ANNUAL SCHOOL ISSUE
November, 1958
24 SCHOOLS
in
New Hampshire's
School Building Program

OFFICIAL PUBLICATION
New Hampshire Chapter of the American Institute of Architects

NOVEMBER
1958

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New Hampshire Architect

IN THIS ISSUE

New Hampshire Architect this month presents its fifth annual School Issue. Included in the list of schools designed by members of New Hampshire Chapter, A. I. A., are high schools, elementary schools and dormitories.

Since the first School Issue was published in 1954, nearly 100 schools in New Hampshire have been designed by architects of this state, and have been published in New Hampshire Architect, during the past four years.

The State Board of Education has taken an active interest in the publication of these schools each year. Paul E. Farnum, acting commissioner of education and Erik Anderson of the education department have both contributed to the success of this issue.

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.
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A. I. A.
The increasing population which has made our school plants bulge at the seams and the cost of building, compounded in some cases by the rapid obsolescence of older facilities, has brought an acute problem to our communities. School boards, educators and taxpayers, keenly interested in the quality of education and faced with housing an increasing number of school children are deeply concerned in getting the most mileage out of the school dollar.

New Hampshire’s architects and educators are acutely aware of this problem and what you see illustrated in this school issue of the New Hampshire Architect is a fair sampling of how this problem is being met. These examples, while not purporting to be complete answers, do show a rigid regard for economy. A glance at the costs should assure the taxpayer and the school board that they are getting full value for their dollar and that economy has been achieved without cheating the child. There are no frills here, yet here and there you do see architectural character which has been managed despite low cost — given time and a little more ingenuity we will achieve better buildings and perhaps, even great buildings.

These schools as well as others built throughout the State are not accidental, they are the result of a great deal of sweat on the part of the architects, the school superintendents and the school boards as well. These people do not seek applause or a pat on the back. They consider this as part of their job and are content to let the buildings speak for themselves.

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The expanded enrollments during the last decade have placed school construction in the limelight of activities in most every community in New Hampshire. In recognizing the pressing construction problems the State Department of Education has actively devoted much time to study of the matter.

To build enough of the right kind of school and be able to pay for it seem to be the crux of the problem for every community. All too often special "pet" desires by special interest elements result in sacrifices in sorely needed facilities within a school building program.

As a result, the State Department of Education has recognized the need to take a long look at educational plans and single out deficiencies which appear in proposed architectural plans. The deficiency is by no means created by the architect, but primarily because local leadership did not place "firsts" where "firsts" should appear. In singling out inadequate items within proposed architectural plans it has been the hope that local school authorities would remedy the circumstances.

Basically the department staff examines school projects on a three point basis. First it considers the educational plan for the school. Second, it reviews the proposed architectural plan, and third it analyzes the financial plan. The three points simply raise two questions, namely

1. Does the architectural plan provide the space and facilities needed to operate the program proposed by the educational plan?
2. Is the architectural plan within the financial means of the community?

Once the three points are known and the two basic questions answered in the affirmative, the school construction problem is resolved. As a matter of practice the education department at this point acknowledges this by expressing approval of the architect's plans.

In reviewing plans developed by the architect, the education people are cautious to look for facilities that appear inadequate for the proposed school program. They, too, are on the alert to "spot" facilities which may have been omitted. The problem is usually resolved
when the inadequate or omitted facilities is included in other future expansion plans.

It is not the perspective of those reviewing architectural plans to discourage any proposed facilities that extend beyond recommended minimums provided all other educational needs are met. However, when excessive building is proposed for some educational areas at the sacrifice of other school needs, then in the interest of a well balanced program the local officials are requested to review the entire educational and architectural program. Most usually the local school authorities are quick to see clearly the issue and set out to remedy the matter.

In studying educational plans for schools the following is used as a guide by department reviewers.

1. Academic space. In elementary schools this is usually gauged by the number of classes by grades that need to be housed. In high school it is necessary to know the subjects to be taught and the number of students within each subject along with other basic information about the proposed operational schedule. Most usually the subjects taught in a regular or so termed “interchangeable” classroom are: English, social studies, mathematics, foreign language, and any other subject that would not require special or fixed equipment for the instruction of the course.

2. Special classroom space. In elementary schools this type space would usually be limited to 7th and 8th grade shops and home economics areas. In high schools it would usually include space for chemistry, physics, biology, general science, industrial arts, business education, home economics, agricultural education, physical education and any other subject that would require for instructional purposes special equipment to be installed or located in a classroom.

3. Other facilities. In both elementary and high schools this type space would include allocation of space for library, toilets, cafeteria, storage, auditorium, administration office, health, guidance, maintenance, teachers’ room, etc.

All too frequently the people reviewing plans in the State Department of Education find that educational plans for school are either lacking altogether or only partially developed. As a result it is most difficult to analyze or review architectural plans when a complete picture of the intents of the local school officials is unknown. Furthermore it must present an equally if not more complex problem to the architect who must plan the building project within some semblance of school objectives. Therefore if both educators and architects are experiencing similar difficulties it might be wise singularly or jointly explore how school construction planning might better be approached.

From an educator’s point, it would seem well to know the needs of a school by the sequence of what is most needed and important. This would give some style or a “yardstick” to measure school needs and thereby permit the proper emphasis to be placed where it is most logical needed and in the over-all building program. Some of the advantages that could result are:

1. Realistic de-emphasis on over-building in certain areas before all urgent school needs are met.

2. Better milage for the tax dollar for communities faced with school construction.

3. More responsibility will be placed on the local school authorities to develop immediate as well as long range educational plans. This might easily result in communities requiring planned periodic building programs to meet the demands for expanding enrollments as well as hold within community financial limitations.
4. To spell out more clearly what the architect needs to provide in planning of the school construction project.
5. To justify to the public what is needed in their schools and how they may achieve it through a sound architectural and educational plan.

There are many other advantages than the few listed above. However the real purpose is to develop a system of sound planning so that all parties concerned will know in which direction to move forward.

If projected enrollments are a barometer to future school expansion, then the outlook points to a long-range program of school construction. To improve a system of planning may well prove profitable to all.

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<td>Putlogs — Ledger Clamps</td>
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<td>Plasterers’ Jacks</td>
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FALL MEETING SCHEDULED FOR LACONIA, NOVEMBER 20

The Laconia Tavern has been selected for the annual Fall meeting of New Hampshire Chapter, A. I. A., Norman P. Randlett, chairman of the committee on arrangements has announced. The date is Thursday, November 20.

Chairman Randlett said that dinner will be served at 6:30, followed by the business meeting. Prior to the dinner, the officers and directors meet, starting at 4:30 P. M.

**ARCHITECT EXPANDS KEENE OFFICE**

After practicing architecture in Keene for the past six years, Alexander R. James, A. I. A., reports joining with Arthur M. Doyle, Architect, and the change of firm name to A. R. James and A. M. Doyle.

Both men graduated from Yale University with Bachelor of Architecture degrees (1947, 1948). James, a native of New Hampshire, worked for architects in San Francisco and Boston for a number of years before returning to Keene to open his own office in 1953. He has specialized in contemporary residential architecture.

Doyle, a native of Springfield, Massachusetts, joins the firm after architectural experience in public housing, commercial industrial and school buildings. For three years prior to coming to Keene he was staff architect at the New York Stock Exchange.

The firm remains at the same address, 40 Mechanic Street, but has taken additional office space.
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<tr>
<td>#5 Blend</td>
<td>coals for underfeed, spreader, or chain grate stokers and</td>
</tr>
<tr>
<td>#6 Bunker &quot;C&quot; (Residual)</td>
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DESCRIPTION:
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The building besides the seven classrooms contains an all-purpose room with a stage and kitchen. This room will also serve the surrounding neighborhood for grown-up affairs.

