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ALLENSTOWN SCHOOL DISTRICT
ARMAND R. DUPONT MIDDLE SCHOOL
Allenstown, New Hampshire
PROJECT # 18345

March 11, 2019

EDUCATIONAL ASSESSMENT

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ARMAND R. DUPONT MIDDLE SCHOOL - EDUCATIONAL ASSESSMENT

INTRODUCTION

The Allenstown School District has retained Harriman to review the adequacy of the Armand R. Dupont Middle School's facilities to support its educational programming. The study evaluated qualitative and quantitative aspects of the spaces including size, location, configuration, and room amenities. This information is intended to assist the district in planning possible renovations to address building deficiencies and areas that might require reconfigurations, additions or other alternatives.

This analysis compared existing space use with the Department of Education rules and standards. A facility analysis has been conducted under separate cover to determine the condition of the existing facility constraints.

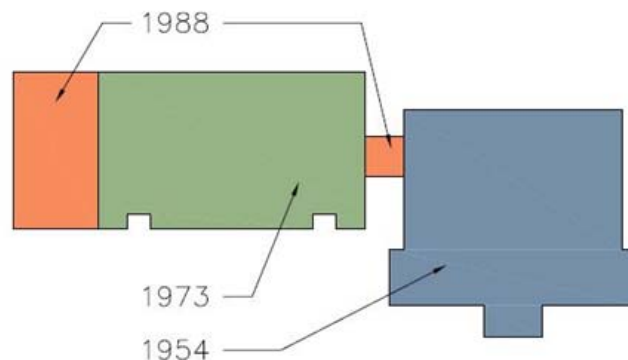
The process of planning for an educational facility can be complex and time consuming. Options can vary greatly; from renovations, additions, new facilities or even year round schooling. It is important, therefore, that the best possible effort be put forth to gather as much information about the existing facility as is available. School districts often do not get opportunities to review facilities in this detail.

This report is a tool to assist the School District in planning decisions. It should be noted that this study examines a point in time in which the data is gathered. Changes in the use of these spaces, or changes in the school program can alter the findings of this report. A thorough review of the educational program should accompany further design studies. This report contains the following sections:

- **Present Space Use**
- **Present Program vs. Educational Guidelines**
- **Present School Capacity**

The above is displayed in chart form for ease of comparing different areas. Each section will explain the various processes used in the study, define the terms used, and offer additional comments and analysis of the data.

YEAR BUILT	FIRST FLOOR	SECOND FLOOR	TOTALS SF
Original 1954	8,140	8,140	16,280
Original 1973	7,260	7,260	14,520
Addition 1988	2,615	2,615	5,230
Totals	18,015	18,015	36,030



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ARMAND R. DUPONT MIDDLE SCHOOL - EDUCATIONAL ASSESSMENT

EXECUTIVE SUMMARY

GENERAL:	Name:	Armand R. Dupont Middle School
	Location:	10 ½ School Street, Allenstown, NH
	Grades:	5 th through 8 th grade
	Enrollment:	160 pupils
	Approximate size:	36,030 square feet on 2.49 acre site
	Year Built:	1954
	Additions:	1973, 1988

The following educational assessments based on the present use of the school as of the date of this report. The space use, as with most schools, is often changing and adapting to shifts in educational programs, staffing and the number of students in the facility.

The present school site was part of the St. John the Baptist Parish and was founded as Saint Jean Baptiste in 1873. A parochial school was founded 1888 as part of the Convent. The present gymnasium and cafeteria were built in 1954 as a gymnasium-parochial center. The two story parochial school was built in 1973. The present Armand R. Dupont Middle School was sold to the Allenstown School District in 1987. The following year the School District added a two story addition at the end of the school towards South Main Street and a connector to the Gymnasium/Cafeteria.

The Armand R. Dupont Middle School (ARD) was original designed as a parochial elementary school and is presently delivering middle school programs using spaces designed originally for other uses. The fifth, sixth, seventh and eighth grades are organized into teaching teams. Our understanding is that there are two teams; fifth and sixth grades on one floor, and seventh and eighth grades on the other floor. Teachers meet during the school day or week to plan instruction collaboratively and to discuss the progress of their students. Teams may schedule time blocks flexibly so that time periods spent on a subject vary according to the demands of the lesson being taught. Other than the addition in 1988 with Science, the physical space in the school facility reflects a traditional elementary school teaching concept. In particular, the primary classrooms still look much like they did when originally constructed as an elementary school in the 1973. However, the curriculum offers middle school instruction and Team Teaching. The current school organization lacks the appropriate space for teacher and student collaboration and team spaces.

This summary recaps the present use of the school facility as of the date of this report. ARD is using the available configuration/square feet of the facility, including cutting into spaces or over spaces, as-is designed originally for other uses.

A Facility Analysis examining the condition of the building and its systems was conducted under a separate cover.

Refer to Educational Deficiency Floor Plans attached in the Appendix of this report.



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General Classrooms Overview

The current enrollment of 160 pupils is slightly under the calculated capacity (90% utilization) of 164 pupils using The NH Department of Education (DOE) rules. The general classrooms are under capacity; with many classrooms seeming overcrowded due to the lack of storage, most notable in the Science CR/Lab areas. It was noted that many cabinets are in poor condition. Of the eight general classrooms, six are slightly under the DOE requirements for minimum square footage.

NOTE: Class size per School Board Guidelines

- For grades 5 through 8: 18 pupils

Using this data to maintain School Board Guidelines the gross calculated capacity of existing classrooms would be 144 pupils with present enrollment of 160 requiring a minimum of one additional classroom.

Specialized Classrooms Overview

Presently some of the specialized classrooms are inadequate, lacking storage as well as other amenities found in current school design standards. These include the following:

Art #107 at 697 square feet is under the DOE recommended minimum 1,200 square feet. The Art room was originally a bowling alley in 1954 as part of the gymnasium-parochial center. It lacks proper storage cabinets to store paints, equipment and supplies. There is only one sink in space and typically there should be a variety of sinks with student stations and a cleaning area. A separate secured storage room should be considered.

Music #210 combines choral and instrumental at 506 square feet and is under the DOE recommended minimum 1,000 square feet. A storage room of ample size for musical instruments, supplies and equipment should be considered in the future design options. Acoustical treatment for walls/ceilings and carpeting would greatly aid in the musical performance of the room. Generally, movable risers and practice rooms would assist with the music program.

Boys Lockers #114 and Girls Lockers #116 were modified from the 1954 gymnasium-parochial center era of construction. Changing rooms not complying with ADA standards were built over shower areas. The spaces include damaged toilet fixtures and poor screening while entering the spaces with poor space utilization. Efforts should be pursued to redesign these spaces.

Stage #207A does not have ADA access, such as a handicap lift. Storage is very limited and depends on the 1,500 +/- square foot attic area above the two rooms adjacent to the stage (Music #210 and P.E. Off/Storage #208).

