



# SKYLINES

and  
MIDWEST ARCHITECT

Vol. 13, No. 7

July 1963

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TOR  
Dorothy Lamoree

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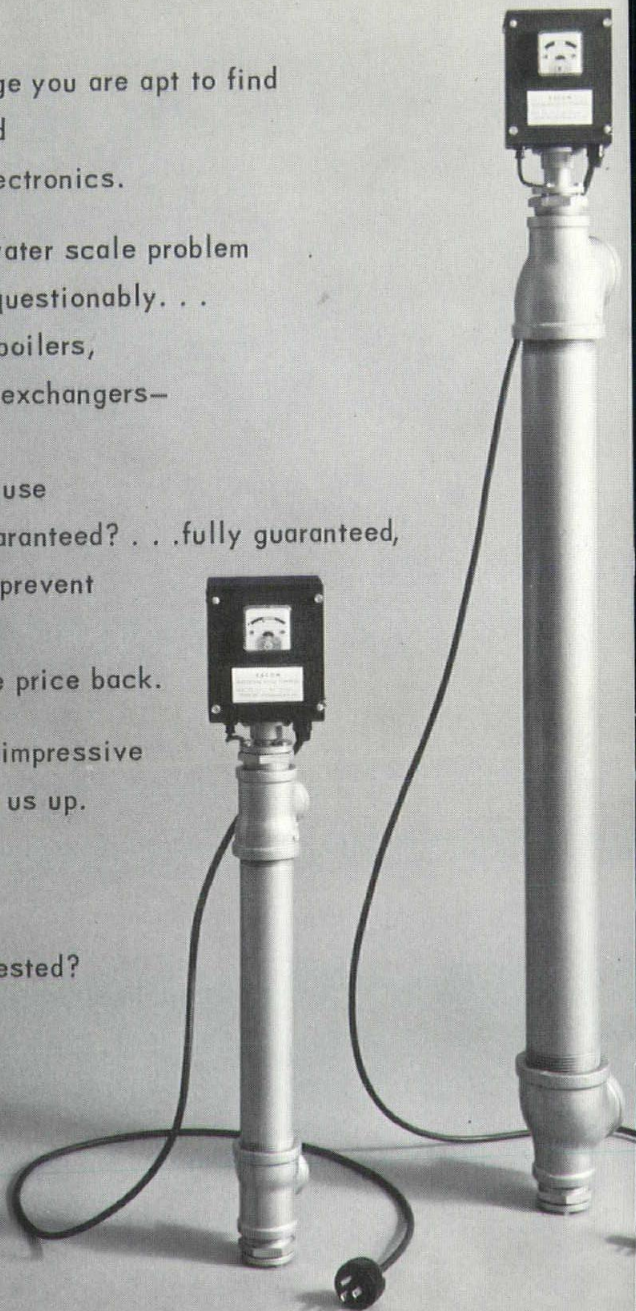
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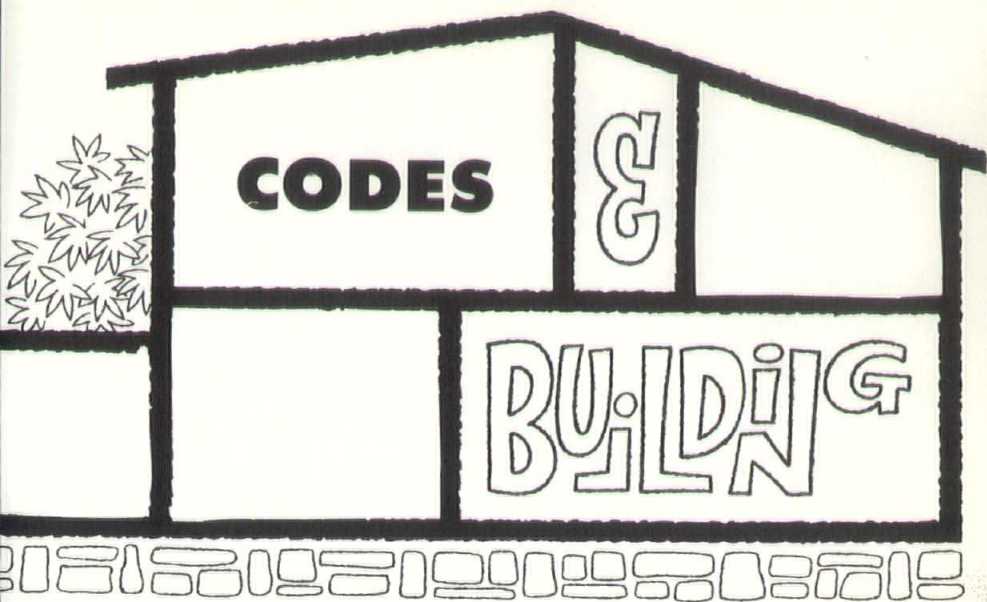


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Cities comprising the metropolitan area of Kansas City have organized an Area Public Works Association for the purpose of establishing a uniform code to govern construction and public works.

Tom F. Baker of Independence, vice chairman, said that with the establishment of a uniform code, the architect, builder, supplier and all persons associated with the construction trades could do work in any community and not be concerned with the problems of differing code requirements.