CONSTRUCTION:
Footings and Foundation Walls—Reinforced concrete; Structural Roof Frame—Rolled steel shapes and trusses; Roof Deck—Tectum plank on steel bulb tees; Roofing—20-year built-up pitch and gravel; Flashings—Fabric base, aluminum and copper caps; Exterior Walls—Solid masonry bearing walls of 4" brick veneer and 8" concrete mono-header block; Interior Walls—Concrete block, some factory glazed; Floors—Asphalt and vinyl tile on concrete slabs poured on compacted gravel fill; Ceilings—Exposed roof planx, some acoustical tile; Doors—Flush wood solid core; Door Frames—Pressed steel or wood; Windows—Aluminum, some glass block, Toplite skylights; Heating—two-pipe low pressure steam system, unit heaters and fin radiation, new boiler in existing building; Ventilation—Exhaust-air system through roofs; Plumbing—Copper water piping, cast iron and galvanized iron or steel for soil, waste and vent piping, vitreous china fixtures; Electrical—Complete new system with distribution in EMT or galvanized steel, new entrance and panels in existing building, fluorescent and incandescent fixtures, alarm and program systems; Exterior Work—Includes grading, loaming and seeding, bituminous concrete walks, driveway and service yard, chain-link fencing.

CONTRACT PRICE: $174,361.00—COST PER SQ. FT.: $12.50.
Consultants: Francis L. Gallagher Associates—Plumbing & Heating
Albert Stock—Electrical
J. U. Wiesendanger—Structural

Koehler and Isaak, A.I.A., Architects, - Manchester, N. H.
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Elementary School Addition
Additions and Alterations to Colebrook Academy, Colebrook

DESCRIPTION:
Reinforced Concrete Foundations, Reinforced Dampproofed Concrete Floor Slabs, Structural Steel Frame, Precast Concrete Insulating Roof Decking, Twenty Year Bonded Roof. Lead Coated Copper Flashings, Aluminum Sash, Brick Facing with Cinder Tile Backing, Cinder Tile Interior Partitions, Acoustical Tile Ceilings, Asphalt Tile Finished Floors, Ceramic Tile Toilet Room Floors, Steel Interior Door Frames, Fifty-Seven (57) Plumbing Fixtures. Modern Electrical, New Boiler for Existing System and New Hot Water Heating System, Forced Ventilation.

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<thead>
<tr>
<th>ITEM</th>
<th>Cost</th>
<th>% of Total Cost</th>
<th>Cost Per Sq. Ft.</th>
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</table>

TOTAL VOLUME: 291,240 cu. ft.—TOTAL FLOOR AREA: 12,135 sq. ft. CEILING HEIGHTS: Basement 9'-9"; First Floor 9'-7"; Second Floor 9'-4".

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Dalton Elementary School, Dalton

DESCRIPTION:
Footings and Foundation Walls—reinforced concrete; Exterior Walls—brick veneer norlite back up units, steel frame; Roof Framing—long span and standard joists, precast deck, 20-year bonded roofing; Interior Partitions—norlite units, metal door frames; Floors—concrete slab on grade, asphalt tile; Ceilings—class room wing, plastered, activities room, exposed structure; Windows—aluminum sash; Heating—forced hot water, two zone; Plumbing—Standard fixtures, sink cabinets and fountain in each class room; Electrical—classrooms, fluorescent fixtures, activities room and remainder of building, incandescent fixtures.

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<tr>
<th>ITEM</th>
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</table>

TOTAL VOLUME: 94,000 cu. ft.—FLOOR AREA: 6,725 sq. ft.—DATE OF BID: July 10, 1958.

Alexander J. Majeski, A.I.A., Architect - Bedford, N. H.

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PROJECT SUPERINTENDENT
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DESCRIPTION:

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TOTAL VOLUME: 182,424 cu. ft.—TOTAL FLOOR AREA: 12,491 sq. ft. —CEILING HEIGHTS: Auditorium - Gymnasium 21'-6"; Classrooms 9'-0"; Activity Room 10'-6".

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Gorham, N. H.

PLUMBING INSTALLATION
Plymouth High School
Vocational Building
Plymouth, N. H.
Groveton High School

First floor plan

Second floor plan

20
Additions and Alterations to Elementary and High School

Groveton

DESCRIPTION:

BOTH BUILDINGS: Reinforced Concrete Foundations, Reinforced Dampproofed Concrete Floor Slabs, Structural Steel Frame, Precast Concrete Insulating Roof Decking, Twenty Year Bonded Roof. Lead coated Copper Flashings, Aluminum Sash and Curtain Walls, Brick Facing with Cinder Tile Backing, Cinder Tile Interior Partitions, Asphalt Tile Floors. Classroom Sections; Rock Maple Gymnasium Floors, Acoustical Tile Ceilings, Steel Interior Door Frames, Complete Modern Electrical; 41 Plumbing Fixtures; New Boiler for High School with Six Zone hot water Heating System Complete, New Hot Water Heating System for Existing Building and New Addition at Elementary School with Four Zones. Forced Ventilation.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Cost</th>
<th>% of Total Cost</th>
<th>Cost Per Sq. Ft.</th>
<th>Cost Per Cu. Ft.</th>
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<td>$11.85</td>
<td>$.636</td>
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</tbody>
</table>

TOTAL VOLUME: 364,355 cu. ft. — TOTAL FLOOR AREA: 19,549 sq. ft. — CEILING HEIGHTS: Elementary School 10'-0" — CEILING HEIGHTS: High School, Locker Room and Music 10'-6"; Auditorium-Gymnasium 20'-0".

Irving W. Hersey Associates, A.I.A., Architects - Durham, N. H.

RENE T. RICHARDS & SON, BERLIN, N. H.

GENERAL CONTRACTOR
Rene T. Richards & Son
52 Gilbert St. Tel. 1331
Berlin, N. H.

General Contractor
for
BERLIN HIGH SCHOOL
GROVETON ELEMENTARY SCHOOL
GROVETON HIGH SCHOOL

R. H. KEIR
Plumbing and Heating
292 Main St. Tel HOMestead 6-2301
GORHAM, N. H.

PLUMBING • HEATING
Colebrook, N. H. Elementary School
Groveton, N. H. Schools

Gorham, N. H. High School

Bloom, South & Gurney
Incorporated
9 Melcher Street
BOSTON, MASS.
Liberty 2-5300

CERAMIC TILE
at
Groveton Elementary Addition
Groveton Secondary Addition
Groveton, N. H.

CERAMIC TILE - QUARRY TILE
RESILIENT TILE FLOORS

Our salesmen cover all of New England.
Phone Liberty 2-5300 for a qualified representative to assist your planning.

Wills & Hill
INCORPORATED
Representing
GENERAL BRONZE CORP.
(Permatite Aluminum, Bronze and Stainless Steel Windows and Curtain Walls)
CONCRETE PLANK CO., INC.
(Light Weight Nailable Concrete Roof Plank)
THE WILLIAM BAYLEY CO.
(Aluminum & Steel Windows, Curtain Wall Systems)
WILLIS STEEL CORP.
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ABBOTTSFORD CO.
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Telephone HUBbard 2-6490
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BES-STONE & 24" NORLITE

CONCRETE MASONRY
for Beauty

GOFFS FALLS SCHOOL
Built in 1957 with BES-STONE

DURACRETE

ST. PAUL'S SCHOOL GYMNASIUM
As a Builder: Structures of all kinds are such a familiar part of our communities that one is apt to think of architecture as something that just happens. Yet even the simplest construction needs skill, training and experience to guide it if the result is to be both practical to use and satisfactory to see. The Architect, then, is largely responsible for the physical makeup of his community.

As a Professional Man: The profession of architecture calls for men of the highest integrity, business capacity, artistic and technical ability. An Architect’s honesty of purpose must be above suspicion; he acts as a professional adviser to his client and his advice must be absolutely unprejudiced; he is charged with the exercise of judicial functions as between client and contractors and must act with entire impartiality; he has moral responsibilities to his professional associates and subordinates; finally, he is engaged in a profession which carries with it vital responsibility to the public. His motives, conduct and ability earn respect and confidence.

As a Citizen: The Architect participates in community affairs on various civic commissions and in advisory capacity in community planning; this participation is a foundation for his own good relations with the public.

There are approximately 7,000 architectural firms in the nation—from one-man offices to those employing many. Architects employ designers, draftsmen, specification writers and apprentices. Other professions work closely with Architects, often as members of the Architect’s organization, sometimes as consultants or associates.

