

CITY OF NEWTON  
IN BOARD OF ALDERMEN  
FINANCE COMMITTEE AGENDA  
SPECIAL MEETING

MONDAY, NOVEMBER 16, 2009

**7:00 PM Note Early Start Time**  
Room 222

**ITEM TO BE DISCUSSED:**

**REFERRED TO PUBLIC FACILITIES AND FINANCE COMMITTEES**

#288-09 HIS HONOR THE MAYOR requesting to appropriate and expend one million four hundred thousand dollars (\$1,400,000) from bonded indebtedness for the purpose of funding the installation of four classrooms at the Oak Hill Middle School and for design work for modulars at the Day Middle School. [09/15/09 @ 1:28 PM]

**PUBLIC FACILITIES APPROVED 6-0 on 11-4-09**

All other items will be held without discussion.

Respectfully Submitted,

Paul E. Coletti, Chairman



David B. Cohen  
Mayor

City of Newton, Massachusetts  
Office of the Mayor

#288-09

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September 15, 2009

Honorable Board of Aldermen  
Newton City Hall  
1000 Commonwealth Avenue  
Newton, MA 02459

Ladies and Gentlemen:

I write to request that your Honorable Board docket for consideration a request to appropriate one million four hundred thousand dollars (\$1,400,000) from bonded indebtedness for the purpose of funding the installation of four modular classrooms at the Oak Hill Middle School and for design work for modulars at the Day Middle school. Additional details will be provided prior to committee discussion of this item.

Thank you for your consideration of this matter.

Very Truly yours,

David B. Cohen  
Mayor

09 SEP 15 PM 1:28  
CITY CLERK  
NEWTON, MA. 02159

1000 Commonwealth Avenue Newton, Massachusetts 02459

[www.ci.newton.ma.us](http://www.ci.newton.ma.us)



DEDICATED TO COMMUNITY EXCELLENCE



**PUBLIC BUILDINGS DEPARTMENT**

#288-09

A. NICHOLAS PARNELL, AIA, COMMISSIONER

Telephone: (617) 796-1600

Fax: (617) 796-1601

TTY: (617) 796-1089

52 ELLIOT STREET

NEWTON HIGHLANDS, MA 02461-1605

David B. Cohen  
Mayor

09 OCT - 1 PM 4:48  
CITY CLERK  
NEWTON, MA 02159

September 29, 2009

The Honorable David B. Cohen  
Mayor  
City of Newton  
1000 Commonwealth Avenue  
Newton Centre, MA 02459

RE: Modular Classrooms at Oak Hill Middle School / Internal Classrooms at FA Day Middle School

Dear Mr. Mayor:

The Public Buildings Department, on behalf of the School Department, is requesting the sum of \$ 1,400,000 to cover the design and purchase of (4) four modular classrooms at Oak Hill Middle School and the investigation and subsequent design of (4) internal classrooms at the FA Day Middle School. The complete estimates for these projects are attached, but the breakdown would be as below:

<u>Cost Breakdown</u>	<u>Oak Hill Modulares</u>	<u>F.A Day Internal Classrooms</u>
Design	\$ 112,550	\$ 95,240
Construction	\$1,125,500	
5% Contingency	\$ 61,950	\$ 4,760
Total	\$1,300,000	\$100,000

Please do not hesitate to contact me should you have any questions regarding this request.

Sincerely,

A. Nicholas Parnell, AIA  
Public Buildings Commissioner

ANP:dla

CC: James V. Marini, Acting Superintendent of Schools  
Susan Burstein, Chief Budget Officer  
Sandy Pooler, Chief Administrative officer

Oak Hill School Design and Installation of (4) four ModularClassrooms / FA Day (4) Internal Classroom Design

OAK HILL MIDDLE SCHOOL

FA DAY MIDDLE SCHOOL

Modulars (150K-212,625K)

Space Study

Modulars (4)	212,625	850,500	Classrooms (4)	TBD
Link		175,000	Link	TBD
Site Work		50,000	Site Work	TBD
Utilities		50,000	Utilities	TBD
<b>SUBTOTAL</b>		<b>1,125,500</b>	<b>SUBTOTAL</b>	<b>0</b>

Design Fee	\$	112,550	Design Fee	\$	95,250
<b>SUBTOTAL</b>	\$	<b>1,238,050</b>	<b>SUBTOTAL</b>	\$	<b>95,250</b>
Contingency 5%	\$	61,903	Contingency 5%	\$	4,763
<b>TOTAL</b>	\$	<b>1,299,953</b> *	<b>TOTAL</b>	\$	<b>100,013</b>

**Rounded up to \$1,300,000**

**Rounded to \$100,000**

\* does not include  
FFE & Technology

09 OCT -1 PM 4:48

CITY CLERK  
NEWTON, MA. 02159

DRAFT

9/29/09

Oak Hill and FA Day Space Needs - PROJECT TIME LINE

Modular classrooms at Oak Hill Middle School

Proposed Dates

DESIGN FUNDS REQUEST/APPROVAL	10/01/09-11/16/09
SCHEMATIC DESIGN	11/16/09-12/15/10
SCHEMATIC DESIGN REVIEW BY DRC	12/16/10-12/31/10
SITE PLAN APPROVAL HEARING/PUBLIC FACILITIES APPROVAL	12/31/10-01/31/10
FINANCE COMMITTEE APPROVAL	02/01/10-02/15/10
FULL BOARD APPROVAL	3/1/10
CONSTRUCTION DOCUMENTS	02/15/10-03/1/10
CONSTRUCTION DOCUMENTS REVIEW BY DRC	03/1/10-03/15/10
ADVERTISE CENTRAL REGISTER	3/31/10
ADVERTISE IN TRIBUNE	3/31/10
SPECIFICATIONS/PLANS AVAILABLE	3/31/10
PRE BID CONFERENCE	4/7/10
GENERAL BIDS DUE	4/28/10
CONTRACT AWARD	5/5/10
CONSTRUCTION PERIOD	6/15-9/1/2010
F & E INSTALLATION	8/15-9/1/2010

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NEWTON CITY CLERK  
NEWTON, MA. 02159

#288-09

DRAFT

9/29/09

Oak Hill and FA Day Space Needs- PROJECT TIME LINE

FA Day Space Study

Proposed Dates

DESIGN FUNDS REQUEST/APPROVAL	10/01/09-12/01/09
SCHEMATIC DESIGN	12/01/09-2/01/10
SCHEMATIC DESIGN REVIEW BY DRC	2/01/10-2/15/10
SITE PLAN APPROVAL HEARING/PUBLIC FACILITIES APPROVAL	N/A (if interior classrooms)
FINANCE COMMITTEE APPROVAL	02/15/10-03/03/10
FULL BOARD APPROVAL	3/15/10
DESIGN DEVELOPMENT	03/03/10-05/03/10
DESIGN DEVELOPMENT REVIEW BY DRC	05/03/10-05/19/10
CONSTRUCTION DOCUMENTS	5/19/2010-08/01/10
CONSTRUCTION DOCUMENTS REVIEW BY DRC	08/1/10-08/5/10
ADVERTISE CENTRAL REGISTER	8/25/10
ADVERTISE IN TRIBUNE	8/25/10
SPECIFICATIONS/PLANS AVAILABLE	8/25/10
PRE BID CONFERENCE	9/1/10
FILED SUB BIDS DUE	9/22/10
GENERAL BIDS DUE	9/29/10
CONTRACT AWARD	10/6/10
CONSTRUCTION PERIOD	4/15/11-8/15/11
F & E INSTALLATION	8/15/11-9/1/2011

