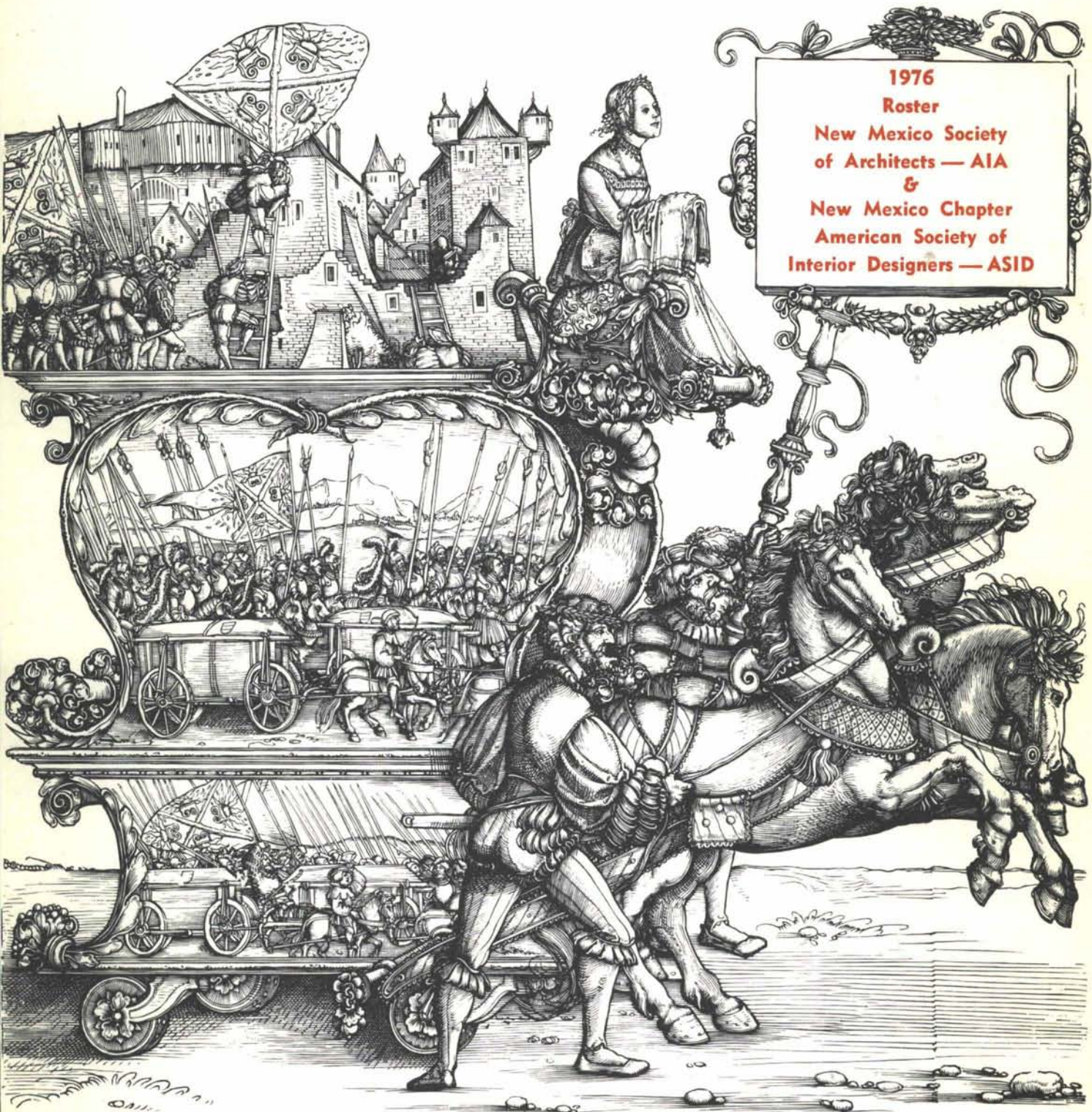


new mexico architecture

march-april 1976

\$1.00



1976

Roster

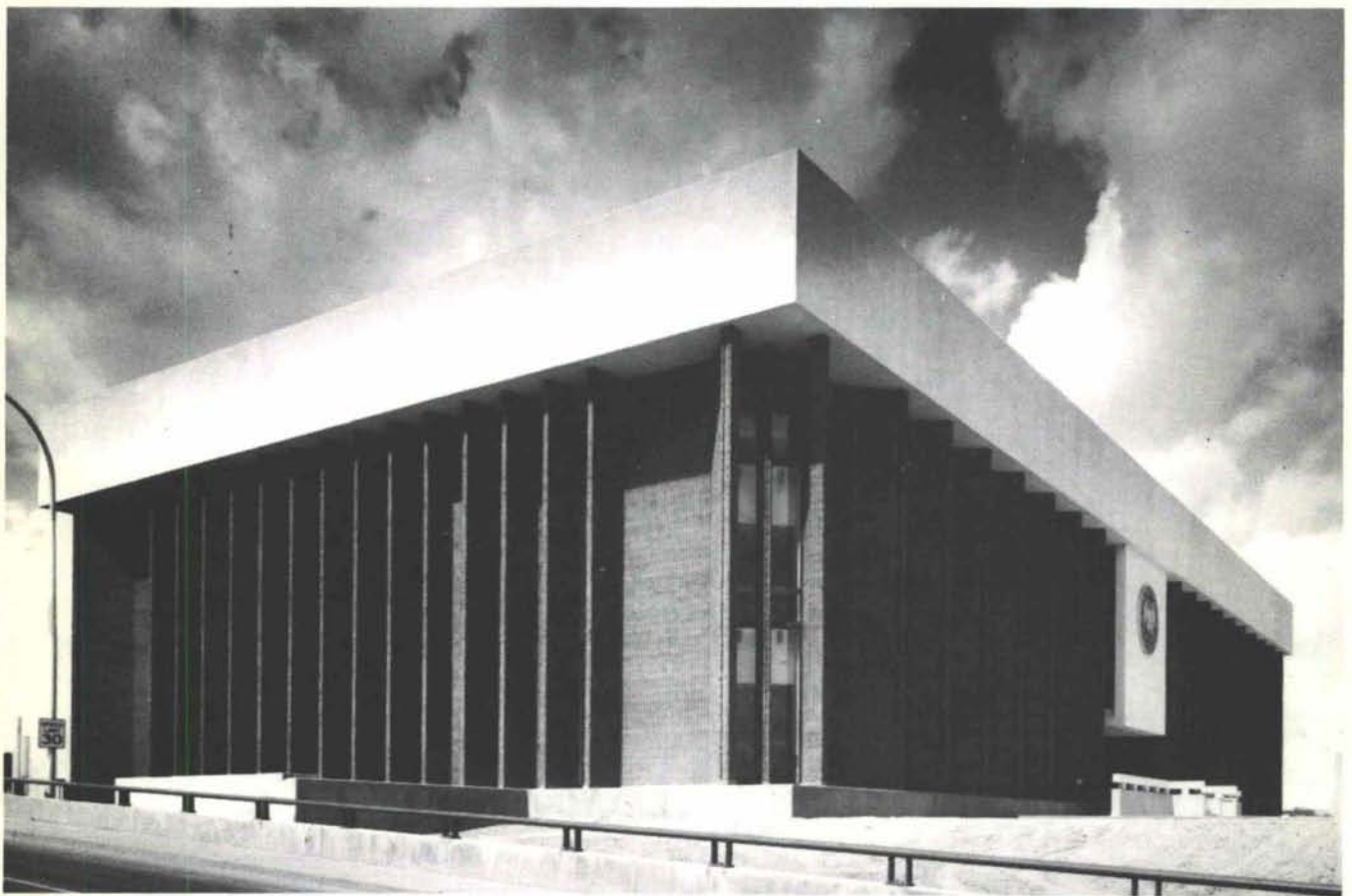
New Mexico Society
of Architects — AIA
&
New Mexico Chapter
American Society of
Interior Designers — ASID

THE MASONIC TEMPLE IN LAS VEGAS, NEW MEXICO

by Louise Harris Ivers

A recent study, "NEW INSIGHTS INTO ENERGY USE IN STRUCTURES" establishes that concrete block, properly used, can effect significant savings in energy.

Small wonder that government and public bodies around New Mexico are using it in such volume!



Jerry Goffe Photo



Integrally colored split-ribbed customized concrete block lends dignity and distinction to the new EMPLOYMENT SECURITY COMMISSION OFFICE BUILDING in Albuquerque.

Architect

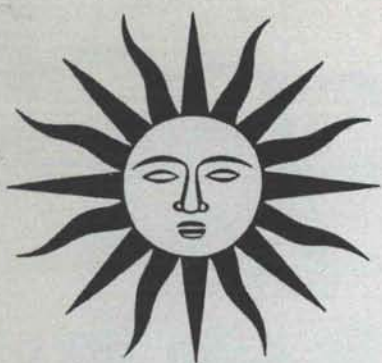
W. C. Kruger & Associates

**General
Contractor**

K. L. House Construction Co.

**Masonry
Contractor**

Kenneth P. Thompson Co., Inc.



vol. 18 no. 2

In this Issue—

Louise Harris Ivers continues to supply us with documentation on the historic buildings in Las Vegas, N. M. Beginning on page 9 is the architectural background of the Masonic Temple. Previously she has detailed the history of the Charles Ilfeld Building of 1890-91 (March/April 1970 **NMA**) and the Castaneda Hotel of 1897-1898 (May/June 1974 **NMA**).

□ □ □ □

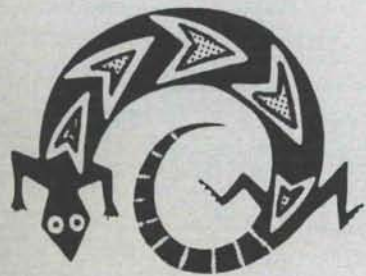
Coming—

Poland. Well beyond the expected deadline, the May/June issue will be my report on a fascinating trip to Poland to see their efforts and accomplishments in the world of historic preservation. The report is longer by far than anticipated, so the May/June issue will be thicker by many pages. I only hope that it doesn't bore you.

A CORRECTION

In the January/February 1976 issue of **NMA**, a mistake in contractor credit was made in the Crego Block Company Advertisement. The LEMBKE CONSTRUCTION COMPANY of Albuquerque should have been listed as the General Contractor.

JPC



nma

march-april 1976 • new mexico architecture

NMA News 9

Letters to the Editor,
Mr. Yuk and the New Mexico
Poison and Drug Center

The Masonic Temple in Las Vegas, N. M. 15

—Louise Harris Ivers

1976 Roster—New Mexico Society of Architects 11

1976 Roster—New Mexico Chapter American Society of Interior Designers 14

Index to Advertisers 22

(Cover—from *THE TRIUMPH OF MAXIMILIAN I*—Burgkmair)

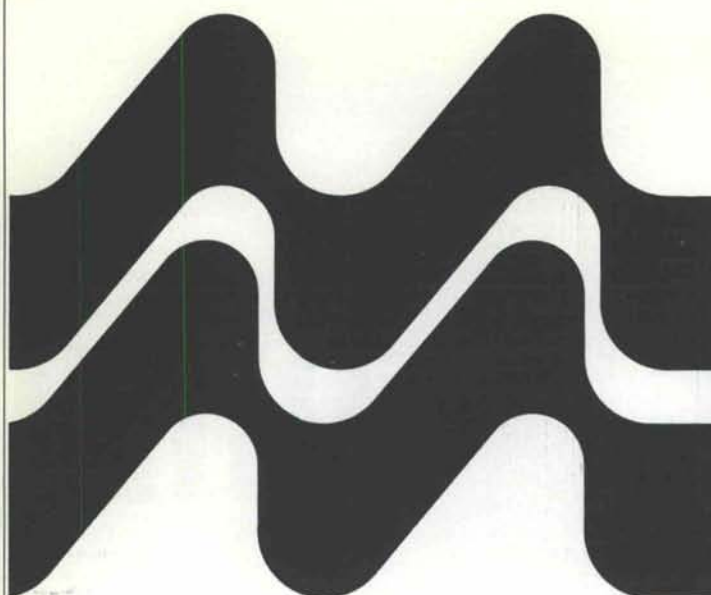
—Official Publication of the New Mexico Society of Architects, A. I. A.—

Society Officers

President—Robert C. Campbell
Vice President—George C. Owen
Secretary-Treasurer—Kern W. Smith
Director—Loren E. Mastin
Director—Charles Nolan, Jr.
Director—John W. McHugh
Director—Donna Quasthoff
Director—Eugene L. Hunt
Director—Edwin C. French
Director—Robert J. Strader, Jr.
Director—John P. Conron FAIA/FASID

Commission for NMA

John P. Conron, FAIA/FASID—Editor
Ronald K. Hill—Associate Editor
Bainbridge Bunting—Editorial Consultant
Robert G. Mallory—Advertising
Mildred Brittelle—Accounting
and Circulation
John W. McHugh
Sam Pool



Century Glazed MISSION TILE

*Classic, simple to install,
fireproof, weatherproof, made
of concrete, yet lighter than
clay, stronger than clay at a
fraction of the cost of clay.*

Century roof tile, inc.

2700 Second St., S. W.
Albuquerque, New Mexico 87102

A PRESTRESSED CONCRETE BUILDING IDEAL FOR A MANUFACTURING FACILITY



The new manufacturing building owned by Malibu Pools in Albuquerque is an all concrete structure. Precast-prestressed twin tees form the walls and roof. The 10,000 sq. ft. roof supports a four ton bridge crane that works in a 25 foot clear ceiling area.

The 86 precast members in the building were erected in seven days.

Prestressed concrete is the versatile building material.

ARCHITECT - Rex-Norton, Architects
STRUCTURAL ENGINEERS - McCornack & Burns
CONTRACTOR - Bart Gilbert, Inc.

PRESTRESSED 
CONCRETE PRODUCTS, INC.

1304 Menaul Blvd., N. E., Albuquerque, N. M. 87105 (505) 345-5671



Become a participant in the revitalized



HISTORICAL SOCIETY of NEW MEXICO

Post Office Box 4638

Santa Fe, N. M. 87501

Name _____

Address _____

Zip _____

Annual Dues ☐ Individual\$10.00 ☐ Contributing\$ 40.00
☐ Student\$ 5.00 ☐ Life\$1,000.00
in one payment

SOCIETY MEMBERS MAY SUBSCRIBE AT REDUCED RATES TO:

☐ "NEW MEXICO HISTORICAL REVIEW"\$4.50 year
Published by the University of New Mexico @ \$6.00 year

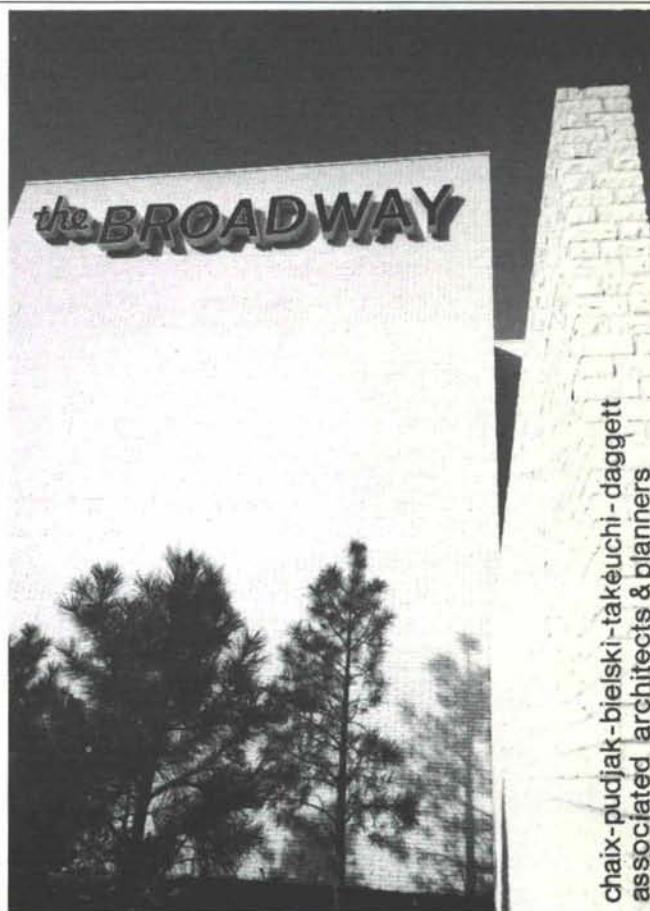
☐ "NEW MEXICO ARCHITECTURE" magazine \$4.00 year
Published by the New Mexico Society of Architects @ \$5.00 year

Rock Face Norman is not the new security chief at the Broadway.

Its our name for the
striking custom brick
chosen by The
Broadway and its
architects for a major
contribution to an
image of quality.

SUMMIT BRICK

5905 MARBLE, NE ALBUQUERQUE NM 268 9764



Your
business
has to
change with
the times,
so why
have walls
that won't?

*New
Mexico
Office
Furniture*



Steelcase Movable Walls

A wall that's only a wall is an obstacle. But a Steelcase Movable Wall System can form an office today or a conference room tomorrow or two or three work-stations the day after. In other words, it gives you unlimited flexibility in planning your office interiors. And that's a boon to any business.

6437 LINN AVE. N.E. • ALBUQUERQUE, NEW MEXICO • (505) 265-7841

FLEX SHIELD

waterproof flexible texture coating

Heavy texture coating for all types of
exterior/interior masonry surfaces.
DURABLE • FLEXIBLE • WATERPROOF

3 RECENT FLEX-SHIELD applications in Albuquerque

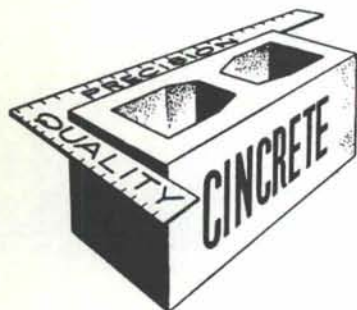
TWO PARK PLAZA HIGH RISE
OFFICE BUILDING

ALBUQUERQUE INN

NATIONAL BUILDING

Wellborn PAINT

Mfg. Company, Albuquerque, N.M. 877-5050



serving New Mexico
and the El Paso area
with

Quality Concrete Masonry Products and many allied building materials

Modernfold Wood and Plastic Folding Doors

*Hollow Metal Doors and Frames
Steel and Formica Toilet Partitions
Commercial Toilet Accessories*

*Reinforcing and Fabricated Steel
Commercial Hardware
Moderncote Vinyl Wall Covering*

Residential and Commercial Steel and Aluminum Windows

Builders Block & Stone Co., Inc.

