

**Report on Classroom Space Needs for the Manhasset School District
(2006/07 – 2015/16)**

Background:

Over the past two years there have been numerous discussions regarding the overcrowding at Munsey Park. There have been planning meetings, bond proposal meetings, Manhasset School Board presentations and a Community Vote on the expansion of the Munsey Park School to add three classrooms. Even class size has been brought into the discussion on space needs. There has been much posturing on the overcrowded conditions in our schools.

This report will review the current space requirements for the Manhasset School Dist. using the latest available up-to-date information. The facts will be reviewed and conclusions will be made based on this information. A separate Analysis is made for each school – Munsey Park, Shelter Rock, Munsey Park and Shelter Rock combined and the Middle School and High School combined.

Over the past 15 years there has been a steady growth in the number of students who attend Manhasset schools. This need was foreseen in the mid 1990's and a major expansion of the schools took place to meet the growth needs that were projected at the time.

A Demographers Report was prepared in 2003 and updated in January 2006. These updated reports were prepared to determine the space needs for the next 10 years. The attached tables from the January 2006 Report are used in this Analysis.

There are several methods that are used to calculate the capacity of a school. There are different methods used for elementary schools and secondary schools. As listed in the Demographers Report, Manhasset uses 28 students per class for the secondary schools. The total capacity is 1,787. This number is multiplied by a 75% utilization factor bringing the number down to 1,340. This number is unrealistic and results in 25% of the school not being utilized. There are capacity studies (note 1) that recommend a utilization factor of 85% for Secondary schools. Using the 85% factor, the capacity would be 1,518 students. The elementary school capacity is computed based on a maximum class size of 21 students in kindergarten, 22 in grades 1 & 2, 23 in grade 3, 24 in grade 4, and 26 in grades 5 and 6. Using this method Munsey Park has a total capacity of 932 students in 41 classrooms averaging 22.7 students per class. This number is multiplied by a 90% utilization factor bringing the number down to 838. This is an unrealistically low number that assumes the capacity of the school is 20.4 students in each of 41 classrooms. This low number is what the School District would like class size to be, not what the actual capacity of the school is. The district uses this number when it states that Munsey Park is at over capacity and overcrowded. This is simply not true.

The capacity of a school is based on how many students a building can accommodate. A common standard is 25 students per classroom (note 1). If you use 25 students per class to calculate capacity, Munsey Park would have a capacity of 1,025 students less the 90% utilization factor or 923 which is 22.5 students per class. If 28 students were used, the capacity would be 1,148 students less 90% utilization factor or 1,033 which is 25.2 students per class. The Manhasset School Dist. uses the lowest of all the calculations.

Recommendation:

There is no need to upgrade the capacity of the Manhasset School District.

Munsey Park, Shelter Rock, Middle School & High School have enough capacity to meet the student projections over the next 10 years.

This is based on the following detailed analysis using the most recent demographers information, which is the lowest capacity numbers that could be used.

If more realistic building capacity numbers were used there would have been no capacity issues in the Manhasset School Dist.

The desire to have extremely low class size as the goal in the District and the use of unrealistically low maximum school capacity numbers has resulted in a distortion of what the actual capacity is. This resulted in the Manhasset School District proposing a recommendation for a \$62M Bond Issue and the most recent proposal of \$750,000 to provide 3 additional classrooms. These proposals were not necessary, since the capacity of the schools can adequately accommodate the current enrollment and the estimates for the next 9 years.

Manhasset Public School Association (MPSA)

Analysis:

Shelter Rock School:

The Latest Demographers Report (Jan 2006) shows that there are 36 Classrooms and a capacity of 843 Students at Shelter Rock. (Table 3-1 & 3-2). There are also 15 other classrooms not included in the capacity calculations. These specialized classrooms are used for art, music, special ed, science, computers etc. The Elementary School Capacity of 843 is computed based on a maximum class size of 21 students in kindergarten, 22 in grades 1& 2, 23 in grade 3, 24 in grade 4, and 26 in grades 5 and 6. These guidelines maintain the small class size as directed by the School Board.

The current enrollment (06/07) is 783 students. This is 93 % of the Capacity of the Shelter Rock School. The projections for the next 9 years follow: (Table 2-12)

Using the 25 students per class standard, Shelter Rock's capacity would be 900 students. The current enrollment of 783 students would be at 87% capacity.

The demographers report uses 843 students as the capacity less the 90% utilization factor or 759. Using this number Shelter Rock is over capacity this year but drops significantly over the next 9 years.

