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ARTHUR E. SWANSON, Manager
School Costs Issue

Through the cooperation of the Architects, General Contractors and Sub-Contractors, and with an assist from Paul E. Farnum of the State Board of Education, New Hampshire Architect is again publishing an analysis of the costs of new schools and additions in New Hampshire.

School board members in every community in the Granite State should profit from this opportunity to study the costs of school construction in the cities and towns represented in this issue.

At the same time it affords the architects and contractors an opportunity to exchange approximate costs with each other.
The President's Message

After a year of almost unprecedented activity in building construction, it is good to relax and think of the many factors that have been joined to create this period of prosperity.

There are many of them, some of which are so intangible that they are not realized. We do know, however, the fine people whom we have met and with whom we have worked, some of them old acquaintances and others new. Of these the ones with whom we are most frequently in contact are our good friends the clients and the contractors both of whom are so essential to our profession.

To these good people, and to all others with whom we have been associated throughout the year, the New Hampshire Chapter of the American Institute of Architects extends sincerest greetings and the best wishes of the Christmas season.

[Signature]
The Trend Toward Functionalism in School Design

Alexander J. Majeski, AIA Editor
New Hampshire Architect

Functionalism in design, which has been popularly confused with overemphasis and experiment in architecture, is becoming an important measure of achievement in school planning. This is because the modern school architect does not set out to design a structure in which school children can be housed at minimum financial distress to the school district. Instead, he studies the operation of the educational system and encloses it with a building which can grow and change to meet probable needs over the expected thirty-year life of the structure.

The exterior appearance is important only in its psychological aspect, as far as the children are concerned. However, acceptability by the students is valuable. The exterior style also must be aimed at a thirty-year lifetime for the school. Conservative thinking is probably the best guide here.

Economy in a school building is measured first by initial cost, and second by expense of maintenance and repairs. No intelligent school board would sacrifice educational facilities to get cheap building, and no board would wish to save at the outset only to incur needlessly expensive upkeep and repair costs later.

This gauge of long-term cost applies throughout the building. Terrazo floors no longer are necessary as asphalt tile is cheap to replace and has a life of twenty years, after which it is affordable to replace it. Ventilation, which has been a bugaboo in public schools for years, is readily handled by forced ventilation for all rooms, with janitor control. Green lights indicate that the system is functioning.

Most of the better schools have individual room thermostats to control heat. This is expensive, but more than justified by the results. It is particularly desirable because of the trend toward large glass areas regardless of orientation.

The great saving available in construction is simplicity. This applies to structural components and exterior design, and also means consistency in planning. Another point which may assure economy is engaging the architect before the site is finally selected. The school board is probably better informed as to the location with respect to population centers and bus routes, but the architect usually can help in appraising a piece of property from the standpoint of building on it.

---

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INDUSTRIAL - HYDRAULICS

Sales - Service - Repair

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New Hampshire Continues To Build Schools

All of us who are interested or concerned with the education of youth have been impressed at the way and in the manner in which New Hampshire school districts have provided new school buildings or major additions for the increase in our school population. There is hardly a community that hasn't during the period since 1946 provided more classroom space, modernized or replaced obsolete classrooms, consolidated their pupils into a central building or assigned these problems to either the school board or a local planning committee for further study. During the period following World War II 160 projects have been completed. These of course include all of the new structures and major additions. The following summary shows the yearly expenditures for capital outlay since 1949-50:

<table>
<thead>
<tr>
<th>Year</th>
<th>Elementary</th>
<th>Secondary</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1949-50</td>
<td>$2,960,229.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1950-51</td>
<td>3,480,920.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1951-52</td>
<td>3,175,672.00</td>
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<td></td>
</tr>
<tr>
<td>1952-53</td>
<td>2,733,306.00</td>
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<tr>
<td>1953-54</td>
<td>2,334,786.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1954-55</td>
<td>4,000,000.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

During the next five years we can expect even greater annual capital expenditures for construction. This is a critical period for school districts for a number of reasons.

(1) Many communities have bonded themselves for elementary construction and have left very limited borrowing leeway for their secondary schools.

(2) The cost of school construction has risen markedly since 1946 when $10,000 to $12,000 would build an elementary classroom.

(3) The major burden of construction is now in the junior and senior high school field where the cost per pupil has increased from $800 - $1,000 for elementary construction up to $1,200 - $1,500 or even more for secondary schools depending on the amount of space provided and the quality of construction required.

(4) Reluctance on the part of the small communities to cooperate with each other and work out more efficient housing facilities particularly in the secondary school field.

(5) Lack of an adequate school building aid program to help the poor districts in constructing new classroom facilities.

We are all concerned with the increase in school enrollment within our community. Some areas will experience greater growth than others and consequently a greater burden will be placed upon these particular localities. The following table shows the rate of pupil growth since 1949 projected up to 1965.

