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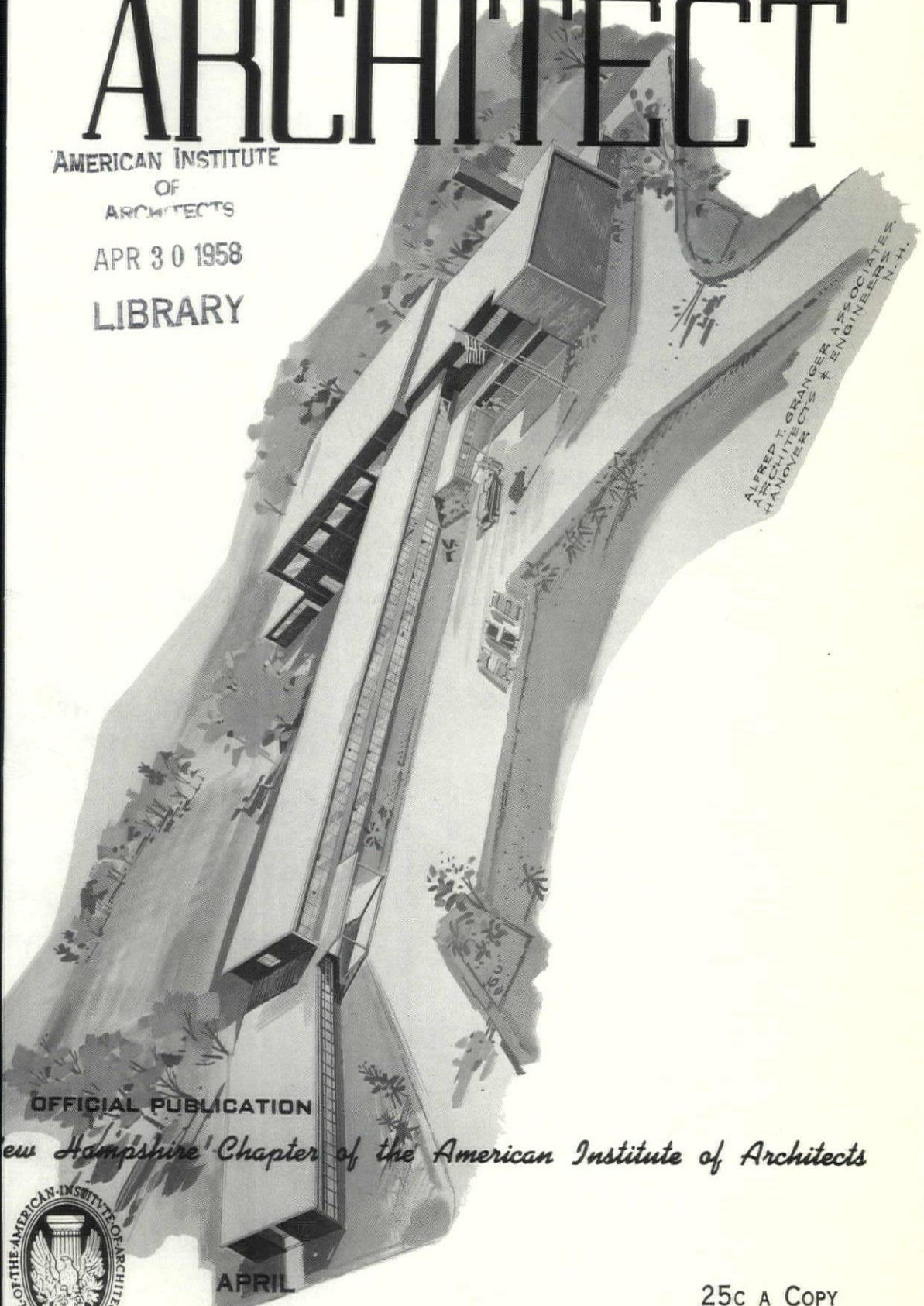

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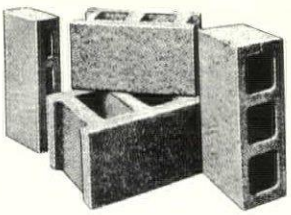

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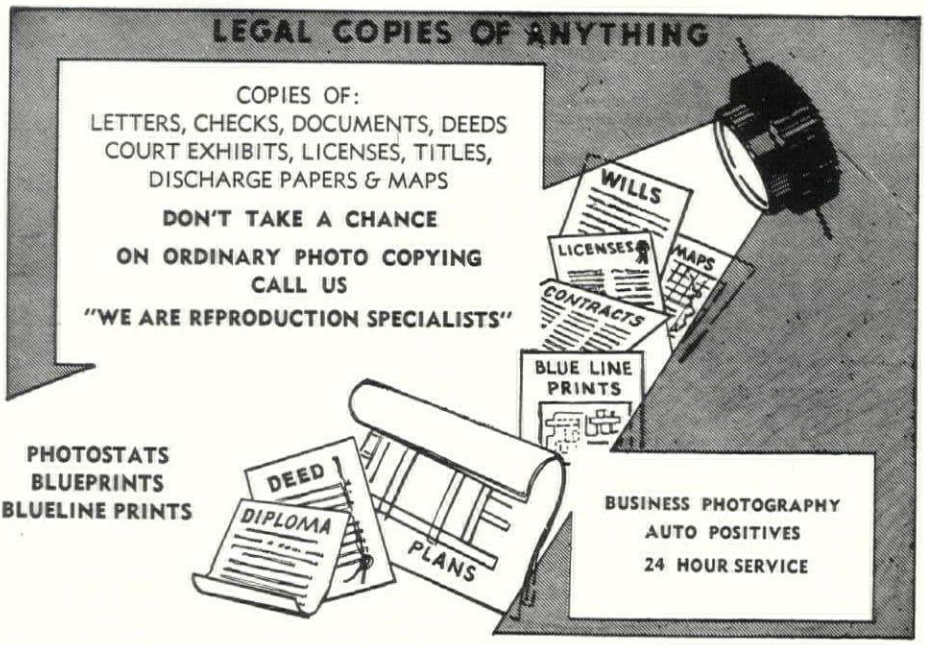

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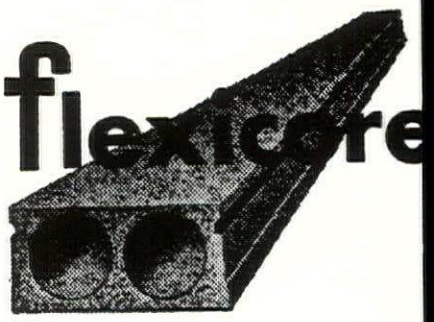

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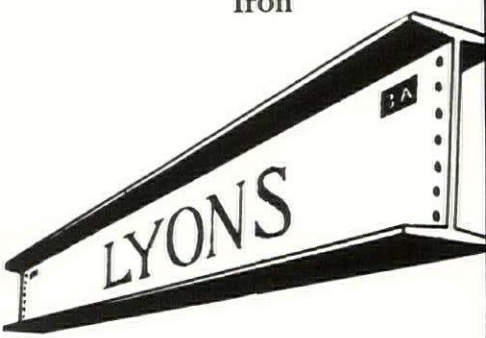

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The President's Message

The year 1957 was a year of transition from a boom economy to a period of readjustment. Business psychology has undergone a sharp change which, no doubt has been heavily influenced by the action of the stock market. Any indisposition of the President, the Sputnicks, or even minor news seems to create a major fluctuation in the market. This present jittery attitude and the gloomy forebodings for the future are not borne out in all major business activities.

Despite the slackening of business in general and heavy unemployment in many areas, the cost of living has not decreased. Food, clothing and shelter prices remain at a high level.

Many segments of the industrial world contemplate major expansion in the immediate future. In one field, the furnishing of electrical energy, production by the nations public utilities will likely be expanded threefold by 1970, according to a report issued in behalf of the Public Utilities Securities Committee.

Recent predictions for the peacetime use of atomic energy claim that in the next ten years, the free world should have from 25 to 30 million kilowatts of nuclear capacity with a total investment of ten billion dollars.

The increase in mass production techniques in the aluminum industries will make a major contribution to the field of construction. Richard S. Reynolds, Jr., President of Reynolds Metals Company recently said "The present oversupply of aluminum is not a liability but an asset. Until recently, we have lacked the metal to take advantage of the tremendous opportunities it offers us." The insignificant amount of aluminum used abroad in undeveloped countries, Reynolds stated, is another tremendous challenge to and opportunity for aluminum.

Another important factor that will affect the economy in the near future is the Federal Highway Program. The construction industry will prosper from this not only in the building of the highways themselves but by opening new areas for development.

The meeting of the requirements of the rapidly increased population in this country in the last decade will provide considerable impetus to the national economy.

The present efforts being made to correct some of the maladjustments incurred during the recent unprecedented prosperity should lay a sound basis for future stability in our economy.

John D Battley

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COVER PICTURE

Typical School Building Designed by Alfred T. Granger Associates.

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.

EUROPE IN FOUR WEEKS

By Eugene F. Magenau, A. I. A., Concord, New Hampshire

Travel in Europe is one of those things you think of as a nice idea for other people who have lots of money, and even for yourself some rosy day in the remote future. But if you have not had a real vacation in years, and have a son stationed abroad in the Army, a 14 year old daughter who would learn more there than in school, and a very persistent wife, you will find yourself doing it sooner than you think, as I did.

Flying by Pan-American, we left Boston late in the afternoon of February 21 and arrived in Frankfort, Germany, early afternoon of the next day, with brief stops at Shannon (Ireland), London and Dusseldorf. From Frankfort we made a 3500 mile sweep by Volkswagon through southern Germany, into Austria, Italy, Monaco and the Riviera, France, Switzerland, back to Frankfort, then Cologne, Brussels, and Paris. The return flight was again only overnight, landing us back home on March 24, having spent 29 of the 31 nights away in Europe.

One does not become an expert traveling so quickly over such distances but you do have many interesting experiences, lots of fun, lots of good food, and if you are interested in architecture you learn a great deal about that and the sister arts of painting, sculpture and landscape architecture.

There were only three or four low points on this trip that was almost a continuous series of highlights. Rome was spoiled to some extent by extreme commercialism of the purveyors of hotel rooms, post cards and the like; in Paris our car was broken into one night and although we lost only some films and a carton of cigarettes, the films were irreplaceable, and American cigarettes cost $1.44 a pack over there! In Cologne my enjoyment of the great Cathedral was marred by anxiety over failure of my family to meet me there as agreed after a two day separation so that I could take a side trip. This situation resolved itself when, out of the 100 hotels in Cologne, we both selected the same on to go to for the night!

Germany is a wonderful and delightfu country and so are the people. Wa damage is almost non-evident except i the industrial north, where occasiona bombing ruins may still be seen. Th southern cities of Mannheim, Stuttgar and Munich had large sections wiped ou by bombs but these have been almos completely renewed. In Stuttgart it i said the people are very proud of the fine city, where the architects were give a free hand. This was evident in th three buildings I visited, Gedaechtmi kirche (church), Liederhalle (cultur center) and a High School, where hig design quality and excellent use of ma terials exemplify the very best of moder architecture.

