specifications. The CBR value is a measure of the material's structural value.

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Fig. 15
Fig. 16
Fig. 17
Fig. 18
Fig. 19

Gravel "binds" together the top coating of the roof and in addition provides a protective, insulating cover.
tural strength. The Institute requires that base course aggregates for light traffic have a minimum CBR of 80. For medium and heavy traffic a minimum of 100 is specified.

Roofing

The life of any built-up roof is doubled by an adequate coverage of properly graded roofing gravel! Top coatings of pitch or asphalt have little stability of their own. Gravel provides this essential property and at the same time insulates the roof from the rays of the sun which, unchecked, would melt the top coat. Quality gravel has very low porosity and is, therefore, relatively unaffected by freezing and thawing on roof decks. In other words, gravel will not become saturated and undergo volume changes that might disrupt the roofing membrane and cause leaks. Because coverage is specified in terms of pounds of gravel per square area of roof, it is important that the size of the gravel be clearly specified to insure sufficient thickness for insulation. Some gravel producers are capable of supplying roofing products that contain no more than 3% material smaller than a #4 sieve.

Ballast

Because of its exceptional strength and stability gravel has, for 50 years, been the preferred material for use as railroad track ballast. Two of the world’s largest railroads use 100% crushed gravel on local mainline sections where greater speeds and heavy loading subject the track to high stresses. Lighter traffic areas and industrial sidings can often use ballast that contains a lower percentage of crushed particles. Typical specifications for this area are shown in Figure 21.

Concrete Aggregate

The glacier provided the gravel deposit and imparted to the material its characteristic rounded shape that makes gravel so popular as a concrete aggregate, but it delegated to man the responsibility of refining the material. As mentioned earlier, the removal of deleterious substances from aggregates for use in concrete, was until recent times, accomplished by purely mechanical means. Some deleterious materials were not, however, easily removed by such methods. Sometimes, the deposit changed too rapidly for the machinery then available. As a result, large amounts of non-durable material often remained in the finished product and some pretty bad concrete pop-outs occurred. A far more reliable process was badly needed.

All deleterious materials in gravels of this area have certain things in common: They are structurally weak and will absorb moisture. In our Michigan climate, which is characterized by many cycles of freezing and thawing, such materials represent potential pop-outs in the surface of exposed concrete.

All local deleterious materials also have relatively low specific gravities. This factor permits the gravel producer to separate them from the denser, high quality particles of gravel. The process is called Heavy Media Separation.

One typical local method works in this manner: Washed, but otherwise untreated, gravel is fed into a large, revolving steel drum. (A) Inside the drum a mixture of water and a heavy media (usually finely ground magnetite and/or ferrosilicon) is agitated and kept in suspension by the action of several blades attached at right angles to the inner walls of the drum. Enough of the heavy media is used to keep the liquid at some predetermined gravity. As the raw feed strikes the liquid, a separation is affected. The undesirable low gravity particles float off at one end of the drum (B) while the acceptable, high quality particles sink to the bottom. As the drum turns, the same blades used to keep the media in suspension lift the "sink" and deposits it on a chute (C) leading to the next phase of the process. Both the "float" and "sink" are washed to remove and reclaim as much of the costly media as possible. (E) Some of it, however, is lost and readings are taken at 15 or 20 minute intervals to assure that the required specific gravity is being maintained. A screw conveyor (F) returns reclaimed media to the system.

The obvious advantage to this sort of process is that it provides the producer with the ability to maintain tighter quality control and to adjust for changes as they occur in the deposit. Startling improvement in the over-all quality of concrete aggregate has been made possible through the extensive use of this process. One major producer in this area installed its first plant in 1954. At that time most consumers were accustomed to the use of two qualities or grades of coarse aggregate described in the specification manual of the Michigan State Highway Department. One was called "A" material. It was for use in non-exposed concrete and could have a deleterious content of as much as 10%. The other was for exposed concrete. It was called "B" material and was to contain no more than 3% deleterious material. (The State has since changed this to 4% and calls it "AA"). The subject producer was making products that hovered around the upper limits of both specifications, but gradually the difference between the two began to narrow and has, for several reasons, grown surprisingly small. For one thing, they began adding treated material to untreated in order to improve their regular line of products. They refined and improved the process itself. More new plants were added in order to treat more raw material and today, this firm treats the rounded
fraction of all the concrete aggregates they produce in this area. There's an advantage in treating it all rather than just blending to improve a product. Instead of simply overpowering the deleterious portion of the product mathematically, they actually remove more of the "bad actors" that are potential trouble makers. Coarse aggregates that conform to the more restrictive 4% deleterious limitation are required under a new specification distributed by the Portland Cement Association entitled: "Michigan Suggested Standard Concrete Specifications for Buildings and Structures."