Other spaces that are typically offered in middle school programs are STEM Labs/Instructional space, Family and Consumer Science, Team areas for collaboration, World Language and Unified Arts.



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Special Services Classrooms Overview

Special Education spaces #110, 205, and 206 have taken over former classrooms ranging from 449 to 868 square feet, which are more than adequate. However, some of the spaces are divided with old partial height partitions, cabinets remaining from classroom layouts are in poor condition, and lighting levels and controls remain from the classroom layouts.

Sped Office #209 has taken over a former storage area in back of the stage. The space is used by two staff with a small conference table. To access the space, one is required to utilize two sets of stairs, with final stair access from the stage; this does not conform to building codes. The Sped Office and Stage are not ADA accessible. The school has made the space quite suitable by providing suspended ceilings with lighting, A/C, and windows with insulated glass. However, the location is difficult to find and noise is most likely an issue.

Core Areas Overview

Library #212 is presently 855 square feet and does meet DOE standards. DOE recommends spaces within the Library include a group instruction room, Librarian office, and equipment storage room. Efforts should be pursued to increase this space by obtaining adjoining spaces.

Kitchen #112 is very small and has no walk-in cooler or freezer and depends upon reach in units. Cafeteria space is needed for a serving line, cashier and condiment station. There is no storage room or kitchen director office.

After hours use of the Gymnasium and Cafeteria through exterior access is from Upper Vest #116 and Lobby #117 and is not ADA accessible. These areas were built in 1954 as gymnasium-parochial centers and the ADA guidelines and codes were not written. Toilet facilities are only available from the 1973 addition. This can be a concern during evening use due to the ability to access to the entire school.

Educational Support Areas Overview

The Administration area meets the DOE recommend 1,200 square feet; the area is presently 1,589 square feet. DOE guidelines include Guidance #106 as part of Administration area; it utilized 867 square feet and has taken over former classrooms similar to Special Education areas, which is much greater than in most middle schools of this size. Per the square footage, it appears to be reasonably functional. However, the large guidance space claims such a large area that the rest of the administration area is quite small. There is a lack of meeting space throughout the school, with only one conference room that utilizes a space away from the Administration area. Additional small conference rooms, storage rooms and collaboration spaces should be considered in future design options.

The Nurse's area is in Health #122 and lacks a proper waiting area and pupil isolation area. The toilet room does not meet ADA requirements.



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Facilities Support Areas Overview

Most toilet facilities do not meet ADA clearance, reach or fixture requirements. There is only one designated staff toilet (#126A) which is located adjacent to the Teachers' Lounge on the first floor. There is no designated staff toilet on the second floor. The number of fixtures is well below current code requirements for both students and staff.

Site Observation

The existing site has limited expandability due to site constraints on all sides; School Street is limited with just 57 feet of frontage, residential properties are on the north side, Town Hall is on the east side, and there are church properties on the south-west and south-east corners. The school sits on 2.5 acre site, well below the 22 buildable acres set forth by the State Department of Education rules and guidelines. Even if the Allenstown School District was to purchase the adjoining two church properties, that would total only 4.415 acres. Parking consists of approximately 27 spaces off School Street; the west lot off South Main Street is used with the permission of the Church.



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PRESENT SPACE USE

The Present Space Use is a look at the spaces in the school relative to the types of programs being offered. It covers all space used for instructional purposes as well as educational and facility support areas. This study is divided into six types of space. Each type of space serves a particular purpose that will later be used in other studies in this report. All of these spaces have been recorded on floor plans from existing drawings, field observations and input from school district administrators and staff, which are included as part of this report. These floor plans are not as-built plans and are for planning purposes only.

A. BASE DATA

1. **ROOM #** - The room number in a rectangular box used by Harriman to identify the space on the floor plans. Numbers in (123) are room numbers presently being used at the school.
2. **ROOM NAME** - The current use assigned to that space for the school year 2019. It is the primary use of the space and many times a space will have different uses during the school year.
3. **AREA** - The size of the space in square feet. This figure was taken from existing drawings. It is not critical that the exact square footage be taken.
4. **PROGRAM** - The type of space that identifies the program use.
 - For instructional use such as grade classrooms, art, music, physical education, science, social studies, English, math, language arts, etc.:
GC = General Classrooms
SC = Specialized Classrooms
 - For special education use such as special needs, OT/PT, speech, behavior, etc.:
SSC = Special Services Classrooms
 - For core areas such as library, cafeteria, gymnasium, multipurpose room etc.:
CA = Core Areas
 - For educational support use such as principal office, nurse's area, guidance, teachers work room etc.:
ESA = Educational Support Areas
 - For facilities support use such as bathrooms, storage, boiler room, data closets, electrical room, janitor's closet, stairs, elevator etc.:
FSA = Facilities Support Areas

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**ARMAND DUPONT MIDDLE SCHOOL
PRESENT SPACE USE**

HARRIMAN - ARCHITECTS + ENGINEERS - PORTSMOUTH, NH

GC = GENERAL CLASSROOMS
SC = SPECIALIZED CLASSROOMS
SSC = SPECIAL SERVICES CLASSROOMS

CA = CORE AREAS
ESA = EDUCATIONAL SUPPORT AREAS
FSA = FACILITIES SUPPORT AREAS

ROOM #	ROOM NAME	AREA SQ. FT.	PROGRAM
101	LANGUAJE ARTS (101)	891	GC
101A	STORAGE TO 101	123	GC
102	SCIENCE CR/LAB (102)	1033	GC
103	MATH (103)	836	GC
104	SOCIAL STUDY (104)	867	GC
105	TECHNOLOGY (105)	867	SC
106	GUIDANCE (106)	867	ESA
107	ART (107)	697	SC
108	CUST/ IT (108)	416	FSA
109	CONFERENCE (109)	269	ESA
110	SPEECH (110)	449	SSC
111	CAFETERIA (111)	1936	CA
111A	TOIL TO 111	14	CA
111B	STOR TO 111	13	CA
111C	STOR TO 111	12	CA
112	KITCHEN (112)	388	CA
113	BOILER (113)	236	FSA
114	BOYS LOCKERS (114)	401	SC
115	CUST SUPPLIES (115)	207	FSA
116	GIRLS LOCKERS (116)	353	SC
116A	SPRINK	83	FSA
117	LOBBY	475	FSA
117A	ELECTRICAL	97	FSA
117B	STOR	20	FSA
117C	STOR	20	FSA
118	UPPER VEST	92	FSA
118A	STOR	46	FSA
118B	STOR	46	FSA
119	WATER RM	28	FSA
120	VESTIBULE	159	FSA
121A	CORRIDOR	565	FSA
121B	CORRIDOR	650	FSA
122	STOR	19	FSA
123	BOYS (1B2)	207	FSA
124	CUST	28	FSA
125	GIRLS (1B3)	239	FSA
126	TEACHERS LOUNGE (117)	342	ESA
126A	TOIL TO 126	23	ESA
127	WORK RM	74	ESA
128	ADMIN RECEPTION (118)	215	ESA
128A	PRINCIPAL	158	ESA
129	STOR	23	FSA
130	VESTIBULE	94	FSA
131	STAIR VEST	88	FSA
132	CORRIDOR	495	FSA
201	MATH	889	GC
201A	STORAGE TO 201	123	GC
202	SCIENCE CR/LAB (202)	1030	GC
203	LANGUAJE ARTS (203)	835	GC