In Munich I spent a morning with th City Building Department which is a ministered by a very cultured gentlema who is both an artist and engineer. H influence is seen in the fine streets, th absence of slums, the artistic neon sig of which there is a great profusion, th varied and colorful housing projects wi many open spaces. They do not have need architects' registration laws Germany because the building depar ments require such detailed and technic plans to be submitted for a permit, th only architects are capable of preparin them. Thus all new buildings and alter tions are designed by architects and th result is truly magnificent. The meth of selecting the architect also helps explain the high quality of public buil ings including schools — about five loc or nearby architects are invited to co pete, the winner gets the job and th others are compensated enough to cov most or all of their costs.

Munich, a city of 1,000,000, also h many historic features — after all, it about to celebrate its 2,000th anniversar There is a mile-long street lined wi buildings all in Florentine style; ma

(Continued on Page 10)

NNUAL MEETING OF NEW NGLAND REGIONAL COUNCIL

The annual meeting of the New England Regional Council of the A. I. A., was held at the Boston Museum of Fine Arts Boston, Saturday, March 1.

The business meeting included endorsement of regional directors and secretary-treasurer, and reports of regional committee chairmen and presidents of chapters.

New Hampshire Chapter delegates included John D. Betley, chapter president, Mitchell Dirsa, Alexander J. Majeski, Richard Koehler and Stephen P. Tracy.

Delegates from Maine, Vermont, Massachusetts, Connecticut and Rhode Island were also in attendance together with their wives and guests.

Items and reports brought before the Council for action were:

1. New England Council endorsed Alonzo Harriman of Maine as regional director, replacing Austin Mather of Connecticut.

2. Reelected Dwight E. Smith and Wallace Dibble to the judiciary committee.

3. Reelected Prentice Bradley of Massachusetts as secretary-treasurer.

4. Council approved a resolution endorsing Walter Gropius of Massachusetts Chapter for recipient of the 1958 Gold Medal award.

5. Council endorsed Austin Mather of Connecticut for second vice-president of the American Institute of Architects.

Announcement was made that the 1958 Convention is to be held in Cleveland, Ohio, July 7-11. The theme of the convention will be "The Architect and a Stronger America."

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(Continued from Page 8)

open plazas with monuments and statues; nearby the tremendous Nymphenbury palace; the Ratskellar and Hofbrauhaus, world famous eating places where the world's best beer is served; Pinakoteck museum containing masterpieces by Durer, Cranach, Rubens, Tintoretto, DelSarto, Botticelli, Raphael. Most thrilling to me was the little church of the Brothers Asam, perhaps the finest example of Baroque architecture, where imaginative form and color are carried to extremes.

Driving on south to Garmische through rolling countryside which changed suddenly into snow-laden Alps, we found ourselves in a dream land of picturesque painted houses, intriguing little shops, and skiers heaven. Garmische is now an Army Recreation Center where everything is beautiful, relaxing, fun — and inexpensive. We reveled in good American breakfasts (the Germans, and for that matter all Europeans do not know how to have a proper breakfast!). We rode the cog-railroad train up the Zugspitz, Germany's highest mountain, on a perfect sunny day, enjoying the most spectacular scenery of such sheer beauty as to be impossible to describe. The children skied on the slopes of this wonderland. The architectural fare in this area of Bavaria included trips to nearby Ettal Monastery, another Baroque gem, and Linderhof Castle, a dream palace built about 1870 by Ludwig II of Bavaria in an inspired copy of the Louis XIV style at Versailles. Each room is literally filled with guilded wood carving, Gobelin tapestries, plaster statues, crystal and ivory chandeliers, huge mirrors framed with intricate Dresden china all in one piece, table tops of semi-precious stones, inlaid wood and marble floors, etc. The beauty and craftsmanship of these works of art made us forget how cold we were as there was no heat in the Palace and it was a very cold day.

Crossing the border into Austria, the landscape and character of the buildings and people changed suddenly. Everything was bleak, grim, gray and poor, in contrast to the neatness and simple beauty of the Bavarian countrysid Stopping overnight at Innsbruck, the was time only to window-shop in t quaint little arcaded shops, take pictur of the unusual decorative wrought ir signs, and prepare for our assault on t Brenner Pass into Italy.

(to be continued in the May issue)

1ST STEP TO SOUND, SUCCESSFUL BUILDING

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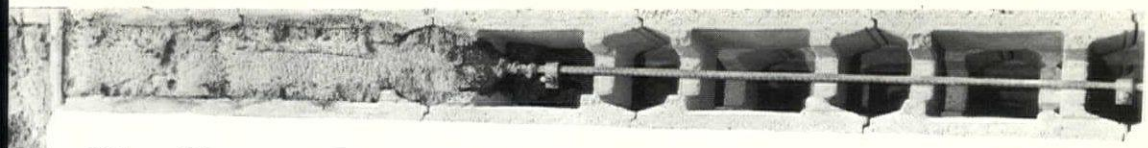
NEW HAMPSHIRE CHAPTER A. I. A. ANNUAL MEETING MAY

Arrangement for the anual meeting New Hampshire Chapter, A. I. A., to held at the Manchester Country Club May 22, have been completed accordi to Andrew Isaak of Manchester, cha man of the committee on arrangement

Mr. Isaak states that reservation for will be in the mail shortly and should returned to him promptly. A cockt hour will start the festivities at 5: P. M., followed by a dinner at 7 P. Election of officers will highlight the M meeting.

Henry G. Neugebauer, electrical c tractor and business man of Keene, v be the speaker, and will give an illustrat lecture on "Peru — Land of the Anci Incas."

Mr. Neugebauer, a student of ar aeology and history for more than years, has presented more than 800 l tures covering his travels through Mexi Peru, Guatamala, Yucatan and Sp during the past 12 years. He is a me ber of the U. S. Archaeology Society, associated with the University of Penns vania Museum, and has done considera work for the National Geographic Socie



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FORMBLOC MASONRY CONSTRUCTION

BY ARNOLD A. PERRETON, A. I. A.
Architectural Consultant
for Formbloc, Inc.

Continued from March Issue

In general, it can be said that Formbloc wall construction compared to most other types of masonry construction has better insulation and greater strength, is more fire-proof, more durable, more flexible, and assures faster construction at a favorable cost.

Where Can Formbloc Construction Be Used To Best Advantage?

Formbloc wall constructon can be used for foundation and retaining walls, exterior building walls, interior bearing and fire walls.

Cost can be lowered and time saved by elimininating form work for concrete walls and using Formbloc units in walls up to 12" thick. These units can be used in conjunction with concrete pier blocks on 8" modules, or with form work in special cases, and all filled with structural concrete. For house foundations and other building walls above frost line, where better thermal insulation is needed to assure better living conditions and lower heating cost, it is recommended that an insulating concrete filler be used. This insulation is likewise recommended for slab-on-grade buildings, such as schools, factories, homes, etc., where it can be used from top of footing to window sills in order to insulate the floor and the exterior wall above frost line and finish grade, where heating lines and heati units are usually installed. Formbloc wa can be erected quickly and easily for fir story exterior walls, since no form wo is required and the wall can be filled wi insulating concrete to required heigh with a pump.

Formbloc walls and other Formbloc co struction require no furring and can painted or plastered direct on the inn surface of exterior walls. On the out surface of exterior walls, the Formbl wall can be left natural with join grouted, painted, coated with a plast paint, stucco, quick brick, Permastone, covered with metal or other facing m terials. If preferred, for exterior wal Formblocs can also be used as an insula ing back-up with brick, stone, Bestor and other veneer materials. Interior bea ing and fire walls can be left natur painted, or plastered in accordance wi usual practice. In general, we recomme that Formblocs be laid up without mort for foundation, back-up walls, and whe otherwise covered. Exterior and interi walls of first and upper stories, left e posed, can be erected dry; but if a tr line is desired, it is recommended th they be laid with a thin horizontal mort joint, but with no vertical mortar joints

(Continued on Page 14)

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GROUND BREAKING CEREMONIES

The Portsmouth Housing Authority broke ground for Project 4-1 at Gosling Meadows in the Port City on April 1. This project consists of 124 dwelling units in 31 buildings.

John D. Betley, president of New Hampshire Chapter, A. I. A., is the architect for this project, and was represented at the ground breaking ceremonies by John D. Sullivan. City, state and government officials were also in attendance.

General contractor for the housing project is Beacon Construction Company of Boston. Lawrence E. Mulloney is chairman of the Housing Authority and Edward J. Abbott is the executive director.

DURHAM BUSINESS LEADER ON EXTENDED TRIP

Ralph B. Craig of Craig Supply Co., Inc., Durham, recently returned from an extended trip to the midwest and south.

Among Mr. Craig's stops were attendance at a national convention in Chicago and business calls at manufacturing plants which his company represents in this area.

NEW LOCATION, OFFICE FACILITIES FOR LITTLEFIELD

Willis E. Littlefield, A. I. A., announces the removal of his offices in Dover from 339 Central Avenue to 2 Pierce Street.

In making the announcement Mr. Littlefield stated that he recently purchased the property and has renovated it, and now has ample quarters on the ground floor.

MITCHELL & HICKS AT NEW QUARTERS

Having outgrown their location on South State Street in Concord, where they have been located since establishment of the business two years ago, Mitchell & Hicks Company, Inc., plumbing and heating contractors, have moved to larger quarters at 62 Hall Street.

A spokesman for the company stated that with their business constantly on the increase, the need for larger quarters became necessary.

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HOUSING PROJECT, FORT FAIRFIELD, MAINE

Site of Housing Project for 36 units, constructed in 1953, showing varied stages of Formbloc, construction, from foundation walls to first floor walls.

Street view of project — during construction — showing Formbloc wall construction on first floor and conventional frame construction on second floor. 8" Formblocs were laid in mortar from footing to second floor plate, and poured with insulating concrete consisting of 1 part cement, 1 part sand and 4 parts Zonolite aggregate to provide a U factor of .145. Note wood door and window trim with Formbloc construction.

The insulated Formbloc Masonry as approved by the Public Housing Administration and the Fort Fairfield Housing Authority has proven to be warm in winter and cool in summer, free from condensation, moisture penetration, and air infiltration even in weather 30 degrees below zero and in other periods of severe weather condition of Northern Maine.

Architect and Engineers,
Arnold Perreton & Associates, Concord, N. H.

In addition to straight walls, Formblocs an be laid in curved walls and used for arrel vaulting, by cutting the Formblocs s required with a concrete saw, at the ob site. The Formblocs for barrel vaulting can be laid dry or in mortar on centering, and filled with structural or insulating oncrete when in position. Floor and roof labs may be built with Formbloc wall ections laid up on the ground, properly einforced, filled, and, after setting, hoisted into horizontal or inclined position for oor and roof construction.

In addition to the general building conruction, Formbloc can be used to advanage for air conditioned buildings, to proide the best thermal insulation, prevent oisture-migration and air infiltration, hich are all common faults in present onstruction of air conditioned buildings. he present practice of constructing air onditioned buildings with inadequate preautions taken to protect the building from isting, rotting, and other deteriorating ffects of air conditioning, is creating a lot f future headaches for everyone conerned. Air conditioning, like other new echniques, requires a new type of buildg enclosure, such as Formbloc construcon, to assure its proper and economic peration, and to assure a sound, safe and sting structure.