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RECEIVED  
PROPERTY CLERK  
MA. 02159

# NEWTON

## PUBLIC SCHOOLS

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100 Walnut Street, Newtonville, MA 02460

AREA CODE (617) 559-9025

### Business, Finance and Planning

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**TO:** James Marini, Superintendent  
School Committee  
Public Facilities Committee, Newton Board of Aldermen

**FROM:** Paul Stein, Deputy Superintendent  
Sandra Guryan, Assistant Superintendent for Business, Finance and Planning

**DATE:** October 29, 2009

**RE:** **Oak Hill Middle School**

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In response to requests for information following the Public Facilities Committee meeting of October 21, 2009, we have attached an enrollment report entitled Preliminary Enrollment Report 2009-2010 which includes detailed enrollment counts for all schools including the four middle schools and a ten year projection of middle school enrollment on page 5. Please note that Oak Hill enrollment is presently 572 students, up 25 students since last year and projected to be 609 students in September 2010.

Over the past three years, the School Committee's Long Range Facilities Subcommittee has been reviewing the needs of all schools buildings in Newton with a particular focus on the elementary and middle schools. Through the services of the architectural firm HMFH Architects, Inc., the School Committee approved a long range facilities plan that included a complete inventory of every school building and review of the instructional capacity of each building. The Long Range Plan included a recommendation that Newton add a fifth middle school based on the enrollment projections at the time of the study in FY07. When enrollments were reviewed in December 2007, a revised projection showed slightly fewer middle school students but still showed a need for more classroom space. As a result, the Subcommittee reviewed ten year projections, capacity at each school, and numbers of students. Several redistricting options were studied, but in each case the classroom shortage occurred in each school after 1-2 years. For that reason, the option of adding classroom space by renovation or the addition of modulars was recommended. In the case of Oak Hill Middle School, several classrooms have been converted from World Language use to team use for regular classrooms for the past two years. With the rise in student counts at Oak Hill, there is a need for two more classrooms as of September 2010 and at least two more classrooms in September 2011.

Last year, the School committee Budget Guidelines set a target goal of 90 students per middle school team. Over recent years, this goal (often a function of budgetary constraints) ranged between 88 and 92 students per team. Currently, although the average team size citywide is around 90 students, Oak Hill has the highest team sizes averaging 95 students per team.

In response to the question of the impact of no additional space, and assuming the number of teams at Oak Hill remains fixed at 6.0, the average team size at Oak Hill will grow to 102 students next year and

114 students by FY14, as illustrated in the following table. In addition to team size growth, the table also shows average class size next year will be as high as 26.8 students, and by FY14, as high as 29.5 students.

Oak Hill Middle School  
Growth of Team Size and Average Class Size

School Year	FY10 2009-10	FY11 2010-2011	FY12 2011-12	FY13 2012-13	FY14 2013-14
Enrollment (Preliminary)	572	609	634	658	681
Increase from Prior Year	25	37	25	24	23
Average Team Size	95	102	106	110	114
<b>Highest Team Size</b>	<b>99</b>	<b>107</b>	<b>110</b>	<b>112</b>	<b>118</b>
Lowest Team Size	90	98	100	108	111
Average Class Size	23.8	25.5	26.4	27.4	28.5
<b>Highest Class Size</b>	<b>24.8</b>	<b>26.8</b>	<b>27.4</b>	<b>27.9</b>	<b>29.5</b>
Lowest Class Size	22.4	24.5	25.0	26.9	27.6
Number of Teams	6.0	6.0	6.0	6.0	6.0
Number of Team Teachers	24.0	24.0	24.0	24.0	24.0

What will be the impact of keeping Oak Hill's team size fixed?

Next year's class size will average 25.5 students for all Math, Language Arts, Science and Social Studies classes, and this average will increase to 28.5 students by FY14. In Grades 7 and 8, due to the fact that Math courses are leveled, it is not possible to evenly distribute students in all classes. As a result, certain Math sections end up with class sizes over 30 students, which forces high class sizes in the other subjects during the periods when these large Math classes are not meeting. For example, when average class size is 22, five more students can conceivably (if not ideally) be absorbed. However, when the average is 25.5 or more students to start with, a class size of over 30 becomes problematic; the highest expected average class size of 29.5 students in FY14 would yield class sizes in the mid-30's.

As a further example, it is reasonable to assume that next year's Grade 7 class will enroll 60% of their students in the regular Math 7 course, and 40% in the Accelerated Math 7 course. Next year, with an average of 102 students on the team, this equates to approximately 61 students in Math 7 and 41 in Accelerated Math 7 per team. Each Math team teacher will teach two sections of each course. As a result, there will be two classes of approximately 30 Math students and two classes of 20 Math students on each team. Now, let's take a look at what this would likely mean to all team classes using the following table. Note how Math class sizes drive the class sizes of the other team subjects.

	Team Period 1	Team Period 2	Team Period 3	Team Period 4
Math	31	20	30	21
English Language Arts	24	28	24	27
Social Studies	24	27	24	27
Science	23	27	24	27

Given the reality of Math course enrollment, half of all class sections on this team end up with class sizes of 27 students or more. Students enrolled in the regular Math classes (Period 1 or Period 3) will have class sizes of 27 or more students in three of their four team subjects. Accelerated Math students will have only one of four team subjects with 27 students or more. As a result, the students most impacted by large class sizes are apt to be the very ones who have greater academic needs. Furthermore, the above table assumes that one could evenly distribute students between the English, Social Studies, and Science courses. This is not true due to the grouping of special needs students. In reality, you will see numbers



higher than indicated in the table. All of this becomes progressively more problematic with larger team size.

Class size for World Language, Arts, and PE classes will increase as well, depending on whether additional multi-team teachers are hired. Hiring will keep class sizes at their current level, but it will force more of these teachers to move from classroom to classroom during the school day (see “Taking Away Dedicated Space” below). To a degree, as enrollment increases, this is going to happen at Oak Hill in any case – but without new modulars, the problem will accelerate.

Finally, if the space crunch at Oak Hill is not addressed, the students’ school experience among the four middle schools will become increasingly disparate. Essentially, students at Oak Hill will, on average, experience more crowded classes, less teacher attention, and more itinerant teachers. This, in turn, raises a significant equity issue.

Having determined that the team and class sizes at Oak Hill were going to be increasingly problematic, we explored alternative options to building modular classrooms. They included:

Using Space at Brown Middle School: This raised a number of problems, mostly relating to schedules and cost. With passing times at 3 minutes, it is unrealistic to expect students to travel from one building to the other without losing teaching time. We are not able to extend passing time because of Time and Learning regulations which require 990 hours of structured learning time. Inclement weather, of course, would only complicate matters. Furthermore, sharing space would have required a change in schedule, which in turn would have required the addition of two more buses. This was both costly and it raised safety concerns about traffic congestion. Finally, the schedule itself restricted the sharing of space given a 90 minute block of time in the middle of the school day.