At an organizational meeting held in Independence on June 26 committees were named to review the Building Officials Conference Code, a national standard based primarily on performance rather than specifications.

Baker said the BOCA code was designed particularly for the midwestern area. It is kept updated by supplemental test and laboratory reports. Annually a vote of the membership embraces proven materials and methods.

Committees of the new Association will draft ordinance acceptance of the BOCA code and specifications for a uniform building, plumbing and electrical code to be submitted to the member cities, Baker said.

Elected officers of the Area Public Works Association are: Warner W. Holloway, city engineer of Raytown, chairman; Baker, superintendent of building inspections, Independence, vice chairman; and August Bogina, Jr., of Lenexa, Kansas, secretary.

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# New Members and Membership Changes

## CORPORATE



### SAM PRICE

Central High, Kansas City, Mo. (graduated 1941)  
 Kansas City Junior College, Kansas City, Mo. (1 year)  
 University of Texas (1-½ years)  
 University of Kansas, Lawrence, Kans. (graduated 1951, B. S., degree)  
 University of Kansas City, Kansas City, Mo. (1-½ years)  
 Scholarship to the University of Chicago  
 Honor Roll at the Kansas City Junior College and University of Kansas  
 Member Sigma Tau, Honorary Fraternity at University of Kansas  
 Draftsman, Black & Veatch, (1951)  
 Draftsman, Charles E. Mullin, Jr., (1951-1952)  
 Draftsman, Turnbull-Noval, Inc., (1952-1957)  
 Own Office (1957 to present)  
 Registered: Missouri and Kansas

### ROBERT J. KOPPE

St. Joseph School, Bellevue, Iowa (graduated 1946)  
 Iowa State College, Ames, Iowa (3 years)  
 University of Kansas, Lawrence, Kans. (graduated 1954, B. S. in Architecture)  
 Job Captain, Mackie & Roark, 1954-1957  
 Partner, Bales & Koppes, 1957-1958  
 Job Captain, Hollis & Miller, 1958-1962  
 Associate, Hollis & Miller, 1962-present



## ASSOCIATE

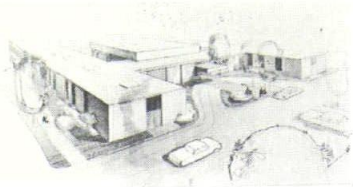
### WILLIAM JOSEPH CRAGIN

Lynn Classical High, Lynn, Mass. (3-1/2 years-graduated 1946)  
 Professional training acquired in office of Dave P. Clark,  
 Architect, Columbia Missouri, covering a period of 11-1/2 years.  
 Registration: Missouri



### MAX RONALD SIMPSON

Potosi High School, Potosi, Missouri (graduated 1944)  
 Creighton University, Omaha, Nebraska (1 year)  
 Missouri University, Columbia, Missouri (1-1/2 years)  
 Kansas University, Lawrence, Kansas (graduated 1952, B.S. Arch)  
 Draftsman, Dan R. Sanford, 1952-1954  
 Draftsman, Tanner-Linscott & Associates, 1954 to present  
 Registration: Missouri



*The problems of the aged are considerations of timely concern to architects and their clients*

## NURSING HOMES



**By Dorothy Lamoree**

The problems of properly housing the aged have become everyone's.

The basic facts about population trends have been established by research. Today the average man or woman can expect to live longer than ever before -- exceeding 75 years the Bible's three-score-years-and-ten.

At age 60 in 1900 a man could expect to live less than three years in retirement. Today the average man anticipates more than eight retirement years.

There are more than 16-million people in this country over 65 today -- five times more than in 1900 and the number will double in the next 40 years. The number over 75 will triple at which time the over-65 group will exceed 10 per cent of the population.

The health of many in the 65-75 group, both mental and physical, will be good, but because there will be more persons of advanced age in the total group, there will be many whose health is seriously impaired, necessitating nursing or convalescent care.

These additional millions of aging people will have a tremendous impact on all aspects of society; on industry, on family life, the organization of health, welfare, rehabilitation and medical services, housing, transportation, construction of public buildings, on churches, education, recreation -- every phase of living.

*Swope Ridge, one; Temple Towers, two; University Nursing Home, three; Johnson County Home for the Aged, four.*



In today's society adult children are less likely to care for their aging parents. The rapid changes in society have left families, older persons themselves, and society generally in conflict as to the value and role of older persons in the American culture.

The newness of the nation, the fairly recent closure of the frontier, rapid industrialization and accompanying concepts of rugged individualism all have contributed to youth orientation.

Not yet thoroughly studied by anthropologists and sociologists, this phenomenon reflects itself in family living, in the employment opportunities, and in the general paucity of facilities for health, recreation, education, social, and other needs of older persons.

Populations have become increasingly mobile, with improved transportation and communication technologies. These population shifts bring in their wake family break-ups and social dislocation. Two wars and a major depression have further contribution to the shattering of families and family groups.

An increasing proportion of elderly persons are physically vigorous as they enter old age. Medical advances have all but wiped out the acute, infectious diseases as causes of death. When elderly persons become seriously ill today, they are increasingly likely to require one of the chronic illnesses which require long periods of hospitalization or nursing care.