P. O. Box 1633
Roswell, N. M. 88201
505 622-1321

Builders Block & Stone Co., Inc.

P. O. Box 10284
Albuquerque, N. M. 87114
505 265-6085

Builders Block & Supply Co., Inc.

P. O. Drawer FF
Las Cruces, N. M. 88001
505 524-3633

Builders Block & Supply Co., Inc.

Telephone
El Paso
915 532-9695

Members: New Mexico Concrete Masonry Association, National Concrete Masonry Association





Stuff the block, save the building.

Pouring Zonolite® Masonry Fill Insulation into masonry walls can increase fire ratings from two up to four—count them—four hours.

Reduces sound transmission to a murmur.

Doubles the insulating value of the wall to prevent chills and sweats of the occupants while inducing a state of euphoria over low heating and air conditioning bills.

What more do you want for as little as a dime per square foot?

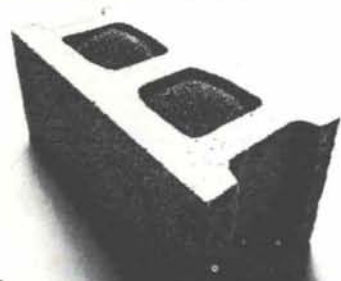
Remember. Stuff the block, save the building.

Also remember to mail coupon right now for

ZONOLITE **GRACE**

SOUTHWEST VERMICULITE CO.

BOX 6302 ALBUQUERQUE



Just say Grace.

FROM CONCEPT TO COMPLETION



Exclusive distributors for TAYLOR

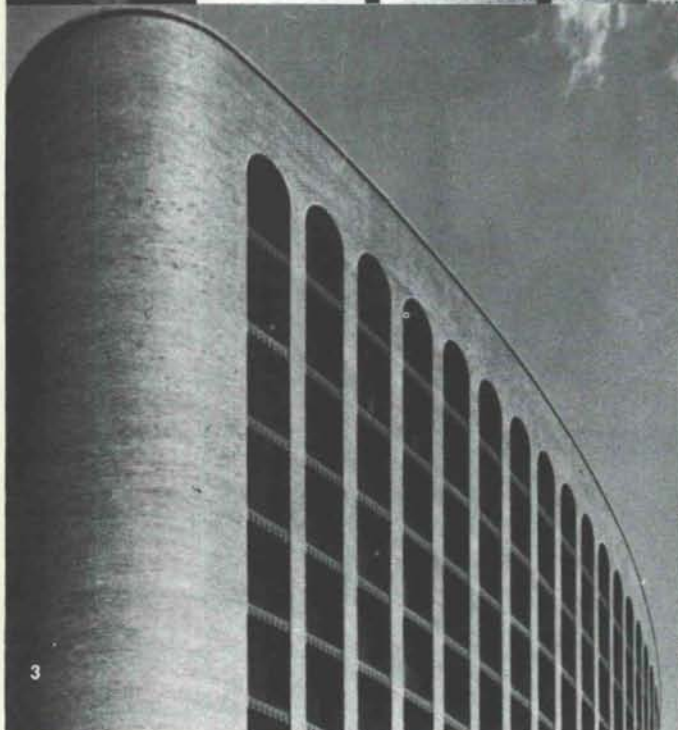
Consultation Planning Design Layout

Criteria, skill, artistry and experience are fused to produce laboratory furniture meeting the most exacting requirements of contemporary science educators and architects. Units immediately available and within the reach of any school or institutional budget.

Architects use our design consultation services for:
Science Labs / Offices / Artrooms / Dormitories /
Libraries / Auditorium Seating / Home Economics
Labs / Gymnasiums

UNIVERSITY BOOK STORE ALLIED SUPPLY CO.

2122 Central, SE
Phone 243-1776
Albuquerque, N. M.



1. Richmond Coliseum, Richmond, Virginia. Architects: Vincent G. Kling & Partners. Photo courtesy Brick Institute of America. 2. Southeastern Massachusetts University, Arts and Humanities Building, North Dartmouth. Associated Architects: Desmond & Lord, Inc., and Paul Rudolph, FAIA. Interior Consultant: Bill Bagnall Associates, Inc. 3. Public Service Alliance of Canada Building, Ottawa. Architects: Schoeler Heaton Harvor Menendez Associated Architects. Photo courtesy Brick Institute of America. 4. Executive Headquarters and Nassau Center Office, Hempstead Bank, Garden City, Long Island. Architects: Bentel & Bentel, AIA.

**RUMORS THAT THERE ARE
BUILDING SYSTEMS MORE VERSATILE THAN MASONRY
ARE TOTALLY WITHOUT FOUNDATION.**

INTERNATIONAL MASONRY INSTITUTE
Suite 1001, 823 Fifteenth Street, N.W., Washington, D.C. 20005



LETTERS TO EDITOR

Editor,

I finished reading your editorial in the Nov./Dec. issue of N.M.A. and after wiping the tears from my eyes (too much unabashed laughter at a good joke) I decided to write to you to share the humor (rhymes with tumor).

A paradoxical statement is often funny so I thought I would start with the one that permeates your editorial. In a matter of fact way you mention that an Indian Museum, in some fashion, is being planned and will be built eventually. Your main topic appears to be that Mr. Owings and Company have not listened to nor asked for input from key historical committees and associations—regarding the Hewett House. I would like to inform you that the officials (some of whom are my relatives) at a large pueblo in New Mexico have had zero input in the development of an Indian Museum. In fact it is very rare for these associations, committees, and the Museum of New Mexico to get direct input or advise, or to take the simple step of informing the people most directly involved. Any statement to the contrary is pure bull. The Museum, associations and the committees prefer to rely on “professional” experts (they read Bandelier and Waters). I am reminded of the thief who called “foul” after another thief stole his previously stolen loot!

The next funny and misinformed statement in your editorial was the one that stated that you believed there were no alternate plans developed to include the Hewett House. In fact, more than one student architectural team at the University of New Mexico produced programs and phased design schemes that used the Hewett House as an integral part of museum development. These plans, including drawings and a color/sound film, were presented to the State Legislature in 1972/73 to help obtain initial funding for the Museum of New Mexico. Of course

they were only student architects from the University of New Mexico and it must have been a fluke that they were sensitive enough to include the Hewett House. Everyone knows that the University of New Mexico doesn't produce good architects anymore (or is it cheap labor?).

Funding (money), not the Hewett House, is really the key issue in this matter of architects. Protégés of the bush league master, J. G. Meem, sat waiting for the museum to get some (so fees could be paid). After the museum finally started to get major recognition and funding from the state (with professional help from “student architects”), two major leaguers, in the form of Mr. Owings and Mr. Barnes, came along. You wasted ink when stating that Barnes was an “out-of-state architect.” The museum chose a qualified practicing architect and to do so they had to go “out-of-state.” It is my understanding that Mr. Barnes chose an in-state architect that he felt was qualified enough to represent him in New Mexico.

Finally, in my opinion, publishing the fee paid to Mr. Barnes in your article (considering the tone of the piece) was extremely poor judgement and in bad taste. I realize that this bit of financial information was meant to stir-up the local yokels (that's the only thing that will do it). However, Mr. Conron, by doing so you have blown your cover of historical piety.

Sincerely yours,
Marc A. Giaccardo
Albuquerque, N. M.

□ □ □ □

Editor,

My copy of the December issue of *New Mexico Architecture* arrived, and gladdened me with a photograph of the Hewett House. What a surprise to read on, into your excellent editorial, to discover the building may be demolished.

Every time we return to Santa Fe, it seems more atmosphere has

leaked out. The destruction of the Hewett House certainly fulfills a sad pattern of cultural denial, and predicts that Santa Fe too can achieve the status of pop art. But this matter is too painful even to ridicule.

Please allow me to add my support for the preservation of the Hewett House. You are free to show this statement to anyone seriously interested in the people and future of Santa Fe. Both will be insulted and ignored by the disappearance of the Hewett House.

Sincerely yours,
Richard E. Ahlborn
Chairman
Department of
Cultural History
Smithsonian Institution
Washington, D.C.
20560

□ □ □ □

Mr. Tibo Chavez, President
Board of Regents
Museum of New Mexico

Dear Mr. Chavez:

I would like to urge preservation of the Hewett House. It would appear that the house is worthy of its National Register listing and of every special consideration. In contrast, apparently, expansion of the museum is being considered in a haphazard way, without clear understanding of present and future needs.

Therefore, I would suggest “backing up” and doing some long range master planning for the Museum, much as Mr. Conron has suggested in the “New Mexico Architecture” magazine. A fundamental step could be to outline the objectives of the Museum as an institution; and I submit that one of these could be to preserve its own historic structures.

You will understand that I am entirely friendly to the Museum, but I believe better thinking needs to be employed.

Sincerely yours,
Jerold G. Widdison
Albuquerque, N. M.

LETTERS, CONTINUED

Editor:

There has been quite a lot of discussion about making public buildings at least easier for handicapped people to enter, leave and use. I'm not handicapped but I have a big gripe. Access ramps are fine, but huge, heavy doors make a mockery of the ramps. Examples?

Take a look at the doors on the Capitol Building! It practically takes a derrick to open the massive door, and for a woman (particularly one carrying a package) impossible. One tugs, grunts, cusses (very sedately of course) and waits for a big, strong male. The main door on the new hospital at Raton is much the same—beautiful but where is the electric eye if they are going to stress easy access? Try the State Library doors—huge, very lovely to look at, and with an arm load of books, impossible for the “senior” citizen. Sure, that's my category, even though I despise it. I've been a citizen all my life, why make me a senior just because I remember 50 years ago better than where I put my car keys last night? Supermarket electric eyes are wonderful—I can carry in my returnable soft drink bottles without a hassel and the market furnishes a boy to carry out purchases.

I know about wheelchairs, a little at least, for my aged mother is either in bed, or in a wheelchair twice a day. After a stroke she's hospitalized, and I wheel her through long halls, into the recreation and activity rooms, the elevator and sun room. Miner's Hospital (Raton) is old fashioned, but the human element is *not*. Their doors are not two stories high and architects should try pushing wheelchairs a few times before they put out designs. Looking lovely is nice, but not enough!

Sincerely,
Alice Bullock
Santa Fe, N. M.

MR. YUK AND THE NEW MEXICO POISON & DRUG CENTER

“He's gucky and yukky. Kid's don't like him—and that's the main idea,” says Dr. Diana F. Rodriguez Calvert, director of the New Mexico Poison, Drug Information and Medical Crisis Center.

The Center, assisted by local Optimist Clubs throughout New Mexico, is kicking off a major campaign to help parents keep their children from accidental poisonings. The focal point of their campaign will be “Mr. Yuk”—a bilious green round face with the corners of his mouth turned down, and his tongue sticking out.

Mr. Yuk stickers should be placed on anything in the house which children should stay out of. They should be taught that “Mr. Yuk is a no-no,” Dr. Calvert said.

The New Mexico Poison, Drug Information and Medical Crisis Center is located in the Bernalillo County Medical Center. Its activities are coordinated with the Emergency Medical Services Division of the New Mexico Health and Social Services Department, and the Center serves as an integral portion of the emergency medical communication system for the state of New Mexico.

Mr. Yuk stickers and posters may be obtained by contacting the Poison Center at BCMC, or any local Optimist.

Every Mr. Yuk sticker contains the free phone number of the New Mexico Poison Center: 1-800-432-6866. Within Albuquerque the local number is 843-2551, while out-

side of Albuquerque, residents may phone the center without charge, by dialing 1-800-432-6866.

The Center is open 24 hours, seven days a week—and is growing rapidly. In January, 1973, the Center received 67 calls—and in January, 1975, the Center received 706 calls. About two-thirds of the calls come from the public and the rest are from health professionals from all over the state.

Questions asked cover a wide area: drug overdoses, poisonings, and medical crises unrelated to drugs. Six pharmacists, speaking both English and Spanish, respond to all initial requests for assistance. Other specialists such as pediatrics, emergency medicine, burn, and trauma are readily available.

The New Mexico Poison Center is a part of the National Poison Center Network, which has given permission to use the Mr. Yuk symbol in this area.

The old “skull and crossbones” used in the past to identify poisons has been proven to have little meaning for children of today, since it is seen so often in cartoons and amusement parks to connote happy, exciting things. A testing program was developed to see which of six symbols a child would NOT want to play with—and the scowling green face was found least attractive. One child, declining to pick up the bottle, even named the new symbol when he declared: “He looks yukky!”

“We just want the people of New Mexico to know that if anyone—child or adult—has swallowed poison or other dangerous substance, the Center is here to help with immediate, accurate information about what to do and how to help,” Dr. Calvert said.

The Center also has readily available information on plants and insects which may be poisonous, and how to treat these problems. The Center is connected with the emergency rooms of all local hospitals, and with the national poison center for assistance with uncommon problems.



AIA--1976--AIA

The New Mexico Society of Architects

OF THE AMERICAN INSTITUTE OF ARCHITECTS

President.....	Robert C. Campbell	Director.....	Donna Quasthoff
Vice President.....	George C. Owen	Director.....	Eugene L. Hunt
Sec.-Treas.....	Kern Smith	Director.....	Edwin C. French
Director.....	Loren E. Mastin	Director.....	Robert J. Strader, Jr.
Director.....	Charles E. Nolan, Jr.	Director.....	John Conron, FAIA/FASID
Director.....	John W. McHugh		

ALBUQUERQUE CHAPTER A.I.A.

President.....	Loren E. Mastin	Director.....	Christiana B. Burk
President-Elect.....	Channel Graham	Director.....	William L. Burns
Secretary.....	H. William Fanning	Director.....	Eugene L. Hunt
Treasurer.....	Joseph Della Longa	Director.....	Wallace A. Wendell

Fellow

Flatow, Max

5608 Zuni, S.E.
Albuquerque 87108
268-6783

Corporate Members

Andrews, Wayne G.

5608 Zuni, S.E.
Albuquerque 87108
265-8329

Antonaides, Anthony C.

Department of Architecture
Univ. of Texas at Arlington
Arlington, Texas 79110

Armstrong, Robert F.

3705 Westerfield Drive, N.E.
Albuquerque 87111
294-8388

Barker, Hildreth L.

8338-B Comanche Rd., N.E.
Albuquerque 87111
295-4886

Benson, Harold R.

P. O. Box 156
Taos 87517
758-2864

Boehning, Joseph F.

2005 Carlisle Blvd., N.E.
Albuquerque 87110
268-8785

Bol, Andrew

8338-B Comanche Rd., N.E.
Albuquerque 87111
295-4886

Bolling, George H.

4101 Delmar, N.E.
Albuquerque 87110
883-2600

Brittelle, W. Miles, Jr.

2601 Wyoming, N.E.
Albuquerque 87112
294-4988

Brown, Glynn

1330 Louisiana, N.E.
Albuquerque 87110
265-8221

Bryan, Garlan D.

5608 Zuni, S.E.
Albuquerque 87108
268-6783

Buckley, William

3305 Campus Blvd., N.E.
Albuquerque 87106
255-9196

Burk, Christiana

512 Yale Blvd., S.E.
Albuquerque 87106
255-7537

Burk, William E. III

512 Yale Blvd., S.E.
Albuquerque 87106
255-7537

Burns, William L.

8100 Mountain Road Pl., N.E.
Albuquerque 87110
265-3646

Burwinkle, Joseph B., Jr.

3209 Silver Ave., S.E.
Albuquerque 87106
268-9987

Campbell, C. Robert

115 Amherst Dr., S.E.
Albuquerque 87106
255-8668

Campbell, Douglas A.

3500 Indian School Rd., N.E.
Albuquerque 87106
266-5521

Castillo, Guadalupe

Post Office Box 699
Bernalillo 87004
842-0755

Cohlmeyer, Robert C.

4812 Madison Court, N.E.
Albuquerque 87110
277-2648

Coppedge, Michael

335 Jefferson, S.E.
Albuquerque 87108
268-9212

Crawford, Dale L.

117 Jefferson, N.E.
Albuquerque 87108
265-0986

Dekker, Arthur W.

2609 Quincy, N.E.
Albuquerque 87110
256-3308

Della Longa, Joseph A.

13532 Cedarbrook, N.E.
Albuquerque 87111
294-8533

Del Mastro, Michael

457 Washington, N.E., Suite B
Albuquerque 87108
256-3030

Dick, Deryl E.

3817 Delmar Ave., N.E.
Albuquerque 87110
881-6423

Dysart, Cabot

Post Office Box 1067
Corrales 87048
898-6629

Fackelman, Thomas A.

5608 Zuni, S.E.
Albuquerque 87108
268-6783

Fanning, H. William

4100-F Silver Avenue, S.E.
Albuquerque 87108
266-5874

Fernandez, Manuel A.

2720 Carlisle Blvd., N.E.
Albuquerque 87110
256-1427

Fletcher, Donald F.

103 Amherst, S.E.
Albuquerque 87106
265-7703

Fu, Yum Kee

500 17th Street, N.W.
Albuquerque 87104
243-5939

Garcia, Lawrence A.

1605 Carlisle Blvd., N.E.
Albuquerque 87110
255-7561

Gathman, Walter A.

203 Truman St., N.E.
Albuquerque 87108
265-8329

Gilbert, Van

418 Tulane, S.E.
Albuquerque 87106
268-0280

Graham, Channell

807 Eighth Street, N.W.
Albuquerque 87104
243-1721

Gunning, Donald G.

9908 Robin, N.E.
Albuquerque 87112
843-9587

Harrison, P. B., Jr.