Decorative Aggregate

The availability of high quality aggregate has made the use of architectural concrete a far more plausible undertaking than it would have been otherwise. Special surface treatments like exposed aggregate are typical and designers may employ high quality local gravels for decorative purposes with perfect confidence of their ability to perform even under severe exposure conditions. Quality materials are generally available in a wide variety of sizes, surface textures and gradings. The production capacity of some producers is large enough to afford a certain degree of latitude with respect to the production of special products. Often some standard product of a certain nominal size would be better suited for a particular application if it were angular instead of round or, if there was a "gap" in the grading of the product. The progressive producer will put forth every reasonable effort to fulfill such requirements. Gravels in this area, being glacial in origin, contain a great variety of mineral types. This also means a great variety of color. Often the varicolored effect is highly desirable, but color selection is, so far, an impractical undertaking.

SUMMARY:

The gravel industry has undergone considerable change in just 50 years and many of its members have kept pace with the demands of modern construction. Today's equipment is far more complex and costly, but the end result — their finished product — remains, for all its built-in improvements, a very useful, versatile, low priced commodity. Today's producer is equipped to provide a larger variety of products and a more reliable group of products than his predecessors. Many are looking ahead in an attempt to anticipate both the structural and esthetic requirements for gravel aggregate in the future.
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<td><strong>AGGREGATES—EXPANDED CLAY &amp; SHALE</strong></td>
<td></td>
</tr>
<tr>
<td>Light Weight Aggregates Corp.</td>
<td></td>
</tr>
<tr>
<td>27611 Schoolcraft</td>
<td></td>
</tr>
<tr>
<td>Livonia, Mich. 48150</td>
<td></td>
</tr>
<tr>
<td>533-3379</td>
<td></td>
</tr>
<tr>
<td><strong>AGGREGATES—ROOFING</strong></td>
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<tr>
<td>American Aggregates Corp.</td>
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<tr>
<td>12500 Greenfield Ave.</td>
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</tr>
<tr>
<td>Detroit 48227</td>
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<tr>
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<tr>
<td><strong>AGGREGATES—BASE COURSE</strong></td>
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<tr>
<td><strong>AGGREGATES—BITUMINOUS</strong></td>
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<td>Detroit 48227</td>
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<tr>
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<tr>
<td><strong>AGGREGATES—CONCRETE</strong></td>
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<tr>
<td>American Aggregates Corp.</td>
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<td>12500 Greenfield Ave.</td>
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<tr>
<td>Detroit 48227</td>
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<tr>
<td>VE 5-3050</td>
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<tr>