As a Member of the AIA: The initials AIA (American Institute of Architects) following an Architect’s name have come to be recognized publicly, even in the courts of the land, as a certificate of merit in the professional world. At the community level, members of AIA Chapters deal with exchange of information on methods, materials, procedure—to better their competence through mutual sharing of knowledge and experience, improve safeguards that the law and codes impose, develop an atmosphere of public taste and social responsibility.
Professional Distribution*: Seventy per cent of the profession earns its livelihood in communities of over 100,000 population. Of the remaining 30 per cent of the profession, 20 per cent are located in communities containing 25,000 to 100,000 persons, and 10 per cent have as their potential market, communities in which populations range from under 5,000 to 25,000 persons.

For the nation as a whole 70 per cent of the Architects are in private practice; 19 per cent are employed by other Architects, which proportion is in sharp contrast to 5 per cent classified as public employee Architects. The remaining 6 per cent are equally divided among teachers on architectural faculties and the miscellaneous group that includes Architects in non-architectural work or those retired or unemployed.

* Above figures from The 1950 Survey of the Architectural Profession, conducted by the Commission for The Survey of Education and Registration.

(To Be Continued in December Issue)
HIGH SCHOOL ERECTED IN RECORD TIME

Hampton Cooperative High School, one of the schools featured in this issue, was erected in record time, according to Paul Harvey, president of the Harvey Construction Company, general contractor for the new high school.

In discussing the new school construction, Mr. Harvey pointed out that the contract was awarded to his company on October 17, 1957 and added that the building was substantially completed on August 1 of this year. The new school was opened for the reception of pupils when the new school year got under way the first week of September. All grading and the finishing touches were completed on October 1.

The Manchester contractor pointed out that weather-wise the winter of 1957 slowed up construction to the point that the job was practically shut down for several weeks.

DURASTONE FLEXICORE CORP

Long Span Precast Concrete
Floor and Roof Units

Boston Office:
432 Massachusetts Avenue
Arlington, Mass.

Phones: Mission 3-7841 and Mission 8-0496

HARRY C. A. BEHR, Sales Engineer
DONALD E. WILKINS
NEW CURTAIN WALL PANELS
IN MAINE, N. H., VERMONT

The Haskelite Manufacturing Corporation, Grand Rapids, Michigan, have announced the appointment of George J. Kehas Co., 30 Amherst Street, Manchester, N. H., their manufacturer's representative for New Hampshire, Maine and Vermont.

Already Hasko-Struct Panels have been specified by M. W. Beck, Architect of Waterville, Maine, for the new Maronite School, Waterville, now under construction by C. H. Vigue & Sons, general contractors of Winslow, Maine.

Through years of research and development, HASKO-STRUCT panels have been designed to meet requirements for lightweight, structural strength and constant insulating values, plus low thermal conductivity, and are ideally suited for curtain and window wall applications.

The ease of fabrication and assembly are two very desirable features. Since the surface is prefinished and the panels themselves are non-corrosive, vermin, rot and moisture proof, maintenance costs are held to a minimum.

One standard construction being featured in the building field is the GFCFG panel, having .018" resin impregnated fiberglass faces, 1/8" cement asbestos board interbands and a 2# density Styrofoam core.

The panels may be furnished in job cut sizes from detailed shop drawings and are also available in stock sizes of 48" widths and 96", 120" and 144" lengths. Six standard colors are available: Slate blue, meadow green, forest green, maple red, sand yellow and mist gray.

Technical data, color samples, budget estimates, etc., are available upon request from George J. Kehas.

Paint and colors in harmony and keeping with school construction have long been a bugaboo to architect and building committees.

Now to eliminate this problem, and at no cost to you use the services of

A Factory Trained
COLOR CONSULTANT

RALPH KNOETTNER
9 Woodbury Lane NA 3-7942
BEDFORD, NEW HAMPSHIRE

Made Available To You Through

CLARK & STEARNS, INC.
New Hampshire's Leading Paint Distributors
South Commercial Street Manchester NA 3-1402

Representing —
SIPE'S — MARTIN — SENOUR
CABOT'S — SUPER-KEM-TONE
DESCRIPTION:

The high school is one of the few examples of a building erected by a cooperative school district in which several towns have pooled their interests and efforts to provide educational facilities which none of the towns could support by itself. The building is essentially divided into several elements as follows:

1. A classroom wing.
2. A commercial department.
3. The arts department housing fine arts, the homemaking arts and the industrial arts.
4. The administrative area.
5. The cafeteria and assembly area.
6. The physical education department.

The classroom wing is separated into two integral units called "schools" with a common library between the two schools. Each unit has its own general educational laboratory and its own guidance offices. Each unit will accommodate 350 pupils. The commercial department has separate rooms for typing, stenography and bookkeeping. In this same area is the main coat-hanging corridor and a commons.

The arts department contains a fine arts room equipped for ceramics, painting, drawing, and other phases of this subject. Adjacent to the fine arts room are two homemaking rooms, separated by a modern residential-type kitchen. The industrial arts department consists of two large shops with central drafting room and library.

The administrative area contains a general office, office for the principal and assistant principal, a health suite and storage rooms. The cafeteria and assembly area contains a fully-equipped kitchen and dishwashing area, a separate teachers' dining room, a student dining area and an assembly area. The stage is on the same level as the classroom functions and has the music department directly adjacent. The assembly area is located at a lower level and will seat approximately 300 persons. On an intermediate level is the dining area, so arranged that it can also serve to enlarge the seating capacity of the assembly space to a total capacity of 700 persons.

The gymnasium is 96' x 80' with a folding partition to divide the space into two separate areas. Flanking the gymnasium are the locker rooms, shower rooms and offices for the physical education staff.

A brief outline of materials and structure follows:

CONSTRUCTION:

Foundations — Concrete; Walls — Facing brick with masonry block backers; Windows—Aluminum awning type; Roof—Steel trusses with Tectum deck over the gymnasium, steel joists and steel decking over the assembly and cafeteria areas, long-span steel decking elsewhere; Insulation—Rigid insulation on roof; Floorings—Maple in gymnasium, ceramic tile in shower and toilet rooms, quarry tile in coat corridor, commons, entrance vestibules, asphalt tile elsewhere; Wall Surfaces—Brick veneer in cafeteria, exposed Tectum in gymnasium, plaster in shower rooms, exposed steel decking elsewhere with strips of acoustical board inserted in the troughs where needed; Skydomes—Plastic skydomes provided for corridors and interior rooms; Electrical—Fluorescent troffers in the troughs of the steel decking, incandescent lighting in cafeteria, gymnasium, showers and toilet rooms, special lighting with dimmer control for stage, flood-lighting for exterior.

Clock and program system, firealarm system, intercommunicating telephone system, television system; Plumbing—Showers with gang control, toilet rooms equipped with standard fixtures, wash basins in Industrial Arts Shops, special acid-resisting sinks in Laboratories, dark room sink, electrical water coolers, hose bibbs; Refrigeration—Walk-in refrigerator, reach-in refrigerator, freezer; Heating and Ventilating—Two oil-fired, hot water boilers, zoned hot-water system, unit ventilators, unit heaters, finned-tube radiation, pneumatic temperature control system, mechanical ventilation for toilet rooms and interior rooms, incinerator.

Tracy and Hildreth, A.I.A., Architects - Nashua, N. H.

HARVEY CONSTRUCTION CO., INC., MANCHESTER, N. H.

GENERAL CONTRACTOR
FRANCIS P. CONNOR
& SON, INC.

Plastering Contractor
for
KEENE TEACHERS COLLEGE
VOCATIONAL BUILDING
HAMPTON COOPERATIVE SCHOOL
PEASE AIR FORCE BASE
ELEMENTARY SCHOOL
12 John Street  Dial TU 2-0451
NASHUA, N. H.

R. C. Peabody Co., Inc.
Plumbing • Heating • Sprinkler
Contractors
Sales - Installation - Service
720 Union St.  Dial 2-0824
Manchester, N. H.