<table>
<thead>
<tr>
<th>Year</th>
<th>Elementary</th>
<th>Secondary</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1949-50</td>
<td>54,491</td>
<td>18,823</td>
<td>73,314</td>
</tr>
<tr>
<td>1952-53</td>
<td>60,067</td>
<td>18,991</td>
<td>79,058</td>
</tr>
<tr>
<td>1955-56</td>
<td>68,853</td>
<td>20,304</td>
<td>89,157</td>
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<tr>
<td>1958-59</td>
<td>73,629</td>
<td>22,823</td>
<td>96,452</td>
</tr>
<tr>
<td>1961-62</td>
<td>75,509</td>
<td>25,642</td>
<td>101,151</td>
</tr>
<tr>
<td>1964-65</td>
<td>72,540</td>
<td>29,305</td>
<td>101,845</td>
</tr>
</tbody>
</table>

Today there are about 3,600 teachers in New Hampshire accommodating the 89,000 pupils in our public schools. To house the 101,000 projected into 1964-65 there will be a need for at least 4,300 teachers with as many teaching stations.

New Hampshire architects can feel proud of the manner in which they have helped local communities and this office in providing these many new facilities. We have all learned by doing and all the while (Continued on Page 26)
EYESIGHT IS PRECIOUS...
GOOD LIGHT IS CHEAP

Every architect knows that a modern, efficient lighting system in a schoolhouse is of highest importance, but is a comparatively small item in the total cost of the project.

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
Serving 153,000 customers with dependable, low-cost ELECTRICITY
DESCRIPTION:

Footings and foundation walls reinforced concrete; cafeteria, steel frames; roof framing, long-span joist; exterior walls, brick veneer with cinder block backup. Classroom wing, brick veneer cinder block backup; load bearing walls, roof framing, open web joists; office section exterior walls of 4" Bestone Veneer, ashler, cinder block backup; roof deck, precast; roofing, 20-year bonded, asphalt builtup roofing. Interior partitions are cinder block, 4'-0" glazed tile dado. Toilet rooms ceramic tile floors and walls; floor-covering, asphalt tile; ceilings, acoustical plaster; door frames interior, steel; sash, aluminum; lighting, incandescent fixtures; heating, one pipe steam individual room control; ventilation, mechanical in classrooms, toilet rooms and cafeteria. Folding tables, inwall, in cafeteria; wardrobe 12' unit each classroom. Teacher storage, 4' unit each classroom. Sink and fountain unit, stainless steel sink with hot and cold water, with bubbler in each room.

<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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<tr>
<td>STRUCTURE</td>
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<td>$.58</td>
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<td>PLUMBING</td>
<td>6,700.00</td>
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<td>.036</td>
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<td>HEATING AND VENT</td>
<td>16,600.00</td>
<td>12.3</td>
<td>1.32</td>
<td>.09</td>
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<tr>
<td>ELECTRICAL</td>
<td>5,610.00</td>
<td>4.2</td>
<td>.47</td>
<td>.029</td>
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<tr>
<td>TOTAL COST OF BUILDING</td>
<td>$134,866.00</td>
<td>100</td>
<td>$10.77</td>
<td>$.735</td>
</tr>
</tbody>
</table>


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

DAVID W. DAVISON, MANCHESTER, N. H.
GENERAL CONTRACTOR
ERIC ANDERSON  
482 Reservoir Ave.  
Manchester, N. H.  

Tel. 5-5640  

It was a pleasure to work with  
Alexander Majeski, Architect  
and  
David Davison, General Contractor  
as  
Painting Contractor  
for  
BEDFORD MEMORIAL SCHOOL  

DAVID W. DAVISON  

449 HAYWARD STREET  
MANCHESTER, NEW HAMPSHIRE  

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and
Goffstown Elementary School

Beautiful STYLNON TILE

★★★★
for
Dame School, Concord
Charlotte Avenue School, Nashua
Fairgrounds School, Nashua
Goffstown Elementary School
Somersworth High School
★★★★

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DERRY, N. H.
Frank J. Indoccio, Pres.

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Charlotte Avenue School, Nashua
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Somersworth High School
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PITTSBURG GLAZING

will be found in many New Hampshire Schools
including
Bedford Memorial School
Exeter High School
Goffstown Elementary School
Pembroke Academy
Charlotte Avenue and Fairgrounds Elementary Schools, Nashua

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

The original new Dame School was erected in 1941. A year earlier the Concord School Board had held a formal design competition with Dean Walter McCorkack of M.I.T. as professional advisor. This was won by the Concord firm of Lyford and Magenau.

The recently completed two-room addition, which is the third stage of a planned expansion, included boys' and girls' toilets, teachers' room and toilet, and alterations to existing end classroom. Materials were kept similar to existing work, brick exterior, wood windows, with asphalt tile and ceramic tile flooring, structural facing tile and concrete block partitions, acoustical tile ceilings, etc. Glass blocks over the low toilet roof light up the corridor. One exception was the roof which was kept flat, after careful study by the committee, and after estimates showed an approximately saving of $2,400.00 as compared with a pitched roof.

An unusual plan feature is the outside door in boys' and girls' toilets. This is an experiment, requested by the City Recreation Department to avoid the cost of providing separate toilets for the nearby playground and is a good example of the current trend to broaden the use of school facilities for community use.

