AIR CONDITIONING
Residential - Commercial - Industrial

NEW ENGLAND INSULATION CO.
ACOUSTICAL DIVISION
Distributors and Applicators
Maine • New Hampshire • Vermont

OWENS-CORNING FIBERGLAS
NATIONAL GYPSUM COMPANY
REYNOLDS — EASTERN SYSTEMS

219 Anderson St., Portland, Me.
Phone SPruce 2-7481
Arthur E. Swanson, Manager

LET US HELP YOU TO HELP YOURSELF WHEN IN NEED OF
SCAFFOLDING

Specify
YORK HEAT
for greater
CUSTOMER SATISFACTION

Distributed in New England by
HEAT INCORPORATED
Pine Street Extension,
Nashua, N. H.
TUxedo 3-5021

Call or write for Engineering Assistance
President's Message .............................................. 4
1959 AIA Convention ............................................. 7
Chapter President Heads Convention Delegation .......... 7
Gropius to Receive Gold Medal Award ....................... 7
Tom Power New AGC Secretary ............................... 8
Structural Concrete Corporation Expands .................. 8
Open House Held at New Whitcomb Home ................... 10
Holbrook Elected President of Chapter ..................... 14
United Glass Company New Curtain ......................... 15
Wall Distributor .................................................. 15
New Danvers, Mass., Church by Carter ...................... 16-20
Growth of Concrete Masonry .................................. 21
New Franklin Industrial Buildings ......................... 24-27
by Douglass G. Presscott
Hanover Planning Board Receives Merit Award ............ 30

The chancel end of the Holy Trinity Methodist Church, Danvers, Mass. This church was selected for exhibit in the 1958 Boston Arts Festival.

—All Photos of Danvers Church by Gerda Peterich, R.F.D. #2, Concord.

New Hampshire Architect is published monthly, under the direction of the president and board of directors of the New Hampshire Chapter, American Institute of Architects, to promote the objectives and public relations of the chapter. Advertising rates furnished upon request.
The President’s Message

The New Hampshire Chapter of the American Institute of Architects again looks forward to a new year under the guidance of a new Executive Committee. The results of the efforts of the elected officers will depend largely upon the interest and active support of the membership as a whole.

It is through our various committees that the Chapter is kept informed of developments and actions taken at the local and national level, and regular committee reports by active committees will increase the interest of all of our members in Chapter and National AIA affairs.

We are looking forward to another busy year in which we will strive to improve our Chapter, and by doing so be able to better serve the public, our clients.

John R. Holbrook

A ROOF BY THERRIEN IS A GOOD ROOF

TEL. 3-6193 199 HAYWARD STREET MANCHESTER, N. H.

E. S. BOULOS CO.
ELECTRICAL ENGINEERS and CONTRACTORS
1217 ELM STREET — MANCHESTER, N. H. — Tel. NAtional 3-8831
P. O. BOX 837
21 CENTER STREET — PORTLAND, MAINE — Tel. SPruce 2-3706
P. O. BOX 860

“Serving Northern New England since 1920”
Serving the People
of NEW HAMPSHIRE

John D. Betley,
Manchester

Bradt, Littlefield & Williams
Dover

Dirsa and Lampron,
Manchester

W. Brooke Fleck,
Hanover

Alfred T. Granger Associates,
Hanover

Gray and Ingram,
Hanover

Russell S. Harmon,
Durham

Irving W. Hersey Associates,
Durham

John R. Holbrook Associates,
Keene

Andrew C. Isaak
Manchester

Koehler and Isaak,
Manchester

Alexander Majeski,
Bedford

Arnold Perreton and Associates,
Concord

Peterson, Hamlen and Soule,
Manchester

Douglass G. Prescott,
Laconia

Leo P. Provost,
Manchester

Norman P. Randlett,
Laconia

Tracy and Hildreth,
Nashua

William L. White,
Exeter

Maurice E. Witmer,
Portsmouth

Participating Members of the New Hampshire Chapter

A. I. A.
ELECTRICAL CONTRACTOR

Residential and Industrial Wiring

DIAL MAN. 3-3568

875 South Willow St., Manchester, N. H.
Motor Repairing

REFRIGERATION DISTRIBUTORS
FOOD SERVICE CONSULTANTS

Complete Planning Service
For Markets and Food Stores
Special Industrial Refrigeration
Complete Air Conditioning
Hotel, Restaurant and Institutional Kitchens,
Cafeterias, Dining Areas
Cocktail Lounges

HUMPHREYS, INC.
180 No. Main Street - Concord, N. H.
A Business Devoted To Those Who Serve Food

NOW WATER HEATING
Gives You All The Hot Water You Need When You Need It!

- Safe — no flame — no fumes — no flue!
- Can be installed anywhere
- Attention free — inexpensive, efficient operation
- Quick recovery — which means you get a plentiful supply of water at 150 degrees all the time!
- A lower purchase price for your water heater

See your Water Heating Dealer or . . .

PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
The 1959 convention of The American Institute of Architects is to be held June 22 through 26 at the Roosevelt Hotel in New Orleans, La.

Advance information on the convention reveals that the theme will be Three panel discussions will take place during the convention with well known architects serving on the panels. The topics to be discussed are "Individual Theories of Design," "Design Factors and Resources" and "The Economic Value of Design."

In light of the unique cultural and historical background of New Orleans, it has been decided that the 1959 convention will depart from the usual convention pattern. In contrast to previous meetings, the Institute is organizing only AIA professional and business meetings for all delegates and members.

The exhibits of the nation's leading manufacturers of building products will be housed at the Roosevelt Hotel, where all meetings of the convention are to be held.

CHAPTER PRESIDENT HEADS CONVENTION DELEGATION

New Hampshire Chapter, AIA, will be represented at the National convention at New Orleans, June 22 through 26 by three members at least, and possibly others.

President John R. Holbrook will lead the delegation which also includes Joseph F. Lampron and John D. Betley, both of Manchester.

1ST STEP TO SOUND, SUCCESSFUL BUILDING
CONSULT AN ARCHITECT

GROPIUS WILL RECEIVE COVETED GOLD MEDAL AWARD

Walter Gropius, world famous architect and a Harvard University professor emeritus, has been named as the winner of the 1959 Gold Medal of The American Institute of Architects.

Gropius will receive the coveted award in the course of the AIA annual convention at New Orleans, La., June 22 to 26.

C. R. SWANEY CO.

- Nash Engineering Co.
- Nationals Controls Inc.
- Carver Pump Co.

PUMPS for Vacuum Heating Condensation, Boiler Feed, Sewage Hot and Cold Water and Process Temperature Controls Motorized Valves

335 Newbury Street - Boston 15, Mass.
KENmore 6-5613
Tom Power, former news director of WMUR-TV, has taken over his duties as executive secretary of New Hampshire-Vermont AGC. Announcement of his appointment was made by Robert C. Davison, treasurer of the Davison Construction Company of Manchester, president of AGC. Mr. Power, a native of Worcester, Mass., and a graduate of Holy Cross College, will continue to make his home in Manchester, but will work out of the AGC office in Concord.

STRUCTURAL CONCRETE CORPORATION EXPANDS

Harold Wescott, president of Structural Concrete Corporation of Lakeport, N. H., recently announced two important changes in the manufacture and promotion of their precast, prestressed concrete columns and beams.

Structural Concrete's manufacturing facilities are being transferred from Lakeport to Franklin, N. H. The change of location offers more space, and accordingly, the corporation will go into production of about a dozen different sizes of beams and columns.

It was also announced that The Badei Company, with main offices at Burlington, Vt., and throughout New England, will represent Structural Concrete Corporation in the promotion, sale and erection of beams and columns.

Experienced secretary/bookkeeper with knowledge of structural drafting and mathematics desires job in Manchester-Nashua-Milford area. Write Helen Ring, R.F.D., Wilton, N. H.
Owens-Illinois
THINLITE CURTAIN WALL

UNLIMITED DESIGN FLEXIBILITY, DAYLIGHT CONTROL, DURABLE ALUMINUM FINISH, WEATHER-TIGHT GASKETS
The only prefabricated, light controlling system on the market today.
Glass Tiles available in square, vertical, rectangular, and horizontal rectangular shapes. Basic colors are rice paper white, sunlight yellow, and cool green. Eight fired-on colors available to provide mosaic and other colorful wall effects.

Photo above is Owens-Illinois Thinlite curtain wall installation at Split Ball Bearing Plant, Lebanon, N. H.

As construction progresses at the Acme Staple Company Building, Franklin, N. H. look for another new Thinlite curtain wall installation.

THINLITE is recommended for Schools, Industrial, Commercial, Institutional, and other buildings designed for curtain wall construction.

DISTRIBUTED THROUGH

UNITED

GLASS & ALUMINUM COMPANY
78-80 Douglas Street - Manchester, N. H.
NA 3-3517

FABRICATORS & ERECTORS OF FINE ALUMINUM & GLASS PRODUCTS
SERVING NEW ENGLAND
Two "Open Houses" were held in Keene, New Hampshire, Saturday, May 23, and Sunday, May 24, for the new concrete masonry residence of Arthur Whitcomb at 45 Greenwood Avenue and for the new Monadnock Block plant office and testing laboratory of Arthur Whitcomb, Inc., at 725 Main Street.

Hundreds viewed both buildings with great interest. The Saturday "Open House" saw architects, contractors, building supply dealers, and other representatives of the concrete masonry industry inspecting both home and office. And the home was opened to the general public on Sunday.

The Whitcomb residence illustrates an entirely new concept in this area in the use of concrete masonry: Monadnock Blocks are used as exposed walls, inside and out.