Formboc construction can likewise be sed in new structures, such as atomic eactor plants, military installations, etc., hich must be proof against atomic radiaon, by incorporating a radiation-proof aterial into both the Formbloc units and he filler. It can also be used easily, uickly and economically for atomic shelrs to protect human beings and their aluables in case of atomic attack. The ormbloc unit, in single or multiple wall ickness, can be laid by unskilled, volunter Civil Defense workers, and the outer nd inner walls filled with concrete from ansit mix, and the space between the alls filled with concrete or earth as may required. Similarly, vaulting for the of can be erected to make, in all, a bomb oof and radiation proof dual-purpose elter that can also be used in the meanme for other civic purposes such as parkg, storage sheds, hospitals, etc.

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As may readily be seen, Formbloc construction is easily adapted to all structural forms in all type of buildings, and can be finished natural or used in conjunction with other materials now in general use.

Formbloc construction is laboratory and field tested. Formbloc units have been tested in laboratories to conform with the standards of the American Society of Testing Materials. Over one hundred structures have been built during the last ten years, in Massachusetts, Maine and New Hampshire. All those inspected periodically have proven to be structurally sound, excellent in thermal insulation, and satisfactory in all respects.

Formbloc wall constructon has been approved by the National Board of Fire Underwriters, Federal Housing Authorit Public Housing Administration, Mass chusetts Housing Authority, City Boston, and in general has met the Buil ing Code requirements of numerous citi and towns throughout New England.

In New Hampshire, Formbloc is man factured and supplied by the Duracre Block Company, Inc., of Manchest Certified Formbloc erectors are availab to build Formbloc structures according architects' and engineers' plans and spe fications, on a sub-contract or gener contract basis.

As indicated in this article, Formbl construction has so many points superior merit that it will pay each a every architect, engineer, contractor, a all interested in building to investigat specify and use Formbloc construction.

Formbloc Foundation Construction at Project Site, State Hospital, Concord, N. H.

ARCHITECTS INVITED TO MEETING

The Illuminating Engineering Society (IES) of New Eng-
nd is holding a joint meeting with the Electrical Council
New England (ECNE) at Wentworth-By-The-Sea, Ports-
outh, New Hampshire at 8 p.m. on May 15. The IES
ll present their National Progress Report which is a com-
site of light sources, lighting equipment and lighting
stems announced during the previous year. This program
s always received enthusiastic acceptance among archi-
cts, designers, lighting engineers and electrical contrac-
s. The last time a program of this magnitude was pre-
nted in Northern New England was in Portland in 1954.

Dinner reservations for 6:30 p.m., May 15th must be in
e hands of Paul Crosby of Cambridge Electric Light Co.,
Blackstone Street, Cambridge, Mass. by May 8th.

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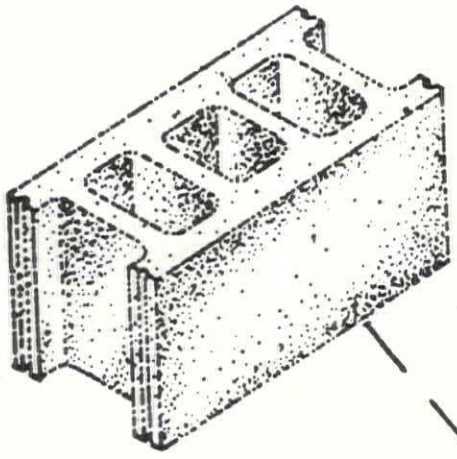


DURACRETE

DEALER MEETING HELD AT PORTLAND, MAINE, MARCH 6

HEAT INCORPORATED ACQUIRES YORK AND SHIPLEY LINES

Heat Incorporated of Nashua, recently launched the acquisition of a new product line — York-Heat and Shipley-Air Conditioning of York, Pennsylvania — with four successful dealer meetings on March 3, 4, 5 and 6. The dinner meetings, consecutively held at Nashua, St. Johnsbury, Vt., Lewiston, Maine and Portland, Maine, were attended by more than one-hundred and fifty dealers, their salesmen, and service men.

Distributors of heating and air conditioning equipment throughout New Hampshire, Maine, Eastern Vermont, and North-eastern Massachusetts, Heat Incorporated until this year had been exclusively General Electric. However, when the General Electric Company decided to discontinue the manufacture of oil boilers, it was necessary to find a comparable heating unit and the search ended with the York-Shipley line.

Slightly over three years ago Heat Incorporated started operations with only twelve direct-served General Electric retailers, and this dealer-organization has expanded to almost one-hundred in this short period of time. The reason for this rapid growth is their method of operation — issuance of protected territory, close cooperation with dealers through engineering, service and administrative assistance whenever possible. The sal engineers of Heat Incorporated, Geor Mathews of Claremont, and Fred Phip of Portland, Maine, are well qualified give this help on a practical basis. the men have grown up with the indust and know all phases of dealer operatio

The presentation of a new product li by a distributor to its dealer organizati is most important, and the success of t four meetings mentioned above w doubly assured by the attendance a assistance of York-Shipley represen tives: Al Crawford, Manager, Resident Division;Ken Ralphs, Sales Manager; E Deardorff, Service Manager; Robe Schnetke, Sales Representative — a George Hobby representing General Co trols Company — as well as the followi Heat Incorporated officials: Walter Illig, President; Mortier D. Harris, Tre urer; Harry H. Falkingham, General Ma ager; and Sales Engineers, Geor Mathews and Fred Phipps.

With General Electric residential he ing and air conditioning equipment, a G. E. commercial and industrial air co ditioning, supplemented by the Yo Shipley heating and air conditioning li Heat Incorporated is anticipating a gr year.

THIS IS NEW HAMPSHIRE

By Alexander R. James, A. I. A., Keene, New Hampshire

In another field of planning the six New England states and representatives of seven federal agencies have joined as an advisory group in planning for the development of our regional resources. Impetus came from a report known as NENYIAC (New England-New York Interagency Committee), the product of four and a half years study and six millions of dollars. With these 46 volumes as a background of fact, a reference to what we **have,** work of the Northeastern Resources Committee begins.

Taking a look at what we have in New Hampshire, here follows a few excerpts and recommendations from this NENYIAC report.

Water Supply

We have a supply of water sufficient for the next fifty years. However, although few there are very real problem areas such as Portsmouth and surrounding towns. Here the shortage has been aggravated by the Air Base at Newington covering a part of the ground water supply. Instead of individual action, a metropolitan water district is recommended which would supply Rochester, Somersworth, Rollinsford, Dover, Durham, and Newmarket as well as the Portsmouth area.

Where nearly half our rural water systems are found inadaquate in some respect, there is need for ground water studies to guide in the development of future systems. (It has been noted by another authority that there is no "permanent lowering of the water table" as is commonly mentioned. This underground reservoir rises or falls with demand just as would any service basin.)

In parts of New Hampshire there is conflict between those who would have our reservoirs reserved for water supply and others who would have such water open to boating, fishing, and swimming. Swimming is permitted in only two reservoirs studied while boating and fishing in about a third. Again, additional study is recommended. (This writer, who lives on a lake providing water for drinking as well as all recreation with a history of no ill effects, concurs.)

Pollution Control

Most of New Hampshire's 16,000 miles of streams contain very clean water. Of major streams, only 11 miles are classified as grossly polluted with another 95 miles polluted almost as badly. An additional 458 miles of major streams are somewhat polluted seasonally. These streams could be cleaned by treatment, but there is the question whether it would be worth the cost.

Flood Control

Dams already built are preventing about 50 per cent of the average annual flood damage which would occur in New Hampshire without them. This work continues. The NENYIAC report points out that land treatment practices such as headwater damage control and control of erosion on cropland have little effect on controlling major floods.

Power Development

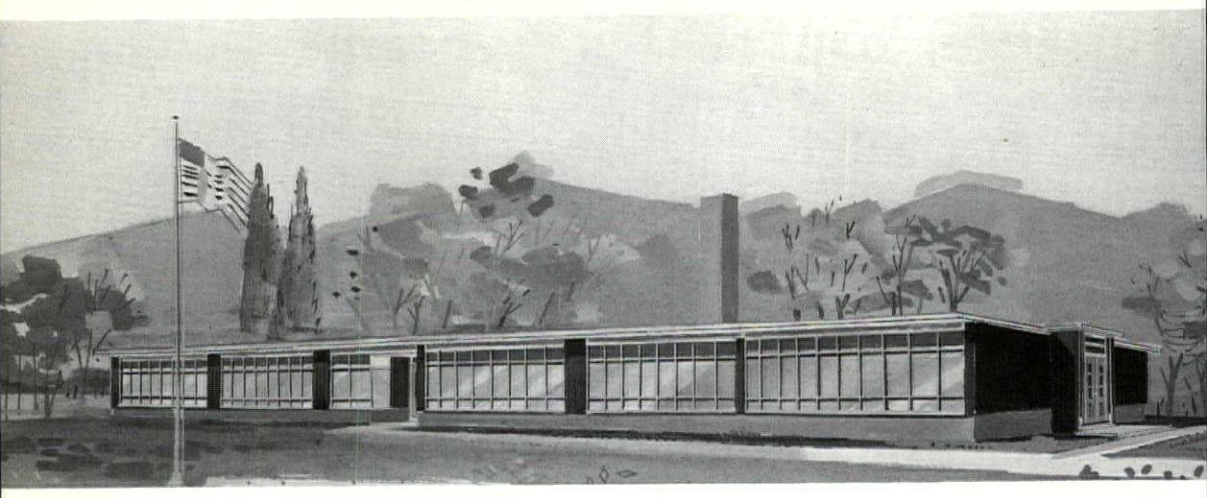
Although there are more than 230 power projects in New Hampshire, power development in general is not economically feasible without there being a substantial upward change in the value of fuel and power.

Fish and Wildlife

As in other states, conflicts between land owners and fishermen and hunters are growing. More owners are posting their land. Sportsmen-landowner relations might be improved by an intensive educational program. Second, the state might obtain leases for public access to important streams. Another recommendation is that the state acquire marshes as waterfowl refuges and public shooting areas, especially in the vicinity of the Great Bay and in the coastal area.

(Continued on Page 42)

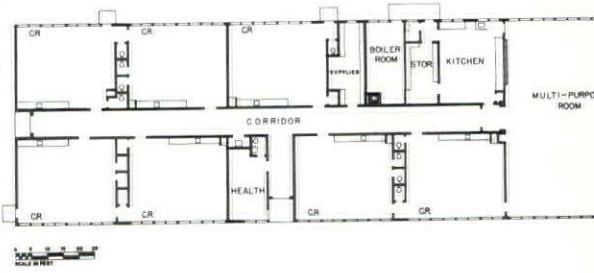
VERMONT SCHOOLS - by ALFRED T. GRANGER ASSOCIATES



FISHER ELEMENTARY SCHOOL - ARLINGTON, VERMONT

CONSTRUCTION:

EXTERIOR WALLS: Concrete footings and foundations; from top of foundation walls to under side of windows—concrete block; from underside of window sill to roof—wood stud boarding and vertical redwood sheathing. INTERIOR PARTITIONS: Concrete block, painted. INSULATION: All outside wood walls are insulated with 2" blanket insulation. ROOF: Tar and Gravel with galvanized iron drip edge and galvanized iron flashings. ROOF CONSTRUCTION: 4 x 14" Douglas Fir with Insulite panels exposed in Classrooms. CEILINGS: Corridor ceilings, furred and covered with 12" x 12" acoustical tile units. FLOORS: Reinforced concrete slab on grade with asphalt tile flooring. DOOR BUCKS AND TRIM: Metal. WINDOWS: Structural wood sash. HEATING: Forced hot water, room temperature controlled. VENTILATION: By electrically-controlled vent ducks. PLUMBING: Standard School sizes. ELECTRIC: Fluorescent and flush lighting; Romex wiring.