<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>
</tr>
</thead>
<tbody>
<tr>
<td>STRUCTURE</td>
<td>$34,688.95</td>
<td>78.2</td>
<td>$11.51</td>
<td>$.90</td>
</tr>
<tr>
<td>PLUMBING, HEAT., VENT</td>
<td>8,600.00</td>
<td>19.4</td>
<td>2.86</td>
<td>.22</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td>1,060.00</td>
<td>2.4</td>
<td>.35</td>
<td>.03</td>
</tr>
<tr>
<td>TOTAL COST OF BUILDING</td>
<td>$44,348.95</td>
<td>100.0</td>
<td>$14.72</td>
<td>$1.15</td>
</tr>
</tbody>
</table>

TOTAL VOLUME: 38,472 cu. ft.—FLOOR AREA: 3,012 sq. ft.—CEILING HEIGHT 11'-1" Class Rooms, 7'-6" Teachers' Room.

Lyford and Magenau, A.I.A., Architects - Concord, N. H.

FOSTER AND BAMFORD, INC., CONCORD, N. H.

GENERAL CONTRACTOR
Francoeur-Gill Co., Inc.
214 Union Ave. Tel. 1090
LACONIA, N. H.

Plumbing and Heating Contractors for ALTON ELEMENTARY SCHOOL
DAME SCHOOL, CONCORD

Foster & Bamford, Inc.
71 Clinton St. Dial CA 4-1031
Concord, N. H.

General Contractor — for —
DAME SCHOOL, CONCORD

Millwork for Addition To Dame School furnished by Concord Lumber Co. Concord, N. H.
Dial CA 5-5559

Superior Electric Co.
Tel. CA 4-0451 10 Warren St.
CONCORD, N. H.

Electrical Contractor for
DAME SCHOOL, CONCORD

Preston W. Colbroth Clyde E. Fitts

“Serving Local Builders for over Half A Century”
High School Entrance and Courtyard

SENIOR HIGH SCHOOL ADDITION TO PRESENT TUCK SCHOOL - EXETER

DESCRIPTION:

Outside walls—face brick and concrete block; floor construction of Basement—reinforced waterproof concrete slab on earth covered with asphalt tile throughout excepting toilets and showers which have ceramic tile: First floor—reinforced waterproof concrete slab on earth with floor covering of asphalt tile and ceramic tile and portion-open truss joists with Steeltex and concrete; Second floor—open truss joists, Steeltex and concrete covered with asphalt tile excepting toilets which have ceramic tile floors and dadoes; Corridors of first and second floor—Vitratile dadoes, locker height; steel stairs with asphalt tile treads and smoke screens; roof—Douglas fir rafters, planking or roofing with insulation, 20-year tar and gravel roof, flashing and drip edge—copper; interior partitions—concrete block painted; door frames and trim—metal combination; built-in steel lockers in Corridors; ceilings—J. M. Fibertone acoustic panels; windows—structural wood in school portion, steel in Gymnasium and Locker Room portion; plumbing—30 water closets, 23 lavatories, 13 urinals, 13 sinks, gang showers off Boys Locker Room, separate showers off Girls Locker Room, 7 drinking fountains; heating—new Boiler Room with two-pipe vented return steam and with steam and returns connection to present High School; electric—rigid conduit, ventilation fans.

<table>
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<tr>
<th>ITEM</th>
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<th>% of Total Cost</th>
<th>Cost Per Sq. Ft.</th>
<th>Cost Per Cu. Ft.</th>
</tr>
</thead>
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<tr>
<td>STRUCTURE</td>
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<td>$7.10</td>
<td>$.426</td>
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<td>PLUMBING,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEATING AND VENT</td>
<td>136,939.00</td>
<td>22.0</td>
<td>2.47</td>
<td>.148</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td>52,223.00</td>
<td>8.8</td>
<td>.93</td>
<td>.056</td>
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<tr>
<td>TOTAL COST OF BUILDING</td>
<td>$583,338.28</td>
<td>100.0</td>
<td>$10.50</td>
<td>$.63</td>
</tr>
</tbody>
</table>


FLOOR HEIGHTS: Ground floor to 1st floor, 10' 5"; First floor to 2nd floor, 11' 5"; Gymnasium, 23' to bottom of trusses.

ALFRED T. GRANGER Associates, A.I.A.
Architects and Engineers
Hanover, N. H.
ANOTHER
FINE SCHOOL BUILDING
BY

SWANBURG
CONSTRUCTION CORP.
Manchester, N. H.

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LYONS IRON WORKS, Inc.
STEEL STRUCTURES DESIGNED AND FABRICATED
ARCHITECTURAL AND ORNAMENTAL IRON
Office and Works
MANCHESTER NEW HAMPSHIRE

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for the Construction of the following Schools

BEDFORD MEMORIAL SCHOOL         DAME SCHOOL, CONCORD
GOFFSTOWN ELEMENTARY SCHOOL        PLYMOUTH GYMNASIUM
KEENE TEACHERS COLLEGE             TUCK HIGH SCHOOL, EXETER
PEMBROKE ACADEMY                   SOMERSWORTH HIGH SCHOOL
ELEMENTARY SCHOOLS AT NASHUA
Entrance to Talbot Gym.

ALFRED T. GRANGER Associates, A.I.A.
Architects and Engineers
Hanover, N. H.