ROOM #	ROOM NAME	AREA SQ. FT.	PROGRAM
204	SOCIAL STUDY (204)	867	GC
205	PRIDE/ TITLE 1 (205)	867	SSC
206	RESOURCE (206)	868	SSC
207	GYMNASIUM (207)	5224	SC
207A	STAGE	900	SC
208	P.E. OFF/ STOR (208)	506	SC
208A	STORAGE TO 208	26	SC
209	SPED OFFICE (209)	281	SSC
210	MUSIC (210)	506	SC
210A	STORAGE	26	SC
211	NURSE (211)	156	ESA
211A	TOIL TO 211	19	ESA
211B	STORAGE TO 211	19	ESA
212	LIBRARY (212)	855	CA
213	SERVER (213)	174	FSA
214A	CORRIDOR	565	FSA
214B	CORRIDOR	650	FSA
215	BOYS	207	FSA
216	GIRLS	239	FSA
217	CUST	28	FSA



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PRESENT PROGRAM vs. EDUCATIONAL GUIDELINES

This study has sorted the spaces into six types. These six types of spaces have specific functions that can be compared to New Hampshire Department of Education (DOE) rules and recommendations. Under EDUCATIONAL GUIDELINES there are minimum square foot and total pupil allocations. This data comes from a number of sources. The primary source is from the *New Hampshire Code of Administrative Rules Ed 321* and *Manual for Planning and Construction Building 2006 by the NH Department of Education*. Other sources may include old standards and/or come from publications by Association for Learning Environments formally The Council of Educational Facilities Planners.

In 2008, lawmakers chose to impose a moratorium on school building aid funding. Lawmakers have continually discussed reinstating the program. A legislative hearing occurred on February 7, 2017 regarding SB 192, a bill to restore school building aid. The bill lifts the moratorium on school building aid in the 2019 biennium. The bill was formally introduced on February 23, 2017 but did not progress further. Most recently, SB 266 was heard in Concord on February 12, 2019, a new bill to restore school building aid. The Senate Finance Committee is now charged with determining funding availability for the bill. For over a decade many school districts have completed school building projects with varying strain on their tax bases due to the moratorium on school building aid funding. It is important to understand if school building aid funding is ever passed that both the New Hampshire Code of Administrative Rules Ed 321 and School District program needs must be met in order to apply for state building aid when and if it resumes.

Computer, voice, and video technologies are now in our schools and are a major teaching resource. Creation of Makerspaces, STEM and STEAM labs are becoming more common. Access to the internet, wireless computer access, interactive projectors using standard white boards, hearing enhancements integrated into classroom sound systems, document cameras, and future technologies will require students and staff to engage in a more flexible learning environment.

The regulations regarding minimum site size approvable for building aid for new construction, including additions to existing buildings for middle schools:

- Minimum site size of ten (10) acres of contiguous buildable land.
- Maximum land acquisition site size limited to twenty-five (25) acres plus one additional acre for each 100 pupils or fraction thereof for the design capacity of the school building.
- In all cases, if the design capacity of the core space is greater than the design capacity of the educational space, the site size shall reflect the higher number.

Based on the present total enrollment of 162 pupils:

Minimum base acres required = 10.00

Present acreage = 2.49

Net recommended shortfall = 7.51



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Maximum base acres allowed = 25.00
162 pupils x 1 acre per 100 pupils = 2.00
Maximum acres allowed = 27.00

NOTE: The minimum required acres must be contiguous buildable land.

ARMAND DUPONT MIDDLE SCHOOL
PRESENT PROGRAM vs. EDUCATIONAL GUIDELINES
HARRIMAN - ARCHITECTS + ENGINEERS - PORTSMOUTH, NH

GC = GENERAL CLASSROOMS
SC = SPECIALIZED CLASSROOMS
SSC = SPECIAL SERVICES CLASSROOMS

CA = CORE AREAS
ESA = EDUCATIONAL SUPPORT AREAS
FSA = FACILITY SUPPORT AREAS

* Indicates min. requirements as specified in NH Code of Administrative Rules Ed 321. Others are recommended minimums from the Manual for Planning and Construction of School Building 2006 by the NH Department of Education.

ROOM #	ROOM NAME	EXIST'G SQ. FT.	PROGRAM	EDUCATIONAL GUIDELINES
101	LANGUAJE ARTS (101)	891	GC	<p>General Classrooms Department of Education (DOE) standard for Middle or Junior High School.</p> <p>a) * Middle or Junior High classroom min. 900 sq. ft., including storage, or 36 sq. ft. per pupil, whichever is greater.</p> <p>b) * Each teacher shall be provided with at least 64 sq. ft. of shared administrative space to be used for lesson preparation and grading student work during periods when that teacher is not conducting classroom instruction. Shared administrative space shall include a desk or other work surface, a seat, and task lighting. This requirement may be fulfilled within educational space if that space is exclusively assigned to one teacher.</p>
102	SCIENCE CR/LAB(102)	1033	GC	
101A	STORAGE TO 101	123	GC	
103	MATH (103)	836	GC	
	CL TO 103	6		
104	SOCIAL STUDY (104)	867	GC	
	CL TO 104	6		
201	MATH	889	GC	
201A	STORAGE	123	GC	
202	SCIENCE CR/LAB (202)	1030	GC	
203	LANGUAJE ARTS (203)	835	GC	
	CL TO 203	6		
204	SOCIAL STUDY (204)	867	GC	
	CL TO 204	6		

ROOM #	ROOM NAME	EXIST'G SQ. FT.	PROGRAM	EDUCATIONAL GUIDELINES
105	TECHNOLOGY (105)	867	SC	<p>Science</p> <p>a) * A science classroom/lab or lab is considered Lab only based on 45 sq. ft. per pupil, 900 sq. ft. min. Lab/CR based on 60 sq. ft. per pupil, 1,200 sq. ft. min. Max. capacity of 24 pupils lab work stations.</p> <p>b) Lab where chemicals or hazardous liquids are must include emergency shower/eye wash.</p> <p>c) A fume hood must be available in all chemistry labs where experiments or demonstrations are conducted.</p> <p>d) Labs require storage & prep space. Often this spaced is shared between two labs. At least 400 sq. ft. is recommended.</p>
	CL TO 105	6	SC	
107	ART (107)	697	SC	
114	BOYS LOCKERS (114)	401	SC	
116	GIRLS LOCKERS (116)	353	SC	
207	GYMNASIUM (207)	5224	SC	
207A	STAGE	900	SC	
208	P.E. OFF/ STOR (208)	506	SC	
208A	STORAGE TO 208	26	SC	
210	MUSIC (210)	506	SC	
210A	STORAGE TO 210	26	SC	

Visual Arts (Art)

- a) Students need a large lab to work. Thirty sq. ft. per pupil must be provided. Allowing the necessary area for equipment, sixty (60) sq. ft. per pupil are required. Min. 1200 sq. ft.
- b) A separate exhaust system is required for a kiln room.
- c) Walk in storage closet is necessary to store equipment and supplies.

