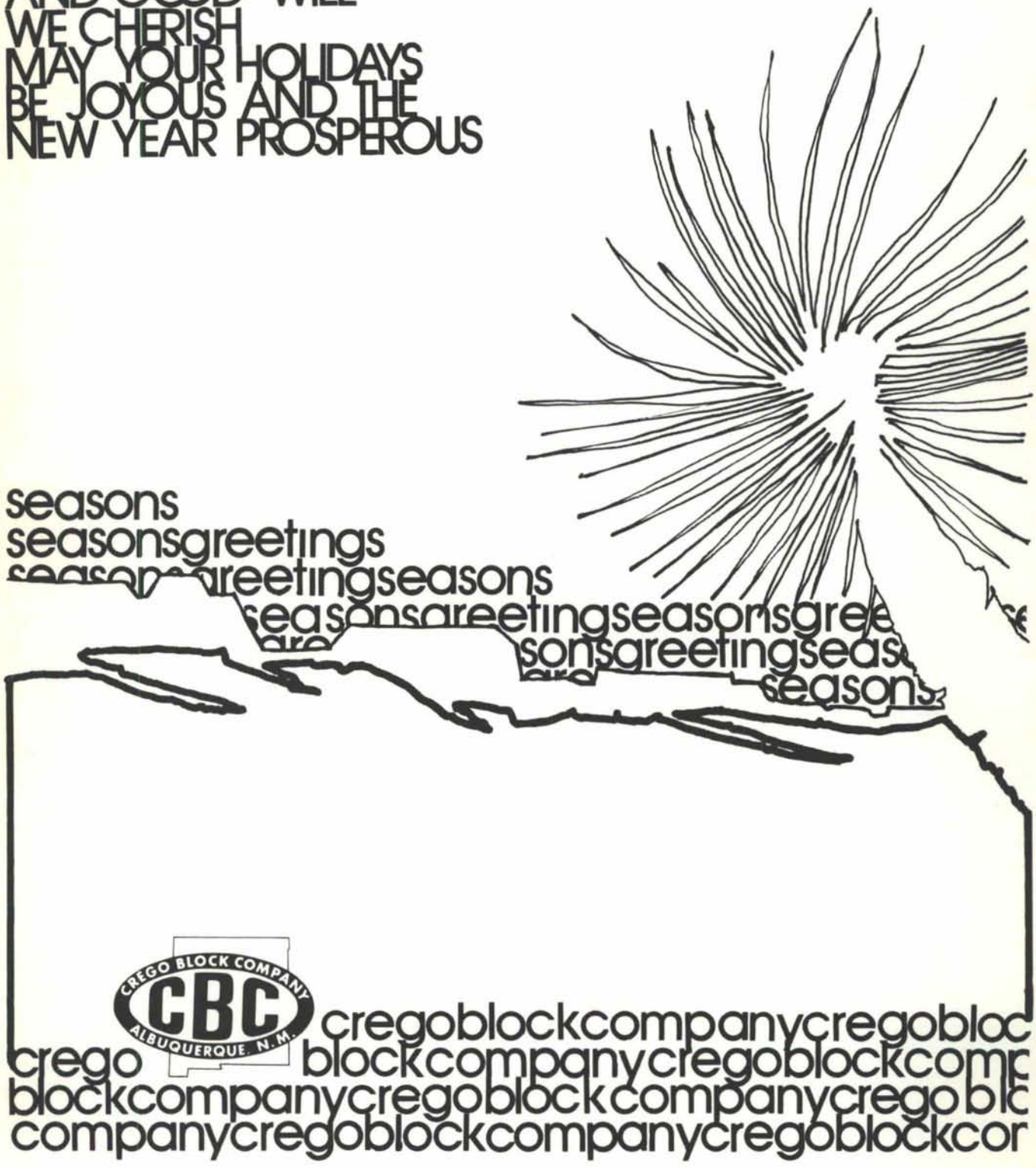
new mexico architecture

November-December 1976

$1.00

AT THIS TIME OF THE YEAR
AS ON NO OTHER OCCASION
WE ARE PRIVILEGED TO GIVE
EXPRESSION TO OUR THOUGHTS
CONCERNING THOSE
WHOSE FRIENDSHIP
AND GOOD WILL
WE CHERISH
MAY YOUR HOLIDAYS
BE JOYOUS AND THE
NEW YEAR PROSPEROUS



nma

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IN THIS ISSUE

are featured two remodeled structures. One is actually an historic house—or, at least, it is almost so. Built in 1937, it is one of New Mexico's few good "International Style" houses. This is not to say that the architect is historic — at least not yet! William Burk, Jr., the architect, is alive, well, working and living in Albuquerque.

The second remodeled structure was young (built in 1966), but too small for present needs. The architect, Joseph Boehning, has added to his original building in such a way as to make one wonder if the original successful design was but the central nucleus about which the recent expansion was indeed expected to grow.