<td><strong>AGGREGATES—DECORATIVE</strong></td>
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<tr>
<td>American Aggregates Corp.</td>
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<tr>
<td>12500 Greenfield Ave.</td>
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</tr>
<tr>
<td>Detroit 48227</td>
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<td>VE 5-3050</td>
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<tr>
<td><strong>AGGREGATES—EXPANDED CLAY &amp; SHALE</strong></td>
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<tr>
<td>Light Weight Aggregates Corp.</td>
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<tr>
<td>27611 Schoolcraft</td>
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<tr>
<td>Livonia, Mich. 48150</td>
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<tr>
<td><strong>AGGREGATES—ROOFING</strong></td>
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<tr>
<td>American Aggregates Corp.</td>
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<tr>
<td>12500 Greenfield Ave.</td>
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<td>Detroit 48227</td>
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<tr>
<td>VE 5-3050</td>
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<tr>
<td><strong>ASPHALT PAVING MATERIALS</strong></td>
<td></td>
</tr>
<tr>
<td>Asphalt Products Co.</td>
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</tr>
<tr>
<td>(Sub. of Edw. C. Levy Co.)</td>
<td></td>
</tr>
<tr>
<td>8800 Dix Avenue</td>
<td></td>
</tr>
<tr>
<td>Detroit 48209</td>
<td></td>
</tr>
<tr>
<td>843-7200</td>
<td></td>
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<tr>
<td><strong>ASSOCIATIONS</strong></td>
<td></td>
</tr>
<tr>
<td>Associated General Contractors of America</td>
<td></td>
</tr>
<tr>
<td>(Detroit Chapter, Inc.)</td>
<td></td>
</tr>
<tr>
<td>18100 Schaefer Rd.</td>
<td></td>
</tr>
<tr>
<td>Detroit 48235</td>
<td></td>
</tr>
<tr>
<td>DI 1-4171</td>
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</tr>
<tr>
<td>Ceramic Tile Promotion Fund, Inc.</td>
<td></td>
</tr>
<tr>
<td>15139 W. Eight Mile Rd.</td>
<td></td>
</tr>
<tr>
<td>Detroit 48235</td>
<td></td>
</tr>
<tr>
<td>Great Lakes Fabricators &amp; Erectors, Assoc.</td>
<td></td>
</tr>
<tr>
<td>809 New Center Bldg.</td>
<td></td>
</tr>
<tr>
<td>Detroit 48202</td>
<td></td>
</tr>
<tr>
<td>875-4222</td>
<td></td>
</tr>
<tr>
<td>Michigan Asphalt Paving Assoc., Inc.</td>
<td></td>
</tr>
<tr>
<td>708 Prudden Bldg.</td>
<td></td>
</tr>
<tr>
<td>Lansing</td>
<td></td>
</tr>
<tr>
<td>(517) 482-0111</td>
<td></td>
</tr>
<tr>
<td>Plumbing &amp; Heating Industry of Detroit</td>
<td></td>
</tr>
<tr>
<td>14901 Meyers Road</td>
<td></td>
</tr>
<tr>
<td>Detroit</td>
<td></td>
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<tr>
<td>BR 3-4700</td>
<td></td>
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<tr>
<td>Roofing Industry Promotion Fund</td>
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</tr>
<tr>
<td>8469 E. Jefferson Ave.</td>
<td></td>
</tr>
<tr>
<td>Detroit 14</td>
<td></td>
</tr>
<tr>
<td>822-0700</td>
<td></td>
</tr>
<tr>
<td>Structural Clay Products Institute</td>
<td></td>
</tr>
<tr>
<td>2556 Clearview Ave., NW.</td>
<td></td>
</tr>
<tr>
<td>Canton, Ohio</td>
<td></td>
</tr>
<tr>
<td>(216) GL 5-5329</td>
<td></td>
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</table>