Taking Away Dedicated Space at Oak Hill: We took a closer look at the multi-team spaces, and found problems at every turn. The Special Education classes are not housed in full sized classrooms, so using small Special Education classrooms was not an option. The Art and Health classrooms could not be easily eliminated without impacting the Art and Health programs themselves – given problems with moving and storing materials and student work, using sinks and a refrigerator, and preparing classrooms for hands-on projects. This leaves World Language classes, although most world language teachers already share their room. Any time a teacher is required to move between classes – especially given a 3 minute passing time, it creates problems. It reduces teaching time, hinders the teacher’s ability to remain after class to answer students’ questions and eliminates set-up time for the next lesson. It also makes it more difficult to establish a classroom environment that reflects the teacher’s content area and teaching style (technology, posters, board work, seating arrangements, differentiated learning stations, etc.). Team teachers are also disrupted because they must leave their room any time their classroom is being otherwise occupied. Finally, it sends the message to students that the subject taught by the itinerant teacher is “second class.”

In short, these alternatives (to building modular classrooms) were rejected only after serious consideration due to compelling practical and educational reasons.

Agenda Item: Preliminary Enrollment Report - School Year 2009-10

School Committee Meeting Date: October 13, 2009

**Purpose**

The purpose of the Preliminary Enrollment Report is to present current year enrollment and elementary class size information, both in comparison to last year's enrollment as well as projections for the current year. In addition, a preliminary ten year enrollment projection for the middle schools is provided for use by the School Committee's Long Term Facilities Subcommittee. All of the enrollment information in this report is preliminary. Final enrollment figures for 2009-10 will be provided in the Enrollment Analysis Report in November, 2009.

**Background**

This report is presented every October and gives a preliminary look at current school year enrollment. Prior to this report, projected enrollment figures for 2009-10 were used based on the Enrollment Analysis Report from November 2008. This report gives the first official look at actual 2009-10 enrollment and will be followed up by the Enrollment Analysis Report in November 2009.

**Action Required**

No action is required by the School Committee.

**Attendees/Participants**

Sandy Guryan

# NEWTON PUBLIC SCHOOLS

100 Walnut Street, Newtonville, MA 02460

AREA CODE (617) 559-9025

## Business, Finance and Planning

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**TO:** James Marini, Superintendent of Schools

**FROM:** Sandra Guryan, Assistant Superintendent for Business, Finance and Planning

**DATE:** October 13, 2009

**RE:** Preliminary Enrollment Report - School Year 2009-10

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### I. Introduction

The October 1, 2009 preliminary enrollment of 11,616 students is a net increase of 46 students over last year, made up of 29 more students at the elementary schools, 76 more students at the middle schools, and 59 fewer students at the high schools. This is the fifth consecutive year of net growth. The kindergarten population of 862 students is 32 students more than last year and is the fourth largest class of the last ten years.

The preliminary enrollment of 11,616 students is 53 students, or 0.5% more than the projection of 11,563 made in November 2008, making it close to projection. Elementary, middle, and high school projections are within 0.7%, 0.5%, and 0.7% of projection, respectively. Please note this report includes preliminary enrollment statistics. Some school records are still being verified, and the official enrollment will be included in the November 2009 Enrollment Analysis Report.

Tables 1 and 2 at the end of the report summarize preliminary versus projected enrollments by school and by grade. Table 3 compares the 2009-10 preliminary enrollments to the 2008-09 actual by school, and Table 4 shows the net migration patterns by grade from last year to this year.

### II. Preliminary Elementary School Enrollment

The current elementary enrollment of 5,527 students is an increase of 29 students over last year's total of 5,498 and is within 39 students of the projected 5,488. Enrollment growth and decline varied from school to school across the City, and by individual grades as well, as is shown in the following tables. Enrollments at Cabot (+24 students, or 5.6%), Bowen (+19 students, or 4.4%) and Burr (+10 students, or 2.7%) showed the largest percentage increases over last year. Bowen and Burr are at their highest enrollment in over three decades; Cabot's enrollment is higher than it has been in the last sixteen years.

Eight of the fifteen elementary schools have more students this school year versus last school year, including Bowen (+19), Burr (+10), Cabot (+24), Franklin (+6), Horace Mann (+1), Lincoln-Eliot (+7), Mason-Rice (+6), and Williams (+1). Six schools have decreases in the number of students, specifically Angier (-3), Countryside (-7), Memorial-Spaulding (-4), Peirce (-9), Underwood (-20), and Zervas (-2). Ward has the same number of students as last year.

### ELEMENTARY SCHOOL ENROLLMENT BY SCHOOL

2009-10

School	Actual Enrollment 2009-10	Projected Enrollment 2009-10	Actual Enrollment 2008-09	Difference Actual 2009-10 vs Projected	% Change	Difference Actual 2009-10 vs Actual 2008-09	% Change
Angier	389	392	392	-3	-0.8%	-3	-0.8%
Bowen	454	439	435	15	3.4%	19	4.4%
Burr	379	371	369	8	2.2%	10	2.7%
Cabot	449	433	425	16	3.7%	24	5.6%
Countryside	472	496	479	-24	-4.8%	-7	-1.5%
Franklin*	402	398	396	4	1.0%	6	1.5%
Horace Mann	371	363	370	8	2.2%	1	0.3%
Lincoln-Eliot	291	286	284	5	1.7%	7	2.5%
Mason-Rice	428	422	422	6	1.4%	6	1.4%
M-Spaulding	438	421	442	17	4.0%	-4	-0.9%
Peirce	329	326	338	3	0.9%	-9	-2.7%
Underwood	262	271	282	-9	-3.3%	-20	-7.1%
Ward	260	257	260	3	1.2%	0	0.0%
Williams	277	279	276	-2	-0.7%	1	0.4%
Zervas	326	334	328	-8	-2.4%	-2	-0.6%
<b>Total</b>	<b>5,527</b>	<b>5,488</b>	<b>5,498</b>	<b>39</b>	<b>0.7%</b>	<b>29</b>	<b>0.5%</b>

\*Includes students who receive special education services outside the regular classroom for a significant amount of time.

### ACTUAL VS PROJECTED ENROLLMENT BY GRADE

2009-10

Grade	Actual Enrollment 2009-10	Projected Enrollment 2009-10	Actual Enrollment 2008-09	Difference Actual 2009-10 vs Projected	% Change	Difference Actual 2009-10 vs Actual 2008-09	% Change
K	862	802	830	60	7.5%	32	3.9%
1	876	876	950	0	0.0%	-74	-7.8%
2	990	967	924	23	2.4%	66	7.1%
3	931	940	962	-9	-1.0%	-31	-3.2%
4	966	972	908	-6	-0.6%	58	6.4%
5	885	912	905	-27	-3.0%	-20	-2.2%
SPED*	17	19	19	-2	-10.5%	-2	-10.5%
<b>Total Elementary</b>	<b>5,527</b>	<b>5,488</b>	<b>5,498</b>	<b>39</b>	<b>0.7%</b>	<b>29</b>	<b>0.5%</b>

\*Includes students who receive special education services outside the regular classroom for a significant amount of time.