These are factors backdropping a major national challenge which crisscrosses families and generations, economic levels and sociological awareness.

They are considerations of timely and absorbing interest to the architect and to an increasing number of his clients.

In this special section of Skylines, four separate and distinct aspects of community planning for the aged bring theory into being.

### SWOPE RIDGE

Nationally acclaimed as one of the pioneer nursing homes to recognize that elderly and chronically ill persons should lead lives as nearly normal as possible, Swope Ridge at 10 Swope Parkway is a specialized resi-

dence designed and constructed to provide security against the hazards of everyday living and to slow down deterioration from chronic illness.

It demonstrates a philosophy that the aging need to express themselves like all other groups of people ... to feel that each has individual importance and belongs to something worthwhile. They are given a feeling of creativity and usefulness against a backdrop of gracious living.

White jacketed waiters serve dinners for which wine is a nicety of daily living. Rising tranquilly on a scenic elevation at the southwest corner of Swope Parkway and 59th Street, only a few blocks from Swope Park in the fine southeastern residential section, Swope Ridge features large glass areas affording the residents a full view of the sweep of traffic on the Parkway, a shopping center and of children passing to and from nearby schools. Patios beckon the residents outside in pleasant weather.

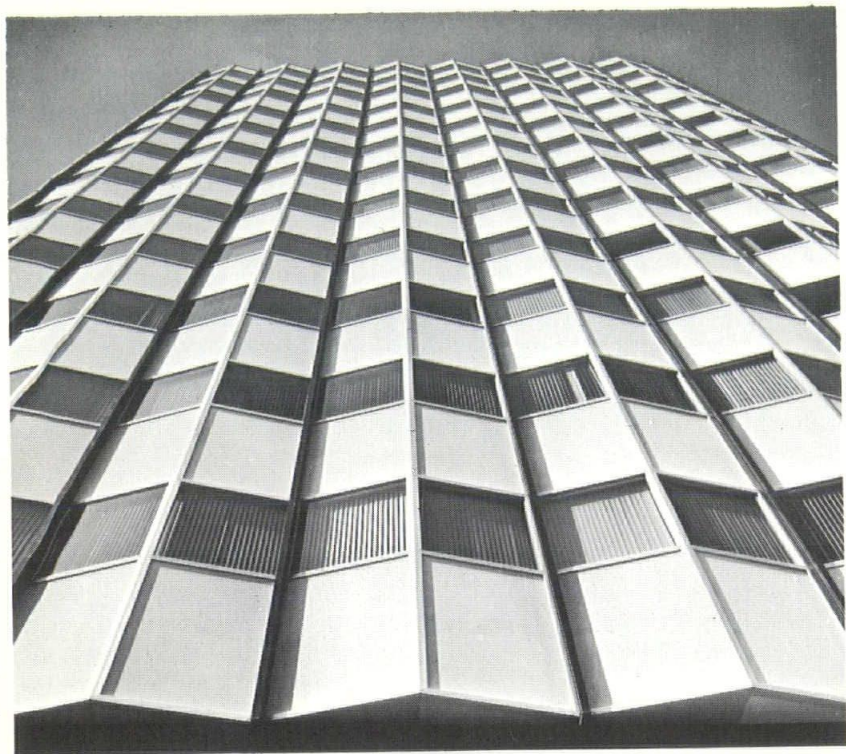
The rules of communal living are set by a Resident Council of seven members, each of whom is chairman of a major committee.

The committees work with employees in recreation and occupational therapy, and are articulate to the dietitian who must reconcile health needs and aging taste buds. A hostess committee takes over guests; orientation of arriving new residents and religious planning are the function of others.

Thinking young, an illustrated home publication is entitled **Guys and Dolls** by its resident editors.

A recent occupational therapy survey showed that 50 per cent of the participants were doing something they had never done before and that 40 per cent had pursued no activity for an average of 10 years.

Residents of Swope Ridge pay from \$310 a month to \$475 for those needing intensive care. They cross-section a level that is above average economically, socially and culturally. One-half of them are in the chair-fast category. Currently 22 have to be hand fed. About 20 per cent of the total population is senile to some degree.



Panels of Carthage Exterior Marble form a striking curtain wall for the 14-story Administration Building at Minnesota Mining and Manufacturing Company's new Research Center near St. Paul.

The building was designed by the St. Paul architectural firm of Ellerbe & Co. Carthage Exterior Marble for the project was quarried at Carthage, fabricated and installed by Twin City Tile and Marble Co. of Minneapolis.

For complete information about Carthage Exterior Marble in curtain walls and panel walls, phone or write Carthage Marble Corporation ... Branch Office, 3030 Wyoming, Kansas City, Mo., Phone Valentine 1-4928 ... Main Office, P.O. Box 718, Carthage, Mo., Phone FLeetwood 8-2145.

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It is assumed that most residents will have the services of their own personal physician who is free to make use of the completely equipped consultation and examination room. A nurse physician is available for emergencies. The chief objective of Swope Ridge's nursing service is to encourage the highest level of physical and emotional well being for each resident according to his own capacity. The nursing service is under the supervision of the Director of Nurses, assistant and Staff Nurses on around-the-clock shifts.