January, 1967 | 47
<table>
<thead>
<tr>
<th>ATHLETIC SITE DEVELOPMENT</th>
<th>CARPETING</th>
<th>CONCRETE—PRESTRESSED (Contd.)</th>
</tr>
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<tbody>
<tr>
<td>37328 Utica Road</td>
<td>9910 Dexter</td>
<td>3102 E. Cork St.</td>
</tr>
<tr>
<td>Fraser, Michigan 48206</td>
<td>Detroit 6</td>
<td>Kalamazoo</td>
</tr>
<tr>
<td>264-8803</td>
<td>TO 8-2470</td>
<td>(616) 381-1550</td>
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<table>
<thead>
<tr>
<th>BLAST FURNACE SLAG</th>
<th>CONCRETE BLOCK MFG. EQUIPMENT</th>
<th>CONTRACTORS—ACOUSTICAL</th>
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<tbody>
<tr>
<td>8800 Dix Avenue</td>
<td>Alpena</td>
<td>9335 St. Stephens</td>
</tr>
<tr>
<td>Detroit 48209</td>
<td>(517) 354-4111</td>
<td>Dearborn</td>
</tr>
<tr>
<td>VI 3-7200</td>
<td></td>
<td>584-2000</td>
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</table>

<table>
<thead>
<tr>
<th>BLUE/WHITE PRINTS</th>
<th>CONCRETE—PRECAST</th>
<th>CONTRACTORS—AIR CONDITIONING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dunn Blue Print Company</td>
<td>American Prestressed Concrete, Inc.</td>
<td>John E. Green Co., Inc.</td>
</tr>
<tr>
<td>5920 Second</td>
<td>6419 East 10 Mile Road</td>
<td>220 Victor</td>
</tr>
<tr>
<td>Detroit 48202</td>
<td>Centerline</td>
<td>Detroit</td>
</tr>
<tr>
<td>875-2125</td>
<td>SL 7-3815</td>
<td>TO 8-2400</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>BRICK—BLOCK—CONCRETE</th>
<th>CONCRETE—PRECAST</th>
<th>CONTRACTORS—ELECTRICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>545 Telegraph Road</td>
<td>18510 James Couzens</td>
<td>464 Brainard St.</td>
</tr>
<tr>
<td>Pontiac 19</td>
<td>Detroit</td>
<td>Detroit 48201</td>
</tr>
<tr>
<td>FE 5-8185</td>
<td>864-0121</td>
<td>TE 1-0470</td>
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</table>

<table>
<thead>
<tr>
<th>BRICK—FACE</th>
<th>CONCRETE—PRESTRESSED</th>
<th>CONTRACTORS—ACOUSTICAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Century Brick Company</td>
<td>American Prestressed Concrete, Inc.</td>
<td>R. E. Leggette Co.</td>
</tr>
<tr>
<td>14910 Linwood Avenue</td>
<td>6419 East 10 Mile Road</td>
<td>9335 St. Stephens</td>
</tr>
<tr>
<td>Detroit 38</td>
<td>Centerline</td>
<td>Dearborn</td>
</tr>
<tr>
<td>UN 1-8200</td>
<td>SL 7-3815</td>
<td>584-2000</td>
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<table>
<thead>
<tr>
<th>CAISSON CONTRACTOR</th>
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</thead>
<tbody>
<tr>
<td>Ritsema-Millgard Inc.</td>
<td></td>
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</tr>
<tr>
<td>Box 2004</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Livonia</td>
<td></td>
<td></td>
</tr>
<tr>
<td>425-8550</td>
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## Contractors - Fire Protection

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glanz &amp; Killian Co.</td>
<td>1761 W. Forest Avenue</td>
<td>TE 1-7820</td>
</tr>
</tbody>
</table>

## Contractors - General

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Darin &amp; Armstrong, Inc.</td>
<td>2041 Fenkell</td>
<td>UN 2-3413</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>George W. Auch Company</td>
<td>3646 Mt. Elliott Avenue</td>
<td>921-1190</td>
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</table>

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maurice V. Rogers Co.</td>
<td>15849 Wyoming Avenue</td>
<td>UN 3-3171</td>
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</table>

## Contractors - Mechanical

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Charles R. Beltz and Company</td>
<td>15001 Charlevoix</td>
<td>822-2070</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glanz &amp; Killian Co.</td>
<td>1761 West Forest Avenue</td>
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## Contractors - Mechanical (Contd.)

<table>
<thead>
<tr>
<th>Company</th>
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</thead>
<tbody>
<tr>
<td>Mechanical Heat &amp; Cold, Inc.</td>
<td>12300 Hamilton Avenue</td>
<td>TO 8-9600</td>
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</table>

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Peckham Company</td>
<td>14270 Wyoming Avenue</td>
<td>WE 3-4730</td>
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## Contractors - Plumbing

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glanz &amp; Killian Co.</td>
<td>1761 W. Forest Avenue</td>
<td>TE 1-7820</td>
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## Contractors - Sheet Metal

<table>
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<tr>
<th>Company</th>
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<th>Phone</th>
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</thead>
<tbody>
<tr>
<td>Glanz &amp; Killian Co.</td>
<td>1761 W. Forest Avenue</td>
<td>TE 1-7820</td>
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## Doors

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Brasco, Inc.</td>
<td>(Div. of Kaufmann Window &amp; Door Corp.)</td>
<td>584-2000</td>
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</table>

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Spitzley Corporation</td>
<td>1200 W. Fort St.</td>
<td>961-0840</td>
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<table>
<thead>
<tr>
<th>Company</th>
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<tr>
<td>Spitzley Corporation</td>
<td>500 N. Cedar St. Mason, Michigan 48854</td>
<td>(517) 677-3171</td>
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## Drafting Supplies and Furniture

<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
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<tbody>
<tr>
<td>Dunn Blue Print Company</td>
<td>20390 W. Eight Mile Rd. Southfield, Michigan 442-5670</td>
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## Entrances - Aluminum