Plumbing - Heating
for
COOPERATIVE HIGH SCHOOL
Hampton, N. H.

HARVEY
Construction Company, inc.
MANCHESTER  NEW HAMPSHIRE

1662 Elm Street  Tel. NA 2-3745

GENERAL CONTRACTOR
For
COOPERATIVE HIGH SCHOOL
HAMPTON, N. H.
Description:
Foundations — Concrete, full crawl space; Exterior Walls—Brick face, cinder block back-up; Interior Partitions—Cinder block painted; Floor Construction—Bar joists, steel centering, 2½" concrete slab, asphalt tile; Roof Construction—Bar joists, wood plank, rigid insulation, bonded built-up roof; Ceiling Finish—Acoustical tile on metal suspension; Fenestration — Steel sash ribbon windows and directional glass blocks; Heating and Ventilating—Extension of original 2-pipe steam system designed and capped for this addition. Unit ventilators in classrooms, mechanical exhausts, individual room control, #2 oil; Plumbing—First quality fixtures, copper water piping, cast iron waste connected to disposal system designed for this addition; Electric—Extended from panel in old building designed for this addition. Incandescent fixtures.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Cost</th>
<th>% of Total Cost</th>
<th>Cost Per Sq. Ft.</th>
<th>Cost Per Cu. Ft.</th>
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</table>

Total Volume: 45,900 cu. ft.—Floor Area: 2,805 sq. ft.—Date of Bids: July 25, 1958—Ceiling Height: 11' - 7".

Gray and Ingram, A.I.A., Architects - Hanover, N. H.

Rolfe Camp Company, Inc., Franklin, N. H.
General Contractor
Of greatest importance . . .

CORRECT LIGHTING
in today’s schools!

Reddy Kilowatt can supply power for schoolhouse lighting but only you, the architect, can plan adequate lighting. Don't cheat the eyes of students . . . proper light is a comparatively small item in the total cost of construction.

The planning of such a system proceeds along standardized lines, but new ideas and methods are developed every day by the best minds in the profession.

We would be most happy to consult with you on any detail problem if you so desire . . . we are constantly receiving new data, and our time is at your disposal.

Call or write our office — any time!

Public Service Company of New Hampshire and New Hampshire Electric Company
Additions and Alterations to Elementary School Building, Hollis

DESCRIPTION:
Reinforced Concrete Foundations, Reinforced Dampproofed Concrete Floor Slabs, Structural Steel Frame, Precast Concrete Insulating Roof Decking, Twenty Year Bonded Roof, Lead Coated Copper Flashings, Aluminum Sash, Brick Facing with Cinder Tile Backing, Cinder Tile Interior Partitions, Acoustical Tile Ceilings, Asphalt Tile Floors, Steel Interior Door Frames, Large Glazed Areas in Corridor, Large Display Area in Lobby, Sixteen (16) Plumbing Fixtures, Extension of present Hot Water Heating System, Forced Ventilation.

ITEM | STRUCTURE | PLUMBING | HEATING & VENTILATING | ELECTRICAL | COST | % of Total Cost | Cost Per Sq. Ft | Cost Per Cu. Ft |
--- | --- | --- | --- | --- | --- | --- | --- | --- |
$65,417.22 | 73.6 | $ 8.03 | $.618 |
6,242.00 | 7.0 | .76 | .059 |
13,915.00 | 15.6 | 1.71 | .131 |
3,323.10 | 3.8 | .41 | .031 |
$88,897.32 | 100.0 | $10.91 | $.839 |

TOTAL VOLUME: 105,846 cu. ft.—TOTAL FLOOR AREA: 8,142 sq. ft.—CEILING HEIGHT: 10'-0".

Irving W. Hersey Associates, A.I.A., Architects - Durham, N. H.
ANDRE COURCHESNE, MANCHESTER, N. H.
GENERAL CONTRACTOR
ERNEST E. NICHOLS
2 Sheridan St.  Tel. TU 2-3791
NASHUA, N. H.

Plumbing - Heating
Sprinkler Installation
Industrial Maintenance
Oil Burner Sales and Service

Plumbing - Heating Ventilating
at
HOLLIS ELEMENTARY SCHOOL
Hollis, N. H.

ANDRE COURCHESNE
Greer St., R. F. D. #4
MANCHESTER, N. H.
Tel. NA 2-4179

General Contractor
for
HOLLIS ELEMENTARY SCHOOL
Hollis, N. H.
also
BUILDER OF
Administration Building and Toll Collectors Station at New Hampshire Turnpike
New Hampshire Distributors Office and Warehouse
Concord, N. H.

ROWELL & MILLER
Electrical Contractors
BOX 123
154 WEBSTER ST.  HUDSON, N. H.
Tel. Tuxedo 3-7053 - TU 3-7993 - TU 3-7098

Electrical Contractors
AT
Hollis Elementary School
Hollis, N. H.
Merrimack High School Addition
Merrimack, N. H.

BARRETT FLOORING COMPANY
Quality Floors Since 1932
P. O. BOX 246  BEDFORD
MASSACHUSETTS

SUPPLIERS AND INSTALLERS
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Products at
PEERLESS INSURANCE COMPANY
Keene, N. H.
Vocational Building, Keene Teachers College
Keene, N. H.
Sawyer Center, Colby Junior College
New London, N. H.
HOLLIS ELEMENTARY SCHOOL
Hollis, N. H.
Lebanon High School, Lebanon, N. H.
Keene Teachers' College Vocational Building

DESCRIPTION OF ALTERATION WORK:
The original Vocational Building, consisting of three floors, was completely remodeled. New lighting, heating, and floor coverings were installed in all areas. The complete building was repainted. The West exterior wall was removed to permit enlarging three shop areas.

DESCRIPTION OF NEW WORK:
Foundations—reinforced concrete; Frame—structural steel columns and girders, junior I beams floor and roof framing; Exterior Walls—cinder concrete block and brick veneer; Roofing—20-year bonded roof on Tectum roof plank with bonded built-up flashing and extruded aluminum coping; Floors—reinforced concrete first floor, reinforced concrete on Corruform second floor. Flooring: Vinyl asbestos, block wood flooring in carpenter shop and ceramic tile; Interior Partitions—cinder concrete blocks first floor—movable rockface office partitions second floor; Wainscots—ceramic tile, polished concrete blocks; Ceilings—hard plaster and acoustical plaster; Doors—solid core wood with pressed steel frames; Windows—aluminum sash and glass block with cast stone trim; Electrical—fluorescent lighting, power bus ducts and AC-DC science panel; Heating—unit ventilators, fin tube and unit heaters, all rooms individually controlled, steam supply from Central Boiler.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Cost</th>
<th>% of Total Cost</th>
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* Includes renovation of existing building.

NEW ADDITION VOLUME: 244,500 cu. ft.—FLOOR AREA: 18,688 sq. ft.—DATE OF BIDS: November 7, 1957—COMPLETED: September 1, 1958.

John R. Holbrook Associates, A.I.A., Architects - Keene, N. H.

THE MacMILLIN CO., INC., KEENE, N. H.
GENERAL CONTRACTOR
Plumbing and Heating
Ventilating
— for —
KEENE TEACHERS COLLEGE
VOCATIONAL BUILDING
Keene, New Hampshire

RIVERS and HENRY
O. A. Rivers  R. H. Henry
KEENE N. H.
Rear 97 Main St.  Tel. 2044

The
MacMILLIN COMPANY, INC.
BUILDERS
Keene, N H.

BUILDERS
of
KEENE TEACHERS COLLEGE
VOCATIONAL BUILDING
Keene, New Hampshire

The
BEAUTIFUL GARAGE DOORS
for the
KEENE TEACHERS COLLEGE
VOCATIONAL BUILDING
are
Eastern Garage Doors

BUY THE BEST
BUY EASTERN!

The
Beautiful Garage Doors
— for —
KEENE TEACHERS COLLEGE
VOCATIONAL BUILDING
are
Eastern Garage Doors

BUY THE BEST
BUY EASTERN!