COSTS:

ITEM	*Cost*	*% of Total Cost*	*Cost Per. Sq. Ft.*	*Cost Per Cu. Ft*
STRUCTURE	$119,358.25	75.6	$ 9.88	$0.62
PLUMB., HEAT., VENT.	29,896.00	19.6	2.56	.16
ELECTRICAL	7,475.00	4.8	.65	.04
TOTAL COST OF BUILDING	$156,729.25	100.0	$13.09	$0.82

TOTAL VOLUME: 191,504 cu. ft.—FLOOR AREA: 11,969 sq. ft.—CONSTRUCTION CONTRACT AWARDED: December, 1956 — FLOOR HEIGTHS: 11'- 0" to 12'- 0" clear to underside of exposed Insulite plank.

General Contractor: William E. Dailey, Inc., North Bennington, Vermont.

ALFRED T. GRANGER ASSOCIATES

Architects and Engineers - Hanover, New Hampshir

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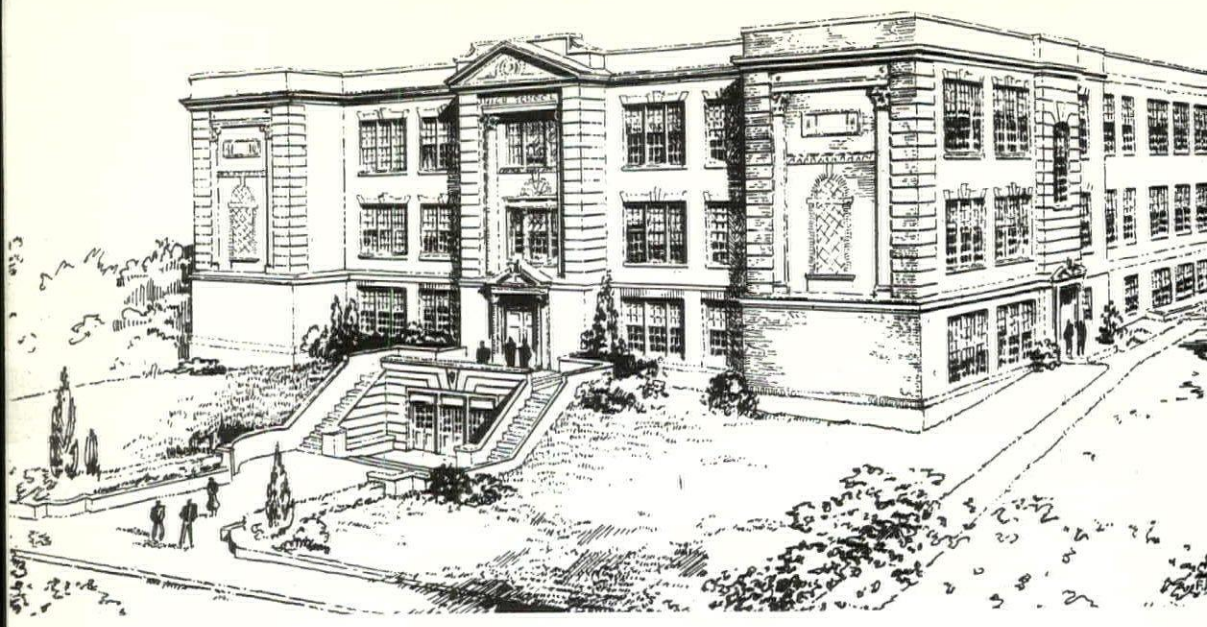
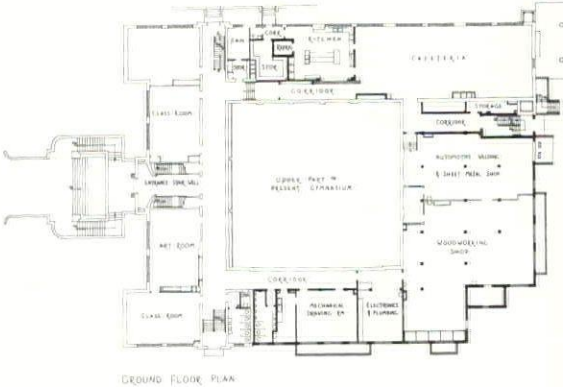


BELLOWS FALLS, VERMONT
ADDITION & ALTERATIONS TO HIGH SCHOOL

CONSTRUCTION:

EXTERIOR WALLS: Reinforced concrete and concrete block. INTERIOR WALLS: Concrete block painted, Vitritile dado in Corridor with plaster above. FRAMING: Basement Floor—concrete slab on grade; Ground Floor—Concrete joist framing; First Floor—concrete joist framing; Second Floor—structural steel with steel joists and longspans, concrete slab on steeltex; Roof—structural steel with steel joists and longspans, wood deck with insulation and 20 yr. bonded tar and gravel roof. CEILINGS: Acoustical tile in classroom portion, concrete joists painted in Shops and Locker Rooms. FLOORS: Asphalt tile on concrete and ceramic tile. WINDOWS: Architectural Projected steel sash. HEATING: Vacuum Type (steam). PLUMBING: Standard school size. ELECTRICAL FIXTURES: Incandescent and Fluorescent.



GROUND FLOOR PLAN

COSTS:

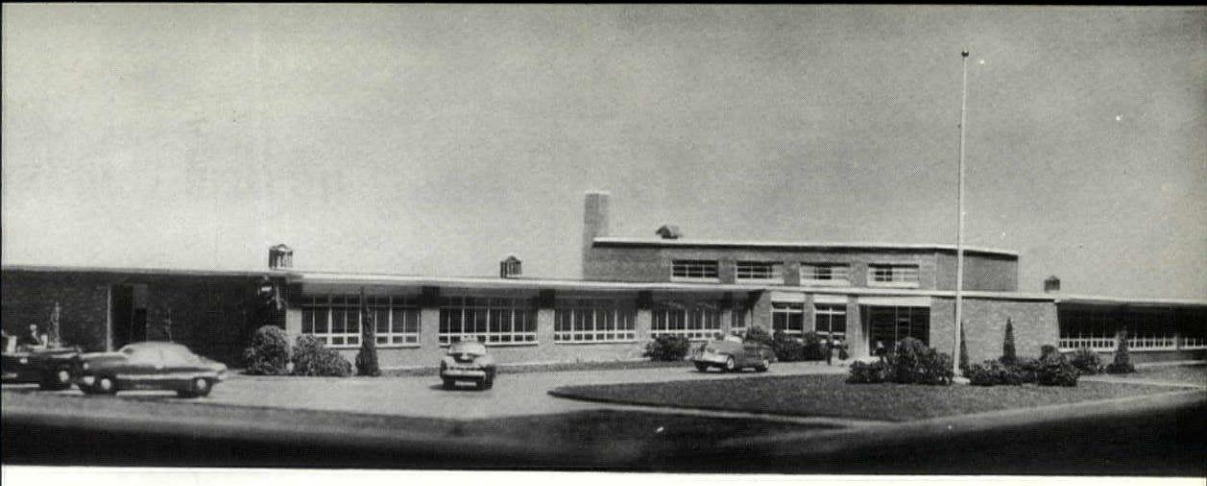
	Cost	*% of Total Cost*	*Cost Per Sq. Ft.*	*Cost Per Cu. Ft.*
STRUCTURE	$327,457.00	71	$8.50	$ .57
PLUMB., HEAT., VENT.	106,385.00	22	2.81	.18
ELECTRICAL	32,560.00	7	.88	.06
TOTAL COST OF BUILDING	$466,402.00	100	$12.19	$ .81

TOTAL VOLUME: 575,805 cu. ft.—FLOOR AREA: 36,620 sq. ft.—DATE OF BIDS: August, 1955—FLOOR HEIGHTS: Basement—10′-6″; Ground—13′-4″; First—13′-4″; Second—12′-0″.

SUPT. OF SCHOOLS: Dr. N. Richard Butler.
SCHOOL BOARD: William J. Berg, F. L. Osgood, John T. Fletcher, Jr.
GENERAL CONTRACTOR: The MacMillin Co., Inc., Keene, N. H.

ALFRED T. GRANGER ASSOCIATES

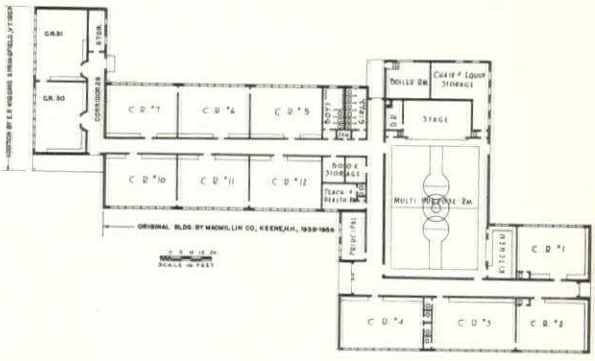
Architects and Engineers **Hanover, New Hampshir**



CHESTER, VERMONT ELEMENTARY SCHOOL AND ADDITION

ONSTRUCTION:

XTERIOR WALLS: Concrete block with rick facing. INTERIOR WALLS: Concrete lock painted, Vitritile dado on Corridor wall. EILINGS: Acoustical units, metal lath & plaster n Boiler Room. FLOOR: Reinforced concrete lab on grade with asphalt tile flooring. Ceramic ile flooring in toilets. ROOF: 20 yr. bonded tar nd gravel, 1" insulation, roof boarding on 2 x 4" wood rafters, for classroom portion. 20 yr. onded tar and gravel, 3" plank, 3" nailer support- d by steel longspans over Multi-Purpose Room. VINDOWS: Structural wood—classroom portion. teel sash—Multi-Purpose Room portion. HEAT- NG: Two pipe vented return (steam). PLUMB- NG: Standard Grade School size. ELECTRICAL IXTURES: Incandescent.



OSTS:

	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
TRUCTURE	$161,527.00	78	$7.94	$ .44
LUMB., HEAT., VENT.	41,900.00	19	2.07	.12
LECTRICAL	7,800.00	3	.38	.02
OTAL COST OF BUILDING	$211,227.00	100	$10.39	$ .58

TOTAL VOLUME: 364,184 cu. ft.—FLOOR AREA: 20,330 sq. ft.—DATE OF BIDS: June, 1955—FLOOR HEIGHTS: 10'- 8"—11'- 8"—Classroom portion; 19'- 6" to bottom of steel, Multi-Purpose Room.

SUPT. OF SCHOOLS: Charles Nason.
SCHOOL BOARD—Stanley Dorand, Chairman, Ronald Metzger, Ellsworth Benson, Alice Clark, Donald Monier.
GENERAL CONTRACTOR: The MacMillin Co., Inc., Keene, N. H.

-ROOM ADDITION — Date of Contract, May 23, 1957.