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<thead>
<tr>
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<th>Phone</th>
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<tbody>
<tr>
<td>Brasco, Inc.</td>
<td>(Div. of Kaufmann Window &amp; Door Corp.)</td>
<td>893-2005</td>
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<table>
<thead>
<tr>
<th>Company</th>
<th>Address</th>
<th>Phone</th>
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<tbody>
<tr>
<td>J. W. Willman Asbestos Company</td>
<td>304 South Niagara St. Saginaw 48602</td>
<td>793-3990</td>
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January, 1967 | 49
### FLOOR COVERINGS CONTRACTOR

<table>
<thead>
<tr>
<th>Turner-Brooks, Inc.</th>
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<tbody>
<tr>
<td>9910 Dexter</td>
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<tr>
<td>Detroit</td>
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<tr>
<td>TO 8-2470</td>
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### FLOORING—SOUND INSULATED

<table>
<thead>
<tr>
<th>Zell</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Div. of Light Weight Aggregates Corp.)</td>
</tr>
<tr>
<td>27611 Schoolcraft</td>
</tr>
<tr>
<td>Livonia, Mich. 48150</td>
</tr>
<tr>
<td>533-3379</td>
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</table>

### FLOORS—ELEVATED

<table>
<thead>
<tr>
<th>R. E. Leggette Co.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9335 St. Stephens</td>
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<tr>
<td>Dearborn</td>
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<tr>
<td>584-2000</td>
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</tbody>
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### GRATING—ALUMINUM & STEEL

<table>
<thead>
<tr>
<th>Brown-Campbell Company</th>
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</thead>
<tbody>
<tr>
<td>3626 Hart St.</td>
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<tr>
<td>Detroit 48214</td>
</tr>
<tr>
<td>822-2675</td>
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</tbody>
</table>

### HEATING—VENTILATING & AIR CONDITIONING

<table>
<thead>
<tr>
<th>Charles R. Beltz &amp; Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>15001 Charlevoix</td>
</tr>
<tr>
<td>Grosse Pointe Park 48230</td>
</tr>
<tr>
<td>822-2070</td>
</tr>
</tbody>
</table>

### LANDSCAPING

<table>
<thead>
<tr>
<th>J. D. Armstrong Landscape Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>37328 Utica Road</td>
</tr>
<tr>
<td>Fraser, Michigan 48026</td>
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<tr>
<td>264-8803</td>
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### LAWN SPRINKLING EQUIPMENT

<table>
<thead>
<tr>
<th>Sprinkler Irrigation &amp; Supply Co.</th>
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<tbody>
<tr>
<td>1316 N. Campbell</td>
</tr>
<tr>
<td>Royal Oak</td>
</tr>
<tr>
<td>LI 8-7272</td>
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</tbody>
</table>

### LUMBER—FLAME PROOF

<table>
<thead>
<tr>
<th>Currier Lumber Co.</th>
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<tbody>
<tr>
<td>7500 E. Davison Ave.</td>
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<tr>
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<tr>
<td>365-5200</td>
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### LUMBER—PRESSURE TREATED

<table>
<thead>
<tr>
<th>Currier Lumber Co.</th>
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<tr>
<td>7500 E. Davison Ave.</td>
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<tr>
<td>Detroit 48212</td>
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<tr>
<td>365-5200</td>
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</table>

### PARTITIONS—OFFICE

<table>
<thead>
<tr>
<th>R. E. Leggette Co.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9335 St. Stephens</td>
</tr>
<tr>
<td>Dearborn</td>
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<tr>
<td>584-2000</td>
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### PARTITIONS—TOILET

<table>
<thead>
<tr>
<th>Sanymetal Products Inc. (Dist. by R. E. Leggette Co.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9335 St. Stephens</td>
</tr>
<tr>
<td>Dearborn</td>
</tr>
<tr>
<td>584-2000</td>
</tr>
</tbody>
</table>

### PLUMBING & HEATING

<table>
<thead>
<tr>
<th>The Peckham Company</th>
</tr>
</thead>
<tbody>
<tr>
<td>14270 Wyoming Avenue</td>
</tr>
<tr>
<td>Detroit 48238</td>
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<tr>
<td>WE 3-4730</td>
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### PLUMBING—HEATING—FIRE PROTECTION

