

10/00
645-5M/S

**Commonwealth of Massachusetts
DEPARTMENT OF EDUCATION
School Building Assistance
Middle/High School Educational Specifications**

Date: 5/28/03 Version #: 1
School District: Reading
School Name: Reading Memorial High School
Completed by: Gregg Schroeder, DPC, Inc. 500 Rutherford Ave. Charlestown, MA 617-241-9800
Type of Project: New School for _____ Students Addition of 131,846 SF Renovation of 152,525 SF
(Excludes Supt's Ofc, District SPED Ofc, District Maintenance)
Acquisition /Renovation of _____ Seats & Related Core Facilities

ENROLLMENT INFORMATION

Grades	Current Enrollments as of 10/1/02	Grades	Projected Enrollments as of 10/1/13
9	306	9	404
10	331	10	351
11	304	11	367
12	300	12	298
RISE Pre-K	30	RISE Pre-K	60
TOTAL	1271		1480

In order to determine the teaching station for the projected enrollment, the following information is needed to complete the Tables in this form.

- A) Subjects offered through project.
- B) Projected students in each class: the total number of students who will be taking each subject.
- C) Class size: the maximum proposed class size for each project.
- D) Sections: the number of sections of each course needed to serve the projected enrollment. Divide the total projected enrollment by the class size.
- E) Sessions per week: the number of times the class meets each week (usually 3 or 5).
- F) Periods per week: the number of periods each day times 5.
- G) Teaching stations required for program: multiply the number of sections by the sessions per week that each subject is taught.

TABLE A SPACE NEEDS SUMMARY

Total columns H,I,K, & N from Table I for all regular classroom curriculum including only those business and science courses that do NOT require specialized spaces; total all specialized teaching stations needed for basic educational use; then total all miscellaneous educational space and fill out the table below.

Teaching Station	# Needed	Sq.Ft. Area	# Available	Sq.Ft. Area	# New Stations Needed
GENERAL CLASSROOMS					
General Classroom	44	34,980	31	25,000	13
Science Classroom	2	1,560	-	-	2
Science Lab	13	16,440	-	-	13
Language Lab	1	1,190	1	1,190	
Computer Lab	5	6,160	1	1,000	4
Special Projects (Sci)	1	500	1	500	
Music Tech Lab	1	625	1	625	
RISE Pre-K	5	6,860	1	6,860	
Subtotal General Instruction:	72	68,315	36	35,175	32
SPECIALIZED TEACHING STATIONS					
Band	1	3,480	1	3,480	
Chorus	1	1,250	1	1,250	
Drama	1	1,350	1	1,350	
Art	3	4,735	3	4,735	
Graphics/Photo	1	1,250	1	1,250	
Physical Ed.	4	33,000	4	33,000	
Power/Mach/Wood	-	-	-	-	
Screen Printing	-	-	-	-	
Child Care/Foods	-	-	-	-	
TV Production	1	1,600	1	1,600	
Learning Center	2	2,190	1	1,095	1
Resource	8	2,970	3	1,200	5
Subtotal Specialized Teaching Space:	22	51,825	16	48,960	6

TABLE B
MISCELLANEOUS EDUCATIONAL SPACE

Station/Space	Sq. Ft. Required	Sq. Ft. Available	=	New Area Needed	Comments
Administration	4,430	-	=	4,430	
Auditorium/Stage	16,880	1,050	=	15,830	Capacity: 900
Cafeteria	7,100	-	=	7,100	Seatings: 3 for 1,420 pupils
Guidance	4,660	-	=	4,660	
Health Suite	1,050	-	=	1,050	
Library/IMC	8,100	8,100	=	-	
Locker/Shower Rooms	20,575	14,550	=	6,025	Weights, Trainer
Kitchen	3,600	-	=	3,600	Incl. Storage
Teachers' Planning & Dining	6,250	1,810	=	4,440	
Other:	5,155	2,860	=	2,295	School Storage, Receiving
Other:	3,400	-	=	3,400	Store, Clubs, Commons
Subtotal Miscellaneous Space	81,200	28,370	=	52,830	

OTHER SPACE (Non-Educational): 83,031 Sq. Ft.

TABLE C - SUMMARY OF SPACES FOR MAXIMUM CONSTRUCTION COST ALLOWANCE

Table C Summarizes the square footage of the educational program space in Tables A and B to determine the maximum allowable cost for the proposed school project.

TABLE C

Description of Space					(III) Total Planned	
	Sq. Ft.	%	Sq. Ft.	%	Sq. Ft.	%
1. Basic Educational	36,005	27%	84,135	55%	120,140	42%
2. Miscellaneous Educational	52,830	40%	28,370	19%	81,200	29%
3. SUBTOTAL (Basic+Misc.)	88,835	67%	112,505	74%	201,340	71%
4. Other Space	43,011	33%	40,020	26%	83,031	29%
5. TOTAL Gross (Educational+Other)	131,846	100%	152,525	100%	284,371	100%

D. MAXIMUM ALLOWABLE SQUARE FOOTAGE

The allowable square feet per pupil as provided for in the School Building Assistance Regs is 115 for elementary schools. The following other spaces may be approved in excess of this base and should be included in the table above.

Special Needs: (Yellow)	<u>12,020</u> Sq. Ft. (includes 6,860 RISE)	Collaborative: (Yellow)	<u> </u> Sq. Ft.
TBE: (Blue)	<u> </u> Sq. Ft.	Community: (Red) [1]	<u>35,228</u> Sq. Ft.
Remedial: (Green)	<u> </u> Sq. Ft.	Technology: (Orange) [2]	<u>19,680</u> Sq. Ft.

- [1] 1/2 Auditorium/Stage; 1/2 Field House;
- [2] # 656 of Computer Stations x 30 sq.ft.

Total Allowable Square Feet in Excess of Base: **66,928**

E. MAXIMUM ALLOWABLE CONSTRUCTION COST

The cost allowed per square foot for new school construction is published in the regulations and updated annually. Renovation costs vary widely depending on the age and overall condition of the existing schoolhouse and be reviewed on an individual basis by DOE staff prior to recommendation to the Board for approval.

Projected Enrollment x Sq. ft allowance + Total Approved Excess (Table D)	= Maximum Gross Sq.Ft.	
<u>60 x 115</u> + <u> </u> Sq. Ft.	= <u>6,900</u> Sq.Ft. RISE	
2. <u>1420 x 155</u> + <u>66,928</u> Sq. Ft.	= <u>287,028</u> Sq. Ft. High School	
	<u>293,928</u>	
Allowable Cost per Sq.Ft	x Gross Sq. Ft.	= Maximum Allowable Cost
\$173.00 (RISE) x	<u>6,900</u> Sq.Ft.	= <u>\$1,193,700</u> New
\$195.00 (HS) x	<u>287,028</u> Sq.Ft.	= <u>\$55,970,363</u> New
		= <u>\$57,164,063</u> Total

Note: The above calculations exclude Supt's Offices, District SPED Offices, and District Maintenance