### NOTE ENROLLMENTS HAVE NOT BEEN 100% VERIFIED

The preliminary elementary enrollment of 5,527 students is 39 students, or 0.7% more than the projection of 5,488 made in November 2008. The largest variance is in kindergarten, with 60 more students than projected. The 2009-10 kindergarten population of 862 students is 32 more than last school year indicating a resurgence of growth similar to the three years preced-

ing last school year. The 2009-10 kindergarten population of 862 students is the same as the average of the last four years wherein the highest kindergarten enrollment of 887 students occurred in 2006-07 and the smallest kindergarten enrollment of 830 students occurred in 2008-09.

The table below reviews the 2008-09 kindergarten population as compared to last school year, and to the November 2008 projections. The current kindergarten enrollment of 862 is 32 more students than last year, with the largest increases at Bowen (+10), Franklin (+11) and Williams (+8). These increases over last year are partially offset by decreases at Horace Mann (-10) and Ward (-8).

#### KINDERGARTEN VARIANCE

School	Kindergarten Enrollment			Difference Actual 2009-10 vs Projected	%	Difference Actual 2009-10 vs Actual 2008-09	%
	Actual 2009-10	Projected 2009-10	Actual 2008-09				
Angier	48	53	47	-5	-9.4%	1	2.1%
Bowen	69	57	59	12	21.1%	10	16.9%
Burr	69	52	68	17	32.7%	1	1.5%
Cabot	69	58	63	11	19.0%	6	9.5%
Countryside	85	87	85	-2	-2.3%	0	0.0%
Franklin	67	67	56	0	0.0%	11	19.6%
Horace Mann	57	50	67	7	14.0%	-10	-14.9%
Lincoln-Eliot	49	44	43	5	11.4%	6	14.0%
Mason-Rice	72	67	67	5	7.5%	5	7.5%
M-Spaulding	62	44	62	18	40.9%	0	0.0%
Peirce	39	40	39	-1	-2.5%	0	0.0%
Underwood	46	46	43	0	0.0%	3	7.0%
Ward	34	37	42	-3	-8.1%	-8	-19.0%
Williams	51	46	43	5	10.9%	8	18.6%
Zervas	45	54	46	-9	-16.7%	-1	-2.2%
<b>Total Elementary</b>	<b>862</b>	<b>802</b>	<b>830</b>	<b>60</b>	<b>7.5%</b>	<b>32</b>	<b>3.9%</b>

**NOTE ENROLLMENTS HAVE NOT BEEN 100% VERIFIED**

Table 5, at the end of the report, is the Elementary Class Size Array by school and by grade for the 2009-10 school year. Of the 251 classes, one was added during the summer to ameliorate large classes at Memorial-Spaulding – Grade 3. In addition, 26 aides, each working 19 hours per week, were added to 13 of the 15 elementary schools to address large class sizes in specific grade levels.

### III. Preliminary Middle School Enrollment

The current middle school enrollment of 2,556 is 76 students more than last year, an increase of +3.1%. Enrollments went up at all of the four schools, with increases of 22 students at Bigelow, 3 students at Brown, 26 students at Day and 25 students at Oak Hill. The comparisons between

actual enrollments for 2008-09 and 2009-10 and the projections prepared last year for the four middle schools by school and grade are shown in the following tables.

Current middle school enrollment is higher than last year as projected, but is 12 students (-0.5%) less than the November 2008 projection of 2,568. As is indicated in the table below, Day has 17 fewer students than projected and Brown has 8 fewer students than projected. The projection for Bigelow was within 1 student, and the projection for Oak Hill was too low by 14 students. The net difference of 12 students below projection is distributed primarily between Grade 6 and Grade 8, just as last year.

**DIFFERENCE BETWEEN ACTUAL AND PROJECTED  
MIDDLE SCHOOL ENROLLMENTS BY SCHOOL**

School	Actual Enrollment 2009-10	Projected Enrollment 2009-10	Actual Enrollment 2008-09	Difference Actual 2009-10 vs Projected	% Change	Difference Actual 2009-10 vs Actual 2008-09	% Change
Bigelow	527	528	505	-1	-0.2%	22	4.4%
Brown	684	692	681	-8	-1.2%	3	0.4%
Day	773	790	747	-17	-2.2%	26	3.5%
Oak Hill	572	558	547	14	2.5%	25	4.6%
<b>Total</b>	<b>2,556</b>	<b>2,568</b>	<b>2,480</b>	<b>-12</b>	<b>-0.5%</b>	<b>76</b>	<b>3.1%</b>

**DIFFERENCE BETWEEN ACTUAL AND PROJECTED  
MIDDLE SCHOOL ENROLLMENTS BY GRADE**

School	Actual Enrollment 2009-10	Projected Enrollment 2009-10	Actual Enrollment 2008-09	Difference Actual 2009-10 vs Projected	% Change	Difference Actual 2009-10 vs Actual 2008-09	% Change
6	877	895	829	-18	-2.0%	48	5.8%
7	826	834	836	-8	-1.0%	-10	-1.2%
8	848	833	809	15	1.8%	39	4.8%
SPED*	5	6	6	-1	-16.7%	-1	-16.7%
<b>Total</b>	<b>2,556</b>	<b>2,568</b>	<b>2,480</b>	<b>-12</b>	<b>-0.5%</b>	<b>76</b>	<b>3.1%</b>

**NOTE ENROLLMENTS HAVE NOT BEEN 100% VERIFIED**

#### IV. Preliminary Middle School Ten Year Projections

As part of the School Committee's Long Term Facilities Subcommittee's work, a ten year middle school enrollment forecast has been developed. It is included with the preliminary enrollment information as part of the on-going short term planning process. The draft forecast is based on the preliminary October 2009 enrollment using a five year cohort survival method. Ten year projections are provided so that the impact of elementary school population growth on middle schools can continue to be seen and evaluated. As the work of the subcommittee proceeds, the capacity of each of the middle schools will continue to be measured against the population projections.

Please note the following projections are draft projections. Please also note that ten year projections are more uncertain than the annual five year forecast.