SWANBURG CONSTRUCTION CORP., MANCHESTER, N. H.
GENERAL CONTRACTOR

16
Another
GOOD
ROOF
by
THERRIEN
ROOFING and SHEET METAL WORK

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199 Hayward St.  Tel. 3-6193
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W. J. PARENTEAU
MANCHESTER, N. H.
Res: 88 Belmont St.  Shop: 147 Maple St.
Dial 2-9413  Dial 2-8130

Plumbing and Heating
Contractors
for
TUCK SENIOR HIGH SCHOOL
EXETER, N. H.

J. Hodge Company, Inc.
Sundial Avenue
Manchester, New Hampshire

MILLWORK
for
Exeter High School
and
Goffstown Elementary School

Wardrobe and Teacher Storage Units
for Bedford School
DESCRIPTION:

This is one of two identical schools erected simultaneously in the City of Nashua. The first stage of construction was completed in 1954 and consisted of 7 classrooms, multi-purpose room, administrative offices, health suite, etc. The second stage of construction has just been completed and consists of 7 additional classrooms, toilet rooms and conference room. Construction Details: Concrete foundations, concrete floor slabs, exterior walls of brick, with cinder block backers, roof frame of steel joists with gypsum plank deck, built-up roofing, aluminum awning windows, asphalt tile floors, acoustical tile ceilings, glazed structural tile wainscots, enameled steel chalkboards, steel lockers, concentric ring incandescent fixtures, unit ventilators.

<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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<tbody>
<tr>
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<td>$9.98</td>
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<tr>
<td>PLUMBING,</td>
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<td></td>
<td></td>
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</tr>
<tr>
<td>HEATING AND VENT</td>
<td>24,776.00</td>
<td>20.</td>
<td>2.76</td>
<td>.18</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td>8,611.00</td>
<td>7.</td>
<td>.96</td>
<td>.06</td>
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<tr>
<td>TOTAL COST OF BUILDING</td>
<td>$122,807.00</td>
<td>100.</td>
<td>$13.70</td>
<td>$.91</td>
</tr>
</tbody>
</table>

TOTAL VOLUME: 134,700 cu. ft.—FLOOR AREA: 8,984 sq. ft.

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

BLANCHARD STEBBINS, INC., MANCHESTER, N. H.
GENERAL CONTRACTOR
Another GOOD ROOF

by

THERRIEN

ROOFING and SHEET METAL WORK

A. W. Therrien Co.

199 Hayward St. Tel. 3-6193
Manchester, N. H.

CHARLES H. AUSTIN, INC.
ESTABLISHED 1893
ELECTRICAL INSTALLATIONS AND SUPPLIES
178 MAIN STREET
NASHUA, N. H.

Electrical Contractor

— for —

Nashua's

Two New Elementary Schools

BLANCHARD STEBBINS, INC.

COMMERCIAL AND INDUSTRIAL WORK

330 Lincoln Street Dial 3-2273
MANCHESTER, N. H.

GENERAL CONTRACTOR

CHARLOTTE AVENUE ELEMENTARY SCHOOL
FAIRGROUNDS ELEMENTARY SCHOOL
Both at Nashua
FAIRGROUNDS ELEMENTARY SCHOOL - NASHUA

DESCRIPTION:

This is one of two identical schools erected simultaneously in the City of Nashua. The first stage of construction was completed in 1954 and consisted of 7 classrooms, multi-purpose room, administrative offices, health suite, etc. The second stage of construction has just been completed and consists of 7 additional classrooms, toilet rooms and conference room. Construction Details: Concrete foundations, concrete floor slabs, exterior walls of brick, with cinder block backers, roof frame of steel joists with gypsum plank deck, built-up roofing, aluminum awning windows, asphalt tile floors, acoustical tile ceilings, glazed structural tile wainscots, enameled steel chalkboards, steel lockers, concentric ring incandescent fixtures, unit ventilators.

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</thead>
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<td>73.</td>
<td>$9.98</td>
<td>$.67</td>
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<tr>
<td>PLUMBING, HEATING AND VENT</td>
<td>24,776.00</td>
<td>20.</td>
<td>2.76</td>
<td>.18</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td>8,611.00</td>
<td>7.</td>
<td>.96</td>
<td>.06</td>
</tr>
<tr>
<td>TOTAL COST OF BUILDING</td>
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<td>100.</td>
<td>$13.70</td>
<td>$.91</td>
</tr>
</tbody>
</table>

TOTAL VOLUME: 134,700 cu. ft.—FLOOR AREA: 8,984 sq. ft.

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

BLANCHARD STEBBINS, INC., MANCHESTER, N. H.
GENERAL CONTRACTOR
Lathing and Plastering

Bedford Memorial School
Exeter High School
Nashua Elementary Schools
Goffstown Elementary School
Somersworth High School

— by —

P. H. McGranahan
Company, Inc.

555 Valley St.  Manchester, N. H.
Dial 2-9373

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by
ECONOMY SYSTEM OF LATHING
Manchester, N. H.

R. C. Peabody Co., Inc.

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Contractors

Sales  Installation  Service

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Manchester, N. H.