<u>06/07</u>	<u>07/08</u>	<u>08/09</u>	<u>09/10</u>	<u>10/11</u>	<u>11/12</u>	<u>12/13</u>	<u>13/14</u>	<u>14/15</u>	<u>15/16</u>	<u>Year</u>
783A	720	714	677	652	632	609	596	580	574	Student Projection
843	843	843	843	843	843	843	843	843	843	Capacity
93%	85%	85%	80%	77%	75%	72%	71%	69%	68%	Capacity %

Recommendations for Shelter Rock.

Shelter Rock currently has the Capacity to meet the space requirements for the next 10 Years.

The peak number of students is 783 this year. The estimates fall significantly over the next 9 years. There is no need to expand the Shelter Rock School. They actually have significant excess capacity which can be used to possibly accommodate some Munsey Park students should the need arise.

Manhasset Public School Association (MPSA)

Munsey Park School

The Latest Demographers Report (Jan 2006) shows that there are 39 Classrooms and a Capacity of 903 Students at Munsey Park. (Table 3-1 & 3-2) There are also 17 other classrooms not included in the capacity calculations. These specialized classrooms are used for art, music, special ed, science, computers etc. Today there are actually 41 classrooms in use at Munsey Park. See the attached Report to the Board related to Capital Reserve Project for Munsey Park dated 07/11/2006 & Demographers Table 2-13. The Maximum capacity is currently 932 Students. The Elementary School Capacity is computed based on a maximum class size of 21 students in kindergarten, 22 in grades 1& 2, 23 in grade 3, 24 in grade 4, and 26 in grades 5 and 6. These guidelines maintain the small class size as directed by the School Board.

The current enrollment (06/07) is 852 students. This is 91 % of the Capacity of Munsey Park School. The projections for the next 9 years follow: (Table 2-13) This year the enrollment was 26 students less than the estimate and 4 less than last year.

Using the 25 student standard, Munsey Park's capacity would be 1025 students. The current enrollment of 852 students would be below capacity at 83% capacity. The peak projection 910 would be at 89% of capacity.

The demographers report (updated to 41 classes) uses 932 students as the capacity less the 90% utilization factor or 838. Using this number Munsey Park is currently over the functional capacity, but not the actual capacity, Student enrollment drops significantly beginning years 2012/2013.

<u>06/07</u>	<u>07/08</u>	<u>08/09</u>	<u>09/10</u>	<u>10/11</u>	<u>11/12</u>	<u>12/13</u>	<u>13/14</u>	<u>14/15</u>	<u>15/16</u>	<u>Year</u>
852A	897	898	910	873	838	807	791	769	761	Student Projection
932	932	932	932	932	932	932	932	932	932	Capacity
91%	96%	96%	98%	94%	90%	87%	85%	83%	82%	Capacity %

Recommendations for Munsey Park.

Munsey Park currently has the Capacity to meet the space requirements for the next 10 Years.

There is no need to expand Munsey Park at this time. The peak estimate of 910 is in the year 2009/2010 and then continues to fall over the next 6 years. The Capacity peaks at 98%. This is a temporary situation, since the estimates fall significantly over the following 6 years. As reported above the Shelter Rock School has excess capacity starting next year and the numbers of students decrease significantly over the next 9 years. Students could be transferred from Munsey Park to reduce the capacity ratio.

Redistricting has been done successful in the past to address similar space imbalances. Using laptop computers negate the use of computer labs. Integrating computers into the instructional spaces would free up the current computer labs for additional classroom space and improve the education process.

Manhasset Public School Association (MPSA)

Shelter Rock & Munsey Park Combined.

If you combine the total projections for Munsey Park & Shelter Rock schools there is clearly no need to add additional capacity to the school system. The peak-combined enrollment is 1,635 this year. All future years show a decrease in estimated student population.

Using the 25 students per class standard as the guideline for determining capacity, the total capacity would be 1,925. The current enrollment of 1,635 students would be at 85% capacity. The demographers report uses a total 1,775 students as the capacity less the 90% utilization factor or 1,598. Using this number, the current enrollment of both schools is over the functional capacity by 37 students this year, 19 students next year and 15 students the following year. The actual enrollment drops dramatically over the next 7 years. Using actual capacity, the current enrollment is significantly under capacity for all 10 years.