The infirmary unit is equipped to handle most procedures that the attending physician may order, such as oxygen therapy, intravenous or subcutaneous administration of fluids, sterile dressings and other procedures. Trained physiotherapists direct whirlpool and paraffin baths, diathermy, electro-stimulation of nerves and muscles, and massage. Ropes and wall pulleys, walkers, parallel bars, stairs and crutches are used.

The occupational therapy program functions on two levels, in the hobby shop and through a day program for the non-ambulatory.

Geis-Hunter-Ramos is the architectural firm which is planning a \$700,000 expansion and improvement project to increase the facility to a total capacity of 125, and provide more space for the recreation and rehabilitation of residents.

The first section of Swope Ridge was built in 1957, housing 20 persons. A north wing was added in 1959 to increase the capacity to 75.

The new 1-story, 20,000 square foot addition will feature a unit creating a social center and placing nearly all the day-to-day activities of residents on one level and within a few steps of their own rooms. The entire unit will be glass enclosed. Sheltered patios surrounding it will be accessible by sliding doors from all four areas.

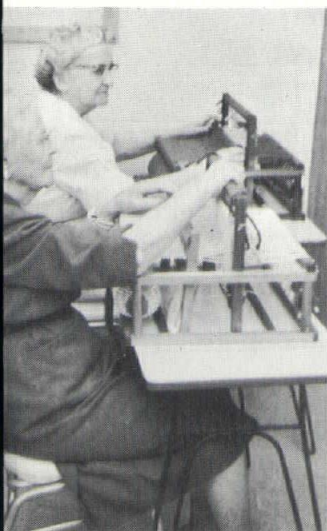
Swope Ridge will continue to combine many of the facilities of a modern hospital with the features of a hotel. Ambulatory residents, as in the past, will live in a section apart from those who are bedfast. In both sections an audio-visual call system will connect each resident's room with nearby nurses stations. There will be guard rails, doorways wide enough for wheelchairs and connecting lavatories between all bedrooms.

All buildings are centrally heated, air conditioned and fireproof. As an added precaution, fire doors will divide Swope Ridge into four parts so residents can be moved to a protected area instead of outside in case of an alarm.

Construction will cost about \$483,000, with \$217,000 more earmarked for equipment and building incidentals.

Continued on page 11

*left, residents of Swope Ridge work their looms; at right, they join in carols around the piano.*





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Swope Ridge was the first Kansas City nursing home to become an institutional member of the American Hospital Association. Albert Incani, its owner, is a member of the H.A.'s national committee on long-term facilities and holds leading positions in state and regional groups concerned with the care of the aging.

### UNIVERSITY NURSING HOME

Again translating national awareness and needs on a local level, a new University Nursing Home at 4125 Rainbow Boulevard samples the component considerations confronting management and the architect in providing enlightened service and facilities for this latter-day challenge to our way of life. The purpose is explicit: To afford good physical care of the body and serve the individual spiritual, social and rehabilitative needs of the individual at a cost accessible to middle income persons, providing necessary but excluding unnecessary services in the institutional blueprint.

A clear definition is made of the type of resident/patient to be served. University anticipates that its residents will require some skilled nursing and convalescent care over an extended period, but will not need the higher-cost acute services of the general hospital. Patients may be bed-ridden, ambulatory or semi-ambulatory.

Additionally, prospective patients will be screened to admit those having a good prognosis of eventual recovery and return to an active life in the community by means of the

rehabilitative services and nursing care provided. Some will require long-term convalescent care following such acute-care involvements as strokes, coronaries, broken hips, major surgery and the like.

Private patients in the middle-income groups will constitute the facility's clientele.

The facility will have a contractual affiliation with a voluntary Blue Cross hospital. Patients will be under the active medical supervision of a physician who will be responsible for maintaining each patient's medical administration problems, review the patient-care plan and handle emergencies.

Clinical laboratory and X-ray procedures will be available through a working relationship with a nearby acute care hospital. The nursing service will be under the supervision of a registered nurse, with nursing personnel on 24-hour duty, conforming to standards compatible with those of the affiliated hospital. Physical and occupational therapy treatment programs will be provided as needed. A barber-beauty shop will encourage self pride and early ambulation.

Should the institution attempt to provide every service for patient care on a stand-by basis, the cost factor would rise beyond the reach of the patient needing this type of facility. Therefore, all services will be provided except surgery, but on a contractual basis, thus precluding the need for having to purchase and maintain expensive articles of equipment. Continued on page 12

### LOUNGE AT SWOPE RIDGE





A typical nursing unit will contain 19 2-bed rooms, eight singles and one 4-bed room. Each room will have its own toilet with bed-pan flushing attachment, lavatory, bath and a wardrobe for each patient. A central bathing facility for each sex will provide a tub, wheelchair shower, water closet and lavatory.

Nursing stations will have audio-visual call systems to each bed. Corridors, toilets, baths and all patient areas will have hand-rails. Drinking fountains and patient lavatories will be designed for wheelchair use. Physical and occupational therapy will be taken into account in the facilities planning.

These physical requirements challenge the best efforts of Jackson, Smith and Davis, architects.