333 East Main
Farmington 87401

Hesselden, Louis G.

213 Fourth Street, N.W.
Albuquerque 87102
243-4559

Holmes, Jess T., Jr.

5905 Marble, N.E.
Suite No. 10
Albuquerque 87110
256-9864

Hooker, Van Dorn

Box 18, UNM Station
Albuquerque 87131
277-2236

Hoshour, Harvey S.

201 Coal Avenue, S.W.
Albuquerque 87102
843-6900

Hunt, Eugene L.

4665 Indian School Road, N.E.
Albuquerque 87110
255-4864

Hutchinson, Ron

601 San Pedro, N.E.
Albuquerque 87108
265-8452

Johnson, John J.

212 Dartmouth, N.E.
Albuquerque 87106
265-1611

Jones, Wendell L.
178 Calle Monte Alpanada, N.W.
Albuquerque 87120
831-6029

Kite, Chester
6712 Loftus, N.E.
Albuquerque 87109
294-0380

Krueger, Donald
1336 Wyoming Blvd., N.E.
Albuquerque 87112
293-7888

Krueger, Robert H.
Suite 1100
Bank of N.M. Building
Albuquerque 87102
842-8663

Lake, Gerald H.
601 San Pedro Dr., N.E.
Suite No. 105
Albuquerque 87108
265-8452

Long, Joseph D., Jr.
8009 Mountain Road Place, N.E.
Albuquerque 87110
265-5775

Mallory, Robert G.
115 Amherst Dr., S.E.
Albuquerque 87106
255-8668

Mason, G. Stanton
920 First St., N.W.
Albuquerque 87102
242-1107

Mastin, Loren E.
103 Amherst, S.E.
Albuquerque 87106
265-7703

Miller, James
6717 Baker, N.E.
Albuquerque 87109
296-7763

Milner, Richard P.
106 Girard, S.E., No. 119
Albuquerque 87106
256-7126

Mitchell, Donald A.
2018 Coal Place, S.E.
Albuquerque 87106
243-0878

Moore, Jason P.
5608 Zuni, S.E.
Albuquerque 87108
268-6783

Pacheco, Jesse A., Jr.
807 Eighth Street, N.W.
Albuquerque 87104
243-1721

Pearl, George C.
115 Amherst Dr., S.E.
Albuquerque 87106
255-8668

Peters, Ronald L.
8100 Mountain Road Pl., N.E.
Albuquerque 87110
265-3646

Ponto, Robert C.
4055 Montgomery, N.E. B-7
Albuquerque 87109
881-8282

Predock, Antoine
300 12th Street, N.W.
Albuquerque 87102
243-6162

Ragsdale, Michael
P. O. Box 801
Los Alamos 87544

Rainhart, George R.
1012 Adams St., S.E.
Albuquerque 87108
268-1148

Reed, John B.
5905 Marble Ave., N.E.
Suite No. 12
Albuquerque 87110
265-8505

Rocheleau, Robert L.
4125 Carlisle Blvd., N.E.
Albuquerque 87109
881-6336

Ross, Leon A., Jr.
5608 Zuni, S.E.
Albuquerque 87108
268-6783

Rowland, James N.
2403 San Mateo, N.E.
No. 9 Plaza
Albuquerque 87110
265-8378

Rupley, John D.
305 San Pedro, N.E.
Albuquerque 87108
266-2777

Sauermann, Herbert W.
8915 Central, N.E. No. 10
Albuquerque 87123
842-8663

Sample, Jack
4121 Wyoming Blvd., N.E.
Albuquerque 87111
293-7576

Schlegel, Donald P.
1620 Central Ave., S.E.
Albuquerque 87106
247-8558

Shaffer, Donald M.
5608 Zuni, S.E.
Albuquerque 87108
268-6783

Shelton, Bill J.
335 Jefferson St., S.E.
Albuquerque 87108
255-9690

Stevens, Donald P.
115 Amherst Dr., S.E.
Albuquerque 87106
255-8668

Stout, M. Kent
457 Washington, S.E.
Albuquerque 87108
265-2335

Stubbs, Frank R.
P. O. Box 4111
Albuquerque 87106
266-4484

Toohy, John E.
P. O. Box 663
Farmington 87401

Torr, Jerry R.
2403 San Mateo, N.E., No. S12
Albuquerque 87110
266-7873

Varsa, John P.
903 Rio Grande Blvd., N.W.
Albuquerque 87104
242-5403

Volz, Charles W.
9424 Rio Grande Blvd., N.W.
Albuquerque 87114
898-0645

Waters, Bill J.
8009 Mountain Road Place, N.E.
Albuquerque 87110
265-5775

Weller, Louis L.
335 Jefferson Street, S.E.
Albuquerque 87108
255-9690

Wendell, Wallace A.
903 Rio Grande Blvd., N.W.
Albuquerque 87104
242-5403

Werner, David E.
2600 Yale, S.E.
Albuquerque 87106
842-9136

Willadsen, John C.
3013 Marble, N.E.
Albuquerque 87106
265-8668

Wynn, George
6303 Indian School Road, N.E.
Albuquerque 87110
296-1772

Associate Members

Addy, Ervin III
4512 Ninth Street, N.W.
Albuquerque 87107
843-6900

Affholter, Lee P.
203 Truman, N.E.
Albuquerque 87108
265-8329

Babaa, Waleed
8100 Mountain Road Pl., N.E.
Albuquerque 87110
265-3646

Blachut, Marie O.
1001 Los Arboles, N.W.
Albuquerque 87107
766-7422

Bland, John C.
4665 Indian School Rd., N.E.
Albuquerque 87110
255-4864

Bloch, Teresita
505 Morningside, S.E.
Albuquerque 87106
265-0740

Boehning, A. W., Jr.
2005 Carlisle Blvd., N.E.
Albuquerque 87110
268-8785

Cornwell, Allan B.
1220 Fruit Ave., N.W.
Albuquerque 87102
242-6062

Custer, Philip E.
728 Val Verde, S.E.
Albuquerque 87108
255-9289

Darby, Robert Paul
5212 Mescalero Road, N.E.
Albuquerque 87112
881-4764

Fellows, Glenn N.
103 Amherst, S.E.
Albuquerque 87106
265-7703

Fletcher, Tom C.
2609 Quincy, N.E.
Albuquerque 87110
256-3308

Fullmer, Carl
11624 Morenci, N.E.
Albuquerque 87112
299-5065

Giaccardo, Marc A.
2323 Kathryn, S.E.
Apt. 521
Albuquerque 87106
255-2477

Hill, Ronald K.
311 Fontana Place, N.E.
Albuquerque 87110
265-5775

Hultzen, Peter J.
1205 Princeton, N.E.
Albuquerque 87106
266-3931

Kirchner, Richard C.
5327 Montgomery, N.E., No. 59
Albuquerque 87109
881-3130

Klas, Jeff
2005 Carlisle, N.E.
Albuquerque 87110
268-8785

Lorenz, Michael R.
8100 Mountain Road Pl., N.E.
Albuquerque 87110
265-3646

McKinney, Joe C.
608 17th Street, N.W.
Albuquerque 87104
242-4209

Norris, Frank F.
1901 Avenida las Campanas, N.W.
Albuquerque 87107
344-0521

O'Brien, Ray
3607 San Pedro Drive, N.E.
Albuquerque 87110
881-8030

Ordenez, Edward
8806 Woodland, N.E.
Albuquerque 87112
292-3348

Pearson, Daniel Lee
9401 Haines, N.E.
Albuquerque 87112
299-7810

Richards, H. Scott
619 Bryn Mawr Dr., N.E.
Albuquerque 87106
268-3797

Richards, Patricia F.
927 Fairway, N.W.
Albuquerque 87107
344-1233

Robinson, Leslie
2609 Quincy, N.E.
Albuquerque 87110
256-3308

Robson, Thomas E.
13408 Reo Road, N.E.
Albuquerque 87112
293-1853

Scott, Richard C.
8009 Mountain Road Pl., N.E.
Albuquerque 87110
265-5775

Searcy, Ronald
8100 Mountain Road Pl., N.E.
Albuquerque 87110
265-3646

Weith, Thomas P.
6437 Linn Ave., N.E.
Albuquerque 87108
265-7841

Whalin, William
6700 Orphella, N.E.
Albuquerque 87109
821-1595

Professional Associate Members

Beltran, Michael, Jr.
2403 San Mateo, N.E.
Albuquerque 87110
265-8378

Blair, Kent
816 Palomas, N.E.
Albuquerque 87110
266-2650

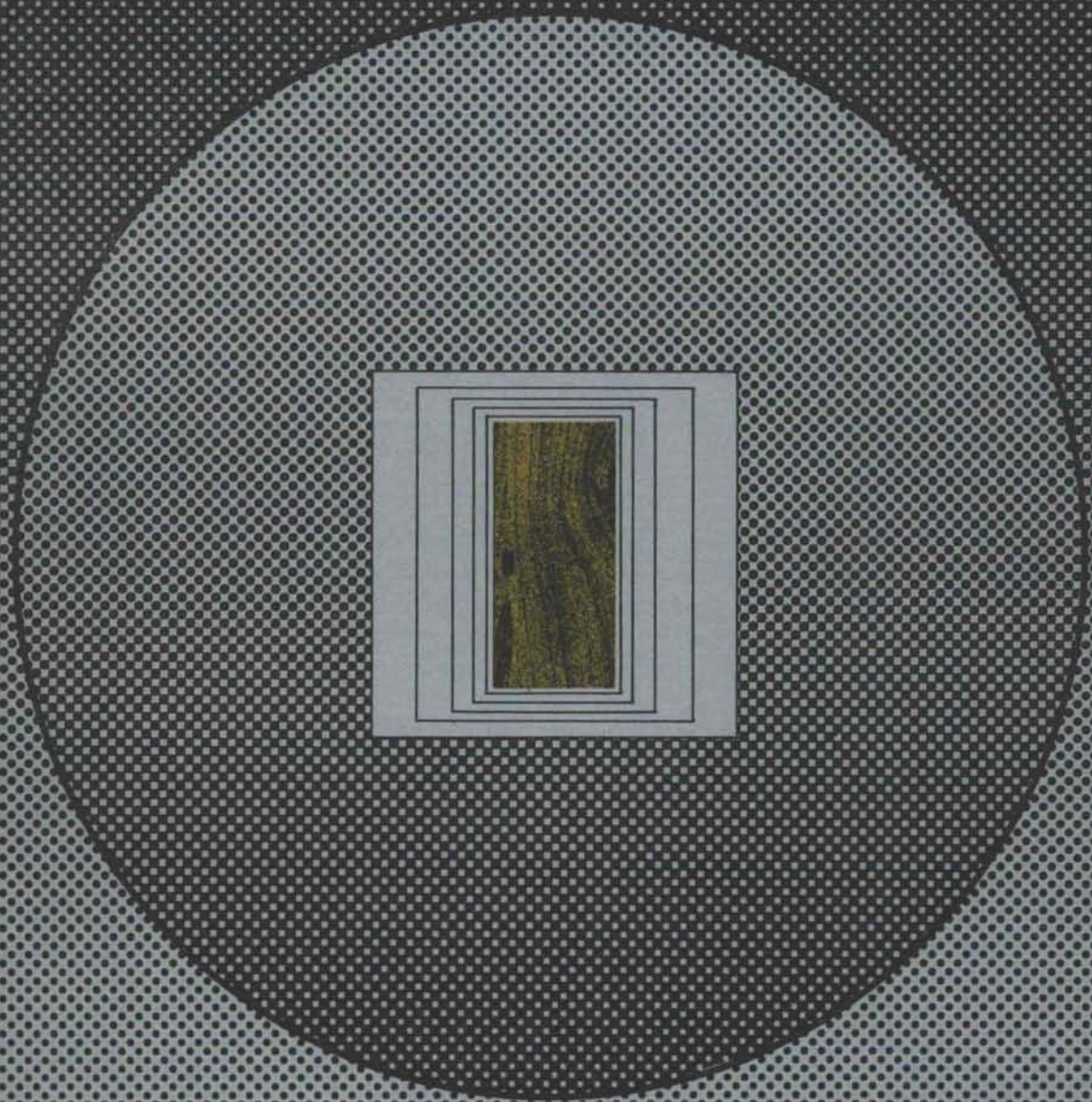
Bloch, Anthony
505 Morningside, S.E.
Albuquerque 87106
265-0740

Bosli, Gordon E.
P. O. Box 435
Corrales 87048
898-3487

Day, Stephen C.
Post Office Box 1084
Albuquerque 87103
247-3147

OPENINGS™

reinvents
the door



TOTAL-DOOR™

Anti-Burglary Features 6

**Astragals, Flush Bolts,
Door Coordinators, Butts,
Concealed Hinges, Locks—Elimination Of 11**

Closer and Holder Reinforcement 5, 9

Control Mechanism and Its' Operation 6

Cylinders and Master Keying 5, 7

Dimensions—Door and Frames 8, 9, 10, 14

Door Construction 5

Door Functions 12, 13

Finishes 7

Frames and Suggested Details 8, 9

High Pressure Laminates 5

Hinge 5

Locking Channel 4

Opening Sizes (Actual and Nominal) 14

Operation of TOTAL-DOOR 4, 5

Ordering Information 14

Specifications—Doors, Frames 15

Veneers—Wood 5

THE REASONS OUR COMPANY EXISTS ...

WHAT-WHY-HOW

What are the problems of doors and hardware?

Present openings in all classes of work fail to satisfactorily solve the problems of security, safety, cost, life, delivery coordination and unified responsibility. Until now, openings have not really been systems at all, but rather a conglomeration of widely diverse products which do not have a strongly supportive inter-relationship, but which rather grudgingly tolerate one another.

Why have these problems remained unsolved?

The door and hardware manufacturers, installation contractors and maintenance departments constantly wrestle with these problems and attempt to achieve solutions by treating one symptom at a time. Because of custom or habit and narrow economic interest, the industries individual segments have always worked within narrow confines of their specific discipline. They have never attempted to broadly examine and define the problem.

How have we solved these problems?

By abandoning habitual ways of thinking about openings and freeing ourselves of a narrow economic interest in doors or hardware, we have been able to move toward an opening system which is a clear and pure expression of its' function and of contemporary technology. An examination of the details and their solution in relationship to the total problem resulted in a coherent, rational solution for the system.

An examination of TOTAL-DOOR will show that we have achieved the following goals:

- 1. Security:** The standard means of illegal entry have been thwarted—i.e. "loids" men, jamb spreaders, hinge pin removal, kicking, etc.
- 2. Safety:** There are no projecting knobs, levers or hinge pins to catch clothing or cause injury.
- 3. Single Responsibility:** OPENINGS has the total responsibility for the proper functioning of the door—we can't point our finger at the other guy.
- 4. Delivery Coordination:** The door, hinges, control mechanism, etc., are all one inseparable unit.
- 5. Cost:** Lowest in place cost!
- 6. Life:** Longest life because the opening has been designed as a unit and tested to millions of cycles rather than 100,000 or 500,000 cycles.



TOTAL-DOOR OPERATION!

4



The TOTAL-DOOR is a flush panel continuously supported on both the hinge and latching sides by means of a special hinge and locking channel.

The Locking Channel is an 18 gauge rolled metal or extruded aluminum member shaped like an "I" beam which pivots on the door and which is operated by the control mechanism. This locking channel is available in 4 metals and various finishes as follows:

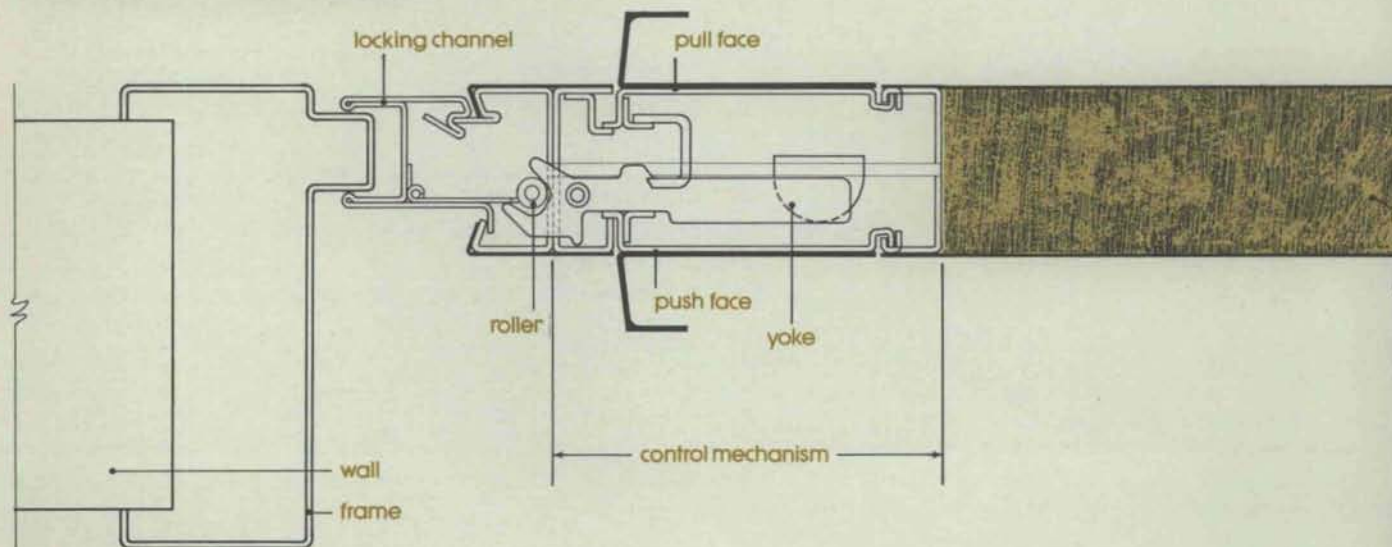
Cold rolled steel—electro-galvanized,
bonderized and primed.

Stainless steel—mirror or satin finished.

Commercial bronze—mirror or satin finished
and lacquered, or
—oxidized and oil rubbed
(US10B).