Designed by John R. Holbrook, Associates, AIA, Keene, the house is built of lightweight concrete masonry, with cavity wall construction above grade. Exterior walls are of Monadnock Blocks in a stacked bond pattern. The exposed interior walls are stacked bond with a basket weave pattern in some areas.

It has a precast double tee floor system resulting in a 30' by 50' unobstructed basement area, a clear span without posts. Monadnock Split Block is used for window sills, chimney and fireplace, and in planters, blending attractively with the rest of the structure.

The living room has full-height sliding glass doors which open directly onto a concrete patio surrounding a 20' by 40' swimming pool. The striking roof expanse of the house is enhanced by the use of white marble chips in place of conventional roofing gravel.

The new Arthur Whitcomb, Inc., Monadnock Block plant office and testing laboratory features 2-core, 12-inch concrete masonry units in exterior walls. A decorative front is achieved with Monadnock Hilite Block in the center panel and planter, and Monadnock Split Block on either side.

The building is of slab construction with all conduit and piping concealed in floor, roof, and walls. Roof structure is precast double tee beams, with 4 inches of Zonolite insulating concrete sealed by a conventional bonded roof. The interior is wholly exposed concrete masonry, with natural Split Block, in a random ashlar pattern, used as a decorative lobby wall.

The testing laboratory in the new plant office serves for controlling aggregate gradations, the design and production of Monadnock Blocks, and the design and production of concrete in Whitcomb's three ready-mix plants.

Executives of Arthur Whitcomb, Inc., served as guides at both "Open Houses," and answered many questions.

Other Whitcomb photographs on page 12.
"RUGGED AS MONADNOCK"

MONADNOCK BLOCKS
... the best in concrete masonry...

standard blocks of all types
split block
formbloc
hilite block
shadow block
duraglaze block

READY-MIX CONCRETE
available at plants in Keene, Charlestown and Peterborough

COMPLETE LINE OF MASONRY SUPPLIES

ARTHUR WHITCOMB, inc.
725 MAIN ST., KEENE, N. H.
Rear view of Arthur Whitcomb residence. Note Split Block chimney and planters, stacked bond Monadnock Block exterior, and sliding glass living room doors opening onto concrete patio and pool.

Split Block end wall of lobby of Monadnock Block plant office and testing laboratory.
Interior of new Monadnock Block plant office and laboratory. Building is of slab construction, all conduits and piping concealed, painted exposed Monadnock Block walls.

Front view of new Arthur Whitcomb, Inc., Monadnock Block plant office and testing laboratory, 725 Main Street, Keene, New Hampshire. Hilite Block in center panel and planter, Split Block on either side, precast double tee roof structure.
HOLBROOK ELECTED
PRESIDENT OF CHAPTER

John R. Holbrook of Keene was elected president of New Hampshire Chapter, AIA, at the meeting held Friday evening, May 22 at the Keene Country Club. He succeeds Nicholas Isaak of Manchester.

Also elected were the following: Edgar H. Hunter, Hanover, vice-president; Andrew C. Isaak, Manchester, secretary; W. Brooke Fleck, Hanover, treasurer. Directors elected were Joseph F. Lampron, Manchester; Walter T. Williams, Rochester; Robert L. Snodgrass, Nashua.

Several business items were disposed of and the members discussed legislation on clarification of the registration of architects which is now pending before the New Hampshire Legislature. Nearly 50 architects and guests were present for the dinner and meeting.

An illustrated lecture by Henry G. Neugebauer, archaeologist, electrical engineer and business man of Keene, featured the entertainment program.

The new slate of officers was offered to the membership by a nominating committee composed of John D. Betley of Manchester, chairman, Mitchell P. Dirsa of Manchester and Arnold Perreton of Concord.

Date and site of the summer meeting to be held in August, will be announced at a later date.
UNITED GLASS AND ALUMINUM CO. APPOINTED CURTAIN WALL DEALER-ERECTOR

The United Glass & Aluminum Co., 78-80 Douglas Street, Manchester, has been appointed dealer-erector for the new Owens-Illinois Thinlite Curtain Wall System. Specialists in erection of glass and aluminum systems, the United firm serves the northern New England area.

In announcing the dealership, Maurice A Beliveau, president, stated: “Our effort will be concentrated in promotion of the product specification, sales and service to architects and general contractors. We feel that the addition of the Owen-Illinois curtain wall system gives us another quality product to offer customers in the construction field.”

Introduced last year, the Thinlite System is recommended for industrial, school, commercial, institutional and other buildings designed for curtain wall construction. It is the only prefabricated, light controlling system on the market today. Thinlite is designed and engineered as a complete curtain wall system.

Thinlite consists of hollow, prismatic, glass tile panels, framed in interlocking, aluminum perimeters, which are manufactured in 4' x 2' and 5' x 2' modules. Panels are 2 inches thick and light in weight. They are erected in horizontal rows and bolted to structural aluminum struts. The only tool needed for fastening is a screw driver.