In charge of implementing the care and service provided for in the physical plant will be Frank M. Hill, who comes to Kansas City from Caldwell, New Jersey. Widely experienced in nursing home administration, Hill is a former president of the Northern New York Regional Hospital Council and a member of the staff of Columbia University's program of continuing education for hospital administrators.

Chester D. Kaplan is president of the group of local investors initiating the nursing home facility.

### **LIFE HEALTH PLAN**

The Kansas and Missouri Baptist Welfare Association has devised a new all-inclusive health insurance plan for the aging which has historic and social significance.

Now being presented in Kansas City, it is the first such program ever offered in the United States. The unique insurance plan offers completed medical expenses for life to those 60 and above, without limitations. It provides full allowance for unlimited hospitalization and life nursing home care. Provision is made for therapy, dietary restrictions, medical counsel and all other necessary adjuncts to maintaining health and vigor into the extended life span.

The inaugural health insurance program is being offered now on a limited basis to those who are registering for residence in the proposed new Temple Towers retirement home project downtown at Eighth and Harrison.

The residence agreement at Temple Towers includes luxury living accommodations for the life term at a moderate cost. Intended for the moderate income class, it is expected to be forerunner for similar project for the low income brackets.

Insurance costs will be met by the monthly service charges which range from less than \$100 upwards for the different types of accommodations offered, and in the Founder's Group for the lifetime lease, which ranges from \$3,950 to \$6,950 and which also can be met in monthly installments.

Temple Towers will have its own nursing home facilities as well as limited medical facilities. However, the insurance will cover all outside medical or hospitalization costs required.

The idea of specially adapted retirement homes for senior citizens can be traced principally to a White House conference on the issue of the aged. The idea captured the imagination of Dr. R. L. Decker, the Southern Baptist minister who is pastor of Temple Baptist Church and who has become an international figure in politics, civic and religious circles.

Dr. Decker headed a group of civic leaders who formed the Temple Foundation. He gained the interest of many others in the retirement home project and in the overall humanitarian program of caring for the aging citizen. Ultimately there came into being the Christ Home Services, Inc., a pre-operational management concern which soon had retirement home projects underway across the country. From this came the Retirement Homes Association of America, residents of which will be eligible for participation in the new life health plan pioneering here at Temple Towers.

Monroe and Lefebvre are architects for the 10-story structure at the convenient downtown site, at the edge of Kansas City's urban renewal Golden Oval.

The \$4-million structure will separate domiciliary and nursing home facilities. Separate entrances and elevators will serve them from the first floor lobby which also houses the dining quarters and shops.

Retired couples or individuals requiring only good care will be housed in 144 units on floors five to ten. The professional nursing



home, with a 140-bed capacity, will occupy second, third and fourth floors.

While there will be kitchen units in some of the retirement apartments, all residents will be required as a health protection measure to take at least one meal a day in the dining room. Small garden plots on the roof will satisfy a hankering to dig in the dirt. A delicatessen, small pharmacy, library and music room will be added touches of convenience and luxury. A penthouse game room and lounge areas on each domiciliary floor will encourage visitors and social gatherings, contributing to the self contained life possible under one roof. Underground parking areas will be served by elevators to all floors.

For those, however, who have retired but want to keep their hands in, the downtown location will be a convenience and encouragement to stay active.

### JOHNSON COUNTY HOME

Dramatically demonstrating new social concepts, the Johnson County Home for the Aged at Olathe is the result of six thoughtful years of evaluation and planning underwritten by a vote of the people to endorse a \$700,000 bond issue.

Gone forever is the aseptic odor of poverty and the stigma of the "poor farm." Family ties remain strong, without hurtful guilt complexes to haunt the children and rela-

tives of the aging who need assistance to make meagre means bridge the longer life span.

Kansas City architects Roark, Daw and See were charged to implement an implicitly stated philosophy:

"...a home-like atmosphere for a community of aged persons, to encourage the participation of the residents in various activity and social communication, to provide the necessary sheltered care as required, and finally to make the supervision and operation of the Home efficient, yet unobtrusive."

On the exterior the look of residence is enhanced by a low pitched roof, exposed structural beams and projecting overhang, a yellow textured face brick pattern and sweeping driveway approach through landscaping.

Here the separation of the mentally competent and incompetent is more acute than in many other nursing homes for the senile, including those of patients receiving after-care following discharge from state institutions for mental care.