Music

- a) Instrumental: National study groups recommend that the height of instrumental music room be 14 to 16 feet. There should be 25 sq. ft. per person. Because of the volume of band sound there should be at least 250 cubic feet per person. Min. 1000 sq. ft.
- b) Consideration for practice rooms 6' x 8' for single instrument & 12' x 12' for ensemble.
- c) Choral: National study groups recommend that the volume of voice sound there should be at least 125 cubic feet per person.
- d) Choral capacity based on 15 sq. ft. per person. Min. 800 sq. ft.
- e) Location of music areas in proximity to stage - on the same level preferably.

Theater

- a) If program is being offered the instructional space can be a general purpose classroom. For full cast rehearsals, a large more open space is preferable. The stage is often used.
- b) Consideration for storage for costumes and props is required.
- c) One or two rooms totaling 600 sq. ft. are recommended for dressing & makeup with sinks & mirrors.

Physical Ed.

- a) Capacity based on 125 sq. ft. per pupil with a max. capacity of 25 pupils. Min. 3800 sq. ft.

General

- a) * Sufficient space shall be provided to properly store athletic equipment, musical instruments, uniforms and other items of school property used by students or activities;

Computer Lab

- a) Capacity based on 30 sq. ft. per pupil with a min. space of 750 sq. ft.

Career and Technical Education (CTE)

- a) Family & Consumer Science min. 1500 sq. ft. (75 sq. ft. per student), recommended 2000 sq. ft. (100 sq. ft. per student). Max. 20-24 students
- b) Technology Education min. 1500 sq. ft. (75 sq. ft. per student), recommended 2000 sq. ft. (100 sq. ft. per student). Max. 20-24 students

World Language

- a) Classroom size 900 sq. ft. min. including storage, or 36 sq. ft. per pupil, whichever is greater.
- b) Variety of working arrangements to accommodate groups of various sizes. Dependent on program.

Note: Capacity and other programs may vary depending upon the school district's educational program.

ROOM #	ROOM NAME	EXIST'G SQ. FT.	PROGRAM	EDUCATIONAL GUIDELINES
110	SPEECH (110)	449	SSC	<p>Special Service Classrooms & Areas</p> <ul style="list-style-type: none"> a) For the most part, pupils should be integrated into all academic programs with the general student population. There should not be distinct spaces for special education with a few exceptions. b) * Exclusive use space shall be provided for speech therapy, physical therapy (PT), occupational therapy (OT) and private counseling. PT and OT may be co-located. c) * Min. total of exclusive space shall be 600 sq. ft. d) * Area for private meetings with parent & staff shall be available, although it need not be used exclusively for special education use. e) * A private office shall be provided for the special education coordinator (Director). e) Physical therapy should provide privacy. A sink and Toilet facility is recommended. f) Other considerations: Life Skills space; this area used to teach basic skills for independent living. One on one instruction spaces. <p>Note: Capacity is depended on the program and needs of the pupil assigned. With main streaming & inclusion (sped pupils in classrooms), may require less SSC space, but larger general & specialized classrooms. <i>Old Standards:</i> - In general capacity was based on 60 sq. ft. per pupil.</p>
205	PRIDE/ TITLE 1 (205)	867	SSC	
206	RESOURCE (206)	868	SSC	
	CL TO 206	6		
209	SPED OFFICE (209)	281	SSC	

ROOM #	ROOM NAME	EXIST'G SQ. FT.	PROGRAM	EDUCATIONAL GUIDELINES
111	CAFETERIA (111)	1936	CA	<p>Library (Media Center)</p> <p>a) * Min. size is 40 sq. ft. per pupil times 10% of the design capacity or a min. of 1,800 sq. ft.</p> <p>b) Recommended sizes for specific area are as follows (not that the total exceeded the 1,800 sq. ft. min.)</p> <ul style="list-style-type: none"> - Circulation desk (200 - 300 sq. ft.) - Gen. reading, research, viewing area & stacks (35 sf/pupil for 10% of the design capacity) - Group instruction room (600-750 sf) - Electronic multimedia production area (500-750 sf) - Office for administrator (150 sf) - Equipment room (500-750 sf) <p>Reading Center</p> <p>a) Every school should have a well-equipped area which students may go for help to become better readers.</p> <p>b) May be in the Library area, where access to materials, equipment and supplies are readily available.</p> <p>Note: Major changes in libraries are occurring due to volumes of books being replaced by access via the Internet. The Library is now becoming a Media Tech Center and the core of the teaching resources. AV equipment are being replaced by affordability of LCD projectors, Smart Boards and wireless technology.</p> <p>Cafeteria</p> <p>a) * Capacity based on 12 to 15 sq. ft. per pupil. Take total sq. ft. and divide by the # of servings.</p> <p>Kitchen</p> <p>a) * Sufficient size to allow the proper installation of all necessary equipment & per state building codes.</p> <p>b) * Adequate dry and cold storage shall be provided to meet the requirements of the food service program including foodstuff and paper products to be purchased in bulk.</p> <p>c) * Chief food service individual shall be provided with administrative space exclusive of storage space and waiting area.</p>
111A	TOIL TO 111	14		
111B	STOR TO 111	13		
111C	STOR TO 111	12		
112	KITCHEN (112)	388	CA	
207	GYMNASIUM (207)	5224	CA	
207A	STAGE	900	CA	
212	LIBRARY (212)	855	CA	