The combined Shelter Rock & Munsey Park student projections compared to capacity follow:

<u>06/07</u>	<u>07/08</u>	<u>08/09</u>	<u>09/10</u>	<u>10/11</u>	<u>11/12</u>	<u>12/13</u>	<u>13/14</u>	<u>14/15</u>	<u>15/16</u>	<u>Year</u>
1635A	1617	1612	1587	1525	1470	1416	1387	1349	1335	Student Projection
1775	1775	1775	1775	1775	1775	1775	1775	1775	1775	Capacity
92%	91%	90%	89%	85%	83%	80%	78%	76%	75%	Capacity %

Recommendations:

There is no need to add additional space to the Munsey Park & Shelter Rock Schools based on the current Demographers estimates. Annual updated estimates should be performed to determine if there is any significant change in student population projections.

Manhasset Public School Association (MPSA)

Middle School & High School Combined

The Latest Demographers Report (Jan 2006) shows that there are 66 Classrooms and a capacity of 1,787 Students at the Secondary Schools (Table 3-1 & 4-2). Maximum class size in regular classrooms was calculated using 28 students per class.

The current enrollment (06/07) is 1275 students. This is 71 % of the Capacity of the combined schools. The demographers report uses 1,787 students as the capacity less the 75% utilization factor or 1,340. Using this number these schools are over the functional capacity for the next 8 years but not the actual capacity. The Demographers Report uses an unrealistically low functional number. If the 90% utilization factor were used, the functional capacity would be 1,608.

The projections for the next 10 years follow:

<u>06/07</u>	<u>07/08</u>	<u>08/09</u>	<u>09/10</u>	<u>10/11</u>	<u>11/12</u>	<u>12/13</u>	<u>13/14</u>	<u>14/15</u>	<u>15/16</u>	<u>Year</u>
1275A	1287	1314	1355	1423	1467	1519	1514	1526	1503	Student Projection
1787	1787	1787	1787	1787	1787	1787	1787	1787	1787	Capacity
71%	72%	74%	76%	80%	82%	85%	85%	85%	84%	Capacity %

Recommendations:

The Secondary schools currently has the Capacity to meet the space requirements for the next 10 Years.

There is no need to expand the secondary schools at this time. The peak estimate of 1,526 students is in the year 14/15. The Capacity peaks at 85% in 14/15. The current capacity is at 71%.

There have been discussions over the past few years regarding moving the 6th grade to the Middle School. There is not adequate space in the High School building to do this. Today there is approximately 240 students in the 6th grade. The current capacity of the building cannot incorporate this number of students without a major reconstruction of the building. As reported by the School Dist., there is no academic benefit for the students if they were moved to the Middle School. This is not recommended at this time.

Note 1. Defining Capacity By William S. DeJong, Ph.D., REFP

**Table 3-1
Summary of Capacities
of Elementary and Secondary Schools**

**Manhasset School District
Capacities Based on Classroom Utilization during the 2005-06 School Year**

School	General Class- rooms	Adj. Oper. Capacity 100%	90% AOC	80% AOC	75% AOC
Elementary (FDK)					
Shelter Rock	36	843	759		
Munsey Park	39	903			
Subtotal, K-6	75	1,746			
Secondary					
	Regular Instructional Spaces				
Manhasset Middle School & High School Grades 7-12	66	1,787		1,430	1,340

AOC = Adjusted Operational Capacity (100% Capacity)

FDK = Full-day Kindergarten

Note: School capacities are based on classroom utilization during the 2005-06 school year. This is important to note because school capacity can change somewhat from year-to-year as enrollments and instructional programs change. Because of the complexity of the middle and high school programs, and the fact that many classrooms are shared between the two programs, total school capacity was computed for the building treated as a grade 7-12 school.

For facility planning purposes, the 90% AOC (functional or operational capacity) should be used for the two elementary schools and the 75% AOC for the secondary school. These capacities are justifiable given the complexity of school programs, scheduling considerations, and the enriched curriculum offered in each school.

Elementary school capacity was computed based on a maximum class size of 21 students in kindergarten, 22 in grades 1 & 2, 23 in grade 3, 24 in grade 4, and 26 in grades 5 and 6. At the secondary school, maximum class size in regular classrooms was rated at 28 students. Specialized classrooms (art, music, technology) were rated based on the number of student stations, or on other instructional considerations.