OSTS:

ITEM	Cost	% of Total Cost	Cost Per. Sq. Ft.	Cost Per Cu. Ft.
TRUCTURE	$26,537.35	78.5	$ 9.50	$0.628
LUMB., HEAT., VENT.	4,680.50	13.5	1.63	0.108
LECTRICAL	2,531.15	8.0	.97	0.064
OTAL COST OF 2 ROOMS	$33,749.00	100.0	$12.11	$0.80

OTAL VOLUME: 42,396 Cu. Ft.—FLOOR AREA: 2,785 Sq. Ft.

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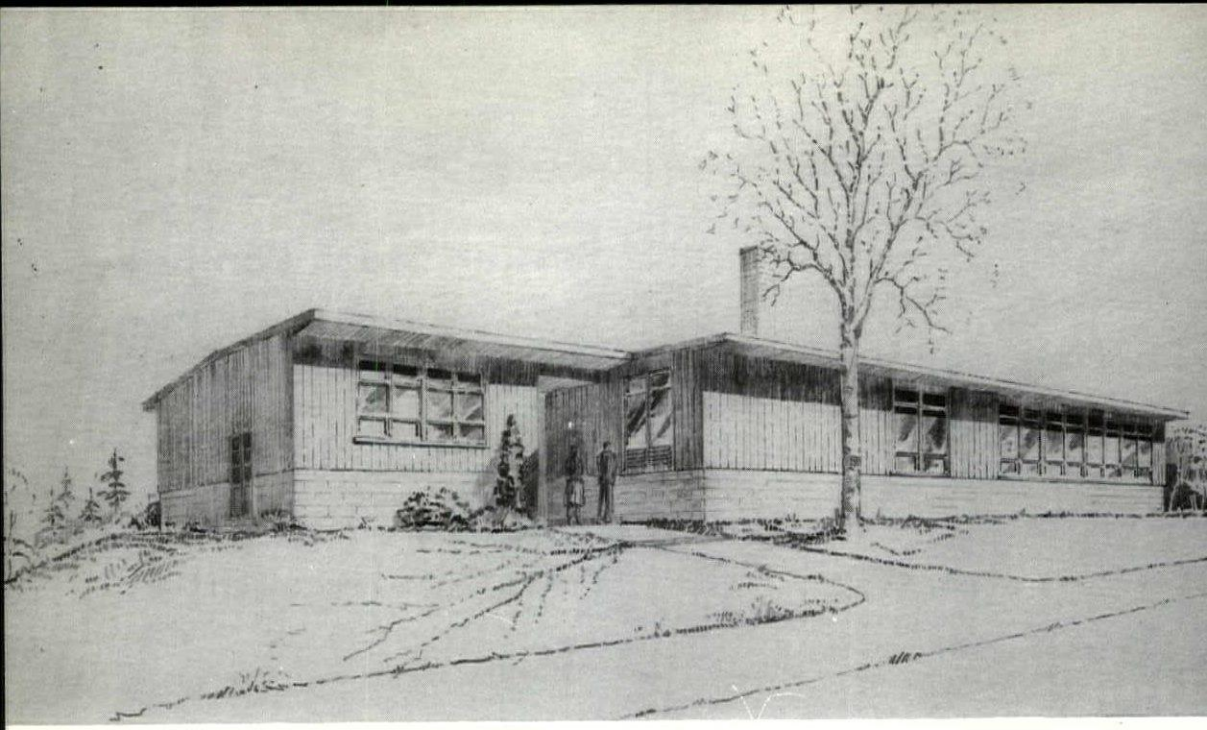
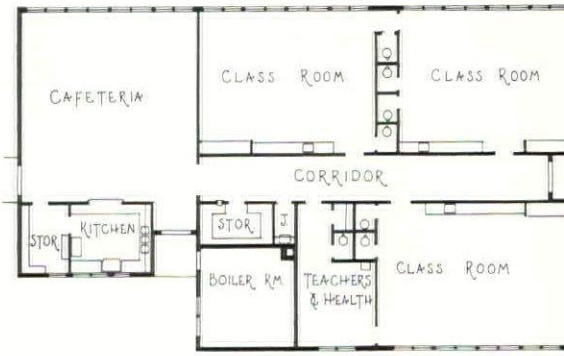


GREENSBORO, VERMONT
ELEMENTARY SCHOOL

CONSTRUCTION:

EXTERIOR WALLS: Concrete block to window sill height, wood studs covered with boarding and siding above. INTERIOR WALLS: Wood stud covered with horizontal pine sheathing, Masonite and Upson Board. Concrete block around Boiler Room. CEILINGS: Acoustical units, asbestos board in Boiler Room. ROOF: 20 yr. bonded tar and gravel, 1" roof insulation, roof boarding on 2 x 14" wood rafters. FLOORS: Reinforced concrete slab on grade with asphalt tile flooring. WINDOWS: Structural wood sash. HEATING: Low pressure steam heating system. PLUMBING: Standard Grade School size. ELECTRICAL FIXTURES: Incandescent.



FIRST FLOOR PLAN

COSTS:

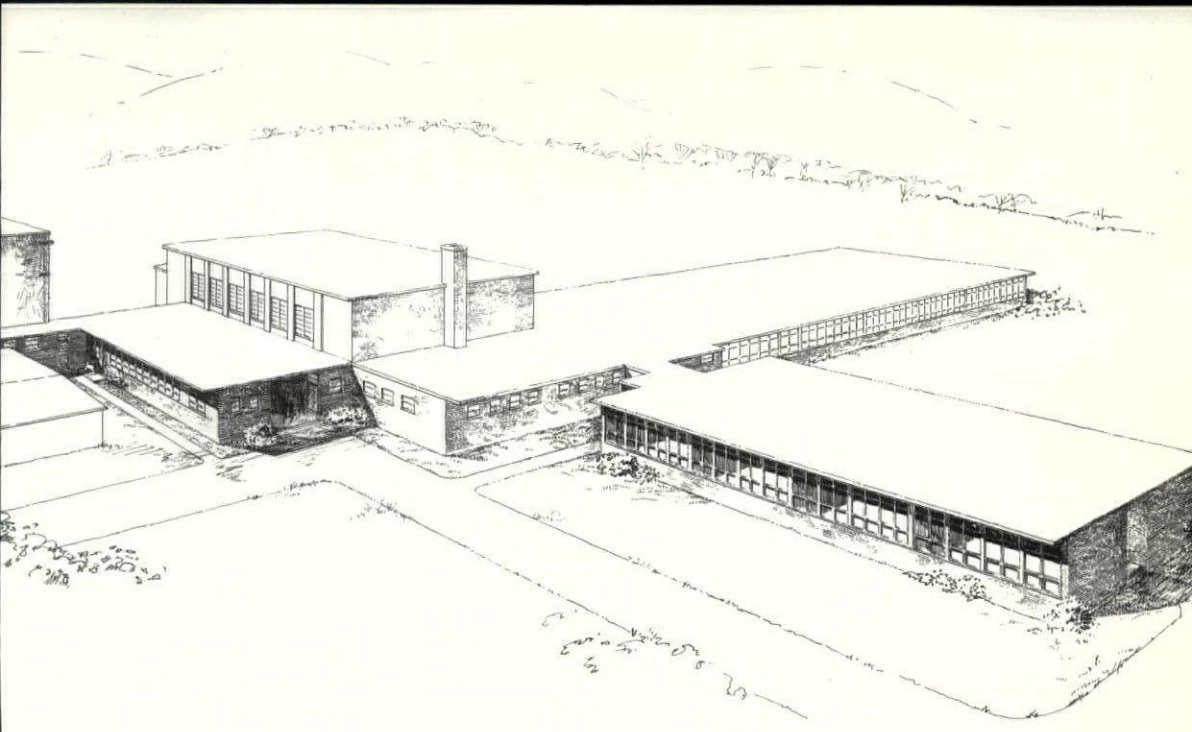
	Cost	*% of Total Cost*	*Cost Per Sq. Ft.*	*Cost Per Cu. Ft.*
STRUCTURE	$38,776.00	73.3	$6.80	$ .42
PLUMB., HEAT., VENT.	13,314.00	25.3	2.34	.15
ELECTRICAL	750.00	1.4	.13	.01
TOTAL COST OF BUILDING	$52,840.00	100.0	$9.27	$ .58

TOTAL VOLUME: 91,160 cu. ft.—FLOOR AREA: 5,698 sq. ft.—DATE OF BIDS: August, 1955—FLOOR HEIGHTS: 10'- 0" to 11'- 0".

SUPT. OF SCHOOLS: Joseph Mallard.
SCHOOL BOARD: Warner L. Davis, Harrison Wilson, Laura Drown.

ALFRED T. GRANGER ASSOCIATES

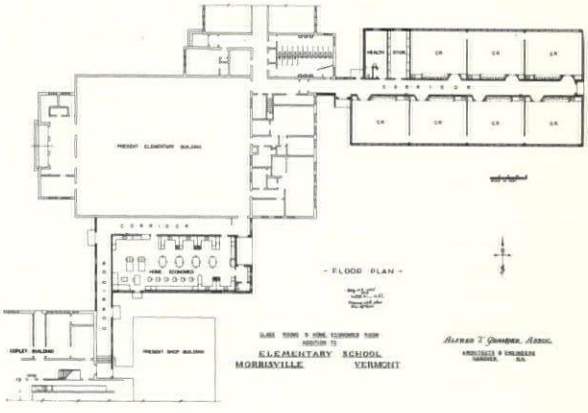
Architects and Engineers - Hanover, New Hampshire



7 CLASSROOMS and HOME ECONOMICS ADDITION
MORRISVILLE, VERMONT

ONSTRUCTION:

XTERIOR WALLS: Concrete Footings and oundations. Walls above grade, sand-struck rick backed up with concrete block. IN-ERIOR WALLS: Concrete block painted. EILINGS: 12" x 12" acoustical tile units. LOORS: Reinforced concrete slab on grade ith asphalt tile. ROOF: Tar and Gravel, copper rip edge. ROOF FRAMING: Douglas Fir oists, boarding and insulation. Longspan joists ver Home Economics portion. WINDOWS: tructural wood sash. HEATING: Two-pipe ented return (steam). VENTILATION: To eet State requirements: air conditioning units Classrooms and Home Economics; ventilation these rooms electrically controlled. PLUMB-NG: Standard. ELECTRIC: Incandescent fix-ures. WIRING: Romex.