Plumbing, Heating and Ventilating
Contractor
for
NASHUA ELEMENTARY SCHOOLS
and
PEMBROKE ACADEMY

OUR SPECIALTY IS COMMERCIAL AND RESIDENTIAL FLOORING INSTALLATIONS

The Asphalt Tile for the Schools Listed Below was

Installed by

98 Main St., Nashua  Tel. TUxedo 2-1731
1040 Elm St., Manchester  Tel. 5-9074
62 Congress St., Portsmouth  Tel. 392

PEMBROKE ACADEMY — SOMERSWORTH SCHOOL — GOFFSTOWN SCHOOL
BEDFORD SCHOOL — EXETER HIGH SCHOOL — LITTLETON SCHOOL
CHARLOTTE AVE. AND FAIRGROUNDS ELEMENTARY SCHOOLS, NASHUA

Elliott's Furnishes and Installs All Types of Floor Coverings,
Wall Tiles, Carpets and Venetian Blinds.
ELEMENTARY SCHOOL - GOFFSTOWN

DESCRIPTION:

Ten room unit with an all purpose room. There are two classrooms on the Ground Floor; an all purpose room with kitchen adjacent, medical unit, kitchen storage, boys and girls toilets, heating rooms, janitor's room and storage rooms are also included on the Ground Floor. The First Floor has eight classrooms, superintendent's office and waiting room, library, girls and boys toilets, storage rooms. Four lower grades have individual toilets for each classroom.


ITEM

<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: 274,600 cu. ft.—FLOOR AREA: Ground Floor 8,314 sq. ft.; First Floor 12,762 sq. ft.—FLOOR HEIGHTS: Ground Floor to First Floor 11'-9"; First Floor to Ceiling 10'-6"+

Carl E. Peterson, A.I.A., Architect - Manchester, N. H.

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

D. G. HOULE COMPANY
Bonded Roofers

ROOFING — SIDING — SHEET-METAL — FLOORING

Lynchville Road — Dial 2-9163 — Grasmere, N. H.

ROOFING CONTRACTOR
for
BEDFORD MEMORIAL SCHOOL
GOFFSTOWN SCHOOL
NEW BOSTON SCHOOL
HOLDERNESS SCHOOL, PLYMOUTH
ARROW NEEDLE MFG. COMPANY, MANCHESTER
BURKE SHOE COMPANY, RAYMOND
DESCRIPTION:

Dormitory for 150 students with 75 double rooms, proctor’s suite, lounge and recreation room, laundry room, lobby and two stair towers. Foundation footings, walls and perimeter trench concrete; 10” cavity type exterior walls, 4” brick and 4” cinder concrete blocks; Structural system Youzt-Slick Lift Slab Method; Columns 8x8 structural angles welded, first floor 4” reinforced concrete, second and third floor and roof reinforced concrete flat plate design; Interior partitions truss steel stud, rock-lath and light weight plaster; Ceramic tile floors and wainscot in toilets, "Spectra Glaze" blocks in stair towers; Flooring asphalt tile and vinyl asbestos; Ceilings acoustical tile; Exterior doors aluminum, interior doors wood with metal frames; Windows aluminum double hung and projected; Electric rigid conduit and incandescent lighting, fixtures included; Heating steam (central plant) with fin type baseboard radiation; Plumbing 21 water closets, 33 lavatories, 12 urinals, 12 showers, 2 tubs; Built-in furniture 150 wardrobes, storage units, dressers and bookshelves, used as room dividers.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>Cost</th>
<th>% of Total Cost</th>
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<th>Cost Per Cu. Ft.</th>
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<td><strong>TOTAL COST OF BUILDING</strong></td>
<td><strong>$276,400.00</strong></td>
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<td><strong>$11.97</strong></td>
<td><strong>$1.316</strong></td>
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</tbody>
</table>


John R. Holbrook, A.I.A., Architect - Keene, N. H.

THE MacMILLIN COMPANY, INC., KEENE, N. H.
GENERAL CONTRACTOR
ROOFING and METAL WORK
MEN’S DORMITORY
KEENE TEACHERS COLLEGE
by
Brattleboro Roofing
and
Sheet Metal Co., Inc.

Plumbing and Heating
— for —
MEN’S DORMITORY
KEENE TEACHERS COLLEGE

Installed by

RIVERS and HENRY

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

THE MacMILLIN COMPANY, Inc.
BUILDERS

28 MECHANIC STREET  KEENE, NEW HAMPSHIRE

BUILDERS
of
Men’s Dormitory Keene Teachers College
and
North Walpole Elementary School.
New Hampshire Schools —
(Continued from Page 6)

made improvements in the classroom space. I think the most serious problem is the sacrifice of quality to get this additional space. Many times local school building committees expect the impossible. Elementary classrooms should be larger than they were prior to World War II. We used to plan a classroom area with a little more than 600 square feet for 35 pupils. Today we feel that an elementary classroom needs at least 800 square feet to carry on the kinds of things that go on in an elementary school. Movable furniture is now taken as accepted practice and individual room toilets for small children are rapidly becoming commonplace in elementary schools. There are now very few schools of six or more classrooms that do not have an activity room and a well equipped kitchen, while a teachers’ room, and a place for the school nurse and the principal is almost a must. All of these kinds of things have increased the per pupil cost of schools.