The basic framing consists of head, jamb and sill members, struts for support, and batten strips with snap-on cover for finish. Struts and batten strip assemblies incorporate factory-installed Neoprene gaskets for weatherproofing. All members are caustic etched, anodized and lacquered.

Glass tile are available in square, vertical rectangular and horizontal rectangular shapes. Basic colors are Rice paper white, Sunlight yellow and Cool green. A line of eight ceramic fired-on colors is also available to provide mosaic and other colorful wall effects.

Supplementary panels are available in several laminates and cores, as well as fixed and operating windows of several types. Specially designed anchors and extensions are included for erection. Approximate weight of installed wall is 13 pounds per square foot.

Mr. Beliveau also said: “The colors, shapes and supplemental panels available in the Thinlite System make it possible for the architect to provide a new mosaic appearance to a building based upon his own color-design ideas. He has a new freedom to meet the increased demands for color accented buildings.”
In the shelter of the main entrance looking along the church.

Lofty nave showing the inspiring stained glass window designed by Robert Sowers. All the special wooden fittings were designed by the architect.
The wide side aisles provide extra seating space for the festival services.

**Holy Trinity Methodist Church**
Danvers, Massachusetts

**Carter and Woodruff, A.I.A. Architects**
Nashua, New Hampshire

**Leslie R. Porter Co., Inc. General Contractor**
Beverly, Massachusetts

CREDITS:
Thomas T. Amirian, Boston, Mass.—Structural Engineer.
John F. Barnaby, Arlington, Mass.—Mechanical, Electrical Engineer.
Robert Sowers, New York City—Stained Glass Design.
Rambusch Decorating Company, New York City—Fabrication and installation.
George Salo, Sutton, N. H.—Brass & Silver smith.
Lilly E. Hoffmann, Concord, N. H.—Weaver.
Paul Tanguay, Nashua, N. H.—Cabinet work.

The powerful "Judgment" window in the rear of the church has overtones both of an ancient rose window and of an ominous bomb-generated cloud. The acoustical treatment can be seen on the roof and the rear wall under the window.
Plan: Furnace room and toilets are in the basement under the three classrooms at the end of the fellowship hall.
The Holy Trinity Methodist Church is a new name for an old church in Danvers. Their previous church was old and structurally unsound, but, most of all, it was inadequate to house the large increase in membership which the leaders in their wisdom could foresee. Membership has nearly doubled and the annual budget has gone up more than three times, a considerable tribute to the courage and foresight of the leaders of this church.

The dominating plan idea is to tie the fellowship hall (and kitchen) to the nave of the church by a common entry (narthex). This makes the fellowship hall readily available for post-service coffee and social gathering, regardless of weather. As all the classrooms open off the hall, it is further a good meeting place for the Sunday school pupils and their parents. The parish office and minister's office form a central control on the main circulation route. Circulation space is substantially reduced making the classrooms and alcoves open off the hall. The alcoves are then also usable as extra space for large dinners and fairs. The fellowship hall with classrooms is open-ended so that the hall may be made 1/3 larger and the classroom facilities may be double. The classroom facilities of this first stage are now too small for the church school. Not only are more rooms needed, but the first stage rooms ultimately are intended for the upper grades (seminar type classes for the most part) and are smaller in space per student. When expansion is completed, there will be three times as much classroom space as at present. The extended future wing with the fellowship hall and offices will ultimately form a three-sided court. (See dotted areas on the plan).

The chief impression of the building complex is that of the fortress-like strength of the church contrasted with the openness of the fellowship hall and classrooms. Yet, despite the dominance and height of the church, it is still a completely approachable building, the wide, 

(Continued on Page 20)
welcoming entrances and the common everyday materials helping to offset the unfamiliar shape. The approach to the main entrance is gradual enough to permit the worshipper to change from the rapid pace of daily life and to prepare himself for worship.

The entry (narthex) is confining—rather narrow with fairly low roof beams; on entering the church itself, there is an immediate upward and outward (spacial) release. The exterior fortress-like impression gives to one of directed openness as the great size and transparency of the windows become apparent. The “space” pouring in from the wide rear window moves slowly down the high nave, marked with the strong regular rhythm of the steeply rising arches set in contrast to the low line of the side aisle beams and light cove, til it is compressed by the vertically panelled walls of the chancel and rushes upward and outward through the chancel window.

The intense blues, hot oranges and reds suspended in the silver grey field of the rear window are set against the cool blue, green and white ascending composition of the chancel window. Despite the competition between front and rear windows, the eye is firmly drawn to the formal focus of the church, the sanctuary.