ROOM #	ROOM NAME	EXIST'G SQ. FT.	PROGRAM	EDUCATIONAL GUIDELINES
109	CONFERENCE (109)	269	ESA	<p>Administrative Areas</p> <p>a) Min. amount of administrative office space in a school building shall be 1,200 sq. ft. The min. size shall be based on staff of 6 individuals. For schools with more than 6 staff members add 120 sq. ft. per additional person for office and 60 sq. ft. per person in an open office arrangement.</p> <p>b) * Chief administrative staff person shall be provided with administrative space exclusive of storage space and waiting area.</p> <p>c) * Sufficient storage space shall be provided for general office supplies, text books, classroom equipment and similar items as required for administrative purposes</p> <p>Nurse's Area</p> <p>a) * Min. size of the nurse suite shall be 625 sq. ft. for schools with a design capacity greater than 750 pupils. Nurse suite for school with a design capacity of 750 or less shall be 300 sq. ft.</p> <p>b) * The nurse shall be provided with:</p> <ul style="list-style-type: none"> - Exclusive administrative space - A waiting area - Exam area with a sink - Secure dry & refrigerated storage - Isolation area one cot per 200 pupils <p>c) * Separate restroom meeting current ADA requirements.</p> <p>d) * Min. size of the nurse suite shall be 625 sq. ft. greater than 750 pupils. Min. size of the nurse suite for schools with a capacity of 750 pupils or less shall be 300 sq. ft.</p> <p>e) Access to conference room for consultation and health counseling.</p>
127	WORK RM	74	ESA	
128	ADMIN RECEPTION (118)	215	ESA	
128A	PRINCIPAL	158	ESA	
211	NURSE (211)	156	ESA	
211A	TOIL TO 211	19	ESA	
211B	STORAGE TO 211	19	ESA	
106	GUIDANCE (106)	867	ESA	
	CL TO 106	6		
126	TEACHERS LOUNGE (117)	342	ESA	
126A	TOIL TO 126	23	ESA	
207A	STAGE	900	ESA	
116	GIRLS LOCKERS (116)	353	ESA	
114	BOYS LOCKERS (114)	401	ESA	
210	MUSIC (210)	506	ESA	
210A	STORAGE	26	ESA	

Guidance Area

- a) One counselor's office for every 500 pupils.
Min. 100 sq. ft. office.
- b) Recommended design considerations:
 - Near library/media center to encourage pupil use.
 - Waiting room for receptionist-secretary, work table, shelving for books and bulletins, and filing cabinets.
 - Conference room for 12 people
 - Storage space for testing materials

Faculty Areas

- a) * Each teacher shall be provided with 64 sq. ft. min. of shared administrative space when that teacher is not conducting classroom instruction. This requirement may be fulfilled if that space is exclusively assigned to one teacher.
- b) Teachers area to consume, and possibly prepare meals. meals. Area for teachers to relax and socialize during breaks. A teaches lounge can double as a meeting facility.

ROOM #	ROOM NAME	EXIST'G SQ. FT.	PROGRAM	EDUCATIONAL GUIDELINES
108	CUST/ IT (108)	416	FSA	<p>Facility Support Areas</p> <p>a) * Chief maintenance individual shall be provided with administrative space exclusive of storage space and waiting area.</p> <p>b) * Sufficient dumpsters or other type containers shall be provided to adequately handle refuse based upon the refuse collection schedule.</p> <p>Storage</p> <p>c) * Sufficient storage shall be provided to properly store cleaning supplies, tools, spare parts, unused furniture, equipment not in use, and other like items required for custodial activities.</p> <p>d) Highly dependent on School District's use & needs. Storage of supplies will vary pending bulk ordering supplies, in-house or contracted maintenance & custodial services.</p> <p>Toilet Facilities</p> <p>a) Smaller toilet facilities, spread around the building are preferable to large centralized facilities. Toilet facilities with multiple toilet fixtures are recommended with out doors for better supervision.</p> <p>b) All toilet facilities must meet ADA requirements.</p> <p>Public Use</p> <p>e) Public use of facilities will alter the required toilet facilities, lobbies and exit corridor widths & parking.</p> <p>Technology</p> <p>d) The use of computers and other communication technologies (visual, voice, data and security) will require utility rooms & wiring/equipment rooms and/or other such spaces.</p> <p>Mechanical space</p> <p>e) Mechanical space will vary pending use of roof top units, unit ventilators, use of attics and mechanical mezzanines.</p> <p>Note: Mechanical sq. ft. space required - rule of thumb: On roof 2% of gross building sq.ft.. Inside space 8% of gross building sq. ft.</p>
113	BOILER (113)	236	FSA	
115	CUST SUPPLIES (115)	207	FSA	
116A	SPRINK	83	FSA	
117A	ELECTRICAL	97	FSA	
117B	STOR	20	FSA	
117C	STOR	20	FSA	
118A	STOR	46	FSA	
118B	STOR	46	FSA	
119	WATER RM	28	FSA	
122	STOR	19	FSA	
123	BOYS (1B2)	207	FSA	
124	CUST	28	FSA	
125	GIRLS (1B3)	239	FSA	
129	STOR	23	FSA	
213	SERVER (213)	174	FSA	
215	BOYS	207	FSA	
216	GIRLS	239	FSA	
217	CUST	28	FSA	

Minimum site size and maximum site size for Land Acquisition.

Middle

- * Minimum site size ten (10) acres minimum of contiguous buildable land.
- * Maximum site size twenty-five (25) acres maximum plus one additional acre for each 100 pupils or fraction thereof for the design capacity of the school building.

* In all cases, if the design capacity of the core space is greater than the design capacity of the educational space, the site size shall reflect the higher number.

Present acres at the site 2.5 +/- acres

Minimum base acres required

Minimum size	10.00
Present acres	(2.50)
Additional Acres Req'd.	7.50

Maximum acres allowed

Maximum acres allowed	25.00
Present total enrollment - 204 pupils x 1 acre per 100 pupils	2.00
Maximum Acres Allowed	27.00

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ARMAND R. DUPONT MIDDLE SCHOOL - EDUCATIONAL ASSESSMENT

PRESENT SCHOOL CAPACITY

One of the primary focuses of this study is to determine the present school’s capacity. The standard unit for capacity measurement is the theoretical number of student workstations that the school can accommodate. These are termed “pupil stations”. The space inventory contained in the last study listed all the general classrooms only in which there are workstations that will contribute to the pupil stations. Total current pupil stations are the gross sum of pupil stations in all instructional (classroom) areas as agreed upon. We have not used specialized classrooms or special services classrooms due to the unpredictability of pupils using these spaces. The general classrooms are the pupil’s primary room where they spend most of their instructional time.

A. BASE DATA

All spaces in the facility have minimum square feet allocated per pupil or a minimum pupil capacity for space. The gross pupil count of each space was calculated and then added to determine total gross capacities.

B. GROSS CAPACITY

The gross capacity of each space is calculated using the square footage of the space and dividing it by the square feet per pupil allowed by educational standards. In some areas there are a maximum number of pupils allowed in a type of space. We calculated the lesser of the two numbers.

C. NET PUPIL CAPACITY

It is unrealistic to expect that all classrooms can be utilized to their rated capacity 100% of the time. Therefore, a utilization factor is applied which provides for varying classroom sizes, scheduling patterns, grade size and program options. The Department of Education uses a 90% utilization factor in calculating capacity.

Specialized classrooms, special services classrooms, core areas and educational support areas were not calculated regarding total pupil gross capacity in these spaces.

Armand R. Dupont Middle School Classroom Capacity

Present Enrollment = 160 pupils

	<u>GROSS</u>	<u>NET @ 90%</u>
General Classrooms per DOE	182 pupils	164 pupils

Class Size per School Board Guidelines For grades 5 through 8: 18 pupils	144 pupils
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Using this data to maintain School Board Guidelines, the gross calculated capacity of the existing classrooms would be 144 pupils with present enrollment of 160 requiring a minimum of one additional classroom.