The New Hampshire legislature in 1955 enacted three laws which should be of particular interest to architects and school administrators. The Municipal Bonds Statute, Revised Laws, Chapter 72 was amended for school districts to provide in RSA Chapter 33 the following important changes:

(1) Debt limit—Cities and school districts shall not incur net indebtedness for school purposes to an amount at any one time, exceeding 3% of said valuation except with approval of the board of investigation. Such debt limitation may be increased with the approval of this board to an amount not exceeding 4.5%.

(2) Debt limit—Computation. (a) The debt limitation shall be based upon the applicable last locally assessed valuation of the municipality as last equalized by the tax commission. (b) Whenever several municipalities cover identical territory, each corporation shall so exercise the power
(Continued on Page 28)
Fabricated Steel
Products Company
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

The
Loyal Appliance Co.
6 Main St. Alpine 4-9511
BRATTLEBORO, VT.

Electrical Contractors
— for —
MEN'S DORMITORY
KEENE TEACHERS COLLEGE

GLASS and GLAZING
— for —
Dame School, Concord
Men's Dormitory
Keene Teachers College
Plymouth Gymnasium
— by —
Adams Glass Co., Inc.
Concord, N. H.
7 Odd Fellows Ave. — Dial CA4-1062

"MONADNOCK BLOCKS"
CONCRETE — CINDER

Made to Meet A.S.T.M. Requirements

Arthur Whitcomb, Inc.
725 Main St. Keene, N. H.
Phone 110
New Hampshire Schools—
(Continued from Page 26)

to increase its debts so that the aggregate net indebtedness of such municipal corporations shall not exceed 7.25% of the valuation of the taxable property.

(3) The first payment of principal on any loan shall be made not later than 2 years and the last payment not later than 30 years after the date of issuance.

The new School Building Aid Statute (RSA Chapter 198) provides an annual grant for the payment of debt service for school construction with the following features.

(1) The amount of the annual grant to any school district or city maintaining a school department is a sum equal to 20% of the amount of the annual payment of principal issued for the cost of construction and 40% for cooperative school districts. Construction shall include the acquisition and development of the site, construction of new buildings, additions to existing buildings providing for additional pupil capacity, architectural and engineering fees, purchase of equipment and other costs necessary for the completion of the building as approved by the state board of education.

(2) Any school district which desires to avail itself of the grant shall submit its plans and specifications and make application in writing to the state board of education on such forms as the board may prescribe for the approval of the plans and specifications. The state board of education shall approve such costs as it deems necessary. Necessary costs shall be computed on the basis of the pupil capacity of the building multiplied by a per pupil allowance. Pupil capacity shall be based upon the square footage per pupil and/or pupil stations including laboratories and shops ad-

THE PERFECT TEAM BY MARTIN-SENOUR

Now ... Paint 2 coats, prime and finish, right around the room in only one day!

"QUICK-SEALER and PRIMER"
No. 2646

Right...it's done with Nu-Hue Quik-Sealer
Right...it's a primer and a sealer
Right...

it dries to recoat in only 2 hours

SEAMANS SUPPLY COMPANY — Distributors
Manchester, New Hampshire
Every bit of space is "put to work" in the classroom. The colorful storage cabinets by Brunswick can be used as room dividers or supplementary work surfaces . . . and can be easily moved where you want them when you want them. Brunswick furniture stacks, nests and groups . . . creates free space quickly, simplifies storage, facilitates maintenance. A complete line of modern furniture.

Represented by

Robert A. Bennett, Inc.
Hurricane Road — Tel. 400 — Keene, New Hampshire
DESCRIPTION:


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

TOTAL VOLUME: 365,763 cu. ft.—FLOOR AREA: 20,889 sq. ft.—DATE OF BIDS: July 1, 1955.
Alterations to existing building are included in new construction costs.

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

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

GENERAL CONTRACTOR
FOOD SERVICE EQUIPMENT
and
DINING ROOM FURNITURE
for —
HOTELS
SCHOOLS
RESTAURANTS
INSTITUTIONS

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MANCHESTER, N. H.

"If serving people is your business
... serving you is our business."

MacArthur and Sons
Penacook, N. H.
188 So. Main St. Dial PL3-4411

Painting Contractors
— for —

Pembroke Academy

Harvey Construction Co., Inc.

450 Valley Street
MANCHESTER, N. H.

GENERAL CONTRACTOR
FOR

PEMBROKE ACADEMY GYMNASIUM
and

SCHOOL ALTERATIONS
DESCRIPTION:
Concrete footings, pipe tunnel, tank room; exterior walls cinder concrete blocks and face brick; slate sills; interior partitions glazed tile and cinder concrete blocks; finishes on cinder concrete blocks include paint, plaster, ceramic tile, and glazed facing tile; end wall of gymnasium-auditorium opposite stage acoustically treated; end walls of gymnasium-auditorium covered with safety cushion wainscot; ceilings include plaster, smooth tile and acoustical tile; floor construction in general is concrete on fill; minor rooms not on fill framed with concrete framing and with wood framing; flooring includes concrete, quarry tile, ceramic tile, asphalt tile, and wood; twenty year bonded and insulated roof with extruded aluminum copings; aluminum sash; wood, steel, and aluminum doors; metal toilet partitions; steam and forced air heat, steam supplied by college's central heating plant; electric system includes stage lighting and sound system; plumbing includes water heating equipment in tank room; pocket, framing and power provided for future folding partition in gymnasium-auditorium.