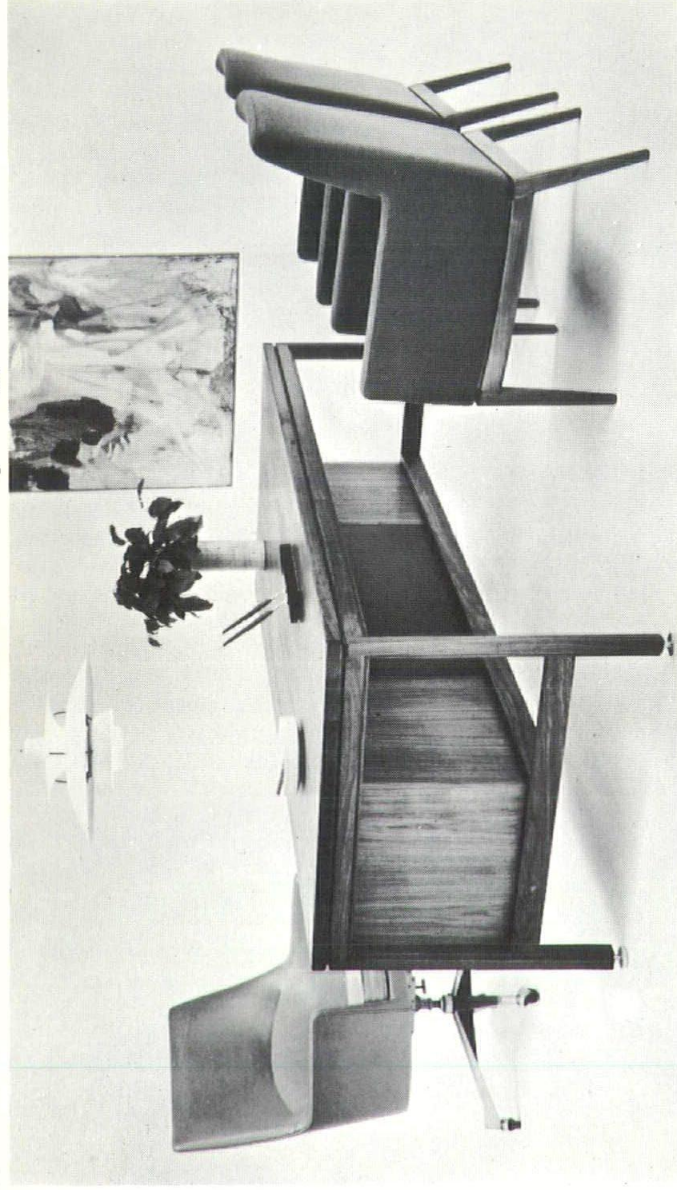
With this in mind, a wing separation is effected with the more acute care areas closer to the nursing stations. In the core of the building, at the junction of wing corridors and living areas, the principal nurses' station controls public and service traffic and maintains visual control of resident activities.

Continued on page 15

### LIBRARY AND MUSIC LOUNGE, TEMPLE TOWERS



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The living room, although part of one large open space for flexibility is set apart and further broken up into pleasant intimate groups by the arrangement of furniture. Additionally, there are several special purpose lounges located close to wash rooms and related services for the convenience of the patients.

Pointing up the philosophical in relation to the physical, every attempt is made to afford the patients privacy. In close proximity to the bustle and services of the community, residents are visited by Gray Ladies and enjoy the youthful services of Candy Stripers. Close to a trailer court where they can hear the sounds of children at play, residents of the Home nonetheless are comfortable and secure inside to the extent that something of a problem is posed in getting them outside to enjoy the air and grounds.

## COUNTY HOME FOR THE AGED

Continued on page 17



*the new dimension in creating with masonry*  
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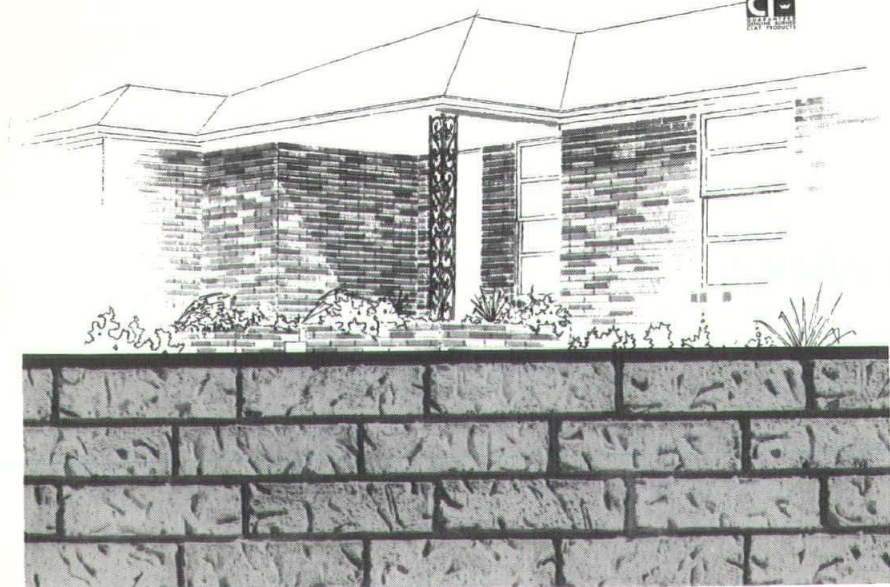
King Size Brick by Acme is a new form of one of the most reliable and proven building materials ever made: genuine new burned clay. Without any additional finishing or maintenance, Acme King Size Brick provides an almost limitless range of design opportunities, through a wide

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## ROOMS AT COUNTY HOME





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## Nuclear Shield Seminar

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The Department of Defense has announced plans to conduct nuclear shield seminars in Kansas City beginning September 23.

William B. Peterson of the Office of Civil Defense, Denver, said the school for architects and engineers will continue for a total of 16 weeks, excluding holidays. Sessions will be held on Monday evenings at 7 o'clock on the 14th floor of the City Hall unless more suitable quarters can be secured, Peterson said.