## PRELIMINARY MIDDLE SCHOOL TEN YEAR PROJECTIONS BY SCHOOL AND GRADE\*

School	Actual FY10 2009	5 Year Projections					10 Year Projections				
		FY11 2010	FY12 2011	FY13 2012	FY14 2013	FY15 2014	FY16 2015	FY17 2016	FY18 2017	FY19 2018	FY20 2019
Bigelow	527	519	532	518	564	557	<b>574</b>	558	561	561	558
Brown	684	673	690	703	<b>752</b>	736	749	726	742	740	741
Day	773	785	861	886	897	<b>901</b>	900	900	896	895	900
Oak Hill	572	609	634	658	<b>681</b>	661	642	623	637	641	629
Total Middle School	2,556	2,586	2,717	2,765	2,894	2,855	2,865	2,807	2,836	2,837	2,828
Change	76	30	131	48	129	-39	10	-58	29	1	-9
% Change	3.1%	1.2%	5.1%	1.8%	4.7%	-1.3%	0.4%	-2.0%	1.0%	0.0%	-0.3%

Grade	Actual FY10 2009	5 Year Projections					10 Year Projections				
		FY11 2010	FY12 2011	FY13 2012	FY14 2013	FY15 2014	FY16 2015	FY17 2016	FY18 2017	FY19 2018	FY20 2019
6	877	871	950	925	<b>1000</b>	911	934	943	938	937	933
7	826	884	877	958	931	<b>1,007</b>	918	940	951	944	944
8	848	826	885	877	958	932	<b>1,008</b>	919	942	951	946
SPED	5	5	5	5	5	5	5	5	5	5	5
Total 6-8	2,556	2,586	2,717	2,765	2,894	2,855	2,865	2,807	2,836	2,837	2,828
Change	76	30	131	48	129	-39	10	-58	29	1	-9
% Change	3.1%	1.2%	5.1%	1.8%	4.7%	-1.3%	0.4%	-2.0%	1.0%	0.0%	-0.3%

\*Peak years are shown in bold.

## NOTE ENROLLMENTS HAVE NOT BEEN 100% VERIFIED

V. Preliminary Senior High School Enrollment

The October 1, 2009 high school enrollment of 3,533 is down by 59 students versus last year, and is 26 students more than projected in the November 2008 analysis. North High School's current enrollment of 1,811 students is 18 students (-1.0%) lower than last year and 11 students more than projected (+0.6%). The current South High School enrollment of 1,722 students is 41 students (-2.3%) less than last year and 15 students (+0.9%) more than had been projected.

The detailed breakdown of preliminary enrollment by grade is shown on the next page for the two high schools. The overall variance of 26 students more than the projection is made up primarily of decreases in special education, SPED/SP/PG offsetting increases in all grades, with the largest increase of 41 students occurring in grade 10.

**SENIOR HIGH SCHOOL ENROLLMENT BY GRADE  
ACTUAL VS PROJECTED**

**NORTH HIGH SCHOOL**

<b>Grade</b>	<b>Actual Enrollment 2009-10</b>	<b>Projected Enrollment 2009-10</b>	<b>Actual Enrollment 2008-09</b>	<b>Difference Actual 2009-10 vs Projected</b>	<b>% Change</b>	<b>Difference Actual 2009-10 vs Actual 2008-09</b>	<b>% Change</b>
9	434	429	422	5	1.2%	12	2.8%
10	451	421	437	30	7.1%	14	3.2%
11	446	439	463	7	1.6%	-17	-3.7%
12	463	456	452	7	1.5%	11	2.4%
SPED/SP/PG	17	55	55	-38	-69.1%	-38	-69.1%
<b>Total</b>	<b>1,811</b>	<b>1,800</b>	<b>1,829</b>	<b>11</b>	<b>0.6%</b>	<b>-18</b>	<b>-1.0%</b>

**SOUTH HIGH SCHOOL**

<b>Grade</b>	<b>Actual Enrollment 2009-10</b>	<b>Projected Enrollment 2009-10</b>	<b>Actual Enrollment 2008-09</b>	<b>Difference Actual 2009-10 vs Projected</b>	<b>% Change</b>	<b>Difference Actual 2009-10 vs Actual 2008-09</b>	<b>% Change</b>
9	408	405	399	3	0.7%	9	2.3%
10	413	402	431	11	2.7%	-18	-4.2%
11	431	434	439	-3	-0.7%	-8	-1.8%
12	436	438	466	-2	-0.5%	-30	-6.4%
SPED/SP/PG	34	28	28	6	21.4%	6	21.4%
<b>Total</b>	<b>1,722</b>	<b>1,707</b>	<b>1,763</b>	<b>15</b>	<b>0.9%</b>	<b>-41</b>	<b>-2.3%</b>

**TOTAL SENIOR HIGH SCHOOL**

<b>Grade</b>	<b>Actual Enrollment 2009-10</b>	<b>Projected Enrollment 2009-10</b>	<b>Actual Enrollment 2008-09</b>	<b>Difference Actual 2009-10 vs Projected</b>	<b>% Change</b>	<b>Difference Actual 2009-10 vs Actual 2008-09</b>	<b>% Change</b>
9	842	834	821	8	1.0%	21	2.6%
10	864	823	868	41	5.0%	-4	-0.5%
11	877	873	902	4	0.5%	-25	-2.8%
12	899	894	918	5	0.6%	-19	-2.1%
SPED/SP/PG	51	83	83	-32	-38.6%	-32	-38.6%
<b>Total</b>	<b>3,533</b>	<b>3,507</b>	<b>3,592</b>	<b>26</b>	<b>0.7%</b>	<b>-59</b>	<b>-1.6%</b>

**NOTE ENROLLMENTS HAVE NOT BEEN 100% VERIFIED**



**TABLE 1  
ACTUAL VS PROJECTED ENROLLMENT BY SCHOOL FOR 10/1/09**

<b>School</b>	<b>Actual Enrollment 10/1/09</b>	<b>November, 2008 Projection for 10/1/09</b>	<b>Difference Actual vs Projected</b>	<b>% Change</b>
Angier	389	392	-3	-0.8%
Bowen	454	439	15	3.4%
Burr	379	371	8	2.2%
Cabot	449	433	16	3.7%
Countryside	472	496	-24	-4.8%
Franklin*	402	398	4	1.0%
Horace Mann	371	363	8	2.2%
Lincoln-Eliot	291	286	5	1.7%
Mason-Rice	428	422	6	1.4%
Memorial-Spaulding	438	421	17	4.0%
Peirce	329	326	3	0.9%
Underwood	262	271	-9	-3.3%
Ward	260	257	3	1.2%
Williams	277	279	-2	-0.7%
Zervas	326	334	-8	-2.4%
<b>Total Elementary</b>	<b>5,527</b>	<b>5,488</b>	<b>39</b>	<b>0.7%</b>
Bigelow	527	528	-1	-0.2%
Brown*	684	692	-8	-1.2%
Day	773	790	-17	-2.2%
Oak Hill	572	558	14	2.5%
<b>Total Middle School</b>	<b>2,556</b>	<b>2,568</b>	<b>-12</b>	<b>-0.5%</b>
North High*	1,811	1,800	11	0.6%
South High*	1,722	1,707	15	0.9%
<b>Total Senior High School</b>	<b>3,533</b>	<b>3,507</b>	<b>26</b>	<b>0.7%</b>
<b>Grand Total</b>	<b>11,616</b>	<b>11,563</b>	<b>53</b>	<b>0.5%</b>

\*Includes students who receive special education services outside the regular classroom for a significant amount of time.