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**ARMAND DUPONT MIDDLE SCHOOL
PRESENT SCHOOL CAPACITY**

HARRIMAN - ARCHITECTS + ENGINEERS - PORTSMOUTH, NH

** Denotes spaces used to calculate pupil stations.

GENERAL CLASSROOMS					GC	
ROOM #	ROOM NAME	SQ. FT.	SQ. FT. PER PUPIL (1)	GROSS CAPACITY	NET PUPIL CAPACITY @ 90%	
TOTALS					182	164
** 101	LANGUAJE ARTS (101)	1,014	36	28		
	101A STORAGE TO 101	123				
** 102	SCIENCE CR/LAB (102)	1,033	60	17		
** 103	MATH (103)	842	36	23		
	CL TO 103	6				
** 104	SOCIAL STUDY (104)	873	36	24		
	CL TO 104	6				
** 201	MATH	889	36	25		
	201A STORAGE	123				
** 202	SCIENCE CR/LAB (202)	1,030	60	17		
** 203	LANGUAJE ARTS (203)	841	36	23		
	CL TO 203	6				
** 204	SOCIAL STUDY (204)	873	36	24		
	CL TO 204	6				

SPECIALIZED CLASSROOMS					SC
ROOM #	ROOM NAME	SQ. FT.	SQ.FT. PER PUPIL (1)	GROSS CAPACITY	NET PUPIL CAPACITY @ 90%
105	TECHNOLOGY (105)	867	30	29	
	CL TO 105	6			
107	ART (107)	697	60	12	
207	GYMNASIUM (207)	5,224	125	42	
207A	STAGE	900	125	7	
208	P.E. OFF/ STOR (208)	506			
208A	STORAGE TO 208	26			
210	MUSIC (210)	506	25	20	
210A	STORAGE TO 210	26			

SPECIAL SERVICES CLASSROOMS				SSC
ROOM #	ROOM NAME	SQ. FT.	SQ.FT. PER PUPIL (2)	MAX # OF PUPILS
110	SPEECH (110)	449	60	7
205	PRIDE/ TITLE 1 (205)	867	60	14
206	RESOURCE (206)	868	60	14
	CL TO 206	6		
209	SPED OFFICE (209)	281		

CORE AREAS				CA
ROOM #	ROOM NAME	SQ. FT.	SQ.FT. PER PUPIL (1)	MAX # OF PUPILS
212	LIBRARY (212)	855	4	214
111	CAFETERIA (111)	1,936	15	129
112	KITCHEN (112)	388		
207	GYMNASIUM (207) (Assembly)	5,224	7	746
207	GYMNASIUM (207) (Assembly)	5,224	15	348
207A	STAGE	900		

EDUCATIONAL SUPPORT AREAS				ESA
ROOM #	ROOM NAME	SQ. FT.	SQ.FT. PER PUPIL	MAX # OF PUPILS
	ADMINISTRATION			
109	CONFERENCE (109)	269		
127	WORK RM	74		
128	ADMIN RECEPTION (118)	215		
128A	PRINCIPAL	158		
106	GUIDANCE (106)	867		
	CL TO 106	6		
		1589		
				Minimum 1200 sq. ft.
211	NURSE (211)	156		
211A	TOIL TO 211	19		
211B	STORAGE TO 211	19		
		194		
				Minimum 625 sq. ft.
	FACULTY			
126	TEACHERS LOUNGE (117)	342		
126A	TOIL TO 126	23		

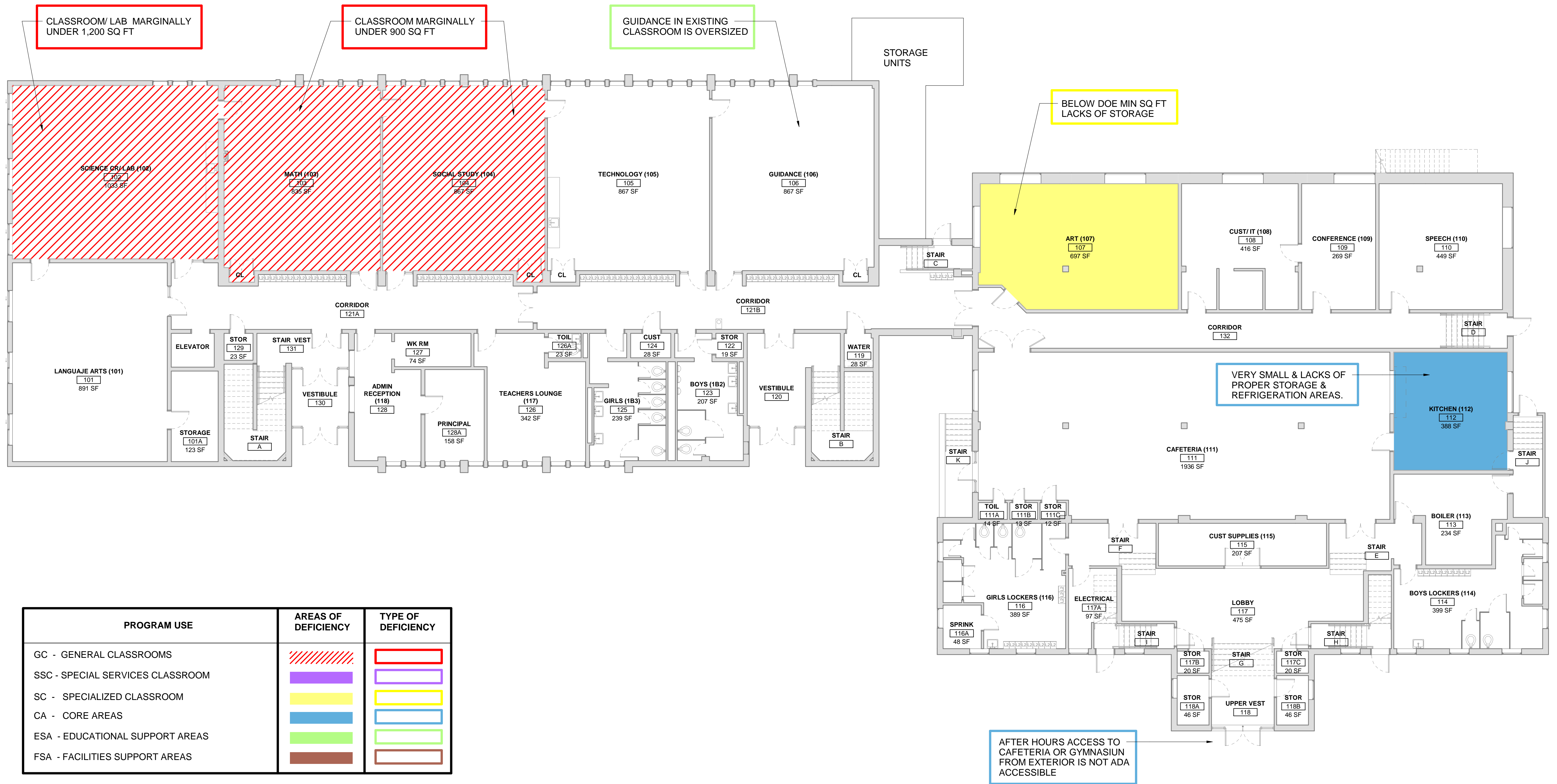
Note 1 "SQ.FT. PER PUPIL" or "SQ. FT." is based on NH Code of Administrative Rules Ed 321 or Manual for Planning and Construction of School Building 2006 from the New Hampshire Department of Education.