The
Electrical
Contractor
— for —
KEENE TEACHERS COLLEGE
VOCATIONAL BUILDING
Keene, New Hampshire

PHILIP D. MORAN
Keene, N. H.
103 Winchester St.  Tel. EL 2-2215

INDUSTRIAL
COMMERCIAL
RESIDENTIAL
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VENTILATING
MACHINE ERECTING
MILLWRIGHT WORK
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Company, Inc.

Roofing Contractors
for
Hopkinton Elementary, Hopkinton
St. Mary's High School, Claremont
Laura S. Barnes Elementary, Lyme
Keene Teachers College
Vocational Building
Whitingham School, Jacksonville, Vt.

SHEET METAL - WATER PROOFING
CONTRACTORS

353 WEST ST. KEENE, N. H.

22 E. Broadway, Gardner, Mass.

SYD'S PAINT SHOP

THINGS
THAT
ARE DIFFERENT

IF IT IS DONE
WITH A BRUSH
WE CAN DO IT

PAINTING CONTRACTOR
for
KEENE TEACHERS COLLEGE
VOCATIONAL BUILDING

84 WATER STREET

Keene, New Hampshire

Daniel J. Bakie Memorial School, Kingston (Addition and Alterations)

DESCRIPTION:
Footings and foundation walls—reinforced concrete; exterior walls—brick veneer on cinder concrete back-up; ground floor—reinforced concrete slab on drainage fill; first floor—flexicore precast slabs; roof construction—trussed wood rafters; roofing—asphalt shingles; insulation in all attic areas; interior and exterior door frames—wood and steel; windows in corridors, all-purpose room, kitchen, etc.: Andersen's "Pressure Seal"; windows in classrooms—aluminum sash and frame "ribbon sash"; light directional glass block above "ribbon sash"; ceilings—acoustical tile; finished floors—asphalt tile; dadoes of corridors and auditorium—salt glazed structural tile; Mosaic tile floors in toilet rooms; kitchen equipment—wood with stainless steel and Formica counters; heating—forced hot water with area zoned control including thermostatically controlled radiation in each room, including renovation of existing rooms; ventilation—mechanical; electrical—lighting—incandescent.

ITEM                  | Cost    | % of Total Cost | Per Sq. Ft. | Cost Per Cu. Ft.
----------------------|---------|-----------------|-------------|-----------------|
STRUCTURAL            | $71,859.00 | 78.5           | $7.18       | $ .19           |
PAINTING              | 2,995.00  | 3.5            | .33         | .13             |
ELECTRICAL           | 3,572.00  | 4.2            | .39         | .16             |
HEATING & VENTILATING| 12,100.00 | 9.0            | 1.34        | .53             |
PLUMBING              | 4,447.00  | 4.8            | .49         | .19             |

TOTAL COST OF BUILDING| $94,973.00 | 100.0         | $9.73       | $1.20           |

TOTAL VOLUME: 226,073 cu. ft.—FLOOR AREA: 9,067 sq. ft.—DATE OF BIDS: July 1, 1958.

Maurice E. Witmer, A.I.A., Architect - Portsmouth, N. H.
NEW WAY TO BUILD CONCRETE WALLS . . . EASILY AND QUICKLY -- WITHOUT USING FORM WORK

Save School Building Cost

with **FORMBLOC**

SAVE MATERIAL, LABOR, TIME
FUEL AND UPKEEP —

* REINFORCED CONCRETE FOUNDATION WALLS

* INSULATED EXTERIOR MASONRY WALLS

IT WILL PAY YOU TO INVESTIGATE

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Duracrete Block Co. Inc.
Phone—NA 4-1293
MANCHESTER, N. H.

Arthur Whitcomb, Inc.
Phone—ELwood 2-0101
KEENE, N. H.
<table>
<thead>
<tr>
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<th>Cost Per Cu. Ft.</th>
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<tr>
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</table>

DATE OF BIDS: December 10, 1957—TOTAL AREA: 42,660 sq. ft.—TOTAL CUBIC VOLUME 580,772 cu. ft.

**John R. Holbrook Associates, A.I.A., Architects - Keene, N. H.**

**TRUMBULL NELSON CO., INC., HANOVER, N. H.**

**GENERAL CONTRACTOR**
Randall Company, Inc.
RUTLAND, VT.
272 So. Main St.  Tel. PRospect 3-2791

Frank T. Cody Co.
Electrical Contractors
HANOVER, N. H.
Phone Hanover 720

Plumbing - Heating
and Ventilating
for
Lebanon
High
School

Electrical Contractors
for
LEBANON HIGH SCHOOL
BROWN SCHOOL
Berlin, N. H.
COLEBROOK
ELEMENTARY SCHOOL
GROVETON, N. H. ELEMENTARY,
and HIGH SCHOOL ADDITIONS

Trumbull-Nelson Company, Inc.
HANOVER, NEW HAMPSHIRE
Telephone 58

General Contractors
LEBANON HIGH SCHOOL - LEBANON, N. H.
For Better School Construction
Use Concrete Double Tee Slabs
ECONOMICAL  FIREPROOF  ATTRACTIVE

Lakeport P.O. Box 132 - Laconia, N. H.
Phone 2718

CAPITOL
PLUMBING & HEATING SUPPLY CO.

WHOLESALE DISTRIBUTORS FOR:
YOUNGSTOWN STEEL KITCHENS
ELJER PLUMBING FIXTURES
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KOVEN BOILERS & WATER HEATERS
MINNEAPOLIS - HONEYWELL CONTROLS
BARNES & JONES TRAPS
TACO HEATING SPECIALTIES
BELL & GOSSETT SPECIALTIES
DOLE VALVES
SYMONS SAFETY MIX VALVES
ELKAY STAINLESS STEEL SINKS
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Ward Ave. Concord, New Hampshire

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
DESCRIPTION:

FOUNDATIONS: Concrete. FLOORS: Reinforced concrete slab on gravel. EXTERIOR WALLS: Concrete block faced with brick. INTERIOR WALLS: Concrete block. FRAMING: Laminated wood beams with 3" wood deck over Class Rooms. Laminated wood arches with 4" wood deck over Activities Room. ROOF: 20-year bonded tar and gravel over Class Rooms. Asphalt shingles over Activities Room. CEILINGS: Acoustic tile over Class Rooms. Natural wood over Activities Room. WINDOWS: Prefabricated wood units. FLOORS: Asphalt tile. HEATING: Oil; forced hot water; continuous convectors under Class Room windows; console unit heaters in Activities Room. Forced exhaust. PLUMBING: Well water. Septic tank and 3 leaching cesspools. ELECTRIC: Fluorescent fixtures.


<table>
<thead>
<tr>
<th>ITEM</th>
<th>Cost</th>
<th>% of Total Cost</th>
<th>Cost Per Sq. Ft.</th>
<th>Cost Per Cu. Ft.</th>
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TOTAL VOLUME: 121,955 cu. ft.—TOTAL AREA: 9,362 sq. ft.

W. Brooke Fleck, A.I.A., Architect, - Hanover, N. H.

MILLARD ULINE, LYME, N. H.

GENERAL CONTRACTOR
Weston School, Manchester, N. H.

DESCRIPTION:
Four new classrooms, principal's office, teachers and health room, new plumbing fixtures to meet state requirements for the increase in pupil capacity. The existing building, designed by C. R. Whitcher in 1922, was planned for a future addition. This new addition along the north wall of the building is now complete and in use making this an eight room school building.

CONSTRUCTION DATA:
Concrete foundation and footings, temporary reinforcing, exterior walls brick veneer with concrete block back-up, load bearing interior walls, concrete block, first floor: slab on grade—second floor and roof frame: L. S. steel joists, concrete slab on corrugated—second floor: precast roof decking and twenty year bonded roof—asphalt tile finish floors, interior partitions, concrete block, acoustical plaster ceilings, existing brick walls which formed the south wall of the classrooms was strapped and plastered, corridor terrazzo floors and base were patched where new openings were cut through, metal door bucks and frames, solid core, flush birch doors, aluminum windows, fluorescent lighting fixtures, heating system was extended, boiler increased for the new addition, all new classrooms and toilets are ventilated mechanically.