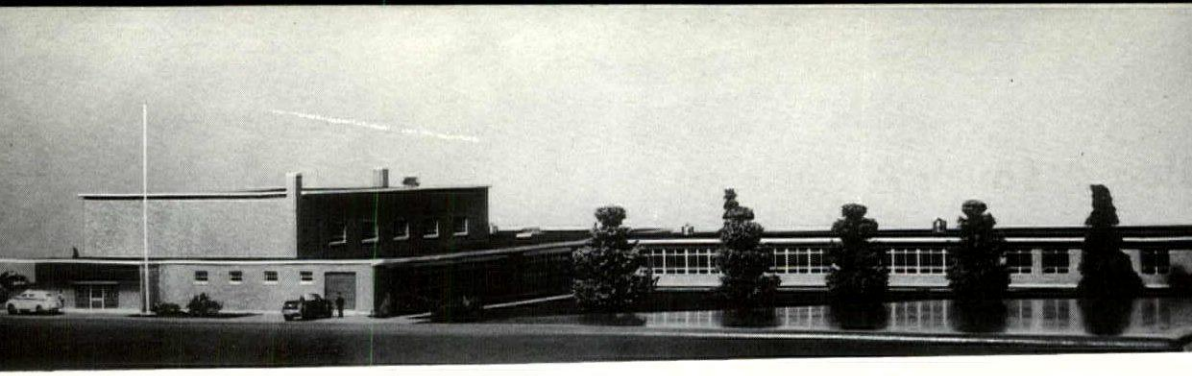
OSTS:

ITEM	*Cost*	*% of Total Cost*	*Cost Per. Sq. Ft.*	*Cost Per Cu. Ft.*
TRUCTURE	$110,904.00	64.8	$ 8.59	$ .53
LUMB., HEAT., VENT.	47,077.00	27.5	3.65	.225
LECTRICAL	13,188.00	7.7	1.02	.065
OTAL COST OF BUILDING	$171,169.00	100.0	$13.26	$0.820

TOTAL VOLUME: 206,328 cu. ft.—FLOOR AREA: 12,906 sq. ft.—BID OPENING DATE: June, 1957—FLOOR HEIGHTS: Classroom Portion: 10'- 6", Home Economics Room 10'- 6" to 12'- 0".

ALFRED T. GRANGER ASSOCIATES

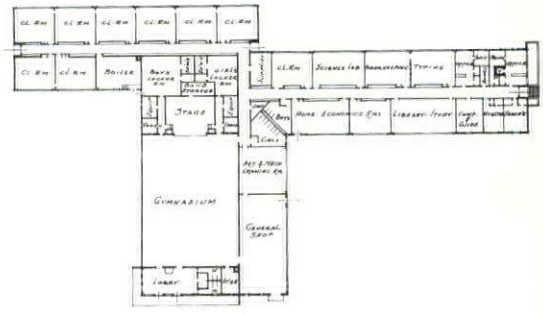
chitects and Engineers - Hanover, New Hampshire



NORTHFIELD, VERMONT
HIGH SCHOOL BUILDING

CONSTRUCTION:

EXTERIOR WALLS: Concrete block with brick facing. INTERIOR WALLS: Concrete block painted, glazed tile dado, corridor walls which are recessed for built-in steel lockers. CEILINGS: Acoustical units. ROOF: Douglas fir roof rafters, boarding with insulation and 20 yr. bonded tar and gravel roofing for school portion. Steel trusses, planking, insulation, tar and gravel for Gymnasium portion. FLOORS: Reinforced concrete slab on grade with asphalt tile flooring. Ceramic tile in toilets and vinyl tile in Gymnasium. WINDOWS: Structural wood units in classroom portion and steel sash in Gymnasium. HEATING: Vapor steam, Vulcan radiation. PLUMBING: Standard School size. ELECTRICAL FIXTURES: Fluorescent & Incandescent.



COSTS:

	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURE	$306,527.00	71.9	$7.15	$ .36
PLUMB., HEAT., VENT.	95,250.00	22.0	2.20	.12
ELECTRICAL	26,200.00	6.1	.60	.03
TOTAL COST OF BUILDING	$427,977.00	100.0	$9.95	$ .51

TOTAL VOLUME: 827,000 cu. ft.—FLOOR AREA: 43,000 sq. ft.—DATE OF BIDS: September, 1954—FLOOR HEIGHTS: 10'- 10" to 11'- 8" in classroom portion. 22'- 8½" to bottom of trusses in Gymnasium.

SUPT. OF SCHOOLS: Walter Gallagher.
SCHOOL BOARD: Eugene Nadon, Chairman, Kathleen McGlaflin, Howard Hanson, Robert Hayden, Clarence Tracy.
GENERAL CONTRACTOR: Wright & Morrissey, Inc., Burlington, Vt.

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CONSTRUCTION:

EXTERIOR WALLS: Concrete footings and foundations, Concrete block and stud walls above foundations, stud walls covered with California Redwood. INTERIOR WALLS: Concrete block, painted and stud walls at gable ends of School Portion sheathed with California Redwood. ROOF CONSTRUCTION: School Portion exposed 4 x 14 Douglas Fir with Insulite panels; Multi-Purpose Room, Tectum panels over long span joists. CEILINGS: Corridor ceilings, furred and covered with 12" x 12" acoustical tile units. FLOORS: Reinforced concrete slab on grade with asphalt tile flooring. ROOF: Tar and Gravel. WINDOWS: Structural wood sash; steel sash in Multi-Purpose Room. HEATING: Forced hot water, room temperature controlled. VENTILATION: To meet State requirements; air conditioning units in Classrooms; Multi-Purpose Room, Kitchen and Toilets, ventilated and electrically controlled. ELECTRIC: Incandescent and fluorescent and flush lighting. WIRING: Romex. PLUMBING: Standard School sizes.

COSTS:

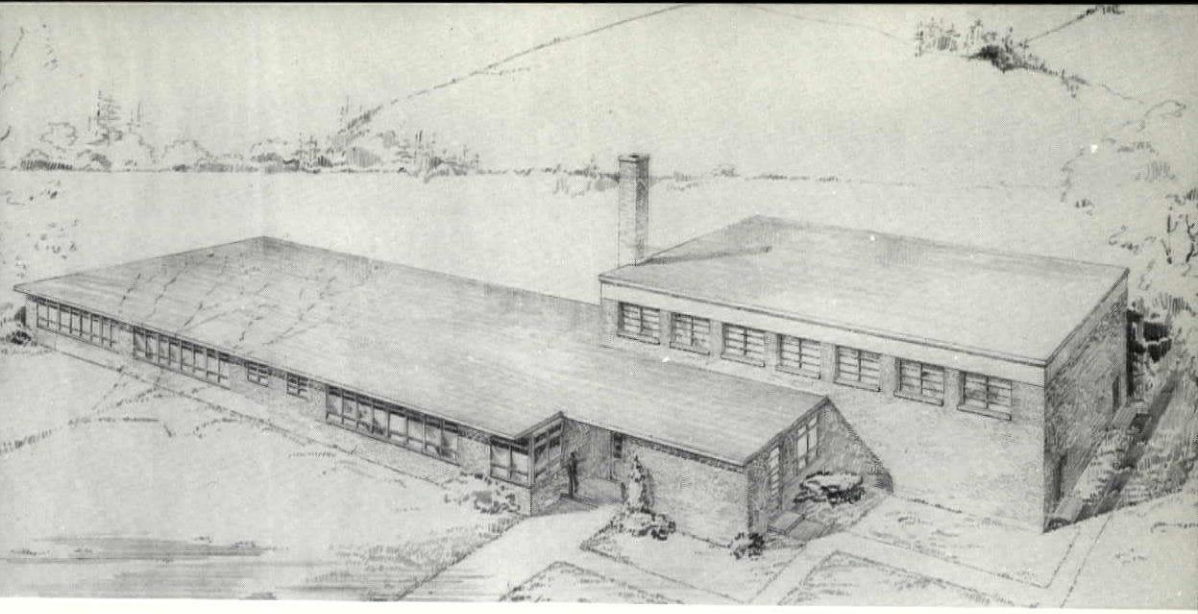
ITEM	*Cost*	*% of Total Cost*	*Cost Per Sq. Ft.*	*Cost Per Cu*
STRUCTURE	$ 97,136.00	66.1	$ 7.28	$ .43
PLUMB., HEAT., VENT.	36,827.00	25.1	2.76	.16
ELECTRICAL	12,869.00	8.8	.90	.05
TOTAL COST OF BUILDING	$146,832.00	100.0	$10.94	$0.64

TOTAL VOLUME: 228,170 cu. ft.—FLOOR AREA: 13,342 sq. ft.—BID OPENING DATE: June, 1957—FLOOR HEIGHTS: 10'- 0" to 10'- 6" in Classroom Portion, 16'- 0" to bottom of trusses in Multi-Purpose Room.

General Contractor: John N. Ojala, Mt. Holly, Vermont.

ALFRED T. GRANGER ASSOCIATES

Architects and Engineers - Hanover, New Hampshi



ROCHESTER, VERMONT
ELEMENTARY SCHOOL & GYMNASIUM

CONSTRUCTION:

EXTERIOR WALLS: Concrete block with brick facing. INTERIOR WALLS: Concrete block painted. CEILINGS: Acoustical units—Classroom portion, asbestos board—Boiler Room. ROOF: 20 yr. bonded tar and gravel roof, 1" insulation, roof boarding on 2 x 14" wood rafters—classroom portion. 20 yr. bonded tar and gravel, 3" planking, 3" nailer supported by steel longspan trusses —Gymnasium portion. FLOORS: Reinforced concrete slab on grade with asphalt tile flooring. WINDOWS: Structural wood sash—classroom portion. Steel sash—Gymnasium portion. HEATING: Two pipe vented return. PLUMBING: Standard Grade School size. ELECTRICAL FIXTURES: Fluorescent & Incandescent.

FIRST FLOOR PLAN

COSTS:

	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURE	$119,831.00	77.0	$8.04	$ .39
PLUMB., HEAT., VENT.	30,562.00	19.9	1.97	.10
ELECTRICAL	4,755.00	3.1	.30	.02
TOTAL COST OF BUILDING	$155,148.00	100.0	$10.31	$ .51

TOTAL VOLUME: 301,372 cu. ft.—FLOOR AREA: 15,044 sq. ft.—DATE OF BIDS: August, 1955—FLOOR HEIGHTS: 10'- 9"—11'- 8"—Classroom portion. 21'- 1"—Gymnasium portion.

SUPT. OF SCHOOLS: Wallace Martin.
SCHOOL BOARD: Donald E. Harvey, Ethel Kingsbury, Leslie Pierce, Jr.
GENERAL CONTRACTOR: Hall Bros., Inc., Randolph, Vermont.