Table 3-2
Elementary School Classroom Inventory
Manhasset School District
Classroom Use During the 2005-06 School Year

Maximum Class Size Grades K = 21, 1-2 = 22, 3 = 23, 4 = 24, 5-6 = 26 Students											
<u>Number of Classrooms</u>											
School	Grades	K	1-2	3	4	5-6	Total Clsrms Grade Instruct	Pull-Out Clsrms Auxilry Instruct	Total Clsrms Instruct	Other Small Instruct Spaces	Spec Educ Instruct Spaces
Shelter Rock		5	10	6	5	10	36	11	47	4	
Munsey Park		6	14	5	5	9	39	13	52	4	2
Totals		11	24	11	10	19	75	24*	99	8*	13

* See the specific inventory of classrooms below

Note: One classroom is used by BOCES. This is not included in the capacity for the school.

The number of classrooms listed in the "Pull-Out Clsrms Auxillary Instruction" column are, generally, regular classrooms in each school that are available for art, music, computers, science, and other specialized areas of instruction. These pull-out classrooms were not used in computing the capacity for each school.

If the number of classrooms needed at any particular grade should change in a school in a given school year, then the rated capacity for that school would change accordingly. For example, Shelter Rock's total capacity is based on the use of 5 classrooms for kindergarten (5 X 21 = 105 students), 10 classrooms for grades 1-2 (10 X 22 = 220 students), 6 classrooms for grade 3 (6 X 23 = 138), 5 classrooms for grade 4 (5 X 24 = 120), and 10 classrooms for grades 5-6 (10 X 26 = 260 students). Thus, based on the grade assignments in these classrooms, the total 100% capacity currently is equal to 843 students.

Inventory of Pull-Out Classrooms by School

Shelter Rock:

4 Music, 1 Computer Lab, 1 Science, 2 Art, 1 G&T, 1 Reading Lab, 1 Guidance = 11

Munsey Park:

4 Music, 1 Computer, 1 Science, 1 Art, 1 Dimensions/G&T, 1 Reading, 2 Speech,
 1 Math Lab, 1 Guidance, (BOCES classroom assigned to grade 4) = 13

Other Small Instructional Spaces

Shelter Rock: 2 ESL, 1 Speech/Lang, 1 Math Lab = 4

Munsey Park: 1 Reading, 1 Spanish, 1 Speech, 1 OT/PT = 4

Table 4-2

COMPARISON
7-12 FACILITIES TO ENROLLMENT PROJECTIONS

2006 - 2015

MANHASSET MIDDLE AND HIGH SCHOOL CAPACITY COMBINED

GRADES 7-12

School Year	Grade 7-12 Enroll	100% Oper Cap	Space Diff	75% Adj Oper Cap	Space Diff	% Space Util
2006-07	1248	1787	539	1340	92	93
2007-08	1287	1787	500	1340	53	96
2008-09	1314	1787	473	1340	26	98
2009-10	1355	1787	432	1340	-15	101
2010-11	1423	1787	364	1340	-83	106
2011-12	1467	1787	320	1340	-127	109
2012-13	1519	1787	268	1340	-179	113
2013-14	1514	1787	273	1340	-174	113
2014-15	1526	1787	261	1340	-186	114
2015-16	1503	1787	284	1340	-163	112

NOTE: SOME CLASSROOMS IN THE MIDDLE AND HIGH SCHOOL SCHOOL, WHICH ARE USED FOR SUPPLEMENTAL OR SPECIAL NEEDS INSTRUCTION, WERE TREATED AS "FULL-OUT" SPACES. THESE CLASSROOMS WERE NOT USED IN COMPUTING THE CAPACITY FOR THE SCHOOL.