Extruded aluminum—natural anodized

The function of the locking channel is to provide a secure engagement of the door to the frame for its full height. Its operation eliminates latch bolts, dead-bolts, auxiliary latches and flush bolts, while increasing security and maintaining safety and fire considerations. The locking channel is braced in its locked or engaged position by a columnar blocking member which is 4" tall and 24" wide. This blocking member is pivoted on the locking channel and bears against the door framing channel through rollers. The blocking member is immovably restrained against improper displacement by means of a yoke which is operable



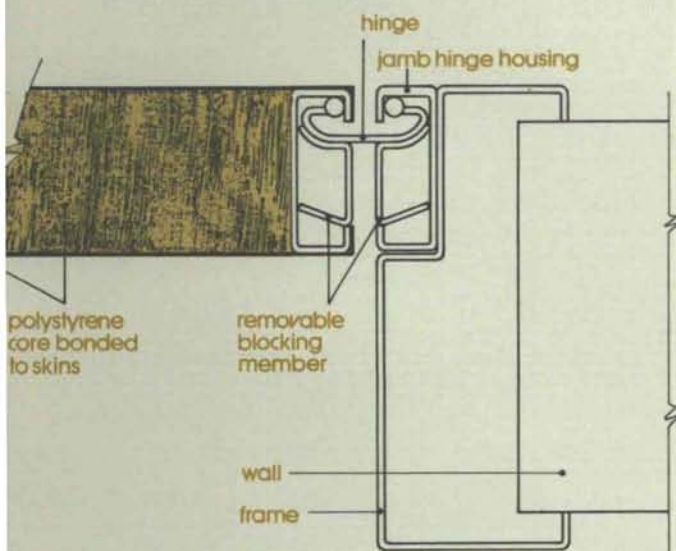
HORIZONTAL SECTION THRU DOOR & FRAME AT CONTROL MECHANISM

only by the push or pull faces. The yoke moves the blocking member when either of the push or pull faces is moved. All standard functions or operations are possible by locking one, both or neither push or pull faces.

The Hinge is a 14 gauge cold rolled steel or extruded aluminum member utilizing a novel combination of known pivoting means which has been improved to provide:

1. Zero vertical wear by means of load transfer without relative motion between bearing surfaces.
2. Insignificant horizontal wear because of a 20 fold increase of bearing surfaces when compared to 4-1/2 x 4-1/2 butts.
3. Quick, simple mounting and demounting of the door by removal and replacement of three machine screws.
4. 800 pound door design load.
5. 180° rotation which allows the door to lay tightly against the wall because of absence of knobs.
6. Hinge construction allows door to be adjusted up or down 1/4".

The Door Core material is a rigid polystyrene foam which is bonded to the door skins to provide exceptional strength, stiffness, flatness and impact resistance. It also markedly reduces sound and heat transmission.



The Door Surfaces are made of roller leveled, cold rolled electro-galvanized and bonderized steel in the following gauges:

22 gauge—Recommended only for low impact areas or as a base for wood veneers or high pressure laminates.

20 gauge—Recommended for all painted doors except those used in areas with high impact exposure such as service entrances, school entrances, boiler rooms, utility rooms, etc.

18 gauge—Recommended for areas with extreme impact loads.

Stiles and Rails are 16 gauge steel or extruded aluminum on all TOTAL-DOORS. The S.D.I. Specification 100-69 in Table II recommends the following thickness for metal doors based on composite metal face construction.

DUTY	STYLE	SKIN THICKNESS	GAUGE	RAIL OR STILE THICKNESS	GAUGE
Standard	4	.0284	22	.0344	20
TOTAL-DOOR		.0284	22	.0568	16
Heavy	4	.0344	20	.0449	18
TOTAL-DOOR		.0344	20	.0568	16
Extra Heavy	3	.0449	18	.0568	16
TOTAL-DOOR		.0449	18	.0568	16

Closer Reinforcement is not provided; due to 5½" wood rail, reinforcement is not required.

Finishes: The standard finish is an electrostatically sprayed acrylic modified primer.

Veneers: Bonded veneers are available in all hardwoods on special order and are normally supplied on chip board core.

High Pressure Laminates: 1/16" high pressure laminates are available bonded to chip board core or 22 gauge steel doors or directly to the metal door structure and polystyrene or honeycomb. Not recommended for exterior doors.

Cylinders and Master Keying: The TOTAL-DOOR door is designed for use with all mortise lock cylinders utilizing the Adams Rite cam. Cylinder rings are not required.

Door Frames are provided by others with dimensions to suit the TOTAL-DOOR (see pages 8 and 9 for details).

THE OPERATING MECHANISM

SPECIAL ADVANTAGES

While the special advantages of the TOTAL-DOOR are most apparent in the locking channel and hinge assembly, the control mechanism has a similar importance because it is an integral unit in the chain of security, safety and reliability.

The mechanism is composed of a housing, a locking bar, a yoke, and push or pull faces. Adjustable plates on the locking bar determine whether one, both or neither face is locked. The faces establish what type of control, if any, will be exercised on the locking or unlocking position of the locking bar (i.e. key, thumb turn, emergency or nothing).

What has been done is to separate the locking function (represented by the locking channel and blocking member) and the control mechanism described above.

SIMPLICITY

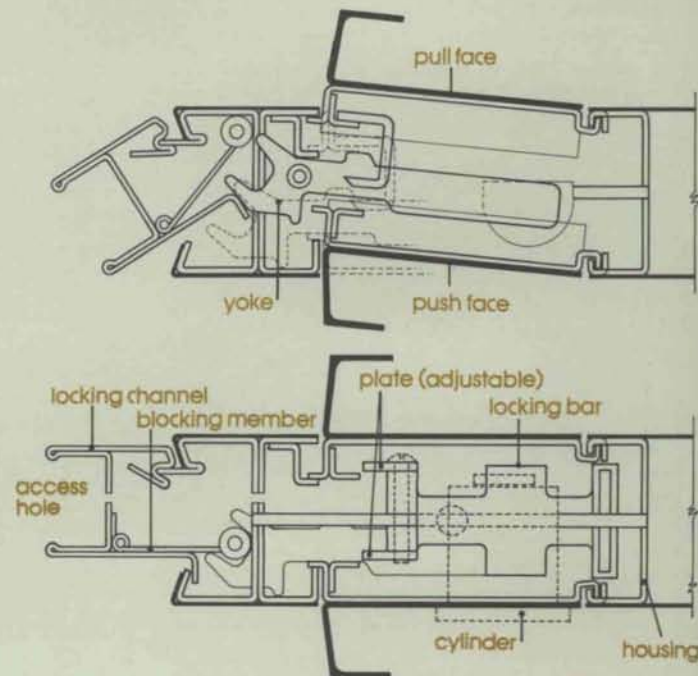
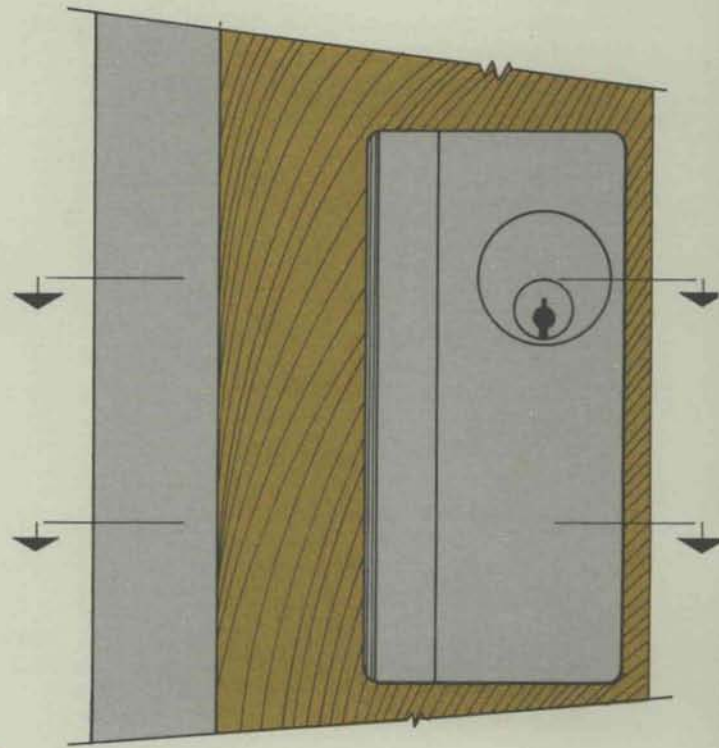
Elimination of the latch bolt, auxiliary latch and dead-bolt, plus the separation of the locking and control means, results in a vastly simplified mechanism containing less than 10% as many parts as conventional locks.

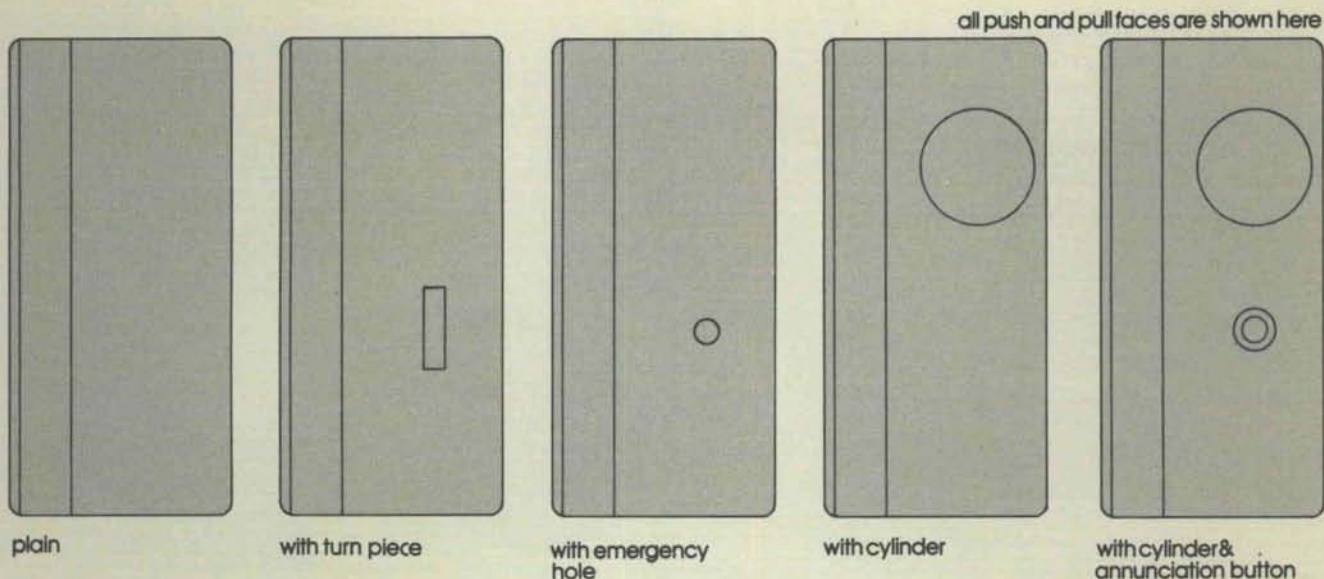
DOOR HANDS

Placing the control mechanism at the horizontal centerline of doors up to 7'-2" further simplifies matters by allowing any door to be used for RH, LH, RHRB or LHRB openings. Doors over 7'-2" are handed because the control mechanism is no longer on the centerline of the door but rather 42" above the finish floor.

SECURITY

Drilling or cutting through the door and gaining access to the blocking member or the actuator does not allow manipulation of these parts because of the particular design of the actuator which can be actuated only from within the control mechanism. Use of a crow bar on the faces results in the finish face breaking away leaving a drill-proof under face. The standard mortise cylinder is mounted recessed without blocking rings and without set screws, making removal with water pipe pliers or pipe wrench virtually impossible. "Loiding" or use of credit cards and similar devices is ineffective because of the construction of the mechanism.





FINISHES

The mechanism faces are available in stainless steel, bronze and aluminum in the following finishes: US32, US32D, US9, US10, US10B and anodized aluminum.

MASTER KEYING

All standard 1-1/8" to 1-3/8" long mortise cylinders fitted with Adams Rite cams are usable in the control mechanism. Cylinders are not manufactured by OPENINGS.

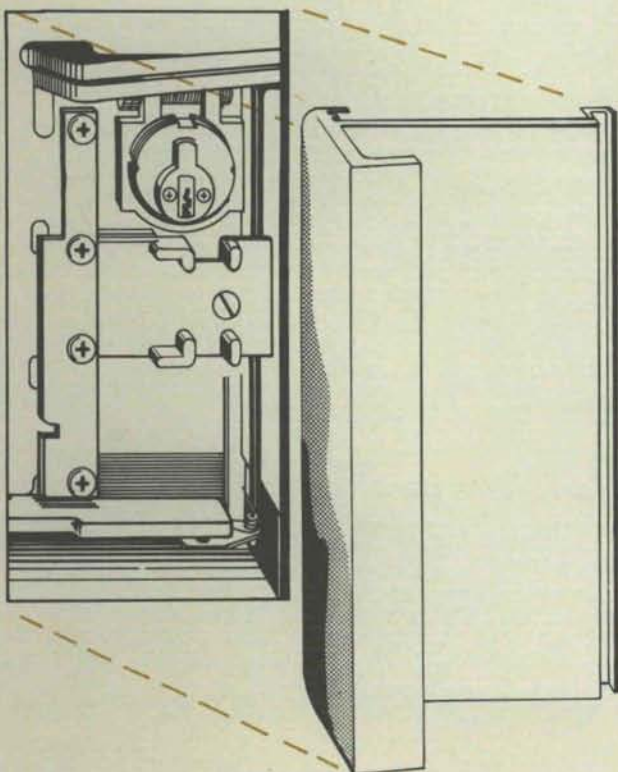
ACCESS TO MECHANISM

Access to the interior of the mechanism or faces is achieved by:

1. latching the locking member in an open position,
2. inserting a 1/16" ϕ pin into a hole in the door edge until the locking bar is moved 1/4" against a spring load,
3. disengaging and removing the faces.

FUNCTIONS

Door functions or traffic control are achieved by means of a key or thumb turn which control the locking bar and indirectly either or both faces. There are a maximum of only five face variations (see above). Further, any of these faces can be used on either the push or pull side of the door. Since the two internal parts are constant and do not vary from function to function, it follows that all desired functions can be achieved by use of a combination of the five faces. This, combined with the unhandled door (and consequently unhandled mechanism), allows conversion in the field to any hand or function. On keyed functions, doors can be further changed from simple bevel to reverse, and vice versa, by interchanging the push or pull face.