ITEM

<table>
<thead>
<tr>
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<th>Cost Per Cu. Ft</th>
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<td>$228,239.00</td>
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</table>

TOTAL VOLUME: 508,509 cu. ft.—FLOOR AREA: 26,568 sq. ft.—DATE OF BIDS: June 30, 1955.
CEILING HEIGHTS: Gymnasium-auditorium 22'-0"; drama shop 15'-2"; stage (above stage floor) 27'-2"; group music room 16'-9"; locker rooms 10'-4".

Norman P. Randlett, A.I.A., Architect - Laconia, N. H.
WINSTON P. TITUS, LACONIA, N. H.
GENERAL CONTRACTOR
CHARLES A. GOVE, INC.
Electrical Contractor Wiring Supplies
367 Union Ave. Phone 610
Laconia, N. H.

SAFWAY STEEL SCAFFOLDS
Sold — Rented — Erected

Electrical Contractor
— for —
PLYMOUTH GYMNASIUM

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HEATING & PLUMBING CO., INC.
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Plumbing, Heating and Ventilation
Contractors - Engineers
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PLYMOUTH GYMNASIUM
Serving Northern New Hampshire in Domestic,
Commercial and Industrial Installations
17-21 Water St. Laconia, N. H.
Tel. Laconia 706

STOKERS OIL BURNERS

WINSTON P. TITUS
GENERAL CONTRACTOR
Specializing in Modern Industrial
and Commercial Construction
Tel. 897
Lakeport, N. H.

GENERAL CONTRACTOR
for
PLYMOUTH GYMNASIUM
SOMERSWORTH HIGH SCHOOL - SOMERSWORTH

DESCRIPTION:

Foundations; Reinforcing Concrete; Structural Frame; Structural Floors; Reinforcing Concrete; Floor and Roof Joists; Steel; Roof Decking; Pre-Cast Insulating Concrete Slabs and Wood; Twenty-year Bonded Roofing; Brick Exterior Wall Facing with Cinder Tile Backing; Cinder Tile Interior Partitions; Asphalt Tile Floors, Classroom Sections; Gymnasium Floors, Rock Maple; Acoustical Tile Ceilings; Steel Interior Door Frames; Aluminum Sash; Interior and Exterior Doors, Wood; Modern Paint Decorations; Complete Modern Electrical including Program System and Sound System; Five (5) Zone Forced Hot Water System; Forced Ventilation. Eighty (80) Plumbing Fixtures.

(See Plans on Page 36)

<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: 751,235 cu. ft.—FLOOR AREA: 47,913 sq. ft.—CEILING HEIGHTS: First Floor 10'-0"; Second Floor 10'-0"; Gymnasium 20'-0".

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

CARON CONSTRUCTION CO., INC., MANCHESTER, N. H. GENERAL CONTRACTOR
SCHOOLS FEATURED IN THIS ISSUE WHICH WERE BUILT WITH
DENSMORE FACE BRICK AND NATCO GLAZED TILE

- Exeter High School — NATCO Clear Glaze Facing Tile
- Somersworth High School — DENSMORE Sandstruck Face Brick
- Elementary Schools (2), Nashua — DENSMORE Waterstruck Face Brick and NATCO Glazed Tile
- Dame School, Concord — DENSMORE Sandstruck Face Brick

DENSMORE BRICK COMPANY
Brick Manufacturers
Distributors For All Clay Products
Lebanon New Hampshire

CARON CONSTRUCTION CO., INC.
General Contractors and Builders
161 BAKER STREET
MANCHESTER, NEW HAMPSHIRE
PHONES: 2-4073 — 2-8475

GENERAL CONTRACTORS
for
SOMERSWORTH HIGH SCHOOL
THE LITTLE RED SCHOOL HOUSE

A handsomely illustrated popular article on modern school buildings that gives full credit to the architectural profession appeared in the October issue of McCall's magazine. Answering the question, "What's happened to the little red schoolhouse?" the author, Elizabeth Pope, points out that it is being replaced by a new kind of building—one that offers important advantages to teachers, pupils, parents and taxpayers.

She writes, "If stone and steel and glass can bring the focus of education back to the individual, if a school building can give a child a feeling of inner security and warmth, if atmosphere is as important to learning as psychologists say it is, then every parent in the country owes a tremendous debt to the architects who are designing our new schools."
JOHN J. GAFFNY
and SONS
28 Smith St. Tel. 3-1466—2-0098
LAWRENCE, MASS.

Plumbing Contractor
for
SOMERSWORTH HIGH SCHOOL

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Dial 3-0813

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ENGINEERING, INC.
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MANCHESTER, N. H.