The effectiveness of the church owes much to the contractor’s precise workmanship and to the collaborating artists’ fine work. Robert Sowers is one of this country’s outstanding glass designers, and his rich talent here gives real life to the building. The New Hampshire craftsmen (and women) are too well-known to need introduction. We were all honored by an exhibit at the Currier Galley in Manchester of the various articles of wood, cloth, metal and glass that are so central a part of this church.

Pictures and descriptions are totally inadequate when compared to the experience of visiting the church itself. Situated only a short way from Route 128, it is easy to reach. Make it a point to stop next time you go by.

The high church with its weathered copper roof and the lower wing of classrooms and fellowship hall form two sides of a sheltered entrance court around a lovely old maple tree.

Rear of the church showing the pattern of the laminated redwood mullions. Church office, minister’s office and parlor below.
GROWTH OF CONCRETE MASONRY

From an address by Doctor Walter Voss, M. I. T. Bldg. Dept., retired, at annual Meeting of NECMA in Cambridge, Mass.

The growth of concrete masonry is a 20th century development.

In 1914 early buildings were built using Portland cement grout, as a mortar. Sample panels using these high strength binders often cracked in a half dozen places in fifteen feet. It was at this time the idea of developing a minimum block strength of 1000 pounds per square inch based on the gross area originated.

One of the earliest quality control experiences occurred in the city of Springfield, Mass. where the building depart-

SPRAGUE'S #4 DISTILLATE FUEL OIL

Sprague at Portsmouth now offers a special fuel oil for use

- where #6 (Bunker "C") fuel oil is not considered practicable
- where #5 blended oil results in inefficient operation, excessive service calls, or unsatisfactory performance
- where #2 fuel oil is over 20,000 gallons per year

This is SPRAGUE'S #4 DISTILLATE, a refined product of consistent analysis, delivered to Portsmouth by tanker direct from the refinery, and stored separately in a 4,000,000 gallon capacity tank.

The use of SPRAGUE'S #4 DISTILLATE eliminates the problems of poor combustion and excess soot caused by variations in the oil's characteristics from load to load, does away with starting failures in cold weather, high preheating costs, and sludge precipitation in storage tanks, and requires less attention and service.

Deliveries of SPRAGUE'S #4 DISTILLATE are made in Sprague trucks throughout New Hampshire and into Maine, Massachusetts, and Vermont.

SPRAGUE'S #4 DISTILLATE is competitive in price with #5 blended oil and superior in performance. Let one of our representatives tell you more about it.

Telephone Portsmouth, GEneva 6-4120 for further information.

C. H. SPRAGUE & SON CO.

Gosling Road — P. O. Box 478
PORTSMOUTH, NEW HAMPSHIRE

Home office at Boston — Offices serving customers in 24 States and Canada.

ment had a testing machine for determining compressive strength of block. These blocks were sold with red tags. After the blocks were tested and found satisfactory the red tag was removed in favor of a white. This was known as the scarlet fever era in the block industry.

It was many years before anyone gave consideration to the idea of making shear and flexural tests, in place of compressive since these are the more common modes of failure. To appreciate the importance of flexure a change of .001" in a unit having a modulus of elasticity of 2,000,000 meant a stress of 2,000 pounds per square inch. Blockmaybe capable of withstanding such stresses in compression but certainly not in tension.

Capillavity requires that block be treated by silicon or be given some similar covering. A masonry will due to capillavity may allow entrance of more moisture from the elements than an open window.

(Continued on Page 22)
CALIFORNIA
Acrylic
PLEXI-
COLOR
- - the most durable
exterior masonry
paints
MANUFACTURED IN
NEW ENGLAND
California Stucco Products of N. E., Inc.
KI 7-5300

DOW
STYROFOAM
EXPANDED POLYSTYRENE
RIGID PERIMETER
INSULATING BOARD
•
POLYETHYLENE
BUILDING PAPER
Available in all widths and thicknesses
•
EXPANSION JOINTS
FLEXCELL & CAREY
2-1071
NATIONAL 3-5293 COLLECT
2-3506
Corriveau - Routhier Co.
266 Clay St. Manchester, N. H.

(Continued from Page 21)

Delivery of block in the old days by dump truck or other barbarian method certainly was not in the best interest of the producer, nor was the uncovering of block outdoors in the mud of the job, in the rain or snow.

It has been my duty as a masonry consultant to inspect many unsatisfactory buildings during the past 45 years. Needless to say, I learned a lot about masonry during this time.

Many projects have leaked due to improper flashing. This should be carefully done, keeping in mind that water which gets behind masonry should have an opportunity to get out at the floor line. The method of tying header block and brick together would be better revised to keep water leaking on top of the brick from leaking into the cores of the backup.

Purging should be done only after the masonry has hardened adequately and then preferably on the block which is heavier. Any movement of the unit after mortar has begun to set creates a fissure which invites moisture. The greater amount of efflorescence in masonry at the corners leads indicates that these units have been tapped to align them after setting.