Kansas University Professor Robert F. Gunther, instructor, will be assisted by a teaching team of five men, with the Department of Defense furnishing all texts and materials.

The course will be offered without charge. Upon graduation, participants will be certified and listed in the OCD national directory of architects and engineers qualified in fallout shelter analysis.

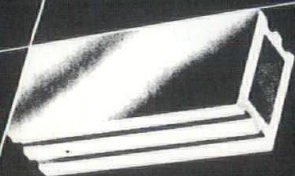
Enrollment should be made in a letter stating name, place of birth, residence address and phone number, military obligation or experience, present employment and the name, address and phone number of the firm by whom presently employed. The enrollee's academic degree, school received, and education major should also be stated, as well as the states and category in which the enrollee is registered.

Many firms are requesting space for the school, with the privilege of assigning particular individuals at a later date.

Enrollments should be addressed to the Teaching and Education Office, Department of Civil Defense, Denver Federal Center, Building 50, Denver 25, Colorado.

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## **Building Research Conference November 19 - 21**

The Building Research Institute will hold its 1963 Fall Conferences at the Mayflower Hotel, Washington, D. C., November 19 to 21. Nine programs, covering many areas of building science, have been tentatively scheduled.

*More Effective Land Use for  
Better Communities*

*Control of Impact Noise in  
Buildings*

*Quality Control of Masonry  
Mortars*

*Masonry Design Opportunities  
for Housing*

*Significance of Mechanical Fasteners in Residential Construction*

*Temporary Construction Facilities*

*Restoration and Preservation of  
Historic Buildings*

*Problems of Building Management  
Affecting the Design of Urban  
Renewal Projects*

*Reports on Recent Housing  
Research*

The Conferences are open to the interested public. Attending the meetings will be architects, engineers, building owners and operators, manufacturers, contractors, builders, and technical representatives of industry, educational institutions, and government agencies.

Information about registration and further details about the Conferences may be obtained from Milton C. Coon, Jr., Executive Vice

President, Building Research Institute, 1725 De Sales Street, N. W., Washington 36, D. C.

## **Producers' Council Annual Conference in Washington September 18-20**

Key specifiers and users of building products will have the floor at the Producers' Council's 42nd Annual Meeting and Chapter Presidents' Conference September 18-20 at the Shoreham Hotel, Washington, D. C., as they examine the function of the manufacturer in the total building process.

Producers' Council is the national association of manufacturers of quality building products.

Addressing themselves to the theme, "Viewpoints -- The Customer Speaks," prominent spokesmen for the architectural and engineering professions and for the contractor and sub-contractor, owner, investor, and homebuilder will discuss what they expect from the products, services and representatives of building material manufacturers. They will also discuss how well their expectations are met and what can be done to further improve manufacturer-specifier/user relationships.

Official representatives of Council members and presidents of the Council's 48 chapters will hear A. M. (Brig) Young give the convention's keynote address on Wednesday morning, September 18th. Young, manager of marketing for the Libbey-Owens-Ford Glass Company, is president of the Council.

*A Philadelphia architect, Edmund Bacon, AIA, was among 10 American signing the "Declaration of Delos" at a Greek conference which predicted that the problems of expanding urban areas may soon outstrip all other problems facing mankind except that of Nuclear war.*

*Bacon is executive director of the Philadelphia City Planning Commission.*

*Intellectuals and city planners from 15 countries attended the conference sponsored at Delos by the Athens Technological Institute and Greek City Planner C. A. Doxiades, who maintains that problems of urban life have become so acute and far-reaching that they demand the attention of leaders in every field of study.*



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# Testing Laboratories

## for use by architects

In the last 10 to 20 years substantial strides have been made in the building sciences. To help in developing these and then to study and analyze the resulting products, testing and research laboratories and consultants are being used with increasing frequency.

### Services offered

Following is a generalized list of services offered the architect and his engineering consultants by independent testing firms, as differentiated from work done by other groups such as universities, pure research companies and government agencies.

1. Comparative evaluation of products. Before specifying a particular product the architect may ask for a comparative analysis of several alternates to arrive scientifically at one which best fits the project's needs.

2. Product development. If the architect is designing a new assembly or construction system, or a variation on an existing product, this can be tested from all pertinent aspects. As a rule, a manufacturer related to the subject is available to contribute testing fees.

3. Specifications consultation. Help in writing materials sections of specifications is common, as is advice on local construction habits and conditions.

4. Testing mockups. Specially designed building components (curtain walls, floor systems, interior partitions, etc.) can be "mocked up" and tested for specific performance standards.

5. Basic materials testing. Raw materials proposed for a construction project, e.g. cement, bricks, tile, reinforcing steel, piling, etc., are tested to see if they meet project specifications.

6. Foundation investigation.

7. Testing at any stage of product's life. Materials and assemblies can be tested and inspected at the shop during manufacture or fabrication, when delivered at the job site, when installed, or periodically after a building is completed.