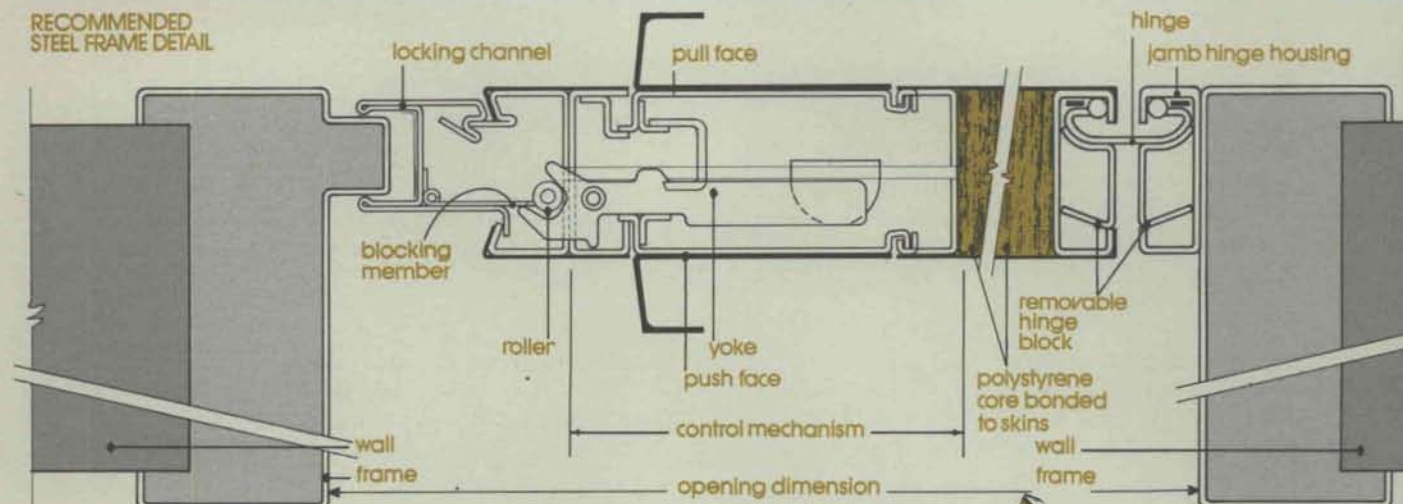


JAMB, HEAD & SILL DETAILS

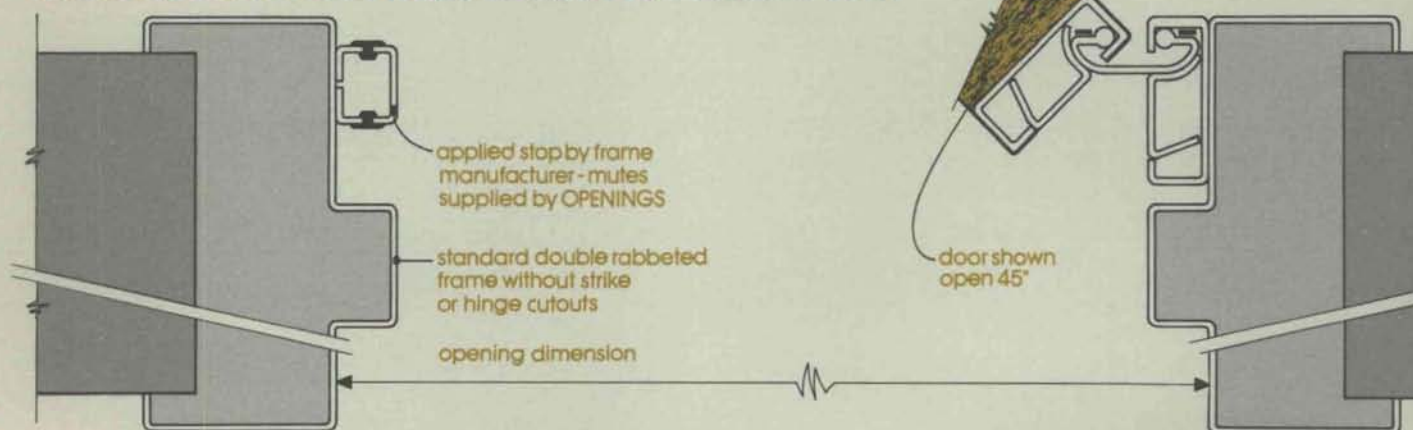
SECTIONS THRU LATCHING JAMB

SECTIONS THRU HINGE JAMB

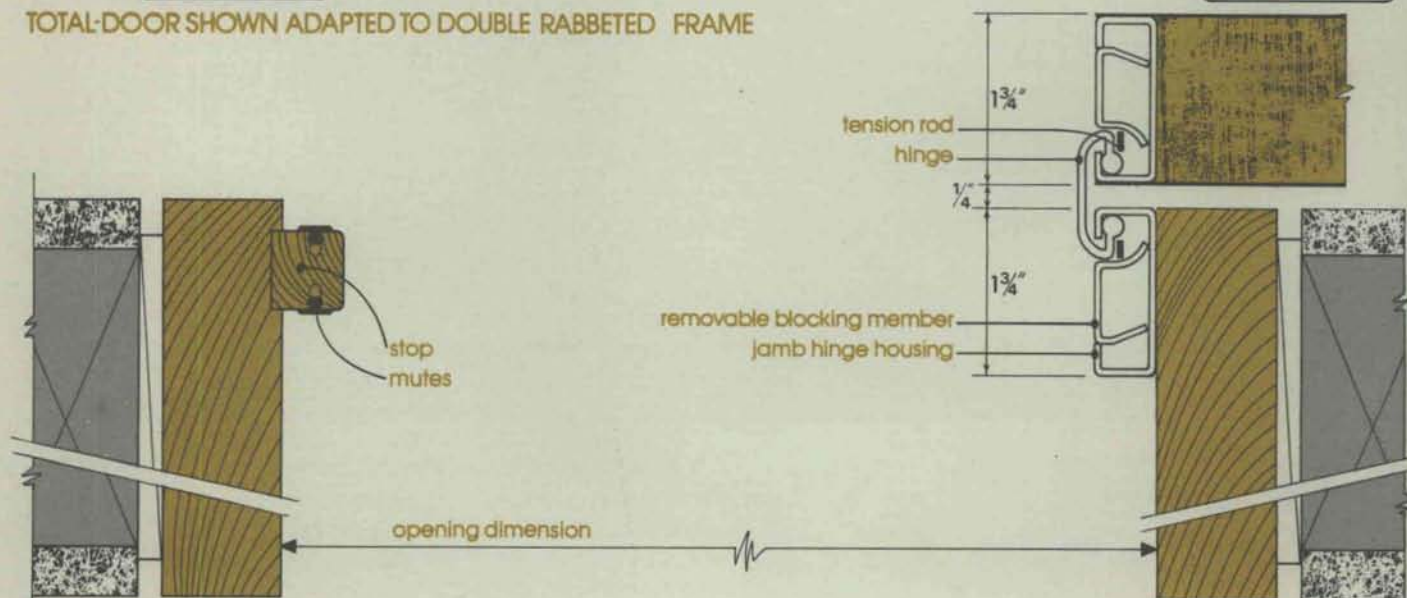
RECOMMENDED
STEEL FRAME DETAIL



HORIZONTAL SECTION THRU DOOR & FRAME AT CONTROL MECHANISM

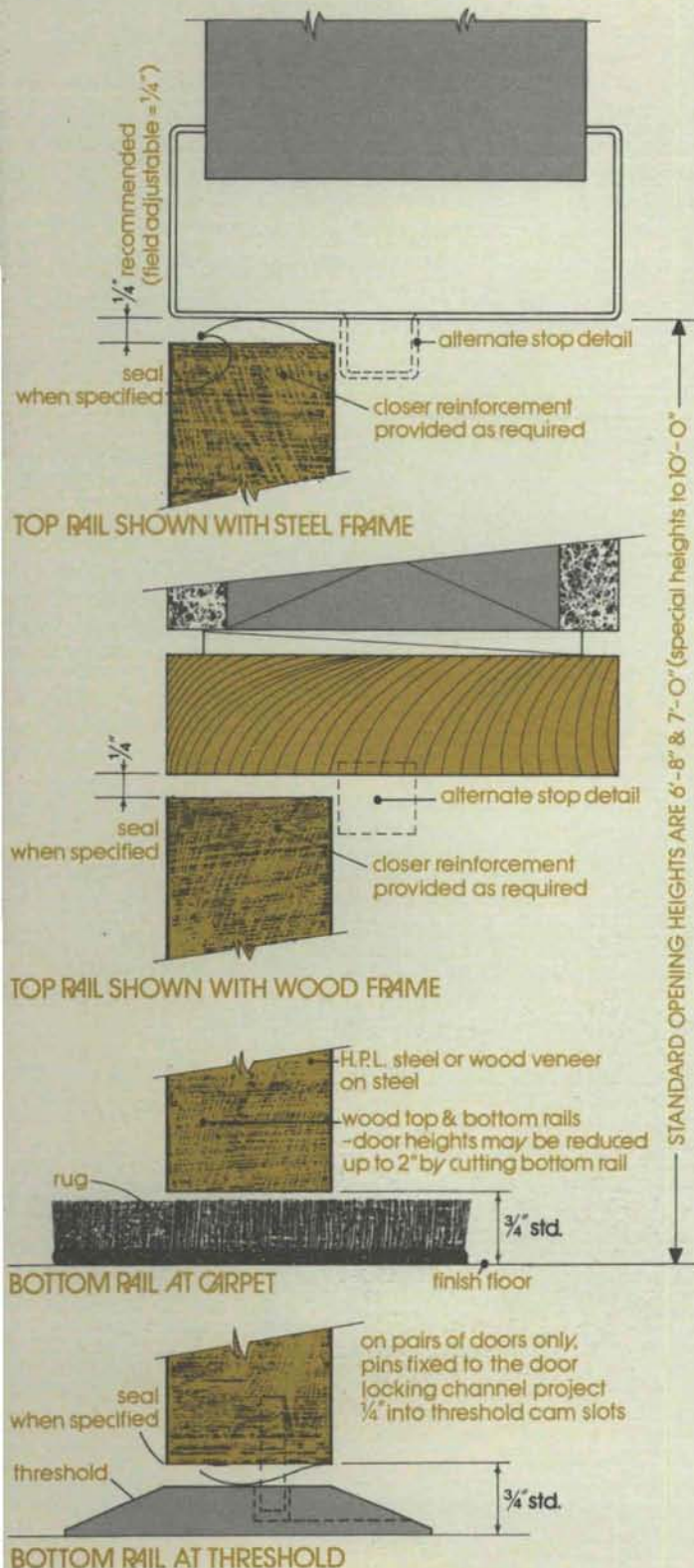


TOTAL-DOOR SHOWN ADAPTED TO DOUBLE RABBETED FRAME



TOTAL DOOR SHOWN WITH WOOD FRAME

VERTICAL SECTIONS THRU DOOR & FRAME



FRAMES

Drawings on this and the facing page suggest frame details in wood and metal. The frames are not supplied by OPENINGS. We recommend, for reasons of economy and flexibility, that frames be procured from a local source. Plaster guards and all reinforcements, except for closers and overhead holders, are eliminated.

DOORS

Stiles are stiffened with semi-box sections of roll formed 16 gauge steel or extruded aluminum. When closers are to be used with the door, the type must be indicated with the order so that proper reinforcing can be incorporated into the door construction.

Door Skins are H.P.L. or 1/8\" plywood veneer on chip board core or 22, 20 or 18 gauge roller leveled prime, electro-galvanized steel specially activated for paint bond. The 22 gauge is recommended only for light duty or low impact use. 20 gauge skins are recommended for high traffic and high impact locations and 18 gauge for extra heavy duty applications.

The **Core** of steel doors is a rigid expanded polystyrene foam bonded to the door skins. Other doors are normally supplied with solid chip board cores. These cores provide exceptional strength and stiffness and cause 22 gauge steel to act like 20 gauge, 20 gauge like 18 and 18 gauge like 16 gauge (see S.D.I. Standard 100-69).

The **Locking Channel** is made of 18 gauge cold rolled steel, stainless steel, commercial bronze or extruded aluminum. It engages both sides of the stop for the full height of the door. The stainless is available bright or satin, the commercial bronze is available bright (US9) or satin (US10), lacquered, and oxidized oil rubbed (US10B). The rolled steel channel is electro-galvanized and primed. The aluminum is available natural or color anodized.

The **Hinge Element** is 14 gauge roll formed steel or extruded aluminum continuous member extending the full height of the door. Its special features include three screw mounting and demounting, 180° opening and complete concealment. There is no vertical wear because there is no relative motion between elements supporting the vertical load and, for practical purposes, no wear horizontally because we have increased horizontal load bearing areas by a factor of 20 times when compared to a 4-1/2 x 4-1/2 butt. Hinge performance will surpass BHMA Class I Hinge (i.e. 4 ball bearing butts) standards.

PAIRS OF DOORS

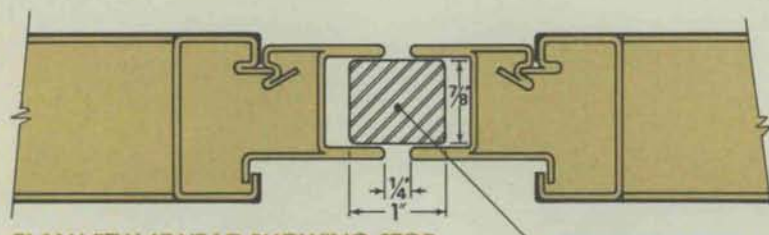
The advantages of the TOTAL-DOOR are especially apparent on pairs of doors.

There is **no gap** between doors and **no astragal** is required because the locking channels are composed of male and female members which cooperatively engage each other in such a manner so as to block out **all** light. This arrangement allows either door to close first or allows them to close simultaneously and still have double bolting top and bottom. This eliminates the idea of "active" and "inactive" doors.

There are no **flush bolts** as such, neither

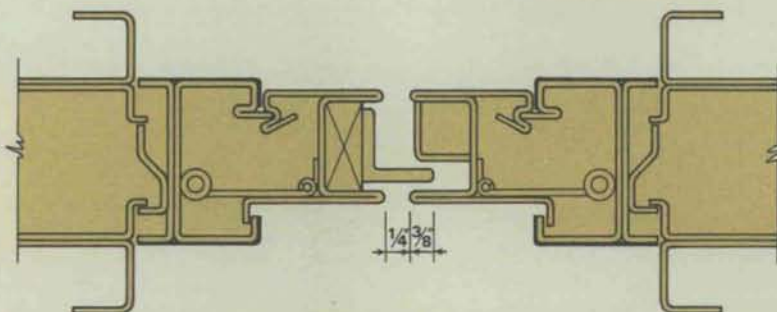
automatic nor manual. Instead, the locking channels each engage the same block mounted to the head and $\frac{1}{2}$ " long fixed rods project downward from the locking channel and engage a curved slot in a metal plate which is let into the threshold. These slots and/or block secure the locking channel against movement except through normal operation of the push and pull faces.

There is no **door coordinator** because of the special cooperative engagement of the locking channels described above.

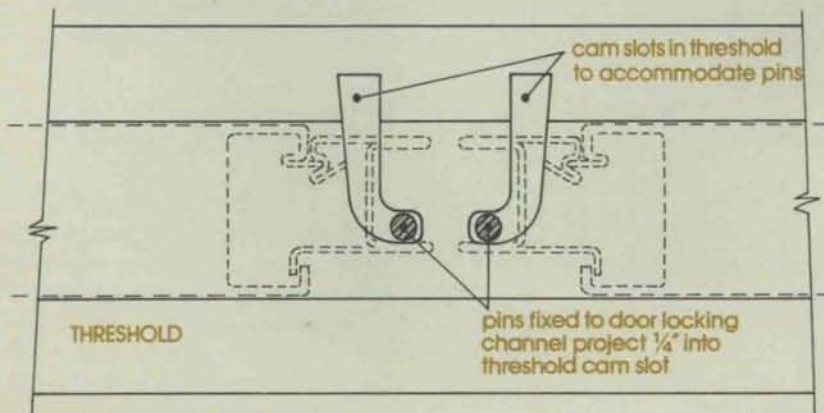


PLAN VIEW AT HEAD SHOWING STOP

the head stop projects downward $\frac{3}{4}$ " from the frame eliminating need for automatic or manual flush bolts



TYPICAL SECTION SHOWING ENGAGING LOCKING CHANNELS



PLAN VIEW AT THRESHOLD

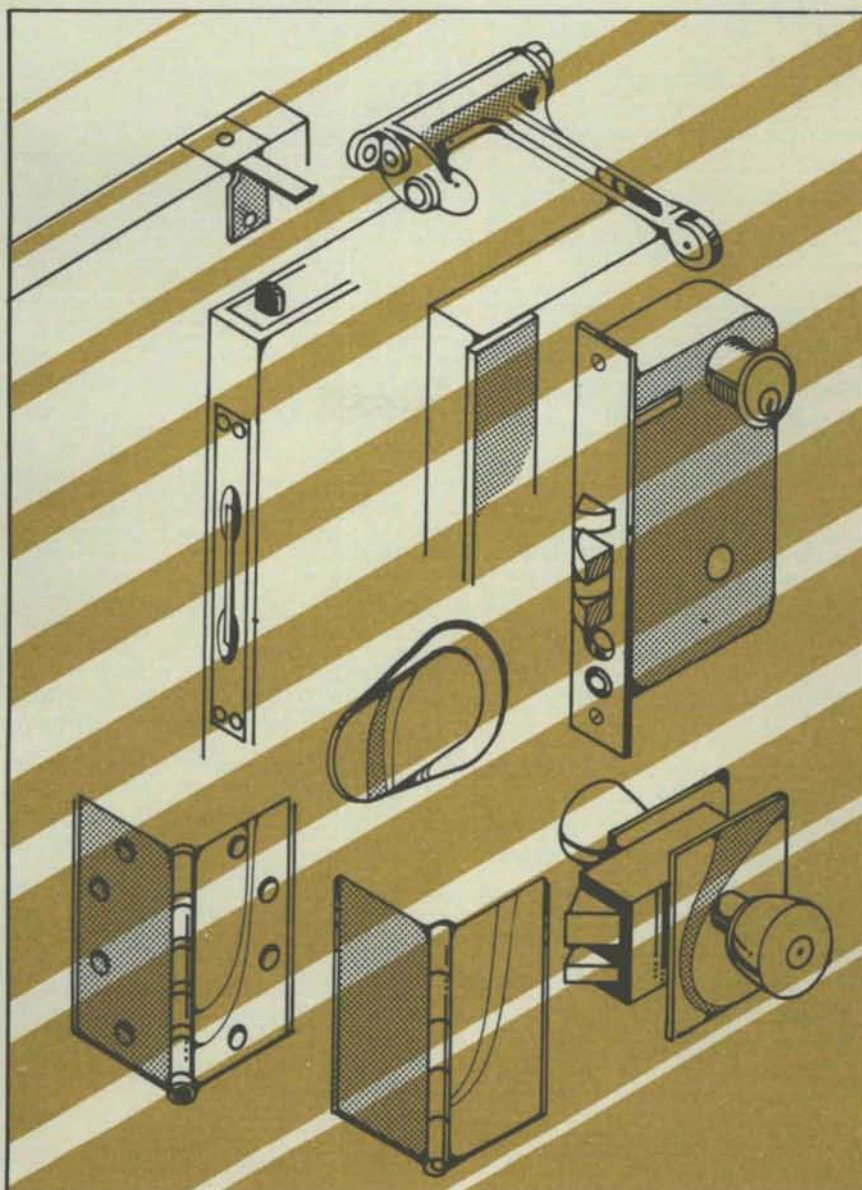
ELIMINATION

The functional aspects of the TOTAL-DOOR have resulted in the **elimination** of the following items:

- **Door Coordinators.** Elimination of the idea of active or inactive doors eliminates the need and cost of coordinators. TOTAL-DOORS close in any sequence or simultaneously.
- **Astragals.** The engagement of the male and female locking channels provides positive control of sight, sound and heat.
- **Flush Bolts.** See details page 10 for pairs of doors. In the TOTAL-DOOR system each door leaf is bolted top and bottom and, in addition,

- each door leaf is locked to its' mate giving the equivalent of four bolts without flush bolts.

- **Locks.** The locking channel and its control mechanism eliminates the expensive mortise and cylindrical lock and its time consuming and touchy installation.
- **Hinges.** The TOTAL-DOOR concept eliminates all types of hinges because:
 1. It has longer life than all commercially available hinges (including four ball bearing).
 2. It is invisible.



DOOR FUNCTION SELECTOR

(L.C. = Locking Channel)

TOTAL-DOOR
NO.