<table>
<thead>
<tr>
<th>ITEM</th>
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</table>

Andrew C. Isaak, A.I.A., Architect - Manchester, N. H.
GAMACHE CONSTRUCTION CO., INC., MANCHESTER, N. H.
GENERAL CONTRACTOR
Michael's

Lathing and Plastering
— at —
WESTON SCHOOL
Manchester, N. H.
— by —
P. H. McGranahan
Company, Inc.
555 Valley St. Manchester, N. H.
Dial 2-9373

Suppliers and Installers
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FLOORING
at
WESTON SCHOOL
Manchester, N. H.
MEN'S DORMITORY
PLYMOUTH TEACHERS COLLEGE
Plymouth, N. H.
BROWN SCHOOL - BERLIN, N. H.

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Authorized Factory Representative for VALLEY METAL PRODUCTS COMPANY
Since 1950

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VAMPCO VERSATILITY AT ITS FINEST

PEASE AIR FORCE BASE ELEMENTARY SCHOOL
Furnishing and installing Vamco Aluminum Series 600 Heavy Ribbon
Windows at Classrooms and Vamco Aluminum Series 2000-2" Curtain
Wall at Multi-purpose, Library, and Administration Areas.

WESTON SCHOOL
Vamco Series 100 Intermediate Projected Aluminum Windows, Hollow
Metal Door Frames.

DALTON SCHOOL
Vamco Series 100 Intermediate Projected Aluminum Windows,
American Sanitary Partition Corp. Metal Toilet Partitions.

RAYMOND SCHOOL
Vamco Series 100 Intermediate Projected Aluminum Windows,
Haskelite Hasko-Struct Panels at Main Entrance.
Additions and Alterations to West High School, Manchester

DESCRIPTION:
The problem posed in the additions and alterations of West High School is one faced by many communities in their expansion programs: Limited budget, limited ground area; expanded school enrollment, expanded curricula.

The ground area is bounded by four highly trafficked streets, seventy-five per cent of that ground area is covered by the present High School. The remaining twenty-five per cent dictated that expansion was only possible in one direction which was up. Heavy equipment in the Shops and athletic activity in the Gymnasium are on the ground floor, with Science, Lecture, Library and Study Halls on the upper level.

The budget is $700,000 for additions, alteration, equipment and fees.

The added classrooms and altered existing areas to classrooms plus the existing facilities provide a flexibility in space use to meet the educational demands of 900 students.

CONSTRUCTION:
Foundations—Reinforced concrete; Structural—Steel frame, fireproofed and reinforced concrete floor slabs; Exterior Walls—Brick veneer with concrete block backup; Roof—Steel Frame, Porex insulated slabs, T & G roof over Classrooms, steel bents, purlins, cedar T & G 3" plank exposed to interior, S. I. S. roofing with T & G gutter areas over Gymnasium, Long span steel joists, Porex insulated slabs over Library, Study Hall; Interior Partitions—Concrete Block, Structural Glazed Tile in Shower Rooms; Ceilings—Acoustical Plaster, painted concrete; Flooring—Hardwood gymnasium floor, ceramic tile shower floors, Quarry Tile in Lobby, Asphalt Tile throughout except vinyl acid resisting in laboratories; DOORS—Solid core flush plywood; Door Frames—Steel; Windows—Aluminum fixed and operating; Heating—Existing Boilers, steam, fin tube, unit heaters; Ventilation—Complete throughout additions; Plumbing—Showers, toilets, etc. copper piping; Electrical—Fluorescent fixtures; Equipment—Special purpose rooms, laboratories, cafeteria, shops and home economics.

Mechanical Engineer — Richard D. Kimball Co., Boston, Mass
Electrical Engineer — Albert Stock, Wolfeboro, N. H.
Structural Engineer — J. U. Wiesendanger, Winthrop, Maine

Koehler and Isaak, A.I.A., Architects - Manchester, N. H.
Roofing Contractor

For

RAYMOND CONSOLIDATED SCHOOL ADDITION
Raymond, 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

Weston School, Manchester, N. H.
University of New Hampshire
Men's Dormitory

Herbert W. Paul

Interior & Exterior Painting
Paper Hanging & Decorating
Mural Work & Color Styling
Floor Sanding & Refinishing
Canvas Ceilings Installed
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BRICK
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Hollis Pease AF Base
Sanbornton Weston
U. N. H. Dormitory

Plus Glazed Structural Tile and Masonry Supplies
For Many Other Schools

CORRIVEAU-ROUTHIER CEMENT BLOCK CO.
266 Clay Street - Manchester, N. H.
NAtional 2-3506
Additions and Alterations to High School, Merrimack


<table>
<thead>
<tr>
<th>ITEM</th>
<th>Cost</th>
<th>% of Total Cost</th>
<th>Cost Per Sq. Ft.</th>
<th>Cost Per Cu. Ft.</th>
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<td><strong>TOTAL COST OF BUILDING</strong></td>
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<td><strong>$8.25</strong></td>
<td><strong>$ .431</strong></td>
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TOTAL VOLUME: 263,187 cu. ft.—TOTAL FLOOR AREA: 13,750 sq. ft.
CEILING HEIGHTS: Classroom 11'-0"; Activities Room 18'.

Irving W. Hersey Associates, A.I.A., Architects - Durham, N. H.
SEPPALA AND AHO CONSTRUCTION CO., NEW IPSWICH, N. H.
GENERAL CONTRACTOR
ARCHITECTURAL STONE
COMPANY
INCORPORATED

MANUFACTURERS OF
CAST STONE
TURNERS FALLS
MASSACHUSETTS

Celotex Acoustical Products
Office Partitions
Insulrock Roof Deck

by
Pitcher & Company, Inc.
67 Rogers St., Cambridge, Mass.
Goffstown, N. H. HYacinth 7-2376

SEPPALA and AHO
CONSTRUCTION COMPANY
NEW IPSWICH, NEW HAMPSHIRE
Tel. New Ipswich, N. H. 89 Ashby, Mass. Dupont 6-5380

GENERAL CONTRACTORS
MERRIMACK HIGH SCHOOL ADDITION
Merrimack, N. H.
Proposed Consolidated High School for the New Hampshire Towns of Madison, Effingham, Brookfield, Freedom, Tamworth, Wakefield and Ossipee


ESTIMATED CONSTRUCTION COST:

<table>
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<tr>
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<td>Water—Well and Storage</td>
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<td>Finish Grading, Sidewalks and Drives</td>
<td>10,000.00</td>
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<tr>
<td>Architects and Engineers Fee (6%)</td>
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<td>Blueprints—Legal—Travel</td>
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<td>Contingency</td>
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<td><strong>Total</strong></td>
<td><strong>$814,000.00</strong></td>
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TOTAL VOLUME: 995,000 cu. ft.—FLOOR AREA: 61,062 sq. ft.

Alfred T. Granger Associates, A.I.A., Architects and Engineers
Hanover, N. H.
10 Schools In This Issue

HAVE

* TECTUM ROOF DECK
§ MODERNFOLD DOORS
‡ WHITE MOVEABLE PARTITIONS

* Berlin High, Gorham High, Hampton Cooperative, Keene Teachers, Pease Air Force Base Elementary, Plymouth Vocational Building, Raymond Elementary, Weston Elementary.
§ Lebanon High Addition, Plymouth Teachers College Dormitory.
‡ Keene Teachers College Vocational Building.

THE BADER COMPANY, INC.
ACOUSTICAL and PARTITION CONTRACTORS

699 Pine St.
Burlington, Vt.
130 Crescent St.
Rutland, Vt.
Route No. 8
Beck Road
Concord, N. H.
431 Turner St.
Auburn, Maine

CALIFORNIA
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PLEXICOLOR — Acrylic Exterior
ALLWALL — Vinyl Interior
RAYLITE — Rubber for Interior Masonry
RAYOGLOS — Latex Semi-Gloss

Standards for Comparison and Perfection
Manufactured by California Paint Division

California Stucco Products of N. E., Inc.
KI 7-5300

141 Maple St. Box 286
BURLINGTON, VT.

THE BADER COMPANY, INC.
ACOUSTICAL and PARTITION CONTRACTORS

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Burlington, Vt.
130 Crescent St.
Rutland, Vt.
Route No. 8
Beck Road
Concord, N. H.
431 Turner St.
Auburn, Maine

CALIFORNIA
New modern paints!