□ □ □ □

A TIME FOR A WELL EARNED THANK YOU

With the September/October issue of **NMA** a name slipped off the "Commission" list on this page. Robert G. Mallory, A.I.A., asked to be relieved of the burdening task of Advertising Director. Bob first became actively associated with the production of this magazine with the July/August 1968 issue. Miles Brittelle, Sr., asked Bob to assist him in the securing of advertising, which, we all know, and I perhaps most of all, is our life's blood. (Without the support of the advertiser, we have no magazine!) When Miles died on January 7, 1970, Bob took upon himself the full task of Advertising Director.

For these many years Robert G. Mallory has served us well. Those of us who produce this magazine are grateful beyond our ability to adequately say so; the New Mexico Society of Architects is forever in his debt.

Thank you, Bob Mallory.

(Cover — UNM Arena — Jerry Goffe — Photographer)

—Official Publication of the New Mexico Society of Architects, A. I. A.—

Another building, another boost for the Trus Joist system.

Baker Construction Co. of Albuquerque is no stranger to Trus Joist. When architect John Reed called on us to supply a system for the Geology/Engineering Bldg. for Ranchers Exploration and Development Corp. Les Baker was pleased. Upon completion of the Trus Joist installation he told us:

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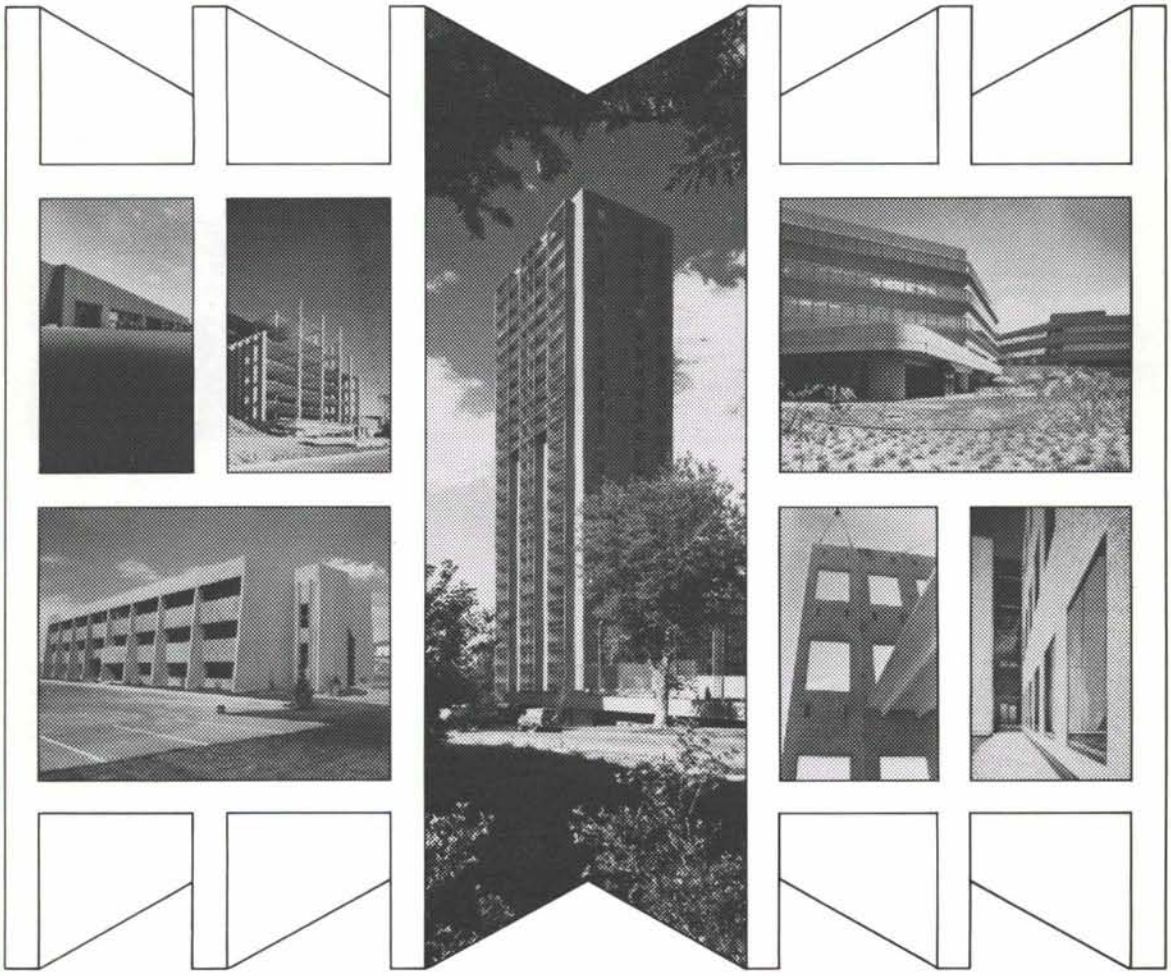