DESCRIPTION

TITLE

BHMA (BUILDERS HARDWARE MANUF. ASSOC.)
DESCRIPTION

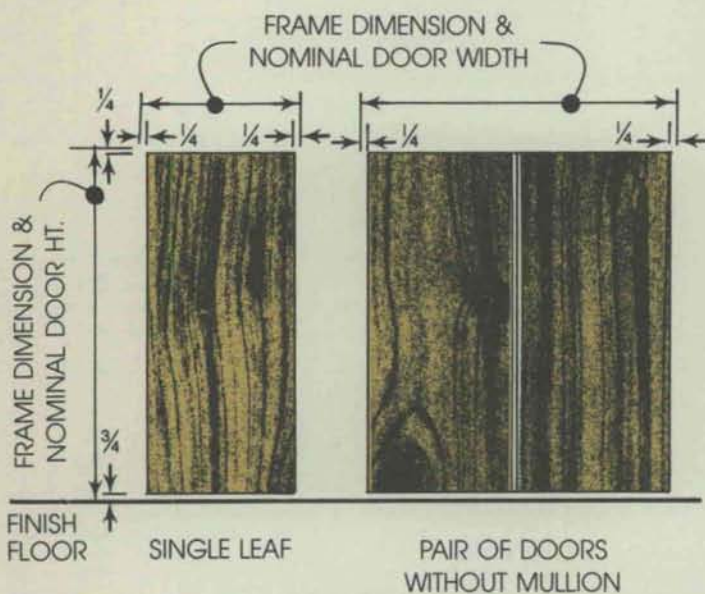
BHMA NO.

01	L.C. by push or pull face from either side at all times.	PASSAGE	Latch bolt operated by knob from either side at all times.	F01
02	L.C. by push or pull face except when both are locked by turn piece inside-L.C. unlocked by turn piece inside and emergency key outside.	PRIVACY	Latch bolt operated by knob from either side. Dead bolt operated by turn from inside and by emergency key from outside.	F02
03	L.C. locked by turn piece from either side—both turn pieces must be in unlocked position to permit door operation.	COMMUNI-CATING	Latch bolt operated by knob from either side. Two dead bolts or split dead bolt operated independently by turns from both sides. Should not be used on doors in rooms that have no other entrance.	F03
04	L.C. by push or pull face from either side except when outside face is locked by turn piece from inside. When outside is locked, L.C. is operated by push or pull face inside and key outside.	ENTRY	Latch bolt operated by knob from either side except when outside knob is made inoperative by a stop or mechanical means other than key. When outside knob is locked, latch bolt may be retracted by key from outside or by rotating inside knob. Auxiliary dead latch.	F04
05	L.C. operated by push or pull face from either side except when outside is locked from outside by key. When outside is locked, then L.C. is operated by key outside and push or pull face inside.	CLASSROOM	Latch bolt operated by knob from either side except when outside knob is locked from outside by key. When outside knob is locked, latch bolt may be retracted by key from outside or by rotating inside knob. Auxiliary dead latch.	F05
07	L.C. is operated by key from outside and by push or pull face inside. Outer push or pull face is always inoperative.	STORE ROOM	Latch bolt operated by key from outside or by rotating inside knob. Outside knob is always inoperative. Auxiliary dead latch.	F07
	SAME AS 04	FRONT DOOR	Latch bolt operated by knob from either side except when outside knob is made inoperative by a stop or mechanical means other than key. Dead bolt operated by turn inside. Key outside operates both bolts. Rotating inside knob always operates latch bolt.	F08
09	L.C. operated by push or pull face from either side except when outside is locked by key from inside. When outside is locked operation is by push or pull face inside and key outside.	APARTMENT	Latch bolt operated by knob from either side, except when outside knob is locked by key from inside. When outside knob is locked, latch bolt may be retracted by key from outside or by rotating inside knob. Auxiliary dead latch.	F09

In comparing descriptions of TOTAL-DOOR functions and BHMA functions, the TOTAL-DOOR description makes sense in terms of equivalency if it is remembered that the TOTAL-DOOR has no bolts as such—i.e. no deadbolt, no auxiliary latch, no latch bolt—all these are replaced by a single locking channel running the full height of the door (see page 6 for description of internal guarding against unauthorized or forced entry). In functions where the outside is **always locked** or is locked exclusively by the inside cylinder or slide, the key outside, when inserted and rotated in the cylinder, only then makes the locking channel operable by the outer push or pull. As soon as the key is removed, the outside is then again locked.

	SAME AS 04	CORRIDOR	Latch bolt operated by knob from either side except when outside knob is made inoperative by a stop or mechanical means other than key. Dead bolt operated by turn inside. Key outside operates both bolts. Dead bolt has 1" throw. Hardened steel rollers in bolt when so specified. Rotating inside knob always operates latch bolt.	F10
11	SAME AS 04 EXCEPT OPERATION OF INNER PUSH OR PULL FACE UNLOCKS OUTSIDE.	DORMITORY	Latch bolt operated by knob from either side except when outside knob is made inoperative by a stop or mechanical means other than key. Dead bolt projected by key from either side. Dead bolt retracted by key from outside. Both bolts retracted by inside knob.	F11
	SAME AS 11	DORMITORY	Latch bolt operated by knob from either side except when outside knob is made inoperative by a stop or mechanical means other than key. Dead bolt projected by key from outside and by turn from inside. Dead bolt retracted by key from outside. Both bolts retracted by inside knob.	F12
	SAME AS 11	DORMITORY	Latch bolt operated by knob from either side. Dead bolt projected by key from outside and turn from inside. Rotating inside knob retracts both bolts.	F13
14	L.C. operated by push or pull face from either side except when both sides are locked by key from either side.	STORE DOOR	Latch bolt operated by knob from either side. Dead bolt operated by key from either side.	F14
15	Outside is always locked. L.C. operated from outside by key and inside by pull face. Operating turn piece shuts out all keys except emergency key. Indicator button.	HOTEL	Latch bolt operated by key from outside or by rotating inside knob. Outside knob is always inoperative. Dead bolt operated by turn from inside which shuts out all keys except emergency and display key. Auxiliary dead latch. Indicator button. When so specified, inside knob will retract both bolts.	F15
	SAME AS 14	DEADLOCK	Dead bolt operated by key from either side.	F16
17	L.C. operated by push or pull face either side except when both sides are locked by key outside or turn piece inside	DEADLOCK	Dead bolt operated by key from outside and by turn from inside.	F17
18	L.C. operated by push or pull face either side except when locked by key outside.	DEADLOCK	Dead bolt operated by key from outside only.	F18

DOOR AND FRAME SIZES



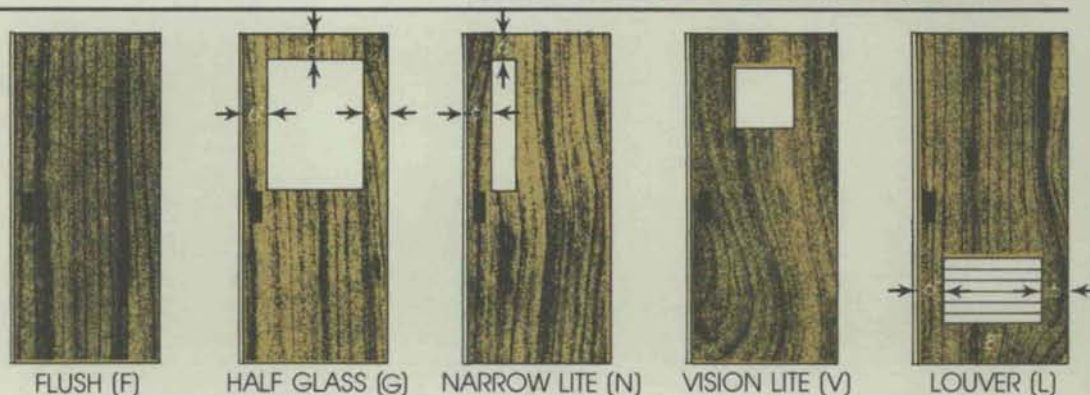
Other door widths & heights are available on special order

○ = STANDARD

FRAME DIMENSION & NOMINAL DOOR WIDTH	FRAME DIMENSION & NOMINAL HT.				
	6"	7"	7 1/2"	8"	10"
SINGLE LEAF					
2-4	○	○	○	○	○
2-6	○	○	○	○	○
2-8	○	○	○	○	○
3-0	○	○	○	○	○
3-4	○	○	○	○	○
3-8	○	○	○	○	○
4-0	○	○	○	○	○
PAIRS					
4-7 3/4	○	○	○	○	○
4-11 3/4	○	○	○	○	○
5-3 3/4	○	○	○	○	○
5-11 3/4	○	○	○	○	○
6-7 3/4	○	○	○	○	○
7-8 3/4	○	○	○	○	○
7-11 3/4	○	○	○	○	○

DOOR DESIGNS

All dimensions shown are minimum



HOW TO ORDER

WHEN ORDERING DOORS PLEASE FOLLOW THE PROCEDURE DESCRIBED BELOW

Example	Standard	Prime	F	3070	RH	01	28	28	
Detail	Gauge	Finish	Type	Size	Hand	Function	Locking Channel	Push & Pull Faces	Remarks
Variations Available	Standard Heavy Extra Heavy or H.P.L. when no steel skin is used	Prime High Pressure Laminates Wood Veneer	F.L. T.L.L. V.V.L. N.N.L. G.G.L.	See Chart Above for Available Sizes	RH LH RHR LHR	01, 02, 03, 04, 05, 07, 09, 11, 14, 15, 17, 18	Primed US 32 US 32D US 9 US 10 US 10B US 28	US 32 US 32D US 9 US 10 US 10B US 28	Specify wood veneer or particular H.P.L.

GENERAL

Contractor shall furnish and install TOTAL-DOORS as manufactured by OPENINGS, Bloomfield Hills, Michigan, in all openings except as otherwise provided for in the specification.

MATERIALS

Doors shall be fabricated from roller leveled, prime quality, cold rolled electro-galvanized and bonderized steel sheet and/or H.P.L. Stiles shall be not less than 16 gauge. Core material shall be rigid polystyrene foam.

DOOR CONSTRUCTION

TOTAL-DOORS shall be 1 3/4" thick of composite construction and fabricated of two 18 gauge, 20 gauge or 22 gauge steel sheets with no seams or spot welds on the door faces. Doors shall be reinforced, stiffened, sound-deadened and insulated by filling the inside of the door with a pre-cured polystyrene core by bonding with a thermo-setting or epoxy adhesive to both face sheets.

TOTAL-DOORS shall be provided complete with locking mechanism and hinge members. Wood or 12 gauge galvanized reinforcement shall be provided for closers and holders. TOTAL-DOOR shall provide functions equivalent to and replacing: 1) mortise and cylindrical locks, 2) hinges, class 1, 2 and 3 and invisible hinges and (on pairs of doors) 3) coordinators, astragals and automatic or manual flush bolts.

HARDWARE INCLUDED WITH TOTAL-DOOR

Latching Side of Door: The TOTAL-DOOR shall be supplied complete with all elements or control mechanisms necessary to secure the latching or locking side of the door. Performance test values shall, in all cases, exceed the product standards of the Grade 1, Series 1000, mortise locks as established by the BHMA and as published by the American National Standards Institute, Inc.—ANSI **A156.2**. Master keyed mortise cylinders are by others. **All** hardware on the latch side of the door will be factory installed except the push and pull faces. Standard mortise lock functions will be provided by the TOTAL-DOOR control mechanism and locking channel. On pairs of doors

the functions of the door coordinator, manual and automatic flush bolts, and astragals will be provided by the cooperatively engaging locking channels of TOTAL-DOOR.

Hinge Side of Door: The TOTAL-DOOR shall be supplied with all the elements necessary to swing the door 180°. The jamb hinge housing member will be fastened to the wood or metal jamb in the field by the carpenter using screws provided by this manufacturer, or in the case of metal frames only, be attached in the frame manufacturer's plant by means of standard metal fastening or welding techniques. Performance test values of the hinge shall, in all cases, exceed the product standards of Class 1, 4 ball bearing, butts as established by the BHMA and published by the American National Standards Institute, Inc.—ANSI **A8111**.

Shop Painting: All exposed metal surfaces shall be electro-statically sprayed with an acrylic modified paint prepared especially for electro-galvanized bonderized steel with a one mill dry film thickness.

Shipping and Storage: All doors shall be bulk packed on special pallets and protected by heavy gauge polyethylene cover, and paper covered steel corner angles, all securely banded together with a maximum of 20 doors per pallet.

Installation: Doors shall be installed by others in a manner to achieve the desired functional operation and appearance.

Frames: By others.

Special Finishes: TOTAL-DOORS may be supplied in any of the following finish conditions:

- 1) Prime Painted
- 2) Vinyl laminated steel sheet
- 3) Wood veneers bonded to the steel skins
- 4) High pressure laminates bonded to the steel skins (indoor use only) or directly on the door core

See architectural plans for details.

Doors with lights or louvers shall have openings framed and securely attached.

Guarantee: All component parts of TOTAL-DOOR shall be guaranteed against all defects in material and workmanship for a period of 5 years when used in accordance with manufacturers recommendations.



784 INDUSTRIAL COURT. / BLOOMFIELD HILLS, MICHIGAN 48013

(313) 332-8313

Eeds, Sandy

103 Amherst Dr., S.E.
Albuquerque 87106
265-7703

Hooker, Marjorie M.

Post Office Box 10149
Alameda 87114
898-2624

Miller, Mark

807 Eighth, N.W.
Albuquerque 87104
243-1721

Wood, Arthur L.

1316 Truman St., S.E.
Albuquerque 87108
255-2549

Members Emeritus

Ferguson, Gordon B.

115 Amherst, S.E.
Albuquerque 87106
255-8668

Popkin, Charles A.

1701 Cardenas Dr., N.E.
Albuquerque 87110
256-1009

Springman, Raymond R.

4414 Avenida Del Sol, N.E.
Albuquerque 87110
268-9100

Honorary Member

Bunting, Bainbridge

5021 Guadalupe Trail, N.W.
Albuquerque 87107
344-1140

SANTA FE CHAPTER A.I.A. Zip Code 87501

President.....John W. McHugh

Director.....George C. Owen

Vice President.....Earl P. Wood

Director.....Robert J. Strader, Jr.

Sec.Treas.....Kenneth S. Clark, FAIA

Director.....Donna Quasthoff

Fellows

Clark, Kenneth S.

208 Delgado
982-1951

Conron, John P.

P. O. Box 935
983-6948

Meem, John Gaw

P. O. Box 1924
983-6412

Corporate Members

Arrison, John B.

208 Delgado
982-1951

Bicknell, Bruce M.

423 East Main Street
Farmington 87401
327-1056

Clark, Richard S.

107 Siringo Road
983-4992

Germanas, Kestutis

Route 4, Box 46
983-2396

Girard, Alexander H.

P. O. Box 2168
983-6759

Grenfell, Richard B.

Box 495, Tesuque 87574
988-5194

Halford, Richard

321 W. San Francisco St.
982-2621

Hyatt, Foster H.

1579 Canyon Road
983-7422

Johnson, Victor W.

133 Kearney Road
983-5497

Kruger, Willard C.

P. O. Box 308
983-7308

Lattin, Eli Voil

2071 North Road
Los Alamos 87544
662-4084

Lugton, C. R.

659 W. Aberdeen Avenue
Littleton, Colorado 80120
(303) 794-9354

Luna, Ted C.

225 E. Marcy
982-8036

McHugh, John W.

P. O. Drw. 5619, Cor. Sta.
982-8556

Nestor, Robert L.

No. 1 Cerro Gordo
983-7570

Owen, George C.

105 E. Marcy
983-3347

Patton, Charles D.

The Baca Grande, Angl. Fire
Eagle Nest 87118
377-2301

Pool, Sam

P. O. Box 4094
827-2404

Quasthoff, Donna

P. O. Box 2145
827-2807

Register, Philippe deM

P. O. Drawer "B"
983-4333

Reisacher, Robt. W., Col.

522 Acequia Madre

Romero, Bernabe, Jr.

322 Paseo de Peralta
P. O. Box 5072
982-2123

Stanley, Francis E.

P. O. Box 506
983-2258

Stewart, Harold

P. O. Box 1417
983-6929

Strader, Robert J.

P. O. Drw 5619, Cor. Sta.
982-8556

Torres, Reynaldo V.

637 Cerrillos Road
982-4911

Walker, Louis W.

907 Camino Santander
983-3274

Weidner, Urban C., Jr.

Radio Plaza, Marcy St.
983-4414

Wood, Earl P.

Plaza Luisa
983-4622

Associate Members

Haney, William T.

625 Camino Del Monte Sol
988-3107

Parmer, Thomas R.

302 Alegra Street
982-1918

Spears, Beverley Bruce

645 East Palace
982-4926

Chapter Associate Members

Coriz, Jim A., Jr.

208 Delgado
982-1951

Guest, Craig

632 Agua Fria

Martinez, Melvin H.

P.O. Box 904, Santa Clara Pueblo
Española 87532
753-2443

Montoya, Robert B.

105 E. Marcy
983-3347

Nalder, Nan

924 Canyon Road, No. 5
983-3347

Ortega, Antonio F.

Rt. 2, Box 186
983-3347

Zamora, Robert

1023 Dunlap
983-0100

Zinn, Dale F.

711 Don Gaspar
988-3472

Zinn, Ann Louise

711 Don Gaspar
988-3472

Professional Affiliate Member:

Gleye, Paul H.

P. O. Box 1201
982-4471

Emeritus Member

Brunet, James A.

P. O. Drawer "B"
983-4333

NEW MEXICO SOUTHERN CHAPTER A.I.A.

President.....Chas. E. Nolan Jr.

Director.....Edwin C. French

Vice President.....Randall L. Kilmer

Director.....Kern Smith

Sec.-Treas.....Ronald C. Nims

Director.....Wilbur T. Harris

Corporate Members

Alley, Rembert C., Jr.

Box 2106
Roswell 88201
623-5700

Dorsey, Duane

Box 933
Mesilla Park 88047
523-4220

Durham, Beryl

514 North Canal St.
Carlsbad 88220
885-5545 or 5640

French, Edwin C.

Box 237
Roswell 88201
622-3851

Gorrell, Arthur A., Jr.

303 North Canal Street
Carlsbad 88220
885-8500

Harris, Wilbur T.

Drawer H
Hobbs 88240
393-2257

Hill, Jay

Box 342
Silver City 88061
388-1571

Killian, Richard L.

Drawer H
Hobbs 88240
393-9743

Kilmer, Randall L.

Drawer H
Clovis 88101
762-2991

Mitcham, Raymond

Box 996
Roswell 88201
623-7111

Nims, Ronald C.

514 North Canal St.
Carlsbad 88220
885-5545 or 5640

Nolan, Charles E., Jr.