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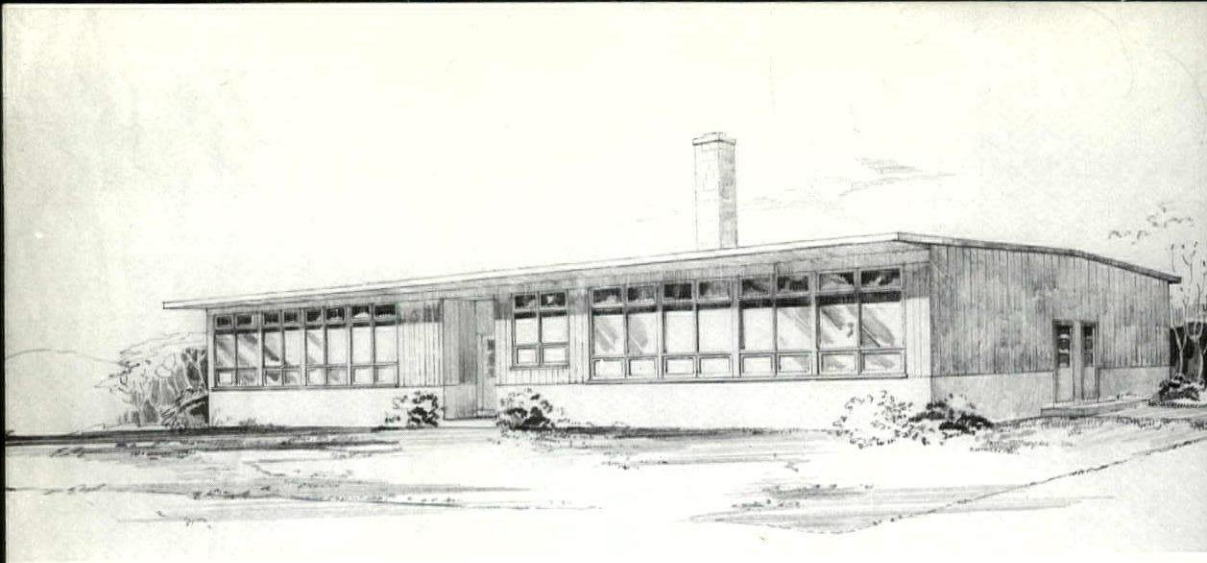

STOCKBRIDGE, VERMONT
ELEMENTARY SCHOOL

CONSTRUCTION:

EXTERIOR WALLS: Concrete block to window sill height, wood studs covered with boarding and siding above. INTERIOR WALLS: Wood stud covered with horizontal sheathing, Upson Board & Masonite. Concrete block around Boiler Room. CEILINGS: Acoustical units. FLOORS: Reinforced concrete slab on grade with asphalt tile flooring. ROOF: 20 yr. bonded tar and gravel roofing, 1" Celotex insulation, roof boarding on 2 x 14" Douglas fir roof rafters. WINDOWS: Structural wood sash. HEATING: One pipe forced hot water system. PLUMBING: Standard School sizes. ELECTRICAL FIXTURES: Incandescent.

FLOOR PLAN

COSTS:

	Cost	% of Total Cost	Cost Per Sq. Ft.	Cost Per Cu. Ft.
STRUCTURE	$33,555.00	77	$6.98	$ .43
PLUMB., HEAT., VENT.	8,720.00	19	1.81	.10
ELECTRICAL	1,612.00	4	.33	.02
TOTAL COST OF BUILDING	$43,887.00	100	$9.12	$ .55

TOTAL VOLUME: 79,500 cu. ft.—FLOOR AREA: 4,804 sq. ft.—DATE OF BIDS: June, 1955—FLOOR HEIGHTS: 10'- 0"—11'- 0".

SUPT. OF SCHOOLS: Wallace Martin.
SCHOOL BOARD: Theodore Green, Chairman, Ray Simpson.
GENERAL CONTRACTOR: Thomas Oakes Construction Co., Shelburne, Vt.

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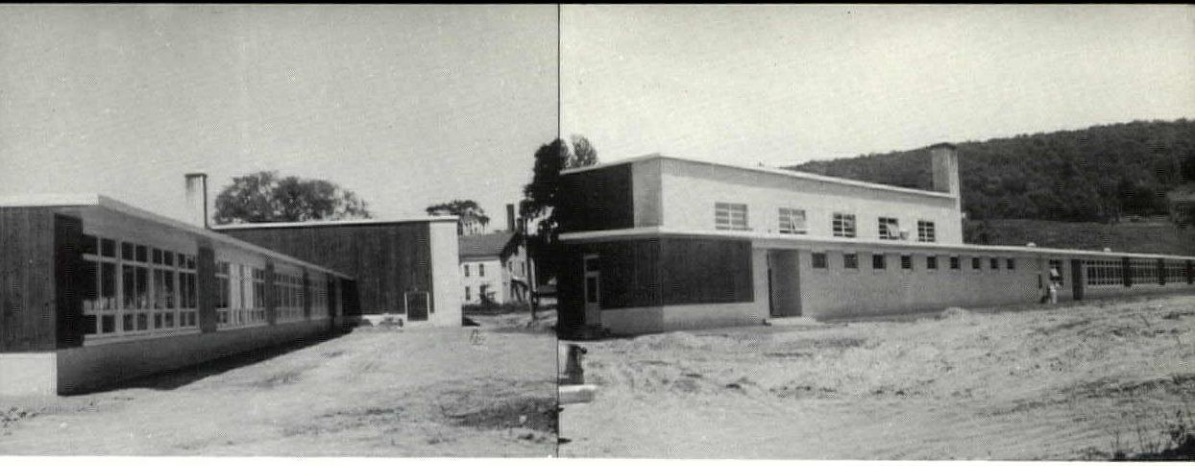
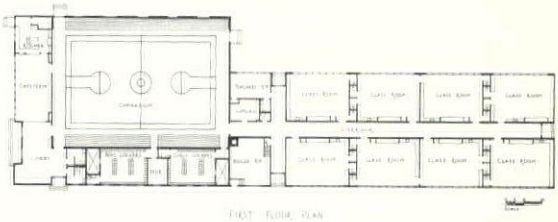
Architects and Engineers - Hanover, New Hampshir



STOWE, VERMONT
GRADE SCHOOL & GYMNASIUM

CONSTRUCTION:

EXTERIOR WALLS: Concrete block & stud walls with vertical flush boarding. INTERIOR WALLS: Concrete block painted and stud walls with horizontal pine sheathing. CEILINGS: Acoustical units, excepting Gymnasium. FLOORS: Reinforced concrete slab on grade with asphalt tile flooring. ROOF: Douglas fir roof rafters, boarding with insulation and 20 yr. bonded tar and gravel for classroom portion. Longspans, planking, insulation, tar and gravel for Gymnasium. WINDOWS: Structural wood sash—Classroom portion. Steel sash—Gymnasium. HEATING: Low pressure type (steam radiation). PLUMBING: Standard Grade School size. ELECTRICAL FIXTURES: Incandescent.



COSTS:

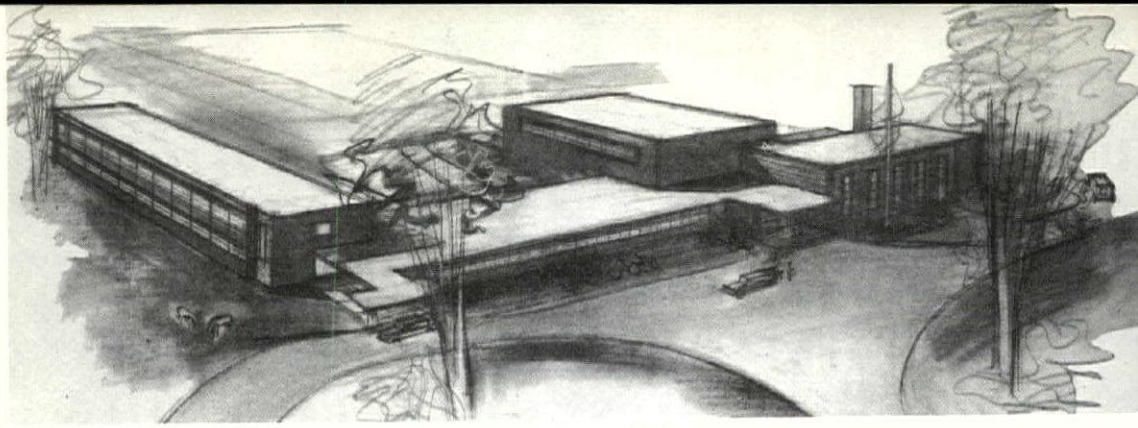
	Cost	*% of Total Cost*	*Cost Per Sq. Ft.*	*Cost Per Cu. Ft.*
STRUCTURE	$152,637.00	77.3	$6.93	$ .34
PLUMB., HEAT., VENT.	36,739.00	18.6	1.66	.08
ELECTRICAL	8,183.00	4.1	.31	.01
TOTAL COST OF BUILDING	$197,559.00	100.0	$8.90	$ .43

TOTAL VOLUME: 458,180 cu. ft.—FLOOR AREA: 22,104 sq. ft.—DATE OF BIDS: August, 1953—FLOOR HEIGHTS: 10′- 0″ to 11′- 2″ Classroom portion. 22′- 8″—Gymnasium portion.

SUPT. OF SCHOOLS: Charles P. Boright.
SCHOOL BOARD: Carroll Pike, Dr. David Bryan, Wayne Faunce.
GENERAL CONTRACTOR: Charles J. Fiske, Woodstock, Vt.

ALFRED T. GRANGER ASSOCIATES

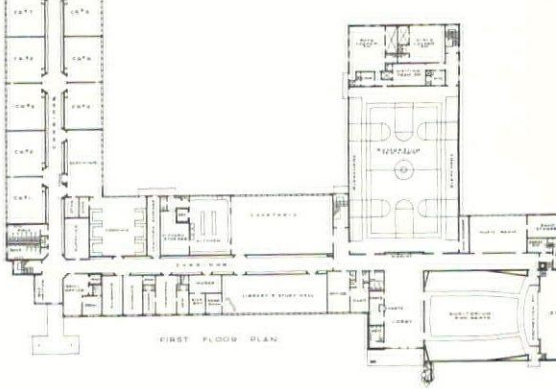
Architects and Engineers - Hanover, New Hampshire



UNION HIGH SCHOOL - VERGENNES, VERMONT

CONSTRUCTION MATERIALS

FOOTINGS AND FOUNDATIONS: Concrete. OUTSIDE WALLS: Sandstruck brick and concrete block. Portions of outside walls will have slate and stone. SPANDRELS BETWEEN FLOORS: Second-story portion to be colored structural panels. WINDOWS: Wood structural, sash tipping in and out. FLOOR CONSTRUCTON: Main portion of building—reinforced concrete slab on earth. 2-story building and portion under Gymnasium—structural steel, open truss joists, Steeltex and concrete. ROOF CONSTRUCTION: Open truss joists, longspan joists, gypsum plank, insulation and tar and gravel, 20 year bonded. FLASHINGS: 16 oz. copper. INTERIOR PARTITIONS: Concrete block painted. CORRIDOR PARTITIONS: Vitritile at height of built-in lockers. FLOORING: Plastic tile. SHOWERS AND TOILET FLOORS: Ceramic Tile. BASKETBALL COURT FLOOR: Maple flooring—screeds and ventilated base. AGRICULTURAL ROOM FLOORS: Cement. CLASS ROOM FLOORS IN BASEMENT: Asphalt tile. STAGE FLOOR: Hardwood 5′ from footlight trough and fir Remainder. DOOR BUCKS: Metal trim and door buck combinations. CEILINGS: Acoustical tile in all rooms but Kitchen which will be plastered; ceiling of Industrial Arts to be isolated and acoustically treated. DOORS: Wood slab. GLAZING: Exterior windows—3/16″ sheet glass; obscure glass f toilets and locker rooms; double-strength gla for interior doors. HEATING: Vapor stea room temperature controlled and portions zone VENTILATION: To meet State requirement air conditioning units in certain rooms; classrooms, gymnasium, auditorium, cafeter toilets ventilated and electrically controlle ELECTRIC: Incandescent and fluorescent a flush lighting. WIRING: Romex: PLUMBIN Standard.