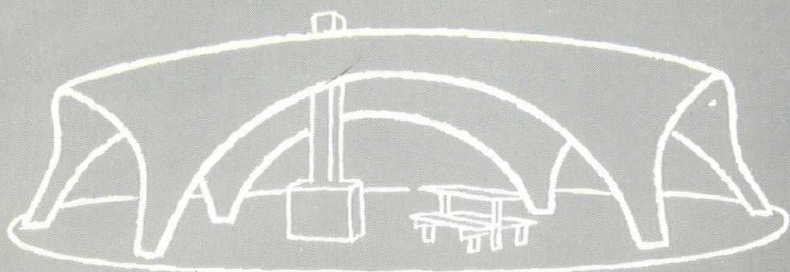
8. Testing certified products. Products which claim specific characteristics by certification or notarization can be spot tested for reliability of these claims.

9. Sampling. Such items as site poured concrete, asphalt, compacted soil, etc. are sampled during construction and analyzed for quality.

10. On-site inspection. Items such as placement of reinforcing bars, precast structural units, pilings, lumber, clay and concrete pipe are inspected during installation by X-ray and other portable methods.

Continued on page 25

**thin shells...**



**...of lightweight concrete**

**“reduced  
weight  
and  
increased  
strength”**

**...with**



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1. Failure investigation. In case of failures during or after construction (falling plaster, leaking basement) a lab can investigate and help fix the blame.

2. Court testimony. If the architect or engineer becomes involved in a law suit which takes in questions of a highly technical nature (chemical, metallurgical, bacteriological, etc.), then laboratory specialists will investigate and give court testimony.

### Choosing a laboratory

Several lists are available. ASTM puts out periodically a comprehensive list of labs approved for ASTM testing. Also, a trade association of laboratories, the American Council for Independent Laboratories (ACIL), publishes annually a directory of its 79 members. This booklet features one-page descriptions of members many of whom, however, do not do construction testing. Another list is compiled by the Building Research Institute and is included in its annual Building Science directory.

Who selects the lab? Where architect and manufacturer are developing a new product, either can make the choice based on past experiences. If the product is to receive a certificate of acceptability from state or local building codes, the laboratory must be recognized by the authorities and specific tests made.

When tests and inspections are called for in the construction specifications, selection and eventual payment, according to competent sources, should be made either by architect, engineer or client. It should not be made by the contractor. The AIA, ASCE and NSPE all feel this policy is best.

Reasons behind this opinion (which is also advocated by the labs themselves) are:

1. It prevents less scrupulous contractors from shopping around for low testing bids (low cost could result in low quality testing);

2. It reduces the temptation of laboratories to be sympathetic in the test results so as to encourage the builder to turn to them again on another job;

3. Required tests cannot be waived or limited by the builder for budgetary or work scheduling reasons. Impartiality of judgment and thoroughness of quality control are increased by this system.

Thus ACIL suggests that either of the two following clauses be incorporated in the specifications:

(A) The Owner will employ and pay for the services of an independent laboratory, selected by the architect or engineer, to perform the services specified herein.

(B) The Contractor shall allow in his bid the sum of \$ \_\_\_\_\_ to cover costs of specified services to be performed by an independent laboratory selected by architect, engineer or owner.

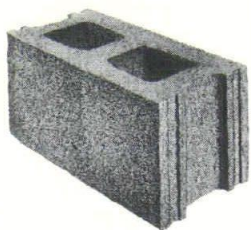
### The cost

The architect or spec writer may consult with the laboratory and an approximate figure is determined. Routine construction tests are usually billed at fixed prices which laboratories will quote in advance. Also many labs offer price sheets outlining costs for labor, test types, and equipment used.

*This material reprinted by American Council of Independent Laboratories from A & E News Digest Report.*

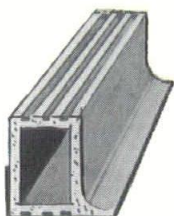
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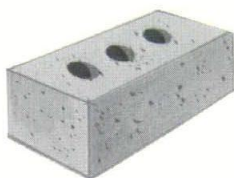
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## heart

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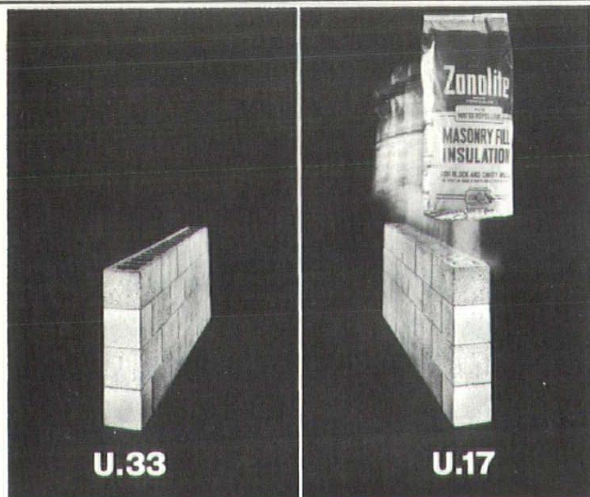
And then the mailman comes. He comes again and again and again--until he gets a little sheepish about it . . . bringing back wrongly addressed issues.

And this costs us money!

We get a new plate made real quick whenever we get a new address for you, nobody's trying.

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