MUNSEY PARK PROJECTED CLASSROOM NEEDS 2006-07 - 2012-13
 COHORT SURVIVAL / DEMOGRAPHER TABLE 2-13

Grade	Class Size Guideline	ENROLL. 2005-06*	2006-07 (7-11-06)	# Sections	2007-08	# Sections	If Sect. Added	2008-09	# Sections	If Sect. Added	2009-10	# Sections	If Sect. Added	2010-11	# Sections	If Sect. Added	2011-12	# Sections	If Sect. Added	2012-13	# Sections	If Sect. Added	# Classrooms Currently In Use: 41
K	21	115	95	5	n/a	6	6	n/a	5	5	# Classrooms Currently Available Per Demographer: 39												
			106	6	109	6		98	5		93	5		92	5		92	5		92	5		
1	22	139	127	6	112	6	6	n/a	6	7	n/a	6	6	n/a	5	6	n/a	5	6	n/a	5	6	
			138	7	125	6		128	6		115	6		110	5		108	5		108	5		
2	22	145	143	7	127	6	6	112	6	6	n/a	6	7	n/a	6	6	n/a	5	6	n/a	5	6	
			142	7	138	7		125	6		128	6		115	6		110	5		108	5		
3	23	101	144	7	143	7	7	127	6	6	112	5	6	n/a	6	6	n/a	5	6	n/a	5	5	
			144	7	141	7		137	6		124	6		128	6		115	5		109	5		
4	24	120	99	5	144	6	7	143	6	7	127	6	6	112	5	5	n/a	6	6	n/a	5	6	
			105	5	149	7		146	7		142	6		128	6		132	6		119	5		
5	26	115	121	5	99	4	4	144	6	6	143	6	6	127	5	6	112	5	5	n/a	6	6	Indicates enrollments where the addition of 5 students would require another section.
			122	5	107	5		151	6		148	6		144	6		130	5		134	6		
6	26	101	113	5	121	5	5	99	4	4	144	6	6	143	6	6	127	5	6	112	5	6	
			121	5	128	5		112	5		159	7		156	6		151	6		137	6		
I.D. Class				1	1	1		1	1		1	1		1	1		1	1		1	1		
# ClsRms. Needed				41	41	42		40	42		41	43		39	41		37	41		37	41		
If G/T Class Has Rm.				43	44			42			43			41			38			38			
				42	42	43		41	43		42	44		40	42		38	42		38	42		
				44	45			43			44			42			39			39			

* 2005-2006 Enrollment data based on December 23, 2005 Enrollment Report

Figure shown (112) assumes 17 additional First Grade students from Our Lady of Grace for 07-08, which represents average increase past 5 years based on information contained in the Feb. 2006 Demographer's Report (p. 43, Table 2-10)

Blue figures on chart are based on Feb. 2006 Demographer's Report (p.46, Table 2-13)

TABLE 2-12
 SHELTER ROCK ELEMENTARY ATTENDANCE AREA
 K-6 ENROLLMENT PROJECTION 2006 - 2015

	FORECAST MR	ACT ENR 2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
GRADES												
K	.442	93	84	87	78	74	73	73	73	73	73	73
1	1.101	100	102	92	96	86	81	80	80	80	80	80
2	1.013	106	101	104	94	97	87	83	81	81	81	81
3	1.018	121	108	103	106	95	99	89	84	83	83	83
4	1.004	97	121	108	104	106	96	99	89	84	83	83
5	1.020	115	99	124	111	106	108	98	101	91	86	85
6	1.022	108	118	101	127	113	108	111	100	103	93	88
K-6 TOT		740	734	720	714	677	652	632	609	596	580	574
SP. ED.		27	27	27	27	27	27	27	27	27	27	27
K-6 TOT ENR		767	761	747	741	704	679	659	636	623	607	601
CHANGE			-6	-14	-6	-37	-25	-20	-23	-13	-16	-6
% CHANGE			-.8	-1.8	-.8	-5.0	-3.5	-3.0	-3.5	-2.0	-2.6	-1.0
2006 - 2010 FIVE-YEAR AVERAGE % ENROLLMENT CHANGE = -2.4%												
STUDENTS AVERAGE CHANGE/YEAR = -18												

TABLE 2-13
MUNSEY PARK ELEMENTARY ATTENDANCE AREA
K-6 ENROLLMENT PROJECTION 2006 - 2015

	FORECAST	ACT ENR										
	MR	2005-06	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	2012-13	2013-14	2014-15	2015-16
GRADES												
K	.558	117	106	109	98	93	92	92	92	92	92	92
1	1.178	142	138	125	128	115	110	108	108	108	108	108
2	1.000	145	142	138	125	128	115	110	108	108	108	108
3	.996	102	144	141	137	124	128	115	109	108	108	108
4	1.031	120	105	149	146	142	128	132	119	112	111	111
5	1.017	115	122	107	151	148	144	130	134	121	114	113
6	1.050	101	121	128	112	159	156	151	137	141	127	120
K-6 TOT		842	878	897	898	910	873	838	807	791	769	761
SP. ED.		13	13	13	13	13	13	13	13	13	13	13
K-6 TOT ENR		855	891	910	911	923	886	851	820	804	782	774
CHANGE			36	19	1	12	-37	-34	-31	-17	-22	-8
% CHANGE			4.2	2.1	.1	1.3	-4.0	-3.9	-3.6	-2.1	-2.7	-1.0
2006 - 2010 FIVE-YEAR AVERAGE % ENROLLMENT CHANGE =						.7%						
STUDENTS AVERAGE CHANGE/YEAR =						6						