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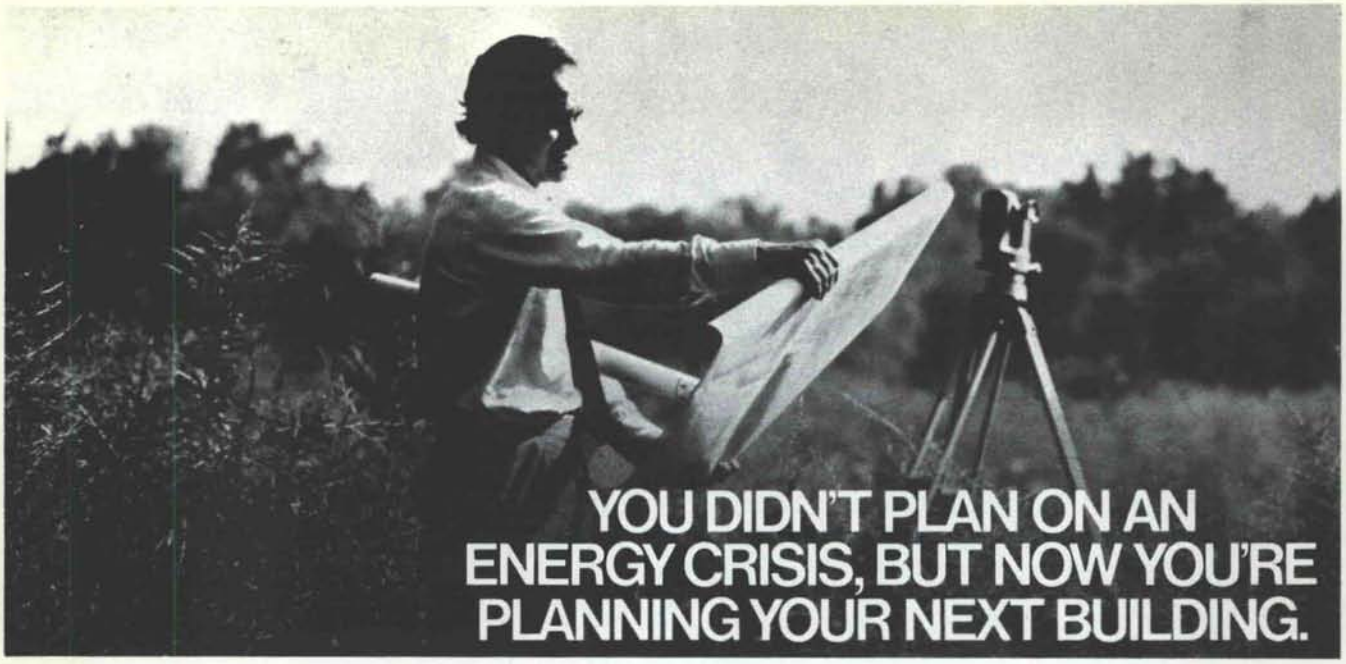

YOU DIDN'T PLAN ON AN ENERGY CRISIS, BUT NOW YOU'RE PLANNING YOUR NEXT BUILDING.

Which building material will you use?

You've got energy shortages to think about. Air-conditioning costs. Heat gain through the long, hot summers. Heat loss in the winter months. Heating equipment costs. The whole set of energy-use factors suddenly has become critically important. The building material you use affects all of them.

Compare the energy conserving capability of masonry, for instance, with double-plate glass walls.

At 4:00 P.M. on a hot August day in Washington, D.C., the heat gain through a square foot of west-facing insulated brick and concrete block wall will be 2.2 Btus an hour.

The heat gain through a double-plate glass wall in the same location will be 173 Btus a square foot in an hour. A big difference.

Project this differential over 10,000 square feet of wall. You come up with a heat gain through masonry of 22,000 Btuh, while the heat gain through double-plate glass is 1,730,000 Btuh.

In the case of the masonry wall, cooling equipment with a two-ton capacity can handle the heat gain. But with the double-plate glass wall, about 143 tons of cooling capacity will be needed.

An analysis of a typical 10-story building shows that over its useful life, the air-conditioning cost for a square foot of our masonry wall will be about 23 cents. For the double-plate glass wall, it will be $7.60.

It takes a lot of money to buy, install and create space for all the extra air-conditioning equipment required by the double-plate glass wall. A lot of money and a lot of energy to run that equipment.

Compare the heat loss in winter. It has a dramatic effect on energy consumption and building operation costs.

Our masonry wall, for example, has a "U-value" of .12. The double-plate glass wall has a "U-value" of .55. (U-values are used to determine heat loss through one square foot of wall area in Btuh per degree Farenheit differential across the wall.)

This means that the masonry wall is about 450% more efficient, on the average, than the glass wall in reducing heat loss.

Over the useful life of the building, the heating cost per square foot of wall area for masonry will be about 30 cents. For double-plate glass, about $1.38.

In a time of one energy crisis after another, masonry makes eminently good sense as a good citizen.

The masonry industry believes that the thermal insulating qualities of masonry are an important economic consideration to building designers, owners and investors, and all citizens.

Masonry walls save on air-conditioning and heating costs. And just as important, they are less expensive to build. The masonry wall we've described would have a 38% lower initial cost than the double-plate glass wall.

If you'd like to find out more, write to us and we'll send you a booklet comparing the thermal insulating qualities of masonry walls with double-plate glass walls, metal panel walls and pre-cast concrete walls.

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Please send the booklet comparing insulating qualities of masonry with other building materials.

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