PLEXICOLOR — Acrylic Exterior
ALLWALL — Vinyl Interior
RAYLITE — Rubber for Interior Masonry
RAYOGLOS — Latex Semi-Gloss

Standards for Comparison and Perfection
Manufactured by California Paint Division

California Stucco Products of N. E., Inc.
KI 7-5300

JOHN J. REILLY
ELECTRICAL CONTRACTOR

Residential and Industrial Wiring

DIAL MAN. 3-3568

875 South Willow St., Manchester, N. H.
Motor Repairing
Men's Dormitory, Plymouth Teachers College, Plymouth

DESCRIPTION:
Statistical Data: 161 students accommodated—41,850 square feet—$544,330 total cost including tunnel to Mary Lyons Hall, exterior work and built-in furniture—$13.00 per square foot.

PLAN: Basement—provides cafeteria, social room with snack bar, game room, transformer room, storage rooms, incinerator room. The cafeteria is connected by an underground tunnel to the main kitchen located in adjacent Mary Lyons Hall; Main Floor—contains foyer and lounge, matron's suite, guest suite, student rooms, toilets and showers; Upper Floors—(2) provide lounge, student rooms, utility room, storage rooms, toilets and showers.

TYPICAL STUDENT ROOM: The typical room is a double room equipped with built-in wardrobe, dresser, desk, desk light, corkboard and mirror for each student.

CONSTRUCTION:
Foundation—Concrete; Frame—Reinforced concrete columns, beams, and slabs; Walls—Brick with masonry block backers; Windows—Aluminum sliding windows; Partitions—Solid plaster between classrooms, masonry block elsewhere; Wall Finishes—Ceramic tile in toilets and showers, plaster dado covered with Kalistrion in corridors, wood veneers in lounges, cafeteria and social rooms, painted masonry elsewhere; Ceiling Finishes—Acoustical tile in cafeteria, social room, lounges and corridors, painted concrete slab elsewhere; Roof—Rigid insulation, built-up tar and gravel roofing, copper flashings; Floorings—Ceramic tile in toilets and showers, quarry tile in cafeteria work areas, vinyl tile elsewhere; Plumbing—Wall-hung water closets, both gang and individual showers. Metal toilet stalls. Copper water piping, Roof drainage system; Heating—Pipe tunnels to central heating plant, converter, hot-water system, fanned-tube radiation; Ventilation—Mechanical ventilation for toilet rooms and interior rooms, fresh air units in cafeteria and social room; Electrical—Transformer vault, fluorescent lighting in cafeteria, social room, game room and lounges, incandescent lighting elsewhere;

SPECIAL EQUIPMENT—Incinerator, rubbish chute, rubbish hoist, stainless-steel cafeteria and dishwashing equipment, built-in booths in cafeteria and social room.

Tracy and Hildreth, A.I.A., Architects - Nashua, N. H.

SWANBURG CONSTRUCTION CORP., MANCHESTER, N. H.

GENERAL CONTRACTOR
ANOTHER
FINE SCHOOL BUILDING
BY
SWANBURG
CONSTRUCTION CORP.
Manchester, N. H.

General Contractor for Plymouth Teachers College
— Mens Dormitory, — Plymouth, N. H.

DUNLOP & HOEY

John R. Dunlop
Cross Rd.
Tilton, N. H.
Tel. 512

Raymond A. Hoey
105 Mechanic St.
Laconia, N. H.
Tel. 2807-W

Electrical Contractors
Industrial — Commercial — Residential

ELECTRICAL CONTRACTORS
for
PLYMOUTH TEACHERS COLLEGE
DORMITORY
Plymouth, N. H.

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Plumbing - Heating Contractors
at
SANBORNTON
ELEMENTARY SCHOOL ADDITION
PLYMOUTH TEACHERS COLLEGE
DORMITORY

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

Telephone 1090 — 2722
Vocational Building, Plymouth High School, Plymouth

CONSTRUCTION:

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Cost</th>
<th>% of Total Cost</th>
<th>Cost Per Sq. Ft</th>
<th>Cost Per Cu.</th>
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TOTAL VOLUME: 168,386 cu. ft.—FLOOR AREA: 13,251 sq. ft.—FLOOR HEIGHTS: Basement to First 13'-4"; First to Top of Steel 11'-6". DATE OF BIDS: October 15, 1958.

Douglass G. Prescott, A.I.A., Architect - Laconia, N. H.
WINSTON P. TITUS, LAKEPORT, N. H.
GENERAL CONTRACTOR
Steel Structures Designed and Fabricated
Architectural and Ornamental Iron

"Steel when you want it"
LYONS IRON WORKS, INC.
62 MAPLE ST. MANCHESTER, N. H.
DIAL 5-6975

Jordan's Electrical Co.
PHONE 716
35 BAY STREET TILTON, N. H.
COMMERCIAL & RESIDENTIAL WIRING

Electrical Contractor
for
Holderness Elementary Addition
Holderness, N. H.
Plymouth High Vocational Building
Plymouth, N. H.
Salisbury Elementary School
Salisbury, N. H.

Fabricated Steel Products Co., Inc.
Agents for
Ceco Steel Products Corporation

STEEL JOISTS - ROOF DECK
STEEL SASH - ALUMINUM SASH
REINFORCING MESH
DUR-O-WAL

Warehouse and Office
115 Old Colony Avenue
Wollaston 70, Mass.
Mayflower 9-5218

GRADE-AID

School Equipment Manufacturing Corp.
46 Bridge Street, Nashua, New Hampshire
Subsidiary of The Maine Manufacturing Company
"Serving New Hampshire schools and industry since 1874"
DESCRIPTION:
Footings and foundations—concrete; exterior walls—brick veneer on cinder block back up; roof construction—steel bar joists, longspans, and structural steel; insulated cement fiberboard decking; roofing—tar and gravel, 20-year bond; flashings—copper; exterior panel wall construction—aluminum with porcelain steel inserts; exterior sash and door frames—aluminum; interior door frames—solid veneer plywood; interior partitions—cinder block, wood, and glass; floor slab—reinforced concrete on drainage fill; finished floors—asphalt tile throughout except toilet rooms where there will be mosaic tile; ceilings—acoustical plaster with electrical luminous ceilings in main lobby; dadoes in toilet rooms—ceramic tile; wainscotting in library and all-purpose room—plywood; all-purpose gymnasium floor—wood over screeds and reinforced concrete slab; porcelainized metal toilet stalls and partitions; all interior casework—birch wood with translucent glass panels between corridors and classrooms; light lunch, snack bar, and kitchen facilities between stage, library, and all-purpose wing; heating—forced hot water, cast, floors; ventilation—mechanical; electrical—fluorescent, incandescent, and luminous ceilings; automatic electric fire alarm and clock system installed, speaker system with audio-visual provided to all rooms.

ITEM

<table>
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<th>Cost</th>
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ADDITIONAL ESTIMATED COST: Movable Equipment—$42,000, Site Improvements and Utility Connections—$41,000.

Maurice E. Witmer, A.I.A., Architect - Portsmouth, N. H.
A. PASQUALE & SONS, HAVERHILL, MASS.
GENERAL CONTRACTOR
M. B. Foster Electric Co.
Telephone GEneva 6-5606 - 07
69 Albany Street
PORTSMOUTH, N. H.

Electrical Contractor

for
Elementary School
Pease Air Force Base
PORTSMOUTH, N. H.

— At —
Pease Air Force Base
Elementary School
Plumbing
Heating
Ventilating

BY

ACME
ENGINEERING, INC.
595 SOMERVILLE ST.
MANCHESTER, N. H.