**NOTE ENROLLMENTS HAVE NOT BEEN 100% VERIFIED**

**TABLE 2  
ACTUAL VS PROJECTED ENROLLMENT BY GRADE FOR 10/1/09**

<b>Grade</b>	<b>Actual Enrollment 10/1/09</b>	<b>November, 2008 Projection for 10/1/09</b>	<b>Difference Actual vs Projected</b>	<b>% Change</b>
K	862	802	60	7.5%
1	876	876	0	0.0%
2	990	967	23	2.4%
3	931	940	-9	-1.0%
4	966	972	-6	-0.6%
5	885	912	-27	-3.0%
SPED*	17	19	-2	-10.5%
<b>Total Elementary</b>	<b>5,527</b>	<b>5,488</b>	<b>39</b>	<b>0.7%</b>
6	877	895	-18	-2.0%
7	826	834	-8	-1.0%
8	848	833	15	1.8%
SPED	5	6	-1	-16.7%
<b>Total Middle</b>	<b>2,556</b>	<b>2,568</b>	<b>-12</b>	<b>-0.5%</b>
9	842	834	8	1.0%
10	864	823	41	5.0%
11	877	873	4	0.5%
12	899	894	5	0.6%
SP/PG/SPED**	51	83	-32	-38.6%
<b>Total Sr. High</b>	<b>3,533</b>	<b>3,507</b>	<b>26</b>	<b>0.7%</b>
<b>Grand Total</b>	<b>11,616</b>	<b>11,563</b>	<b>53</b>	<b>0.5%</b>

\*Includes students who receive special education services outside the regular classroom for a significant amount of time.

\*\*Includes SP students (special education students beyond grade 12), post graduate students and SPED students.

**NOTE ENROLLMENTS HAVE NOT BEEN 100% VERIFIED**

**TABLE 3**  
**ACTUAL ENROLLMENTS BY SCHOOL**  
**2009-10 vs 2008-09**

<b>School</b>	<b>Actual 2009-10</b>	<b>Actual 2008-09</b>	<b>Difference</b>	<b>% Change</b>
Angier	389	392	-3	-0.8%
Bowen	454	435	19	4.4%
Burr	379	369	10	2.7%
Cabot	449	425	24	5.6%
Countryside	472	479	-7	-1.5%
Franklin	402	396	6	1.5%
Horace Mann	371	370	1	0.3%
Lincoln-Eliot	291	284	7	2.5%
Mason-Rice	428	422	6	1.4%
Memorial-Spaulding	438	442	-4	-0.9%
Peirce	329	338	-9	-2.7%
Underwood	262	282	-20	-7.1%
Ward	260	260	0	0.0%
Williams	277	276	1	0.4%
Zervas	326	328	-2	-0.6%
<b>Total Elementary</b>	<b>5,527</b>	<b>5,498</b>	<b>29</b>	<b>0.5%</b>
Bigelow	527	505	22	4.4%
Brown	684	681	3	0.4%
Day	773	747	26	3.5%
Oak Hill	572	547	25	4.6%
<b>Total Middle</b>	<b>2,556</b>	<b>2,480</b>	<b>76</b>	<b>3.1%</b>
North High	1,811	1,829	-18	-1.0%
South High	1,722	1,763	-41	-2.3%
<b>Total Senior High</b>	<b>3,533</b>	<b>3,592</b>	<b>-59</b>	<b>-1.6%</b>
<b>Grand Total</b>	<b>11,616</b>	<b>11,570</b>	<b>46</b>	<b>0.4%</b>

\*Includes students who receive special education services outside the regular classroom for a significant amount of time.

**NOTE ENROLLMENTS HAVE NOT BEEN 100% VERIFIED**

**TABLE 4  
ACTUAL ENROLLMENTS BY GRADE  
2008-09 vs 2009-10**

Grade	October 1 Enrollment			Changes in Enrollment 2008-09 to 2009-10	
	2008-09	Net Migration	2009-10	N	%
K	830	46	862	32	3.9%
1	950	40	876	-74	-7.8%
2	924	7	990	66	7.1%
3	962	4	931	-31	-3.2%
4	908	-23	966	58	6.4%
5	905	-28	885	-20	-2.2%
SPED.*	19		17	-2	-10.5%
<b>Total Elementary</b>	<b>5,498</b>		<b>5,527</b>	<b>29</b>	<b>0.5%</b>
6	829	-3	877	48	5.8%
7	836	12	826	-10	-1.2%
8	809	33	848	39	4.8%
SPED.*	6		5	-1	-16.7%
<b>Total Middle</b>	<b>2,480</b>		<b>2,556</b>	<b>76</b>	<b>3.1%</b>
9	821	43	842	21	2.6%
10	868	9	864	-4	-0.5%
11	902	-3	877	-25	-2.8%
12	918		899	-19	-2.1%
SPED./PG/SP**	83		51	-32	-38.6%
<b>Total Sr. High</b>	<b>3,592</b>		<b>3,533</b>	<b>-59</b>	<b>-1.6%</b>
<b>Grand Total</b>	<b>11,570</b>		<b>11,616</b>	<b>46</b>	<b>0.4%</b>

\*Includes students who receive special education services outside the regular classroom for a significant amount of time.

\*\*Includes SP students (special education students beyond grade 12), post graduate students and special education students.

**NOTE ENROLLMENTS HAVE NOT BEEN 100% VERIFIED**

**TABLE 5  
DISTRIBUTION OF ELEMENTARY CLASS SIZES  
AS OF OCTOBER 1, 2009**

SCHOOL	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	TOTAL	
	K	K-1	1	1-2	2	2-3	3	3-4	4	4-5		5
<b>Angier</b>	19		21		26		23		25		25	# Rooms 17
	18	20	21		25		23		24		24	
<b>TOTAL</b>	37	20	42	0	75	0	69	0	73	0	73	389
<b>Bowen</b>					22				22			# Rooms 20
	24		21		22		25		22		27	
	23		20		22		24		21		26	
<b>TOTAL</b>	69	0	61	0	87	0	72	0	86	0	79	454
<b>Burr</b>	23		23		22		25		18			# Rooms 17
	23		23		21		24		17		28	
	23		22		21		23		17		26	
<b>TOTAL</b>	69	0	68	0	64	0	72	0	52	0	54	379
<b>Cabot</b>									23			# Rooms 19
	24		23		25		25		22		25	
	23		23		25		25		22		24	
<b>TOTAL</b>	69	0	69	0	74	0	75	0	89	0	73	449
<b>Countryside</b>	22		21		22							# Rooms 21
	22		20		21		25		27		24	
	21		20		21		24		26		23	
	20		20		21		24		25		23	
<b>TOTAL</b>	85	0	81	0	85	0	73	0	78	0	70	472
<b>Franklin</b>									21			# Rooms 19
	23		21		22		24		19		22	
	22		20		22		24		19		20	
<b>TOTAL</b>	67	0	60	0	66	0	69	0	78	0	62	402
<b>Horace Mann</b>	19		23				22		24		21	# Rooms 17
	19		23		26		20		23		21	
	19		23		25		20		22		21	
<b>TOTAL</b>	57	0	69	0	51	0	62	0	69	0	63	371
<b>Lincoln-Eliot</b>					19		18					# Rooms 14
	25		23		19		16		25		22	
	24		21		18		15		24		22	
<b>TOTAL</b>	49	0	44	0	56	0	49	0	49	0	44	291

\*Includes 4 students in the REACH Program who are integrated into another 3rd grade class approximately 2 1/2 hours each day.

\*\*Includes 7 students in the REACH Program who are integrated into another 4th grade class approximately 2 1/2 hours each day.

\*\*\*Includes 6 students in the REACH Program who are integrated into another 5th grade class approximately 2 1/2 hours each day.