Box 1788
Alamogordo 88310
437-1405

Pendleton, Warren F.

Post Office Box 1208
Clovis 88101
763-6923

Protz, D. Craig

P. O. Box 298
Las Cruces 88001
524-8071

Smith, Kern

514 North Canal St.
Carlsbad 88220
885-5545 or 5640

Smith, Eldon W.

P. O. Drawer "J"
Clovis 88101
762-2968/69

Standhardt, Frank M.

Arabella Route
Box 24, Tinnie 88351
653-4442

Waggoner, Richard

Box 1027
Roswell 88201
623-3600

Wham, Robert L.

P. O. Box 572
Hobbs 88240
393-2880

ASID - 1976 - ASID

American Society of Interior Designers

New Mexico Chapter

President.....Rudolph Salazar

Vice President.....Ronald Nelson

Secretary.....Lynda Klingman

Treasurer.....Margaret Paulick

Board Member.....Jim Felter

Board Member.....Ernest Young

Board Member.....Frank Woods

Board Member.....Eloisa Branch

Board Member.....John Conron, FASID

Fellows**Comeford, Modesta**

Modesta's
108 Vassar, S.E.
Albuquerque 87106
266-4884

Conron, John P.

The Centerline, Inc.
207 Lincoln Ave.
Santa Fe 87501
982-5674

Professional Members**Branch, Eloisa Eckert**

Eckerts', Inc.
Box 4507
Albuquerque 87106
265-6966

Conkle, E. P., Jr.

Modesta's
108 Vassar, S.E.
Albuquerque 87106
266-4884

Cox, Jessie

Jessie Cox Interiors
Rt. 1, Box 55-X
Carlsbad 88220
885-8318

Drew, Frank W.

Drew-Pilat
503 Canyon Road
Santa Fe 87501
983-4461

Duncan, Mary Huber

Eckerts', Inc.
Box 4507
Albuquerque 87106
265-6966

Felter, James D.

New Mexico Office Furniture
6437 Linn Ave., N.E., Box 8512
Albuquerque 87110
265-7841

Ferguson, Catherine A.

722 Solano, S.E.
Albuquerque 87108
266-4769

Fox, Ellen

Ellen Fox Interiors
Box 33, 33 Tierra Monte, N.E.
Albuquerque 87122
294-7327

Hamilton, Shirley M.

332 First National Tower
Las Cruces 88001
524-7164

Huber, Jo Eckert

Eckerts', Inc.
Box 4507
Albuquerque 87106
265-6966

Jones, Grady M.

Interiors West, Inc.
1020 East Lohman Avenue
Las Cruces 88001
524-7560

Klingman, Lynda M.

6804 Barber Pl., N.E.
Albuquerque 87109
881-9616

Nelson, Ronald W.

4616 Robin Ave., N.E.
Albuquerque 87110
881-3203

Paulick, Margaret

12332 Eastridge, N.E.
Albuquerque 87112
292-2990

Pettingell, Jean

Jean Ellett Pettingell & Assoc.
212 Bryn Mawr Dr., N.E.
Albuquerque 87106
268-7373

Pilat, Leonard

Drew-Pilat
503 Canyon Road
Santa Fe 87501
983-4461

Purdy, Wm. H.

Bill Purdy Interiors
2600 W. Alameda
Roswell 88201
622-2858

Ross, Lulu

3144 La Ronda, N.E.
Albuquerque 87112
881-0325

Rusler, Lindsay

P. O. Box 325
Ruidoso 88345
257-4151

Salazar, Rudolph

Rudolph's Interiors, Inc.
1019 Parkland Place, S.E.
Albuquerque 87107
256-1050

Turrentine, Lynda

Design Plaza
Division of The Paper Mill, Inc.
P. O. Drawer "P"
Las Cruces 88001
524-2866

Woods, Frank

The Centerline, Inc.
P. O. Box 812
Santa Fe 87501
982-5674

Worthen, Richard G.

5620 Eubank, N.E.
P. O. Box 14832
Albuquerque 87111
293-2921

Young, Ernest C.

3508 Parsifal St., N.E.
Albuquerque 87111
881-9616

Zonder, Emily V.

Eckerts', Inc.
Box 4507
Albuquerque 87106
265-6966

Associate Members**Earnest, Pamela D.**

Leishman's Interiors
2720 San Mateo, N.E.
Albuquerque 87110
881-9616

Fessler, Alice G.

Macfield Interiors & Antiques
2745 San Mateo, N.E.
Albuquerque 87110
881-3527

Hadlock, Joelynn

307 N. Locke
Farmington 87401
325-0656

Hudson, Susan K.

P. O. Box 5549 Kafe
Albuquerque 87115
294-4024

Leo, Ernest

American Furniture Co., Inc.
P. O. Box 3685
Albuquerque 87110
883-2030

Messersmith, Christine

Richard G. Worthen Des. Assoc.
5620 Eubank, N.E.
P. O. Box 14832
Albuquerque 87111

Wilson, Gene D'Laurel

Homestead House
1900 Wyoming Blvd., N.E.
Albuquerque 87112
294-1488

Inactive Status**Rila, J. Norman**

709 Arizona, S.E.
Albuquerque 87108
265-6966

Press Affiliate**Neff, Guy M.**

c/o Baca Studio
619 Camino Rancheros
Santa Fe 87501

Education Affiliate**Knapp, Patricia N.**

Cooperative Extension Service
Box 3AE
New Mexico State University
Las Cruces 88001

Honorary Fellow**Girard, Alexander H.**

P. O. Box 2168
Santa Fe 87501



Figure 1.

THE MASONIC TEMPLE IN LAS VEGAS, N. M.

by Louise Harris Ivers

Many late nineteenth century buildings remain in Las Vegas, New Mexico. They are visible proof to us of the proliferation of architectural styles during the Gilded Age. In this period buildings were constructed in every imaginable historical style. Architects freely adapted the ancient structures of Europe and Asia to American commercial and domestic needs. One of the greatest of these architects, Henry Hobson Richardson, was inspired by the Romanesque churches of Spain and Syria, but he did not blindly copy them. Instead, his American buildings capture the sense of massiveness and grandeur inherent in typical Romanesque structures. Richardson adapted the Romanesque to his personal idiom by thoroughly digesting its forms and details, which he used in a manner that was fitting to his designs. In his buildings, decoration and structure are thoroughly integrated. Many other architects quickly grasped the

magnificence of Richardson's structures and began to imitate him, initiating an American style we call the Richardsonian Romanesque.

Most of Richardson's imitators skimmed the superficialities from the great man's style to design structures in which Richardson's essential power was not paralleled. However, there were exceptions to this rule, such as Louis Sullivan's Auditorium in Chicago. By 1875 Richardson had arrived at his mature style seen in Trinity Church in Boston and the Cheney Block (fig. 4) in Hartford, and by 1880 architects in provincial as well as in major centers were producing Richardsonian Romanesque buildings. Between 1880 and 1900 many of the more successful structures in this style appeared in the pages of *American Architect* and *Building News*. Characteristic of these designs are quarry-face masonry,

Continued page 16

heavy proportions, Syrian arches, prominent voussoirs, squat columns, and Salamanican towers.

The Masonic Temple (figs. 1, 5 and 8) in Las Vegas is a typical Richardsonian Romanesque building. In 1892 *The Commercial Club Illustrated Supplement to the Las Vegas Daily Optic* published a design by Kirchner and Kirchner, Denver architects, for the Temple (fig. 2). This design was for a Romanesque building with Gothic overtones. Its quarry-face stone, heavy piers, round arches, clustered colonettes, and turrets derive from the former style, while its sharply pitched roof and gables, cresting, and finials are of the latter. Kirchner and Kirchner's four story design was not constructed, however, and the contract for the Masonic Temple was eventually awarded to I. H. and W. M. Rapp, who at that time had offices in Chicago and Trinidad, Colorado. I. H. Rapp came to supervise the construction in Las Vegas which was executed by W. F. Kean of Pueblo, Colorado.¹ The cornerstone of the Temple was laid in November, 1894,² but the building was not finished until June, 1895.³ Its cost was about \$30,000, and its lot was an additional \$15,000.⁴

The Rapps' design, like that of the Kirchners, is Richardsonian Romanesque in character. In fact, it is remarkably similar to H. H. Richardson's Cheney Block (fig. 4) of 1875-76. Both structures have quarry-face masonry, heavy corner towers with pyramidal caps, indications of towers at the opposite corners, large round arches carried on massive piers linking two stories together, pronounced voussoirs, and arched entrances. The Masonic Temple is narrower, smaller, and simpler in design than the Cheney Block, but both buildings are weighty and massive in character. The Rapps, unlike many of Richardson's imitators, seem to have understood the master's feelings for proportion. A critic wrote in 1891 that

assuredly designers will get nothing but good from his [Richardson's] work if they learn from it to try for largeness and simplicity, to avoid niggling, and to consider first of all the disposition of their masses. But these are merits that cannot be transferred from a photograph. They are quite independent from a fondness for the Provencian Romanesque, and still more of an exaggeration of the depth of the voussoirs and of the dwarfishness of pillars.⁵

Although it would not be mistaken for one of Richardson's designs, the Las Vegas Masonic Temple has the "largeness and simplicity" that were the master's great qualities.

The entrance of the Masonic Temple (figs. 5 and 8) is a low Syrian arch carried on squat columns typical of the kind used by Richardson. Rapp and Rapp did not derive this entrance from the Cheney Block, however, but seemingly from Adler and Sullivan's Chicago Stock Exchange (fig. 3) of 1893-94. Although they lack the brilliant complexity of Sullivan's ornament, the curvilinear vegetal forms carved in low relief on the sandstone spandrels

above the entrance arch of the Temple are somewhat Sullivanesque in character. The disposition of this carving is an *alfiz* around the low Syrian arch, and the *tondi* with carved borders containing symbols in the spandrels of the Las Vegas Masonic Temple are similar to those of the Chicago Stock Exchange. However, the Stock Exchange arch rests on a low base immediately on the ground, while the Masonic Temple arch has a high base composed of more Sullivanesque vegetal ornament, squat columns, and rusticated blocks of red sandstone. At the corners of the bands of sinuous vegetal carvings are the heads of *putti* (fig. 8) intertwined with leaves. A competent stone carver undoubtedly created this decoration. Whether the Rapps imported an artisan or hired someone in the Las Vegas area to carve these blocks is unknown.

The Optic, still published daily in Las Vegas, described the three story Masonic Temple in 1895.

The building . . . has been erected of Las Vegas red sandstone . . . Its outer dimensions are seventy-five feet front by ninety feet of depth, there being five floors, including the basement and tower. The basement is divided into three rooms, underlying the entire structure, and is lighted by prismatic tiles in the vestibules to the stores and by three bulkhead windows in the rear. The heating apparatus for the building, is located in the basement.

In front of the Temple is the first cement sidewalk in Las Vegas. Broad and well built curbing of red sandstone, it furnishes a handsome approach to the three handsome store rooms occupying the ground floor . . . The ceilings [of the display windows] are of steel, and the fronts of red oak, the top of each window being chipped glass, while the remainder of the window is one solid sheet of American polished plate glass.⁶

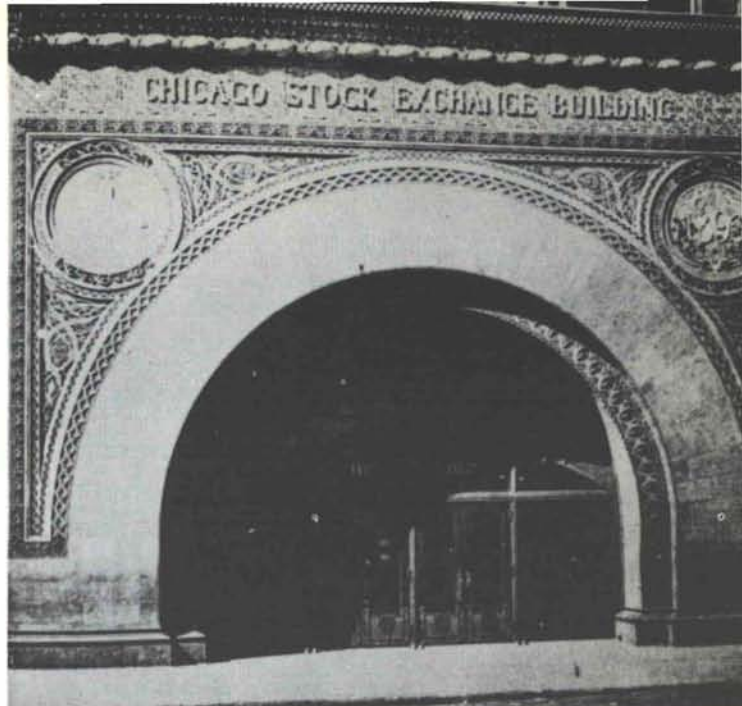
The display windows of the Temple seem to have remained intact. Carved wooden pilasters with beading and triglyph-like motifs support an entablature with a dentil cornice on each wall exposed by the windows. Arched mirrors with fan-like forms are set between these pilasters (figs. 6 and 7).

Inside, the Masonic Temple is rather spare and devoid of detail. What detailing exists is classical in form. For example, the newel posts of the tower staircase have recessed beaded panels, dentils, and leafy forms carved on them. Panels and dentils also appear around the entrance of the lobby, and still more panels and curvilinear carving are found on the staircase. Decorative turned balusters make up the stair railing. The only decoration in the upstairs rooms is around the doors and windows. *The Optic* described the interior of the Temple in exaggerated terms.

The grand entrance is in the tower . . . and is approached through a low massive arch of masonry, giving access to a lobby, ten and



▲ Figure 2. Las Vegas Masonic Temple design by Kirchner and Kirchner, 1892.



▲ Figure 3. Entrance, Chicago Stock Exchange, 1893 - 94.

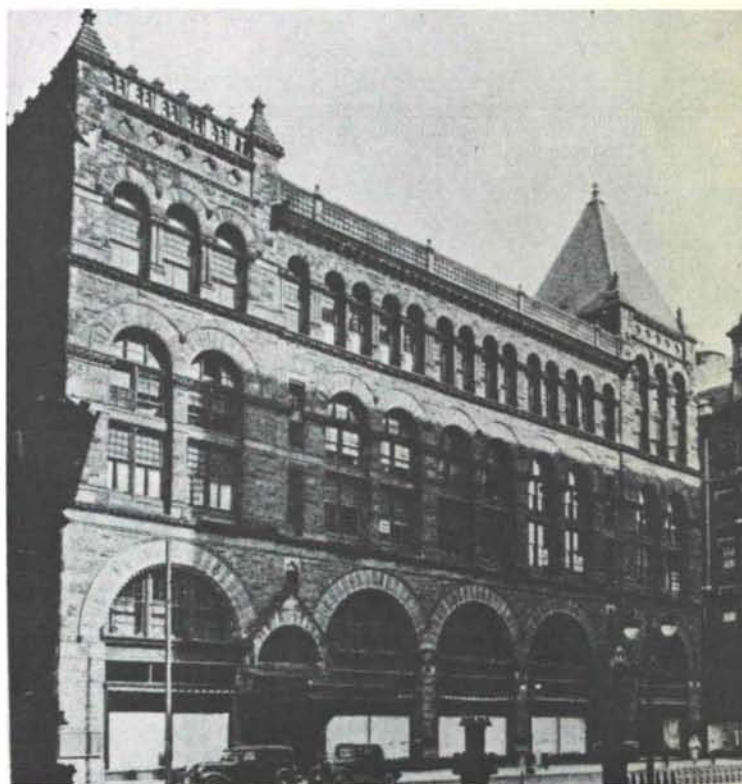


Figure 4. Cheney Block, Hartford, Conn., 1875 - 76. ►



Figure 5. Entrance to the Masonic Temple, Las Vegas.

Figures 6 and 7. The showcase and doors, Hoffman's clothing store.

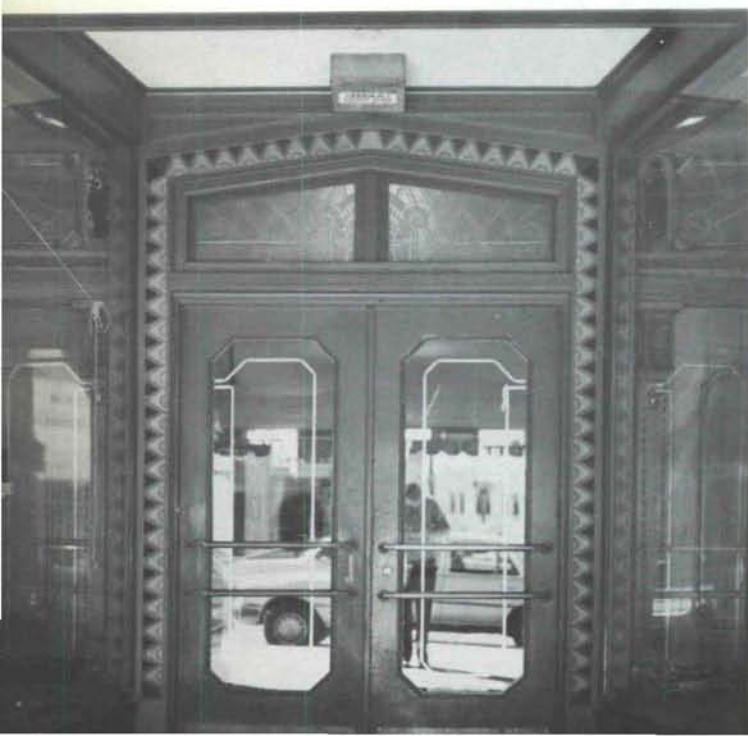




Figure 8. Detail of the stone carvings, entrance to the Masonic Temple, Las Vegas.

NOTES

¹The Daily Optic, XVII, (June 24, 1895).

²Ibid., XVI, (November 26, 1894).

³Ibid., XVII, (June 24, 1895).

⁴Ibid.