<table>
<thead>
<tr>
<th>John E. Green Plumbing &amp; Heating Co., Inc.</th>
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<tbody>
<tr>
<td>220 Victor</td>
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<tr>
<td>Detroit</td>
</tr>
<tr>
<td>962-0112</td>
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</table>

<table>
<thead>
<tr>
<th>John E. Green Plumbing &amp; Heating Co., Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2525 Carrollton Rd.</td>
</tr>
<tr>
<td>Saginaw</td>
</tr>
<tr>
<td>(517) 753-1446</td>
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### PLUMBING—HEATING—POWER & PROCESS PIPING

<table>
<thead>
<tr>
<th>Glanz &amp; Killian Co.</th>
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<tbody>
<tr>
<td>1761 W. Forest</td>
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<tr>
<td>Detroit 48208</td>
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<tr>
<td>TE 1-7820</td>
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<table>
<thead>
<tr>
<th>Lorne Company, Inc.</th>
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<tbody>
<tr>
<td>641 W. Congress St.</td>
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<tr>
<td>962-0112</td>
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<tr>
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</tr>
<tr>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>Lorne Company, Inc. 2487 East Bristol Road Flint 743-1200</td>
</tr>
<tr>
<td>PLUMBING &amp; HEATING SUPPLIES</td>
</tr>
<tr>
<td>Nelson Company 332 E. Lincoln Avenue Royal Oak 48067 564-5370</td>
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<tr>
<td>PORCELAIN ENAMEL PRODUCTS</td>
</tr>
<tr>
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</tr>
</tbody>
</table>

January, 1967 | 51
<table>
<thead>
<tr>
<th>STEEL FABRICATORS &amp; ERECTORS (Contd.)</th>
<th>UNIT VENTILATORS</th>
<th>WALLS—REINFORCING STEEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Haven Busch Co. 3443 Chicago Dr., S.W. Grandville, Mich. 49418 (616) LE 2-3641</td>
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</tr>
<tr>
<td>TANKS—MANUFACTURERS STORAGE</td>
<td>VENTILATING SYSTEMS</td>
<td>WINDOWS—ALUMINUM</td>
</tr>
<tr>
<td>TESTING LABORATORY</td>
<td>WALL COVERING—VINYL</td>
<td>WOOD &amp; SASH SUPPLIERS</td>
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Reed Appointed
Associate in Firm

Marcus G. Reed, G-3403 N. Genesee Road, Flint, has been named an associate in the architectural firm of Nurmi, Nelson, McKinley & Associates, Inc.

A registered architect, he joined the Flint-based firm in February, 1956, as an apprentice, and since that time served as a junior and senior draftsman before assuming his more recent role as a job captain.

Born in Mt. Morris, Mr. Reed graduated from Mt. Morris High School and studied architecture at the University of Detroit. From 1951 to 1953 he was in the armed forces, serving as a Sgt. 1st. Class with the Army Chief of Staff in Korea.

He is a member of the Genesee Lions Club, an associate member of the Flint Area Chapter, American Institute of Architects, and is currently serving his second term as president of the Genesee County Muscular Dystrophy Association.

The firm was established as an individual practice by S. A. Nurmi in 1946 and incorporated in 1955. In addition to Mr. Nurmi, other architect members of the firm include Auldin H. Nelson and Wessyl A. McKinley: Henry N. Rose, Professional Engineer responsible for electrical engineering, is the other member of the firm.

New Book

Copies of a new book on small public library building planning have recently been added to the collection of the Michigan State Library. Mr. Rolf Myller, a New York architect, was commissioned by the New York State Department of Education, Division of Library Extension to create a book to be used as a comprehensive guide to giving the essential principles, criteria and methodology required for the design of small public library buildings. Mr. Myller's The Design of the Small Public Library, published by the R. R. Bowker Company, fills a long-felt need for a book devoted exclusively to the design of library buildings serving communities with populations of less than 10,000. The need has been met admirably with a book that is not only full of valuable information, but also one that is a pleasure to read.

Job Opportunity —
Corps of Engineers

The Corps of Engineers is seeking an architect with "vision and ingenuity" to head its Family Housing Design Branch.

Salary for the position is about $17,550 annually.

Interested applicants should write: Department of the Army, Office of the Chief of Engineers, Washington, D. C.