Dial NA 3-0813
Heating • Air Conditioning • Plumbing
CONTRACTORS

A. PASQUALE & SONS
81-83 Merrimack Street
HAVERHILL, MASSACHUSETTS
DRake 2-0237

GENERAL CONTRACTORS
for
Pease Air Force Base Elementary School
PORTSMOUTH, N. H.
PATERNON & GETCHELL
Painting Contractors

Industrial Brush and Spray Painting

Full Line of Sherwin-Williams Paints

Painting Contractors for

PEASE AIR FORCE BASE
ELEMENTARY SCHOOL
Portsmouth, N. H.

21 Daniel St. Tel. GE 6-3031
PORTSMOUTH, N. H.

CAMBRIDGE CEMENT
STONE COMPANY
INCORPORATED

CAST STONE

for

PEASE AIR FORCE BASE
ELEMENTARY SCHOOL

and

DANIEL J. BAKIE
SCHOOL ADDITION
Kingston, N. H.

156 Lincoln St. Allston 34, Mass
Tel. STadium 2-7610 - 2-7611

MANCHESTER ROOFING CO., INC

117 Second Street WALTER J. WARNER Manchester, N. H.
NA 2-6639

ROOFING CONTRACTOR

for

Brown Elementary School, Berlin, N. H.

Groveton, N. H. Schools

Pease Air Base Elementary School
Alterations to Woodsville High School, Woodsville

DESCRIPTION:
The purpose of this alteration job was to convert an unused assembly hall and stage area into a complete Science Laboratory Suite, and an inadequate laboratory room into a Library which the high school seriously needed. This purpose was satisfactorily accomplished as shown by the plans for the following costs:

- General Contract: $13,746.00
- Heating, Ventilating and Plumbing: $1,942.00
- Electric: $1,229.65
- Total Cost: $16,917.65

The outstanding feature of this work was the construction, at a considerable saving over conventional laboratory furniture, of new student and teacher demonstration, laboratory tables and corroboratory work counters. Standard laboratory furniture accessories, sinks, etc., were incorporated in normal millwork construction and all tables and counters were satisfactorily capped with a 1/4" thick monolithic asbestos-cement top treated with a plastic base wax to give maximum resistance to stains and acids. Exhaustive tests on the table and counter tops were made prior to construction.

All counters for the General Science and Biology Section were made by remodeling and surfacing the old obsolete laboratory tables. The original crowded laboratory room has been replaced by two rooms of approximately equal size which offers a separation of science activities when class scheduling so requires, and also an opportunity for other classroom activity such as mathematics, when only one area is needed for science classes. The storage and preparation room will also serve as an individual research room for advanced classes.

All altered areas were completely redecorated and all old wood floors received asphalt tile.

Gray and Ingram, A.I.A., Architects - Hanover, N. H.

H. P. CUMMINGS CONSTRUCTION CO., WOODSVILLE, N. H.

GENERAL CONTRACTOR
Raymond Consolidated School Addition, Raymond

DESCRIPTION:
Footings and Foundations—Reinforced concrete; Industrial Arts Shop—Steel frame; Roof framing—Jr. beams, precast roof deck; Exterior Walls—Brick veneer, Norlite back-up units; Class Room Wing—Brick veneer and Bestone Norlite back-up units; Roof Framing—Jr. Beams, precast; Roof Deck—20-year bonded roofing; Interior—Partitions Norlite units; Floors—Concrete slab finish asphalt tile; Industrial Arts Shop—Wood; Ceilings—Acoustical plaster; Windows—Aluminum sash; Heating—Forced hot water, 3 zone; Plumbing—Standard school size fixtures, sink and fountain in classrooms; Electrical—Fluorescent fixtures and incandescent.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Cost</th>
<th>% of Total Cost</th>
<th>Cost Per Sq. Ft.</th>
<th>Cost Per Cu. Ft.</th>
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<td>STRUCTURE</td>
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<td>$108,038.00</td>
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TOTAL VOLUME: 150,324 cu. ft.—FLOOR AREA: 11,650 sq. ft.—DATE OF BID: September 25, 1958.

Alexander J. Majeski, A.I.A., Architect - Bedford, N. H.
GAMACHE CONSTRUCTION CO., INC., MANCHESTER, N. H.
GENERAL CONTRACTOR
ERIC ANDERSON
82 Reservoir Ave. Dial NA 5-5640
MANCHESTER, N. H.

Painting Contractor
for
RAYMOND ELEMENTARY
and
SANBORNTON ELEMENTARY
SCHOOLS

McCarthy Engineering CORPORATION
Plumbing and Heating
Industrial and Residential Installation
Raymond, N. H.
Twinoaks 5-3352

Plumbing - Heating
Ventilating
at
RAYMOND ELEMENTARY SCHOOL
Raymond, N. H.

GAMACHE CONSTRUCTION COMPANY
INCORPORATED
346 CENTRAL STREET
MANCHESTER, N. H.
NA 3-0262

General Contractor
for
WESTON SCHOOL
Manchester, N. H.
RAYMOND ELEMENTARY SCHOOL
Raymond, N. H.
Junior High School, Sanford, Maine

DESCRIPTION:
Reinforced Concrete Foundations, Reinforced Dampproofed Concrete Floor Slabs, Structural Steel Frame, Precast Concrete Insulating Roof Decking, Twenty-Year Bonded Roof, Lead Coated Copper Flashings, Aluminum Sash and Curtain Walls; Brick facing with Cinder Tile Backing, Cinder Tile Interior Partitions, acoustical

<table>
<thead>
<tr>
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<th>Cost Per C.</th>
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TOTAL VOLUME: 603,527 cu. ft.—TOTAL FLOOR AREA: 39,946 sq. ft. —CEILING HEIGHTS: Classrooms 10'-0"; Activities 18'-0"; Shop 12'-0".

Irving W. Hersey Associates, A.I.A., Architects - Durham, N. H.
CAMILLO PROFENNO CO., PORTLAND, MAINE
GENERAL CONTRACTOR
In the Town that Refused to Die . . .

SANFORD, MAINE

Is A New JUNIOR HIGH SCHOOL

And from Committee Planning, to Design, Construction and Completion, all Interested Parties Wanted THE BEST at Reasonable Cost in that All Important Item HEATING

THE RESULT: Powermaster

THROUGH

CRAIG SUPPLY CO., INC.
99 MADBURY ROAD - DURHAM, N. H.
Men's Dormitory, University of New Hampshire

DESCRIPTION:
Reinforced Concrete Structure and Floor Slabs, Water Struck Face Brick with Plastered Clay Tile Backing, Sprayed-Plastered Ceilings. Toilet areas have structural glazed Tile Partitions with Ceramic Tile Floors. Stairwells have Structural Glazed Tile Facing and Terrazzo Floors. Asphalt Tile Floors except as noted. Interior Partitions are Steel Studs (plastered) and Cinder Tile. The Lounges and adjoining Corridors have a Wood Dado. Steel Interior Door Frames, Aluminum Sash with Wood Frames and Trim, Wood Cornice, Colonial Entrances, Steel Wardrobes, Asbestos-Plastic Shingles, Wood Roof Boarding. Intercom and Fire Alarm Systems, extension of present Campus-Heating System (steam), Plumbing System 231 Fixtures.

<table>
<thead>
<tr>
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TOTAL VOLUME: 697,981 cu. ft.—TOTAL FLOOR AREA: 74,271 sq. ft.
—CEILING HEIGHTS: 8'-0" and 9'-2".

Irving W. Hersey Associates, A.I.A., Architects - Durham, N. H.
BLANCHARD STEBBINS, INC., MANCHESTER, N. H.
GENERAL CONTRACTOR
CONNIE'S CEMENT FLOOR CO.
J. "Connie" Griffith
Suncook, N. H. Dial HU 5-9444
Monolithic • Granolithic • Metallic

NEW DORMITORY for MEN
UNIVERSITY of NEW HAMPSHIRE
Durham, N. H.

Serving the Architects,
Contractors, and Engineers of
New England

BLANCHARD STEBBINS, INC.

Commercial and Industrial Work
330 Lincoln Street Dial NA 3-2273
MANCHESTER, N. H.

General Contractor
MEN'S DORMITORY
University of New Hampshire
Durham, N. H.
Build with Brick and Tile

Face Brick – Facing Tile – Flue Lining
Metal Specialties – Sewer Pipe

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.