Note 2 "SQ. FT. PER PUPIL" is based on old standards for comparisons only.

SCHOOL PUPIL STATION CAPACITY

** Denotes spaces used to calculate pupil stations and includes adjoining space below.

Present school enrollment is	160		
	GROSS	NET @ 90%	
*TOTAL GENERAL CLASSROOMS ONLY	182	164	
Class size per School Board Guidelines For grades 5 through 8: 18 pupils	144		



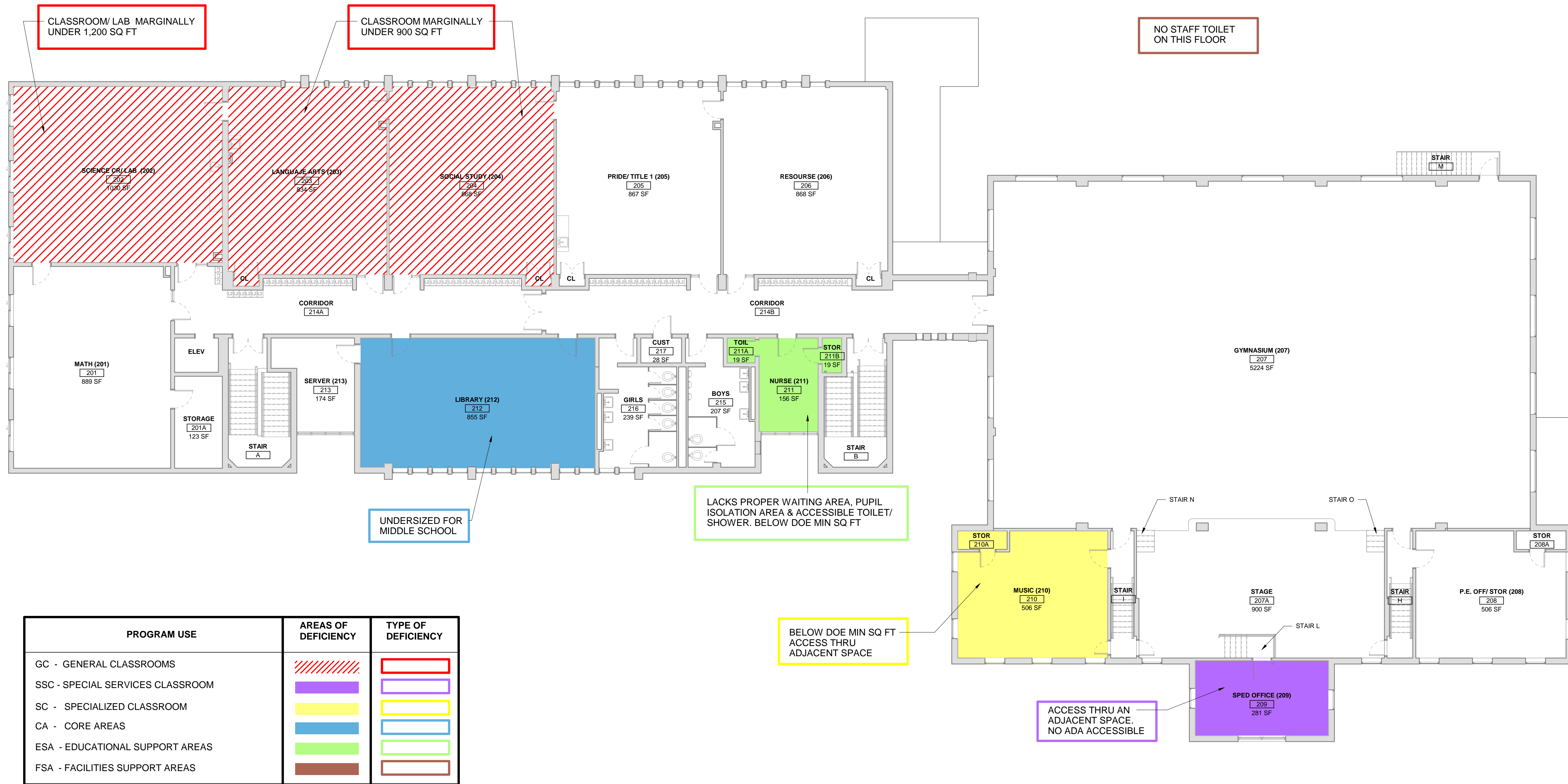
PROGRAM USE	AREAS OF DEFICIENCY	TYPE OF DEFICIENCY
GC - GENERAL CLASSROOMS		
SSC - SPECIAL SERVICES CLASSROOM		
SC - SPECIALIZED CLASSROOM		
CA - CORE AREAS		
ESA - EDUCATIONAL SUPPORT AREAS		
FSA - FACILITIES SUPPORT AREAS		