The cavity wall construction was introduced from England where it was made shovel wide facilitating clean construction. One inch air spaces are generally not effective due to the great amount of material accumulated in the opening. Such a space seems to be a good size for trapping water and holding it there indefinitely.

To be effective an air space should be a minimum of 2", however, even better for water tightness is the arrangement of completely filling this joint solid with mortar as the construction advances.

For backup work it would be better to lay the heavier block first. This can be parged, then the veneer laid — the outside requirements of acceptability being more exacting. It is my opinion that conventional 1:1/4:3 mortars are too hard, strong, inflexible, and do not stick to the unit adequately. The same is true with 1:1:6 mortars. I would prefer to see 1:2:9 mortars which require sacrifice of a little strength in favor of flexibility.
and healing qualities. Keep your insula-
tion near the outside so that the dew line
is pushed further to the outside. This
will minimize condensation and freezing
in the wall itself.

Certainly walls should contain control
joints and reinforcing. I was almost
ostracized for recommending these things
25 years ago. With adequate reinforcing,
perhaps, depending on the construction,
vertical control joints may be as much as
50 feet apart. Care must be exercised to
insure adequate coverage of steel rein-
forcing in walls having moist exposures.

Friction plays an important part in
determining the location of cracks. Thus,
joints should be closer together on the
lower stories than in the upper, because
of this greater weight. This is especially
important in bearing wall design.

The factors which influence movements
are moisture, temperature, deflection, in-
sulation, etc. Because of this it would be
better that we take a lesson from nature.

---

**SPRAGUE FUELS** for New Hampshire consumers

Sprague has a fuel to satisfy most heating and process load requirements

<table>
<thead>
<tr>
<th>Industrial Fuel Oils</th>
<th>Bituminous Coals</th>
</tr>
</thead>
<tbody>
<tr>
<td>#4 Distillate</td>
<td>Southern Tidewater and Northern All Rail coals for underfeed, spreader, or chain grate stokers and pulverized fuel units</td>
</tr>
<tr>
<td>#5 Blend</td>
<td></td>
</tr>
<tr>
<td>#6 Bunker &quot;C&quot; (Residual)</td>
<td></td>
</tr>
</tbody>
</table>

Sprague has a New Hampshire organization on the spot to serve the entire state

- A tidewater terminal at Portsmouth handling a full range of Industrial fuel oils and quality Southern West Virginia coals.
- A fleet of fuel oil and coal trucks for complete delivery service, and facilities for making rail shipments of both coal and fuel oil.
- A sales and engineering force available to you offering factual information on the type of fuel best suited to each installation's equipment.

Telephone our representatives at Portsmouth, GEneva 6-4120 for sales service.

**C. H. SPRAGUE & SON CO.**

Gosling Road — P. O. Box 478
PORTSMOUTH, NEW HAMPSHIRE

Home office at Boston — Offices serving customers in 24 States and Canada.

The human body is a flexible skin draped
over a hinged bone framework held to-
gether by a ball and socket joints. The
skin itself is flexible.

Don't build rigidity into your buildings.
Don't put your block in a straight jacket.
There are countless examples of masonry
buildings growing in length due to the
use of a hard mortar with a hard unit.
Arthritic joints can't move. They cause
trouble. If possible, improve the header
backer detail to avoid leakage. In fact, it
would be better eliminated. Use bleeders
and in this climate include electrical heater conducts so they can be kept from freezing to keep them open in the winter.

Tunnels, facings, spandrel, of buildings
have popped their veneers or snapped the
headers due to inflexible mortars. After
water gets in, arrange for it to get out by
proper drainage. Also to facilitate ease
and movement of moisture it is a good
practice to specify backup brick with not
less than 15% absorption. This gives the
wall a chance to breathe.
Factory Building for: Franklin Developments, Inc., Franklin, New Hampshire to be occupied by Webster Valve Company.

DOUGLASS G. PRESCOTT, A.I.A.
Laconia, New Hampshire
ARCHITECT

DAVID W. DAVISON
Manchester, N. H.
GENERAL CONTRACTOR

WEBSTER VALVE COMPANY
CONSTRUCTION OUTLINE

FOUNDATIONS: Reinforced concrete. EXTERIOR WALLS: 8" concrete block curtain walls, painted. FRAME: Structural steel columns and beams. ROOF: Steel longspan joists, steel deck, 1½" rigid insulation, 20-year bonded tar and gravel roofing (dead level), and copper fascia. WINDOWS: Commercial projected steel windows. DOORS: Industrial type steel and wood overhead doors at loading platform. FLOORS: Reinforced concrete. HEATING and VENTILATING: Steam unit heaters, 2 boilers, and mechanical ventilation through roof. PLUMBING: Men's and women's toilet rooms — and special drains and water supply in manufacturing areas. ELECTRIC: Fluorescent lighting — generally, at 50 foot — candle level; power for bus-duct plug in system for machines. SPRINKLERS: Wet system throughout.

COSTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRUCTURE</td>
<td>$242,552</td>
</tr>
<tr>
<td>PLUMB., HEAT. and VENT.</td>
<td>46,244</td>
</tr>
<tr>
<td>ELECTRIC</td>
<td>46,930</td>
</tr>
<tr>
<td>SPRINKLER</td>
<td>11,600</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$347,326</strong></td>
</tr>
</tbody>
</table>

SQUARE FOOT AREA 73,000 — COST PER SQ. FT. $4.75 — DATE OF CONTRACT: July 1, 1958 — SPACES: Manufacturing area, receiving, shipping, assembly; men's and women's toilets for 500 employees, boiler room and utility room. CEILING HEIGHT 12'-0" to top of steel.
Plumbing - Heating Contractors

for
FRANKLIN DEVELOPMENTS, INC.
Franklin, N. H.

NEW BUILDING OF
WEBSTER VALVE COMPANY

Francoeur-Gill Co., Inc.
34 Clinton St. Lakeport, N. H.
P. O. Box 61

DAVID W. DAVISON
SKILL RESPONSIBILITY INTEGRITY

DANIEL WEBSTER HIGHWAY, NORTH
Tel. NA 4-4041
MANCHESTER, NEW HAMPSHIRE

General Contractor
for
FRANKLIN DEVELOPMENTS INCORPORATED

New Building of
WEBSTER VALVE CO.

Another
COLOROBOT STYLED BUILDING WITH
MARTIN-SENOUR MASONRY FINISHES

Again Martin-Senour electronically Tinted paints were selected for the WEBSTER VALVE CO. BUILDING

The versatile COLOROBOT thru the use of it's universal colorants was selected to tint all finishes—Interiors and Exterior as follows:

TREND SATINGLOSS — Interior Alkyd for Ceilings and Structural Metal.
POLYFLOW — Interior Emulsion for Walls.
COLORSOL — Exterior Masonry Paint for All Exterior Masonry.

CLARK & STEARNS, INC.
GLASS and GLAZING

at

WEBSTER VALVE CO.
Franklin, N. H.

FRANKLIN DEVELOPMENTS, INC.
NEWEST INDUSTRIAL BUILDING
Franklin, N. H.

PAINTS • GLASS • CHEMICALS • BRUSHES • PLASTICS

PITTSBURGH PLATE GLASS CO.
23 So. Commercial St., Manchester, N. H.

Roofing Contractor

For
FRANKLIN DEVELOPMENTS, INC.
WEBSTER VALVE COMPANY
BUILDING
Franklin, N. H.

D. G. HOULE CO., INC.
BONDED ROOFERS

Roofing - Siding - Sheet Metal
No. Commercial St. Manchester, N. H.
Dial NA 2-9163

Painting Contractor

At The New
WEBSTER VALVE COMPANY
BUILDING
by
FRANKLIN DEVELOPMENTS, INC
Franklin, N. H.

William J. Nickerson
Westmoreland, N. H.
Telephone EXport 9-4339

Jordan’s Electrical Co.
PHONE AT 6-8716
35 BAY STREET TILTON, N. H.
COMMERCIAL & RESIDENTIAL WIRING

Electrical Contractor

for
FRANKLIN DEVELOPMENTS, INC.
Franklin, N. H.
NEW BUILDING OF
WEBSTER VALVE CO.
and
ACME STAPLE CO.
DOUGLASS G. PRESCOTT, A.I.A., Laconia, New Hampshire, ARCHITECT

ACME STAPLE COMPANY

CONSTRUCTION OUTLINE


COSTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRUCTURE</td>
<td>$188,185</td>
</tr>
<tr>
<td>PLUMBING, HEATING and VENTILATING</td>
<td>75,460</td>
</tr>
<tr>
<td>and COMPRESSED AIR</td>
<td></td>
</tr>
<tr>
<td>ELECTRIC</td>
<td>43,003</td>
</tr>
<tr>
<td>SPRINKLER</td>
<td>8,500</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>$315,148</strong></td>
</tr>
</tbody>
</table>

SQUARE FOOT AREA 43,000 — COST PER SQ. FT. $7.33 — DATE OF CONTRACT: May 7, 1959 — SPACES: Manufacturing, shipping, receiving, loading docks, paint rooms, tool rooms, dust collection, lunch room, toilet rooms, first aid, general office, executive offices, office toilets, office storage and lobby.
DERRYFIELD SUPPLY CO., INC.
- Wholesalers -

Kohler Plumbing Fixtures
National — U. S. Radiator Heating Products
Fluid Heat Air Conditioning
John Wood Hot Water Heaters
H. B. Smith Boilers
Pipe • Fittings • Valves
National Disposal Units

GRANITE and FRANKLIN STS.
Manchester, N. H.