⁵Montgomery Schuyler, "Glimpses of Western Architecture: Chicago," **American Architecture and Other Writings**, Edited by William H. Jordy and

Ralph Coe, (New York: Atheneum, 1964), 114.

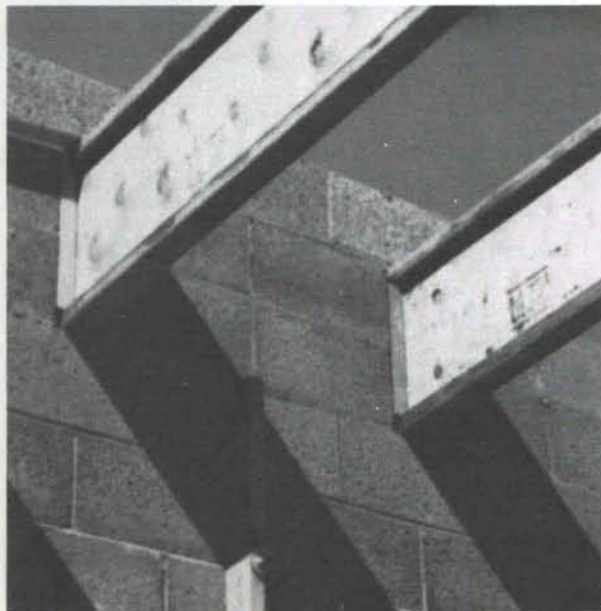
⁶The Daily Optic, XVII, (June 24, 1895).

⁷Ibid.

⁸I. H. and W. M. Rapp are listed as having an

office in the Crockett Block in Las Vegas in the 1900 and 1903 city directories.

⁹Examples are St. Anthony's Sanitarium of 1898, the Baca Avenue Public School of 1900, and the Y. M. C. A. building of 1905.



"We found TJI far superior to other systems"

states Marvin E. Goldberg, El Paso general contractor: "In a warehouse-office building which we recently completed, we found the Trus Joist roof system to be far more economical than any of some half dozen systems that we investigated.

We found the erection and completion of the building with this system to be far superior to any other system we had considered using on this project."

Project: Office and Warehouse, El Paso, Texas
Contractor: Marvin E. Goldberg

George B. McGill & Co., Inc.

3530-C Pan American Fwy., NE
Albuquerque, New Mexico 87107
Telephone (505) 345-4501



Goodrich Roofing Co.

A CORPORATION

Serving New Mexico For Over 20 Years

NO JOB TOO LARGE—OR TOO SMALL
ALMOST EVERYTHING IN ROOFING
AND SHEET METAL

GOODRICH ROOFING IN
ALBUQUERQUE FOR GOOD . . .

OUR CREDENTIALS . . . THOUSANDS OF
SATISFIED CUSTOMERS
FREE ESTIMATES

(505) 345-1854

3402 Stanford Drive, N. E.
ALBUQUERQUE, NEW MEXICO

The paints and coatings Southwestern professionals use.

Easy-on interior paints, climate-designed exterior paints, color coordinated wall-coverings, industrial-technical coatings, and a complete selection of professional supplies and accessories. Since 1936.

Hanley Paint

Manufacturing Co.

Albuquerque, N.M.: 1214 San Pedro N.E.
El Paso, Texas: 1531 Magoffin, 9054 Dyer,
7636 Gateway East, 5937 N. Mesa

YOU SAVE WITH NEW *Spectra-Glaze II* GLAZED BLOCK WALLS

CONSTRUCTION — Build and finish in one operation . . . walls go up faster — one trade, large units lay up fast . . . thru-wall load bearing units eliminate expense of back up wall.
MAINTENANCE — No refurbishing ever. Permanent, sanitary, factory finish — cannot peel or blister . . . easy to clean and keep clean.
ENERGY — Excellent U-factors with lightweight block and insulating granular fill.
INSURANCE — Maximum security and protection at lowest cost, with fire-rated walls.
GOV'T REQUIREMENTS — Meet USDA and OSHA specifications for health, sanitation and safety.



© U.S. Pat. Off., Can. & other countries by THE BURNS & RUSSELL CO.

FEATHERLITE BLOCK CO., Box 489, Lubbock, Tex. 79408, 806/763-8202
FEATHERLITE BUILDING PRODUCTS CO., Box 9977, El Paso, Tex. 79990
CREGO BLOCK COMPANY, INC., 6026 Second St. N.W., Albuquerque, N.M. 505/344-3475

YOU SAVE TIME / YOU SAVE MONEY
WITH THE ECONOMY OF BLOCK & THE PERFORMANCE OF GLAZE

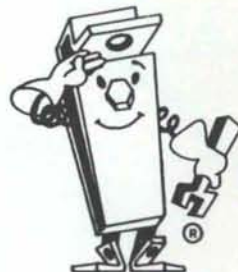
UNISTRUT *New Mexico*

QUALITY PRODUCTS for
THE BUILDING INDUSTRY

Space Frames

Telespar Tubing

Metal Framing



MR. STRUT

4820 PAN AMERICAN HIGHWAY, N. E.
P. O. BOX 3128 (505) 881-0264
ALBUQUERQUE, NEW MEXICO 87110

PLASTECO SKYLIGHTS

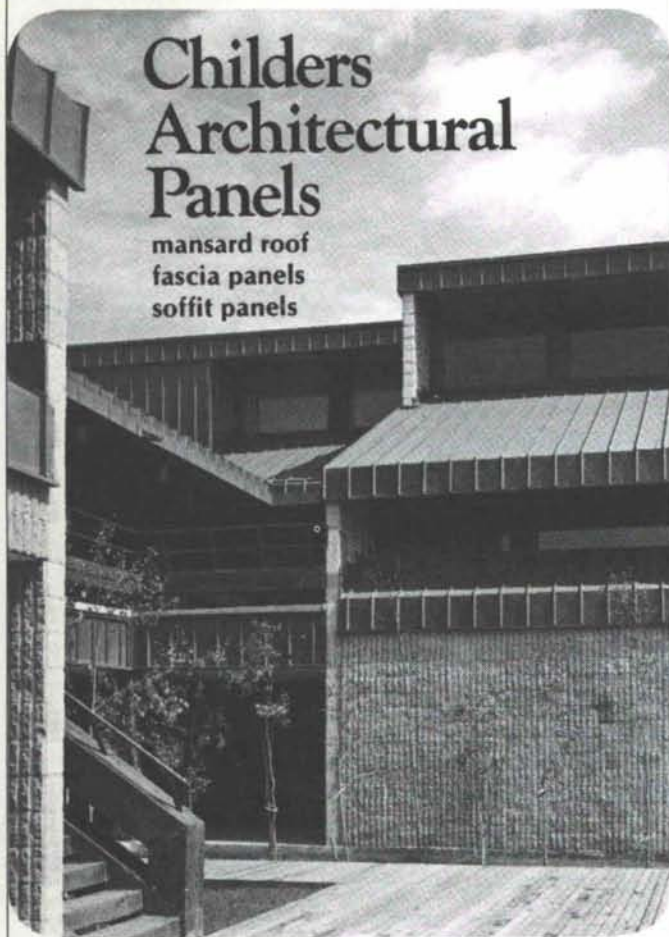
RESIDENTIAL, COMMERCIAL
& CUSTOM — SEE SWEET'S 7.8/PL

Now represented in New Mexico by

William W. Douglass, Inc.
Albuquerque, N.M. 87109
294-5326

Childers Architectural Panels

mansard roof
fascia panels
soffit panels



Geo. B. McGill Co., Inc.
3530 - C Pan American N.E.
Albuquerque 87107
Phone 505/345-4501

McGill - Stephens, Inc.
4100 Rio Bravo St., Suite 320
El Paso, Texas 79902
Phone 915/544-4505

ALBUQUERQUE TESTING LABORATORY

Sub-soil Investigations
For Structural and Dam Foundations

**Two Drills and Crews now
available for Prompt Service**

Laboratory Analysis and
Evaluation of Construction Materials

**All work done under the supervision
of Registered Professional Engineers**

532 Jefferson St. N.E. — P. O. Box 4101
Phone AL 5-8916 Albuquerque
Phone AL 5-1322 New Mexico

Congoleum® FINE FLOORS



PEERLESS™

CUSHIONED VINYL FLOORS. THE ULTIMATE IN CUSTOM FLOORS FOR COMMERCIAL INSTALLATION. THE WHITE SHIELD BACK ALLOWS INSTALLATION ON OR BELOW GRADE.

ASK TO SEE THE WIDE SELECTION OF BEAUTIFUL PATTERNS IN PEERLESS CUSHIONED VINYL SHEET GOODS. EXTRA RUGGED, YET SO BEAUTIFUL.



125 DALE, S. E.
P. O. BOX 2511, ALBUQUERQUE, NM 87125
PHONE 877-5340



SUPPORT YOUR LOCAL AIA FORM SERVICE

We give a 20% discount to all AIA members and components on orders over \$10.00—

Office hours from 9 to 12,
Monday through Friday

The new AIA Catalog is now out—please destroy ALL old catalogs, price lists, etc.

Don't forget the Tax is now 4¼%

This is a service of the New Mexico Society of Architects.

AIA FORM SERVICE BOX 7415
915 LEAD, S.W. ALBUQUERQUE, NM 87104
(505) 242-4159



new mexico architecture

nma

Published bi-monthly by New Mexico Society of Architects, American Institute of Architects, a non-profit organization.

Editorial Correspondence should be addressed to John P. Conron, Box 935, Santa Fe, N. M. 87501. 505 983-6948.

Editorial Policy: Opinions expressed in all signed articles are those of the author and do not necessarily represent the official position of the publishing organization.

No responsibility will be assumed by the editor or publishing organization for unsolicited contributions. Return postage should accompany all unsolicited manuscripts.

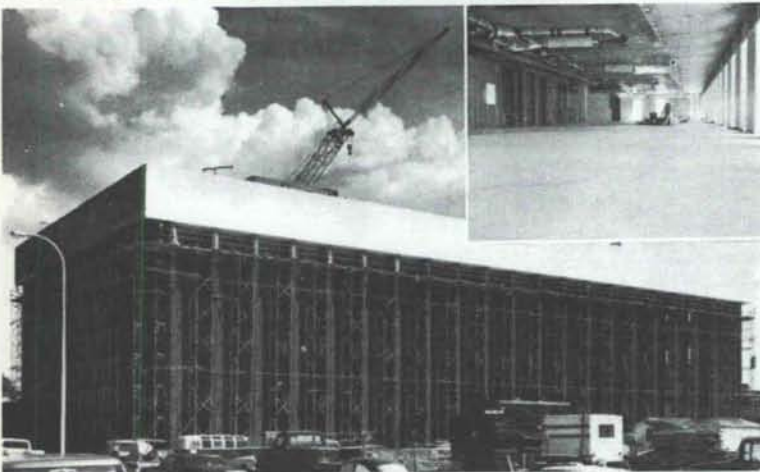
Subscriptions: Write Circulation, New Mexico Architecture, Box 7415, Albuquerque, N. M. 87104. Single copy \$1.00. Yearly subscription \$5.00.

Change of address: Notifications should be sent to New Mexico Architecture, Box 7415, Albuquerque, N. M. 87104 at least 45 days prior to effective date. Please send both old and new addresses.

Advertising: Send requests for rates and information to New Mexico Architecture, Robert G. Mallory, 115 Amherst Drive S.E., Albuquerque, N. M. 87106. 505 255-8668.

Additional copies of NMA available from John P. Conron FAIA/FASID, P. O. Box 935, Santa Fe, N. M. 87501.

Structural integrity: The concrete facts of southwestern life.



Employment Security Commission Office Building in Albuquerque
Architect: W. C. Kruger and Associates
Structural Engineer: Robert Krause
ChemComp Concrete supplied by Albuquerque Gravel Products Company

The assignment was to place concrete floors on metal decks in the new Employment Security Commission Office Building in Albuquerque. ChemComp® was specified to reduce or eliminate cracking typical of this type of placement. The architects and engineers were well satisfied with the results (see inset). Check ChemComp's many advantages by writing for our free brochure: Box 392, El Paso, Texas 79943.



SOUTHWESTERN PORTLAND CEMENT COMPANY
MAKERS OF EL TORO CEMENTS / EL PASO, AMARILLO, ODESSA

Printed By
Hall-Poorbaugh Press, Inc., Roswell, N. M.

INDEX OF FIRMS who make possible the publication of NMA and the page upon which their message may be found:

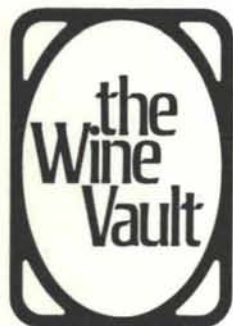
AIA Form Service	22
Albuquerque Testing Laboratory	21
Architectural Systems Co.	23
Builders Block & Stone Co., Inc.	6
Century Roof Tile, Inc.	4
Cook's Building Specialties	23
Crego Block Co., Inc.	2
Cummings Co., Inc., Don J.	Center
Doric Credit Union	23
Douglass, William W., Inc.	21
Goodrich Roofing Co.	20
Hanley Paint Mfg. Co., Inc.	20
Historical Society of N. M.	5
Hydro Conduit Corporation	24
Mason Contractors Assn. of N. M.	8
McGill Trus Joist	19
McGill Co., Inc., Geo. B.	21
New Mexico Office Furniture	6
Prestressed Concrete Products, Inc.	4
Southern Union Gas Co.	23
Southwestern Portland Cement Co.	22
Southwest Vermiculite Co.	7
Spectra-Glaze	20
Stryco Sales, Inc.	21
Summit Pressed Brick & Tile Co.	5
Unistrut New Mexico	20
University Bookstore	7
Wellborn Paint Mfg. Co.	6

ARCHITECTURAL SYSTEMS COMPANY

ACOUSTICAL CEILINGS
BUILDER'S HARDWARE
DEMOUNTABLE
PARTITIONS

Box 3624
Albuquerque
881-1494

Earl A. Boule
Gerald P. Shultz A.H.C.



The first major
breakthrough
in effective
wine storage
in 2000 years.

DON'T KILL YOUR WINE

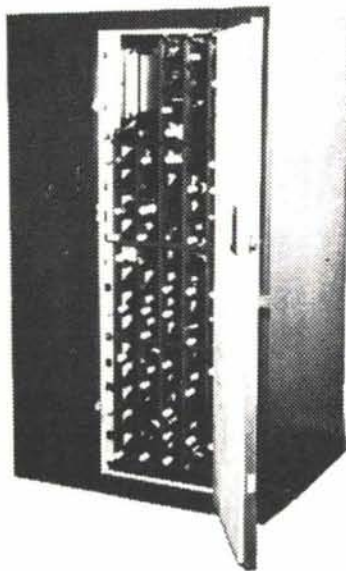
If you're proud of your wine, don't subject it to this well-lit, steam-heated, air-conditioned civilization of ours.

The Wine Vault is a completely self-contained room with walls, floor, ceiling and door lined with California redwood.

It stores your wine in total darkness at a constant temperature of 53-57 on individual redwood racks.

It's pre-fabricated, fits together with patented locking devices, and it's easily put together or taken apart in half an hour.

If you're proud of your wine, invest in a wine cellar any connoisseur would be proud of. The Wine Vault.



FOR COMPLETE INFORMATION CALL:

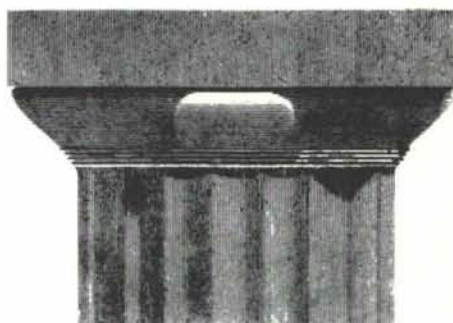
COOK'S BUILDING SPECIALTIES

414 SECOND ST., S.W.

243-5541

ALBUQUERQUE, NEW MEXICO • P.O. BOX 834, 87103

THE DORIC CREDIT UNION



for

Architects, Engineers, their Employees, Wives,
and Children

is

open for deposits and loans
contact your chapter secretary
for membership cards or loan applications

915 Lead S.W. Albuquerque, New Mexico 87102

**Despite the energy crisis,
Southern Union is still
urging you to use natural
gas appliances.**

Why?

For one very good reason: efficiency. Everyone seems to agree that the best solution to the energy crisis is to make the most efficient use of our existing fuels.

So, you should know that the most efficient source of household energy is natural gas. Natural gas can warm your home, heat the bath water, dry your clothes and cook the family's meals more efficiently than any other energy you can use.

That's because Southern Union can deliver natural gas direct to your home with minimal energy loss. For every 100 units of energy taken from the well, 96 are delivered to your home. That is double or triple the efficiency of converting it to another form of energy to be used for these same household purposes.

Fact is, the best way to conserve natural gas is to use it directly.

That's why Southern Union is still urging you to use natural gas appliances. Now, more than ever before, if you want the job done right...do it with gas.

If you want the job done right, do it with gas.

SOUTHERN UNION GAS COMPANY



Bulk Rate
U. S. Postage
PAID
Roswell, N. M.
Permit No. 47

Vol. 18, No. 2



ARCHITECT - Bernabe Romero, A.I.A., Santa Fe
STRUCTURAL ENGINEER - Robert D. Krause
CONTRACTOR - Richard A. Peck

DURABLE ECONOMICAL FAST

Durability, economy and speed of construction are three of the reasons prestressed concrete double tee wall members were chosen for the new Career Education Center at Robertson High School in Las Vegas, N.M.

122 prestressed members, including our new 5 + 3 double tee wall panel, were used in the construction of these battered wall structures. The 160 x 200 foot, two cubicle building houses a large general purpose shop, electric shop, drafting, arts & crafts and home economics training areas. The roof of the building consists of 8' wide double tees, 30" and 20" deep.

Another attractive building, that is durable and economical, was delivered in a short construction time, thanks to prestressed concrete from Hydro Conduit Corporation.



HYDRO CONDUIT CORPORATION

2800 SECOND STREET, SW - ALBUQUERQUE, NEW MEXICO 87103