Ceramic Tile Promotion Fund, Inc. announces the opening of their new offices at 15139 West Eight Mile Road, Detroit, Michigan, Telephone 864-5541.

Lease office building. 40x60 — 2 floors, 20 rooms. Will remodel. Woodward, Eight Mile area. Suggestion: Co-operate with others for the entire building at $3.25 per foot, per year or sub-lease for available space as you grow. You may name the building.

January, 1967 | 55
Can you tell the difference
between Inserat Grotesque
and Venus Extra Bold Extended?*

Probably not—these are two contemporary type faces used today in promotional literature. Just as architecture is a fast developing and changing profession, the graphics arts industry is equally dynamic with new innovations being developed every week. As you pride yourself on being aware of the many developments in your field, we at the Ann Arbor Press and Hutcheson Associates take the same pride in being on top of the latest techniques and materials of production and printing. We are experienced and capable of taking your initial concepts for a brochure and developing it through design, production and printing with a contemporary flare that you can use with pride.

Why not call Gary Grout or Ed Hutcheson today and ask to see some of our recent samples we have done for your contemporaries.
Gothic “Tribune Tower” now a Chicago Landmark

CHICAGO—The graceful Gothic lines and soaring spires of the renowned Tribune Tower, long a familiar sight to Chicagoans, had their beginnings in a competition launched in 1922, seventy-fifth anniversary of the Chicago Tribune. After examining 263 designs submitted by architects from 24 countries, judges awarded first prize to Raymond M. Hood and John Mead Howells, son of the famed American novelist, William Dean Howells.

An acknowledged architectural masterpiece, the Tower is widely known for the historic stones embedded in its walls. Stones from famous structures, such as the Great Wall of China and the Taj Mahal . . . those associated with noted men like De Soto, Napoleon and Lincoln . . . others from memorable places—Bunker Hill, Fort Sumter, Pearl Harbor . . . stud the walls of the Tower and adjoining buildings on Tribune Square. Students and sightseers alike come to examine the collection, which includes at least one stone from every state in the Union and more than seventy foreign countries.

“Lime-Stabilization Use Up”

DETROIT—The Detroit area is beginning to feel the impact of a construction material which is one of the basic chemicals now applied to soil stabilization. According to Mr. L. M. (Larry) Hartley, Materials Engineer for a Detroit lime producer, lime stabilization has been recognized as a method of controlling difficult clay soil conditions, but costs have been relatively high in this area. This situation has been improved since Plant #1 of the Detroit Lime Company has reached production goals for 1966.

The Spring thaws will be less disastrous where locally manufactured lime is employed economically, as forecast recently at a luncheon meeting at the Engineering Society of Detroit.

5000-yr. old mystery story?

Way back about 3700 B.C., an Egyptian builder got himself quite a project—construct the Great Pyramid of Cheops. It took some 75 years, but the time-penalty clauses were looser in those days. There's an example of the Pyramid's building block, along with some 120 other historically significant stones, studding the outer wall of Chicago's famous Tribune Tower. There's something else mysterious about the Pyramid stone. It appears to be . . . . Has the same eye-pleasing gray color. It's somewhat porous; lightweight and versatile. It certainly must have the same durability. Experts say it is volcanic limestone, produced in high temperatures and great pressures. But it sure looks like our product to us. Could it possibly be Slag? Edw. C. Levy Company, Detroit, Michigan 48209. Telephone (313) 843-7200.
WHY OAKLAND COUNTY REQUIRES PREQUALIFIED CONTRACTORS

"Two years ago the Oakland County Road Commission adopted a policy of requiring prequalification of bidders on construction projects estimated to cost over $50,000. Bidders must meet the current prequalification regulations of the Michigan Department of Highways for the types and amount of work involved, which is determined prior to advertising for bids.

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DETROIT CONCRETE PRODUCTS CORP., Detroit
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LOUIS GARAYADIA CONTRACTORS, INC., Warren
GLOBE CONSTRUCTION CO., Kalamazoo
GRAND RAPIDS ASPHALT PAVING CO., Od. Rapids
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MR. PAUL VAN ROEDEL
Mr. Van Roekel has been County Highvy Engineer for the Oakland County Road Commission for the past nine years and is a registered professional Civil Engineer.