VERMONT SLATE
for
Fine Buildings
Floors - - - Roofing
Flagstone - - - Structural

Our quarries and finishing plants producing all colors of natural Vermont slate are at your service. Consult our estimating department for prompt quotations and general information.

VERMONT STRUCTURAL SLATE CO., Inc.
FAIR HAVEN, VT.
TEL. 28

Panel Industrial, Inc.
Distributors of
Construction Equipment and Supplies
159 SOUTH MAIN STREET • CONCORD, N. H.
TEL. CA 5-2726

Sonneborn Building Materials
Delta Power Tools
DeWalt Radial Saws
Schlueter Artic Boy Water Coolers
Timken Bits
Crosby Clips
Aeroquip Hose & Couplings
Vulcan Drill Steel & Pavement Breaking Tools
Laughlin Drop Forge Fittings
Dixon Valves & Couplings
Springs — New & Repaired
Welding Supplies — Marquette, Victor & Stulz-Sickles
Complete Motor Rebuilding
Kohler Electric Plants
Complete stock of all sizes Machine Bolts & Cap Screws

Dutch Boy — THE NAME TO GO BUY — FOR EVERY PAINT JOB

First choice of professional painters — first choice with home owners — that’s Dutch Boy. There’s a Dutch Boy finish specially blended for every painting need, inside or outside your home, and you can depend on it for long-lasting beauty. Choose yours today at —

PAINT DEPARTMENT
Main Store — Street Floor
BUILDERS’ PAINT DEPARTMENT
Opposite Main Store
(Rear of State Theatre)

EXCLUSIVE DEALER
J. J. MOREAU & SON, INC
MANCHESTER, N. H.
Dial 4-4311

28
Officers of the N. H. Planning and Zoning Association, recently elected, include from left to right: Victor Kjellman, Henniker, director; Burleigh Fernald, Stratham, president; Mary Louise Hancock, Concord, secretary-treasurer. See story page 30.
At the annual meeting in Concord on May 28, the N. H. Planning and Zoning Association bestowed its highest accolade, the Planning Merit Award, on the Hanover Planning Board. The award, given in recognition of outstanding achievement in the field of community planning, was accepted by Prof. John V. Neale, former Chairman of the Hanover Board.

Key speaker for the meeting was Dr. John T. Holden of the University of New Hampshire's Government Department who discussed The Planning Board and Town Government.

Afternoon speakers were Paul Hendrick, Vincent R. Dahlfred, and Charles L. Crangle of the N. H. Planning and Development Commission staff.

Elected to direct association affairs for the coming year were President Burleigh Fernald of Stratham; Vice-President Harvey Chandler of Hillsboro; Mary Louise Hancock of Concord; Directors Victor Kjellman of Henniker; Leonard F. Hubbard of Wolfeboro; Alexander Majeski, AIA of Bedford; Carl A. Thunberg of Canterbury and Col. Albert S. Baker of Bow.

---

RIVERS and HENRY
O. A. Rivers  R. H. Henry

Plumbing and Heating Contractors

KEENE, NEW HAMPSHIRE
Rear 97 Main St.  Tel. ELMwood 2-3231

---

ON THE LEVEL

At B. L. MAKEPEACE you'll find the most complete stock of quality engineering instruments in New England . . . famous Keuffel & Esser levels, transits, tapes, drafting instruments . . . in fact, everything for the engineer, draftsman and artist.

SPECIALISTS IN
● BLUEPRINTS ● PHOTOSTATS ● PLAN REPRODUCTIONS
The way you want them . . . when you want them!

INSTRUMENT REPAIR DEPARTMENT

CALL
COpley
7-2700

Completely equipped and staffed with skilled craftsmen to give you prompt, efficient service in repairing and rebuilding engineering instruments of all kinds.

New England's Largest Distributors of Drawing Materials, Art, Engineering and Architectural Supplies

B. L. MAKEPEACE Inc.
1266 BOYLSTON STREET • BOSTON

30
Call DENSMORE For Fast Delivery...

of CLAY PRODUCTS
and
MASONRY SUPPLIES

NATCO
 QUALITY CLAY PRODUCTS SINCE 1889

Face Brick — Glazed Facing Tile
Sewer Pipe — Flue Lining
Fire Brick — Water Proofing
Scaffolding — Metal Specialties

DENSMORE BRICK COMPANY
Manufacturers and Distributors • Lebanon, New Hampshire

Serving Northern New England and New York with Steel Products

Our large steel fabrication plant can provide you with structural steel, longspan trusses, ornamental iron and fabricated platework. Our warehouse is kept stocked with large inventories of steel and steel products in all sizes. Prompt delivery is our goal on all orders, large or small.

LET US QUOTE ON YOUR REQUIREMENTS

VERMONT STRUCTURAL STEEL CORP.
Plant and Warehouse  Dial Burlington 207 FLYNN AVENUE BURLINGTON, VT.