1 FIRST FLOOR PLAN
SCALE: 1/8" = 1'-0"



ALLENSTOWN
ARMAND DUPONT MIDDLE SCHOOL

DEFICIENCY PLAN



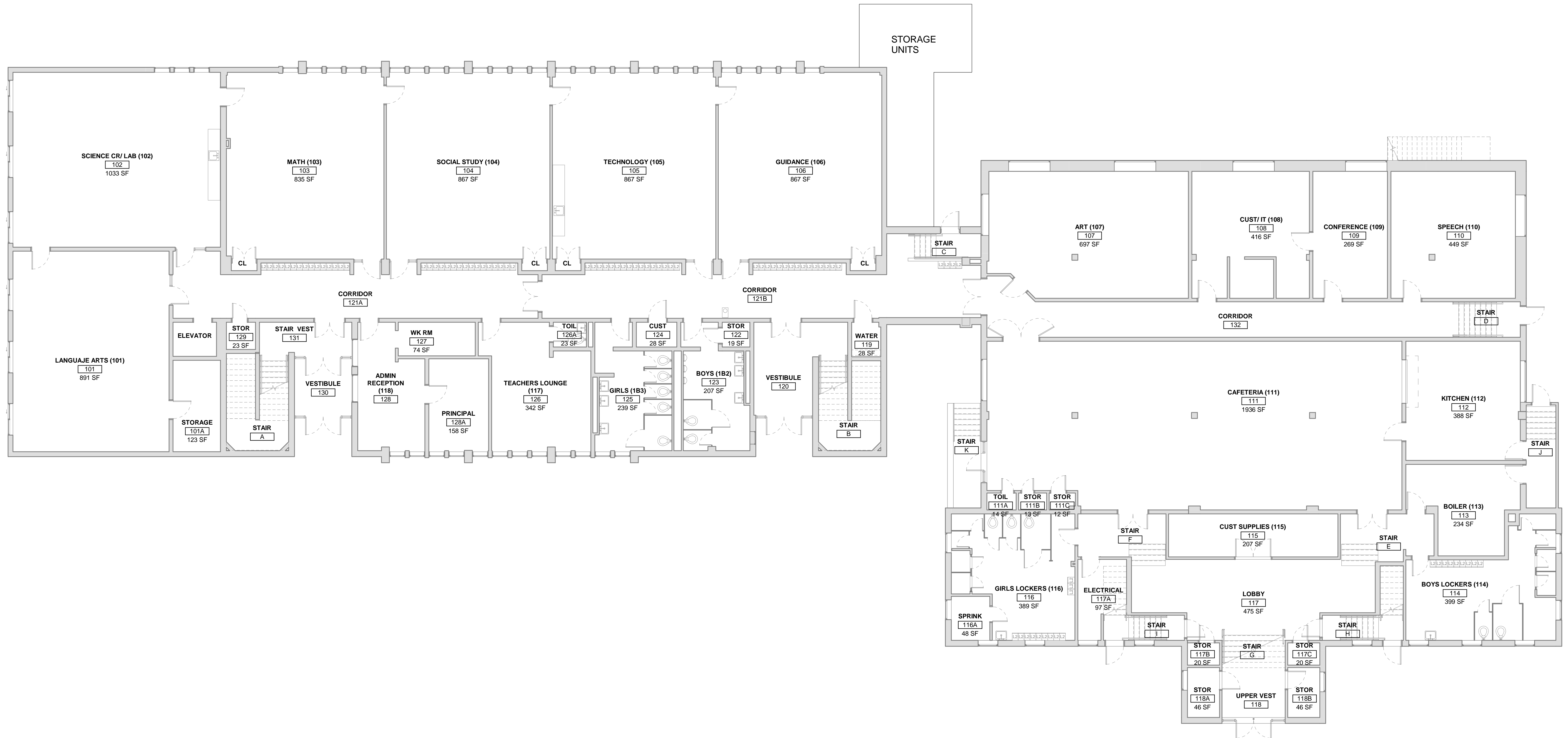
PROGRAM USE	AREAS OF DEFICIENCY	TYPE OF DEFICIENCY
GC - GENERAL CLASSROOMS		
SSC - SPECIAL SERVICES CLASSROOM		
SC - SPECIALIZED CLASSROOM		
CA - CORE AREAS		
ESA - EDUCATIONAL SUPPORT AREAS		
FSA - FACILITIES SUPPORT AREAS		

1 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



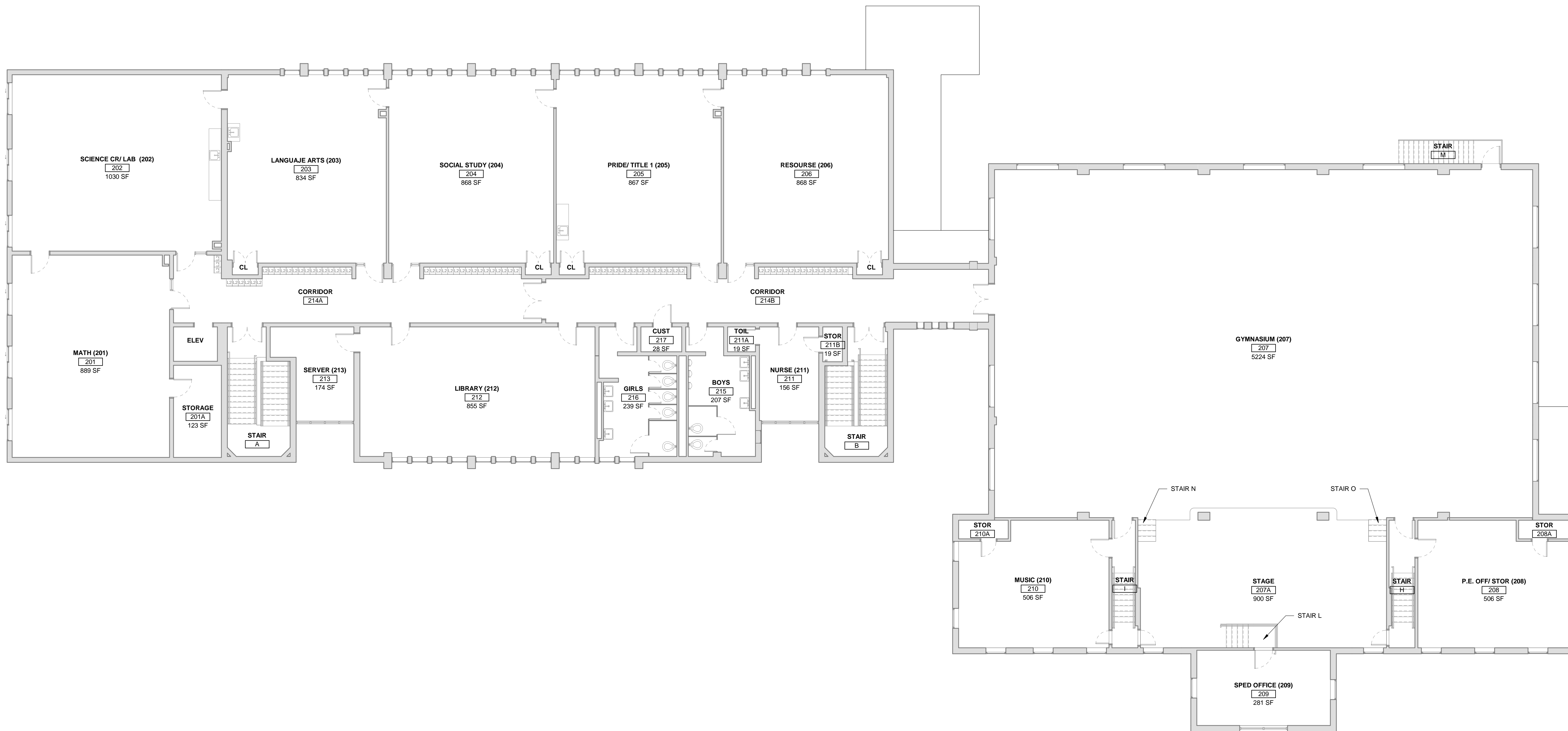
**ALLENSTOWN
ARMAND DUPONT MIDDLE SCHOOL**

DEFICIENCY PLAN



ALLENSTOWN ARMAND DUPONT MIDDLE SCHOOL

EXISTING FIRST FLOOR PLAN



**ALLENSTOWN
ARMAND DUPONT MIDDLE SCHOOL**

EXISTING SECOND FLOOR PLAN



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