COSTS:

ITEM	*Cost*	*% of Total Cost*	*Cost Per. Sq. Ft.*	*Cost Per Cu.*
STRUCTURE	$ 692,546.00	69.1	$ 8.499	$0.49
PLUMB., HEAT., VENT.	219,000.00	21.5	2.545	.15
ELECTRICAL	91,750.00	9.4	1.256	.07
TOTAL COST OF BUILDING	$1,003,296.00	100.0	$12.300	$0.71
Grading, Drives, Walks and Parking Area	55,956.00			
Total Cost of Building and Grounds	$1,059,252.00			

TOTAL VOLUME: 1,425,638 cu. ft.—FLOOR AREA: 81,114 sq. ft.—DATE OF BIDS: October 25, 1957—FLOOR HEIGHTS: 11′- 0″ floor to floor. 23′- 0″ to bottom of trusses in Gymnasium.

SUPT. OF SCHOOLS: Lloyd W. Moulton.
DIRECTORS, UNION HIGH SCHOOL DISTRICT #5, VERGENNES, VERMONT: Chairman, Clifford M. Harris; Vice-Chairman, Mrs. A. Gatow; Secretary, Mrs. William Burpee; Mrs. Robert Beach, Allen Tucker, Mrs. A. P. Clark, Feno Truax.
GENERAL CONTRACTOR: Swanburg Construction Corp., Manchester, N. H.

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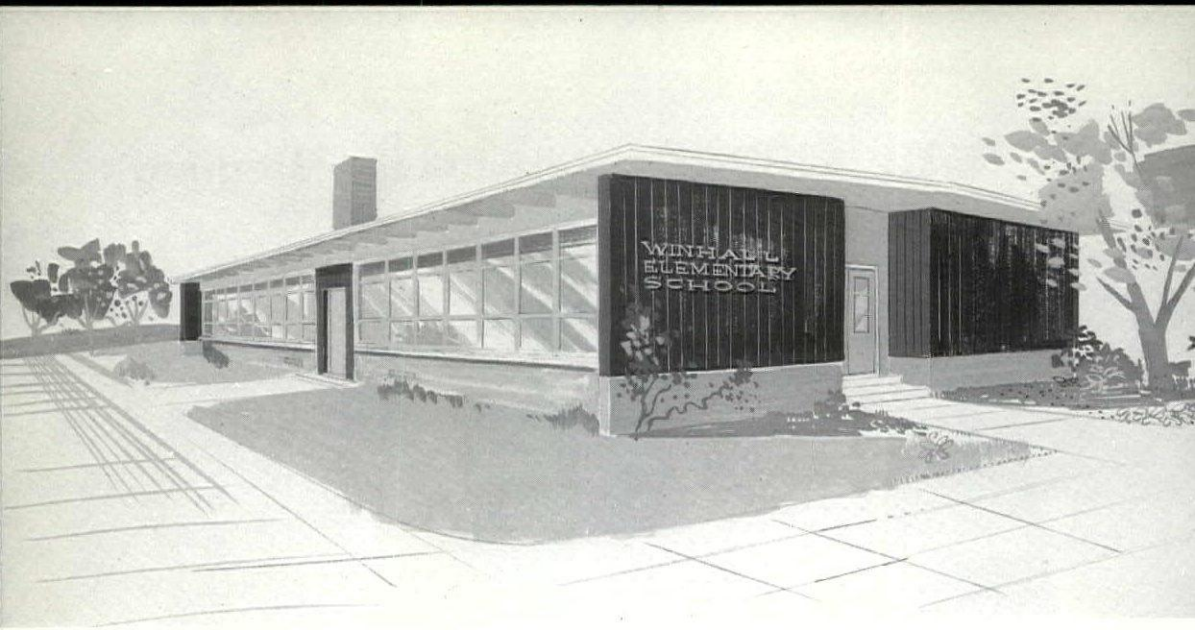
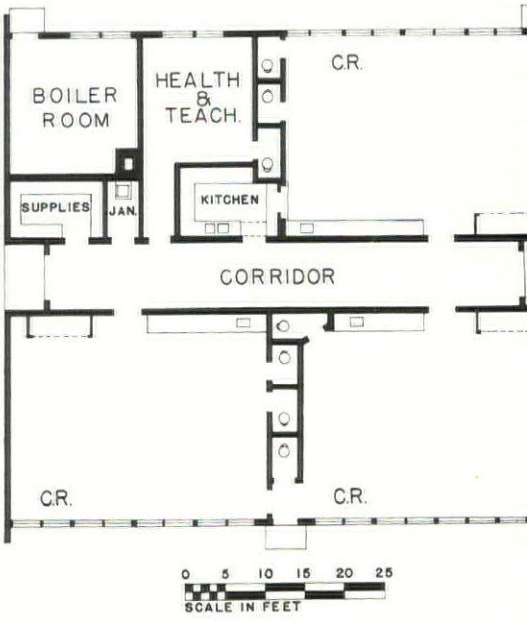


ELEMENTARY SCHOOL - WINHALL, VERMONT

CONSTRUCTION:

EXTERIOR WALLS: Concrete footings and foundations; from top of foundation walls to under side of windows—concrete block; from underside of window sill to roof—wood stud boarding and vertical redwood sheathing. INTERIOR PARTITIONS: Concrete block, painted. INSULATION: All outside wood walls are insulated with 2" blanket insulation. ROOF: Tar and Gravel with galvanized iron drip edge and galvanized iron flashings. ROOF CONSTRUCTION 4 x 14" Douglas Fir with Insulite panels exposed in Classrooms. CEILINGS: Corridor ceilings, furred and covered with 12" x 12" acoustical tile units. FLOORS: Reinforced concrete slab on grade with asphalt tile flooring. DOOR BUCKS AND TRIM: Metal. WINDOWS: Structural wood sash. HEATING: Forced hot water, room temperature controlled. VENTILATING: Air conditioning units in Classrooms meeting State Requirements. Ventilating of Classrooms, etc., by electrically-controlled vent ducts. PLUMBING: Standard School sizes. ELECTRIC: Fluorescent and flush lighting; Romex wiring.



COSTS:

ITEM	*Cost*	*% of Total Cost*	*Cost Per Sq. Ft.*	*Cost Per Cu*
STRUCTURE	$37,475.00	72.7	$ 8.91	$0.5
PLUMB., HEAT., VENT.	11,490.00	22.4	2.74	.1
ELECTRICAL	2,550.00	4.9	.61	.0
TOTAL COST OF BUILDING	$51,515.00	100.0	$12.26	$0.7

TOTAL VOLUME: 71,680 cu. ft.—FLOOR AREA: 4,200 sq. ft.—BID OPENING DATE: September 4, 1957—FLOOR HEIGHTS: 11'-0" to 12'-0" clear to underside of exposed Insulite plank.

General Contractors: Davis-Schwartz Construction Corp., Springfield, Vermont.

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Chapter Affairs, Membership, Centen-l, Observance, Education, Office Practice, Awards and Scholarship:

Norman P. Randlett, Chairman, Eugene Magenau, Maurice E. Witmer, Eric T. Liddleston, Edgar H. Hunter, Charles H. Ray.

PUBLIC RELATIONS

Public Relations, Government Relations, AIA. Architect, Home Building and Con-truction Industries, Collaboration with Design Professions:

Richard Koehler, Chairman, Alexander Majeski, Shepard Vogelgesang, Alex-ander R. James, Carl E. Peterson.

COMMUNITY DEVELOPMENT

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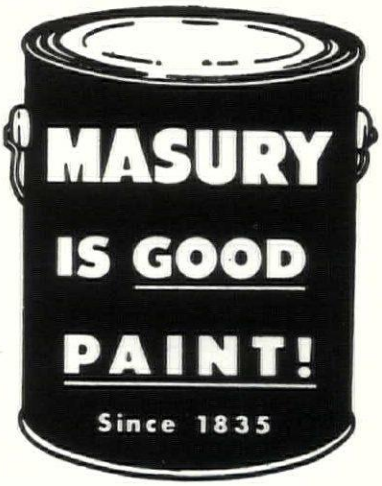

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MANCHESTER, N. H.

(Continued from Page 19)

The state is commended for its access roads to remote hunting areas which it has opened and for agreements with large landowners under which a state biologist supervises cutting to preserve critical winter deer yards.

There is a better chance of salmon restoration on the small streams than on the larger ones. Here certain dams could be eliminated and others by-passed with fish ladders. Among those suggested are the Lamprey and Exeter Rivers in the Piscataqua Basin. However, hand in hand with this is pollution control where in the Piscataqua Basin clams have almost disappeared because of pollution.

While certain flood control dams, such as the Hopkinton-Everett now in the planning stage, could increase the wildlife population under proper state supervision, other dams such as contemplated for the Androscoggin River would destroy wildlife values. It becomes evident that questions bearing on flood control, wildlife preservation, recreation, and many other benefits must be considered together in the evaluation of any project.

Recreational Resources

New Hampshire's resources are many and varied but largely under developed. (A related value is our scenery fully developed, but blighted by the roadside sign. As the "scenic" state we owe some control over this to the invited tourist if not to ourselves.)

The NENYIAC report makes specific recommendations for land acquisition and development in the Androscoggin, Connecticut, Piscataqua, Merrimack, and Saco River Basins. Such development includes more roadside recreation, picnic, and rest areas; camping grounds, canoe rou with camping sites along the way, ba ing and craft docking facilities, and preservation of certain historic sites.

Land Management and Forestry

84 per cent of New Hampshire land covered by forests; only Maine has greater percentage. From these fore one out of five workers in the st benefit. While net growth of all wo exceeds the timber cut, our softwood s timber is being depleted at a 20 per c rate, one which cannot be sustain There must be found increased use for hardwoods overtaking other grow Along with this the small owners v hold 70 per cent of our forest land m intensify their forest management p tices.

The pattern in all parts of New Ha shire is for less crop and hay land; m woodland, permanent pasture, and l for urban and industrial use. Agricultu production will be intensified on sma acreages.

Mineral Resources

Few of the numerous minerals in N Hampshire are of present commer importance. Uranium, incidentally, is mentioned. The report calls for m studies and surveys with emphasis materials for lightweight aggregates, pegmatite minerals, and industrial cl and sands.

Copies of the full NENYIAC report be found at the New Hampshire S Library; the Water Resources Board the State Office Building; and librarie the University of New Hampshire Dartmouth College.

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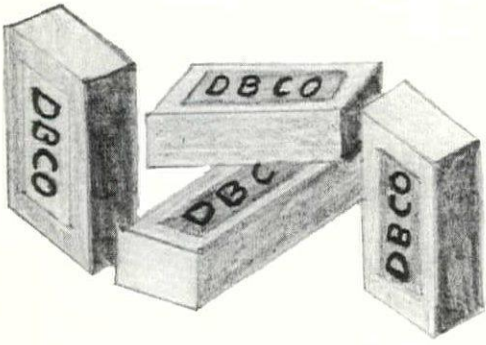

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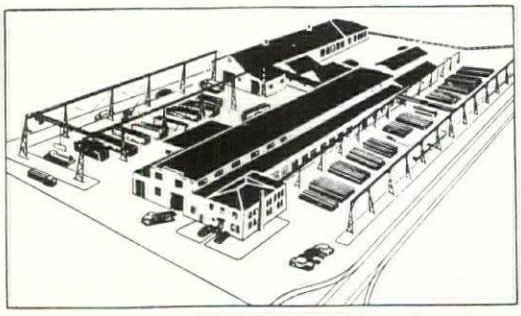

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