HEATING and VENTILATING
CONTRACTOR
for
SOMERSWORTH HIGH SCHOOL

Celotex Acoustical Ceilings
(All Types)

Lumicel Translucent Ceilings

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Insulrock Structural, Insulating, Acoustical Roof Decks

Martin Parry Cemesteel Movable Office Partitions

PITCHER and COMPANY, Inc.
67 Rogers St., Cambridge, Mass., Tel. University 4-9733
GOFFSTOWN, N. H. — WORCESTER, MASS. — PROVIDENCE, R. I.
N. H. Chapter A. I. A. Committees
For 1955 - 1956

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a Finance Robert Snodgrass
b Jury of Fellows Eric T. Huddleston
c Public Relations Stephen P. Tracey
d Chapter Committee on Public Relations Alexander J. Majeski
e By Laws Maurice E. Witmer
f Board of Examiners John D. Betley
g Chapter Committee on Membership Willis E. Littlefield

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a Architectural Competitions Edward B. Miles
*b Urban Design & Housing W. Brooke Fleck
*c Architect & Government Richard Koehler
*d Collab. with Design Professions Margaret K. Hunter
*e Architectural Practice John R. Holbrook
f Chapter Public Relations Alexander J. Majeski
g N. H. Architect Alexander J. Majeski
h Travelling Exhibit Nicholas Isaak

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Leo P. Provost
a Convention Committee William L. White
b Honor Awards Douglas G. Prescott
c Chapter Affairs Malcolm D. Hildreth

D—EDUCATION & RESEARCH
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a Awards & Scholarships Horace G. Bradt
*b Education Edgar H. Hunter
c Preservation of Historic Buildings William L. White
d Research & Research Material Joseph F. Lampron
e Hospital & Public Health Stewart A. Lyford
*f School Buildings Alfred T. Granger
*g AIA & Producers Council Joseph F. Lampron
h AIA & AGC Carl E. Peterson
*i AIA & Home Building Industry Henry W. Erickson

*-Regional Members.
New Hampshire Architects in a huddle over high school building problems at a recent two-day seminar at Harvard University, sponsored by the New England Council of the American Institute of Architects. Scanning the blueprints of the future are (seated, left to right) Mrs. Margaret K. Hunter, Archer E. Hudson, both of Hanover, and Mrs. Eugene Magenau, Concord. (Standing, left to right) Edgar H. Hunter, Hanover; Shepard Vogelgesang, Dalton; Norman P. Randlett, Laconia; John Davis, New England School Development Council of Harvard; and Eugene Magenau, Concord, Secretary of the New England Council of American Institute of Architects.

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GEORGE C. BENJAMIN
DIAL 2-2273
MANCHESTER, N. H.
justed to elementary, junior high and secondary school facilities. The per pupil allowance shall be based upon the actual cost to the school district or city, or the state average per pupil construction costs of elementary or secondary facilities for the preceding 5 year period, whichever is lower.

The state average per pupil construction cost for a particular school building may be adjusted whenever in the judgment of the state board of education the expenditures for construction, land, equipment and/or furnishings were or are of necessity in excess of average requirements.

(3) The computation shall be based upon the total of approved costs of construction of school buildings for which loans are outstanding for the preceding fiscal year.

(4) If in any year the amount appropriated for distribution is insufficient, the appropriation shall be prorated proportionally among the districts entitled to a grant.

(5) Funds Provided. If unrestricted general fund revenue for the fiscal year ending June 30, 1956 shall exceed the sum of $16,419,527.00 a sum of not exceeding $350,000 is hereby appropriated for the purpose of school building aid for distribution beginning July 1, 1956.

Application forms and information relative to the Building Aid law will be available to all school board members, school administrators and architects early in the year 1956. Since this program will materially affect the tax burden on local school districts it is important that architects be familiar with this program.

The Cooperative School Act originally enacted in 1947 was again amended in 1955 to more nearly meet the needs of school districts. With the increasing school tax burden more and more school administrators, board members and tax payers are becoming interested in the formation of larger administrative units. Already five areas of the state have organized under the provisions of this act. While the units are for the most part small, only involving two or three school districts, each one is a potential center for a larger more effective district.

It is here that architects can be of real service in helping to plan facilities that are flexible, easily expansible and have sufficient area in the site for future growth.

The new 1955 amendment does provide for more extensive borrowing leeway than was available in the old act. Following are the important features of the new statute.

(1) Each cooperative district shall have the power to borrow money and issue its bonds in conformity of Chapter 33 RSA "Municipal Finance Act" and when it shall appear necessary to the board of investigation, indebtedness may be incurred to an amount not to exceed 6% of their assessed valuation as last equalized by the state tax commission.

(2) Whenever only a part of the educational facilities of a local school district are incorporated into a cooperative district, such local district shall continue in existence and function as previously. The cooperative district shall for elementary school purposes incur debt to an amount not exceeding 1 1/2% and for secondary purposes not in excess of 3% of the assessed valuation as last equalized by the tax commission. The event that it shall be necessary, this limit may be increased to 6% for either elementary or secondary construction by the board of investigation as indicated above. Consequently this change in the borrowing does permit the same leeway as in the case of a regular school district. This change in statute now gives added inducement for the formation of such a district.
D. H. McClarty Co.
Heating and Plumbing

JOHNSON
OIL BURNERS

THE FINEST IN HEAVY OIL BURNING EQUIPMENT

57 McCauley St.  Manchester, N. H.
Phone 5-8693

Accounts Started or Added to on or before the 10th, earn a Full Month's Dividend

Accounts insured to $10,000 by the Federal Savings and Loan Insurance Corporation.

Sanel Industrial and Equipment Supply
159 So. Main St. - Concord, N. H.

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