**NOTE ENROLLMENTS HAVE NOT BEEN 100% VERIFIED**

TABLE 5 (CONT.)

DISTRIBUTION OF ELEMENTARY CLASS SIZES  
AS OF OCTOBER 1, 2009

SCHOOL	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	TOTAL
	K	K-1	1	1-2	2	2-3	3	3-4	4	4-5	5	
<b>Mason-Rice</b>	24		23		22		23		28		25	# Rooms 18
	24		23		22		22		28		25	
	24		22		22		22		27		25	
<b>TOTAL</b>	72	0	68	0	88	0	67	0	83	0	50	428
<b>Memorial-Spaulding</b>	21		25		24		22		19		22	# Rooms 21
	21		24		24		21		17		20	
	20		23		23		16		16		19	
<b>TOTAL</b>	62	0	72	0	71	0	81	0	71	0	81	438
<b>Peirce</b>	20		25		23		19		25		22	# Rooms 15
	19		24		23		19		25		21	
<b>TOTAL</b>	39	0	49	0	69	0	57	0	50	0	65	329
<b>Underwood</b>	23		23		24		22		23		18	# Rooms 12
	23		22		23		22		22		17	
<b>TOTAL</b>	46	0	45	0	47	0	44	0	45	0	35	262
<b>Ward</b>	18		23		18		18		25		21	# Rooms 13
	16		23		18		17		25		20	
<b>TOTAL</b>	34	0	46	0	54	0	35	0	50	0	41	260
<b>Williams</b>	18		23		21		25		21		25	# Rooms 13
	17		21		21		25		20		24	
<b>TOTAL</b>	51	0	44	0	42	0	50	0	41	0	49	277
<b>Zervas</b>	23		26		21		20		21		26	# Rooms 15
	22		24		20		20		20		25	
<b>TOTAL</b>	45	0	50	0	60	0	59	0	61	0	51	326

	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	Grade	TOTAL
	K	K-1	1	1-2	2	2-3	3	3-4	4	4-5	5	
<b>Grand Total:</b>	851	20	868	0	989	0	934	0	975	0	890	<b>5,527</b>
<b>Avg. Class Size:</b>	21.3	20.0	22.3	0.0	22.0	0.0	21.7	0.0	22.2	0.0	22.8	<b>22.0</b>
<b># of Rooms/Classes:</b>	40	1	39	0	45	0	43	0	44	0	39	<b>251</b>

NOTE ENROLLMENTS HAVE NOT BEEN 100% VERIFIED

**TO:** Board of Aldermen

**FROM:** School Committee Long-Range Facilities Subcommittee

**DATE:** October 16, 2009

**RE:** **Middle School Space Issues**

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At the direction of the School Committee, the Long-Range Facilities Subcommittee (Susie Heyman, Jonathan Yeo, Kurt Kusiak, Dori Zaleznik, Jeff Young [and now Jim Marini], Sandy Guryan, Mike Cronin, Heidi Black, Nick Parnell, and Mike Kruse) explored a number of potential solutions to accommodate the greater than expected elementary school enrollment from the last five years that is now starting to move into the middle schools. A number of potential solutions including redistricting from Oak Hill to Brown and Day to Bigelow or sending a cohort of students from Oak Hill to Brown were explored in detail.

The subcommittee presented the options and background explorations to the School Committee in July 2009, and the School Committee voted to request funding for four modular classrooms at Oak Hill Middle School and design money for a space study at Day Middle School to assess whether internal reconfigurations could be done or modular classrooms added to create four new classrooms for the school year 2011-2012.

Oak Hill has a current classroom deficit that is exacerbated in school year 2010-2011 to the point that team sizes would top 100 students — a size all of the middle school principals state makes scheduling the school virtually impossible. Team sizes at Oak Hill are already larger than in the other middle schools. By the following school year, Day has a deficit of four classrooms.

We are providing some background information in this packet for the Board of Aldermen. This packet includes updated information on middle school space using preliminary enrollment information from October 1, 2009, which shows that the existing space constraints at Oak Hill have been exacerbated by an even larger than expected enrollment this fall. Please refer to the attached memo from Sandy Guryan of October 16, 2009. We have also included a memo from July 20, 2009 from Sandy Guryan that summarizes the analysis of space and provides a cost estimate for “green” versus standard modulars.

Members of the Long-Range Facilities Subcommittee will be present at the Public Facilities meeting of October 21.

# NEWTON

## PUBLIC SCHOOLS

100 Walnut Street, Newtonville, MA 02460

AREA CODE (617) 559-9025

### Business, Finance and Planning

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**TO:** James Marini, Superintendent  
School Committee

**FROM:** Sandra Guryan, Assistant Superintendent for Business, Finance and Planning

**DATE:** October 16, 2009

**RE:** **Middle School Facilities Update**

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This report provides updated information on middle school space. Please refer to the attached memo on middle school space dated July 20, 2009 for the full analysis of uses and needs for space at Brown and Oak Hill Middle Schools. Three earlier memos referred to in the attachment are not included but are on file should you wish to review them.

For the past three years, Oak Hill Middle School has used 24 classrooms to accommodate team sizes that are the highest of all the middle schools. Of the 24 classrooms, at least two classrooms have already been converted from World Language to team classrooms. Since FY08, average team size at Oak Hill has steadily increased to the current average of approximately 95 students. Based on preliminary enrollment projections, team sizes at Oak Hill are likely to be as high as 100 students in future years, making it extremely difficult both to physically accommodate the large numbers of students within the limited classroom space and to maintain the academic standards that reasonable teacher/student ratios allow.

After multiple and comprehensive reviews of middle school space both with and without redistricting possibilities between Oak Hill and Brown and between Bigelow and Day, it has become clear that reassigning students will not relieve the space issues at the schools. Initially, it was thought that minor redistricting plans would relieve space problems at Oak Hill or Day Middle Schools. After working on a number of redistricting scenarios, between Oak Hill and Brown and between Bigelow and Day, we concluded that the reassigning of students would provide only limited relief at Oak Hill and contributes to what will be a growing space shortage at Brown. Similar results were found in this preliminary review at Day and Bigelow. Thus, redistricting will not solve an overall shortage of space in middle schools as the population grows according to enrollment projections.

The analysis of available space and redistricting also includes assumptions about team size (maximum average of 90) and whether or not to allow two teacher teams. The tables on the next page show in summarized form that without redistricting, there are classroom deficits by FY11 at Oak Hill, while with redistricting, there are classroom deficits by FY11 at Oak Hill, and by FY12 at Brown and Day. Using four teacher teams produces further classroom deficits so that Oak Hill and Brown have too little classroom space by FY11 and by FY12, at Day. By FY14, all four middle schools have classroom deficits. This confirms that decisions about middle school program and team configuration will require budgetary and facility consideration.



Please see the following tables for a summary of the classroom space impact under various planning assumptions:

### Projected Middle School Classroom Shortage

#### No Redistricting

With Two Teacher Teams* Average Team Size 86 to 90						
	FY10	FY11	FY12	FY13	FY14	FY15
Bigelow	0	0	0	0	-4	0
Brown	0	0	0	0	-2	0
Day	2	2	-2	-6	-6	-6
Oak Hill	0	-2	-6	-6	-6	-6

With Four Teacher Teams** Average Team Size 79 to 90						
	FY10	FY11	FY12	FY13	FY14	FY15
Bigelow	0	0	0	0	-4	0
Brown	0	-4	-4	-4	-4	-4
Day	2	0	-4	-8	-8	-8
Oak Hill	0	-4	-8	-12	-12	-10

#### With Redistricting of Brown and Oak Hill

With Two Teacher Teams* Average Team Size 86 to 90						
	FY10	FY11	FY12	FY13	FY14	FY15
Bigelow	0	0	0	0	-4	0
Brown	0	0	-2	-2	-6	-6
Day	2	2	-2	-6	-6	-6
Oak Hill	0	-2	-2	-2	-2	-2

With Four Teacher Teams** Average Team Size 81 to 90						
	FY10	FY11	FY12	FY13	FY14	FY15
Bigelow	0	0	0	0	-4	0
Brown	0	-4	-4	-4	-8	-8
Day	2	0	-4	-8	-8	-8
Oak Hill	0	-4	-4	-4	-4	-8

\*Some individual grades within schools have team sizes in the high 90's, with a few exceptions reaching as high as 102 students.

\*\*All are four teacher teams except if team size falls below approximately 70 students.

The middle school principals continue to review both their facilities and the enrollment projections along with potential redistricting impact. Each principal has confirmed that he/she is managing with current space for this school year (FY10) year by taking the following actions:

Oak Hill: Existing space was supplemented by recapturing two classrooms that have been dedicated to World Language. Two World Language teachers are moving between classrooms in 2009-10.

Brown: Existing space is adequate to accommodate the 2009-10 student population.

Bigelow: Existing space is adequate to accommodate the 2009-10 student population.

Day: Existing space is adequate to accommodate the 2009-10 student population. However, as early as 2010-11, the middle school may need to go back to five lunch periods to order to make the small cafeteria workable.

In addition to adding modular classrooms to Oak Hill Middle School, a space study is needed at Day Middle School to assess the impact of space shortages as a result of increasing enrollment.

# NEWTON PUBLIC SCHOOLS

## FACILITIES

100 Walnut Street, Newtonville, MA 02460

AREA CODE (617) 559-9025

Office of Business, Finance and Planning

### Memorandum

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TO: James Marini, Superintendent

FROM: Sandra Guryan, Assistant Superintendent for Business, Finance and Planning

DATE: July 20, 2009

RE: Long Range Facilities Update

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This report provides summary information about the uses and needs for space at Brown and Oak Hill Middle Schools. Please refer to the three earlier memos on middle school space dated October 27 and December 8, 2008 and June 8, 2009 for the full analysis of enrollment, capacity, and redistricting review.

I. Three key points about middle school space at Oak Hill in particular:

1. There will be 558 students in 6 teams at Oak Hill in September 2009 and 600 students in 6.5 teams in September 2010. There are currently 24 team classrooms at Oak Hill. FY10 average team size is projected to be 93 students. In FY11, team size will be 92 students. Grade 6 will require the additional half team due to enrollment of 217 students, too many for 2 teams.
2. The enrollment grows at all middle schools including Oak Hill with the peak at 675 students in FY14. Brown Middle School enrollment will be at 774 students in FY14 and will peak at 784 students in FY16. Even at expected enrollment of 692 students in FY10 and 708 students in FY11, Brown does not have available space to incorporate students from Oak Hill, either through redistricting or through program re-location. Brown has 32 team classrooms for 8 teams which are expected for each of the next few years.
3. While 2 modulars are needed in FY11, two more are needed by FY12 at Oak Hill. Due to the expense of bid, design, and installation as well as the advantage of one fixed cost, it will be more efficient and more cost effective to install four modular classrooms at once before September 2010, rather than two at a time. The site plan has been proposed at the rear of Oak Hill with a loss of 12 parking spaces and good access to the school building.

II. There is no available space at Brown Middle School to absorb either students or programs from Oak Hill Middle School for the following reasons:

1. Each middle school has a different schedule and different start and end times. In order to use the space at Brown without disruption, both schools would need to be on the same schedule. This would require additional buses to and from both schools in both the morning and afternoon which will be too costly to implement. Additional traffic to the school sites presents a safety issue in and around the schools and neighborhood.

2. The introduction of the Extension Block (a 90 minute long block between 11:30 and 1:00 pm daily when lunch is also scheduled) precludes any available room being used between 11:30 and 1:00 pm each day. The Extension Block takes place during this time period when children engage in the following activities:

- Band
- Orchestra
- Chorus
- Latin
- Special Education services (i.e. OT, PT, APE, etc.)
- “Community Classroom” (homeroom)
- Sustained Silent Reading (SSR)

As mentioned, lunch is also scheduled during this time, with each grade having 1<sup>st</sup>, 2<sup>nd</sup>, or 3<sup>rd</sup> lunch two times over a six day cycle.

In order to accommodate all Extension Block classes and activities, every appropriate space is being used during this time and there is still a shortage.

3. Brown Middle School presently houses two city-wide Special Education programs for middle school students. City-Wide Special Education programs at the middle school level have been spread across the three larger schools (Brown, Day, and Oak Hill). If a Special Education program from Oak Hill were to be moved to Brown, that balance would be upset. Brown would have three programs and Oak Hill would have one, while Bigelow would have none.

III. Cost information for modular classrooms: Please refer to the attached spreadsheet which contains information from the Public Buildings Department on the estimated costs for both regular and “green” modular classrooms.

## Standard Modular vs. Green Modular Price Comparison

	<b><u>STANDARD</u></b> (150K-180K)		<b><u>GREEN*</u></b> (195K-234K)	
Modulars (4)	\$180,000	\$720,000	Modulars (4)	\$234,000 \$936,000
Link		150,000	Link	175,000
Site Work		50,000	Site Work	50,000
Utilities		50,000	Utilities	50,000
<b>SUBTOTAL</b>		<b>\$970,000</b>	<b>SUBTOTAL</b>	<b>\$1,211,000</b>
Contingency 5%		48,500	Contingency 5%	60,550
<b>SUBTOTAL</b>		<b>\$1,018,500</b>	<b>SUBTOTAL</b>	<b>\$1,271,550</b>
Design Fee 10%		101,850	Design Fee 10%	127,155
<b>TOTAL</b>		<b>\$1,120,350</b> **	<b>TOTAL</b>	<b>\$1,398,705</b> **

\*Green Modulars typically include:

- 1) Sustainable design techniques such as light shelves and increased exposure to daylight as well as key support elements for power and data.
- 2) Energy conserving HVAC system controls, lighting systems and controls, and building construction technologies.
- 3) Reduction of material requirements in the pre-fabricated process, virtually eliminating materials waste
- 4) Factory-controlled building to eliminate the potential for moisture damage and exposure to the elements.
- 5) Use of 'green" materials for flooring, ceiling materials, paint and siding.
- 6) Off-site construction which helps to lessen traffic on the building site.
- 7) High efficiency water conservation control devices and plumbing fixtures.

\*\*Cost does not include FFE and Technology.