School Facility Planning Report

March 15, 2014

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Introduction:

This report presents an overview of MMSD facility needs and a series of recommendations for consideration by the Board of Education. Our fifty school sites are vital assets in the Madison community. However, operating and maintaining these assets presents a wide range of challenges, from urgent and specific school capacity shortages to broad strategic facility issues that have long-range implications for the entire district.

The recommendations in this report are intended to:

- ✓ Provide ADA accessibility in seven of MMSD's school sites which currently lack a barrierfree environment
- ✓ Improve conditions for teaching and learning in 'at-capacity' schools as early as September 2015
- ✓ Renovate three MMSD schools which have poor Facility Condition Index (FCI) scores
- ✓ Upgrade the HVAC systems at the five combination elementary-middle schools to include air conditioning for summer programs
- ✓ Demonstrate responsiveness to community requests for facility improvements in arts, athletics, school forest, and planetarium
- ✓ Support a long-term facilities master plan to guide strategic decisions for the next decade

The recommendations listed above are inter-related. For example, a successful plan for addressing urgent capacity shortages will not only accomplish the primary purpose of relieving over-crowded schools. It will also lend credibility to MMSD's planning efforts and provide time to focus on long-term strategic considerations.

This report is based upon several earlier facility studies, the annual enrollment and capacity report, and is guided by MMSD's Strategic Framework. The specific sources are as follows:

•	MMSD Annual Enrollment and Capacity Report	January 2014
•	MMSD Strategic Framework	August 2013
•	MMSD Annual Enrollment and Capacity Report	January 2013
•	MMSD Facility Reinvestment Committee Report	April 2012
•	Durant Engineering Facility Evaluation Report	March 2010
•	Barton Mallow Architects – MMSD Facility Report	August 1996

Major Project Categories

The report is organized into five major facility categories:

- 1. ADA Accessibility Retrofits
- 2. School Additions to Address Capacity Shortages
- 3. Major Maintenance Projects
- 4. Community Partnership Projects
- 5. Long-range Facilities Master Planning

1. ADA Accessibility Retrofits

ADA retrofits will remove access barriers in multi-level schools. These schools were built before current building codes and do not have an elevator. These schools serve students, staff, parents and guests who have physical limitations. There are ten such facilities in MMSD. This plan addresses seven of the ten.

Recently Completed	<u>Proposed</u>	Pending ¹
Whitehorse-Schenk	Franklin	Randall
Emerson	Kennedy	Lowell
Toki-Orchard Ridge	Mendota	Allis
	Spring Harbor	
	Shorewood	
	Lake View	
	Midvale	

Retrofitting an elevator into an existing school is more expensive than it would be during new construction. However, given the mission of our public schools, where every child is welcome, a barrier-free environment should be a top priority.

We estimate an average cost of \$1MM per school site as a stand-alone project. However, to maximize the return on our capital investment, we will combine a new elevator tower with a new secure entrance to improve building security. In some cases, a new elevator tower will also include a new main office area, thus allowing the old office area to be converted into classrooms.

Kennedy Elementary provides a good example of stacking projects for increased cost efficiency. At Kennedy, we propose an elevator tower, thus gaining accessibility, with a secure entrance, and additional classroom capacity, all in one coordinated project.

2. School Additions to Address Capacity Shortages

The schools presented in this category are those in which enrollment regularly exceeds 90% of capacity, with enrollment expected to remain at current levels or increase over the next five years. We propose to expand the capacity of these schools to relieve space shortages and provide a margin for future enrollment.

Kennedy Elementary:

- In conjunction with building an elevator tower, add an expanded secure entrance, including new main office and two additional classrooms.
- Remodel existing office area to gain two additional classrooms for a total gain of four classrooms, providing the capacity needed to host a 4K program.

Sandburg Elementary:

- Build a gymnasium and four additional classrooms.
- Consider other design approaches, such as building a library plus 2-4 classrooms.

Van Hise / Hamilton (Elementary & Middle)

- Build a centrally located, shared library.
- Convert the two existing libraries back into classrooms, thus gaining six full size classrooms and providing the capacity needed to host a 4K program.

Lake View Elementary

 In conjunction with building an elevator tower, which would also provide a secure entrance area, add two classrooms, which would provide the capacity needed to host a 4K program.

Midvale Elementary

- In conjunction with building an elevator tower, add a new cafeteria.
- Convert the existing cafeteria into four classrooms.

Shorewood Elementary

• In conjunction with building an elevator tower, add a four-classroom addition. The additional classrooms are a relatively easy gain based on the building design.

Hawthorne

 Recommend a library addition and interior renovation to convert existing library to three new classrooms, which would improve access to an existing elevator.

3. Major Maintenance Projects

Each MMSD school carries a Facility Condition Index (FCI) rating (see attached table). The rating system establishes the priority list for school specific major maintenance projects.

In the summer of 2013, Elvehjem and Hawthorne received major maintenance renovations, which are defined here as a new energy plant, ceilings, lights, and related.

Following the FCI schedule, the next phase of school specific major maintenance projects would include these schools:

Major Maintenance Renovation:

- ✓ Huegel
- ✓ Mendota
- ✓ Black Hawk/Gompers (see below)

The Facility Condition Index identifies the need for air conditioning as an 'Instructional Use' priority. However, this factor does not carry significant weight in the actual rating, which was created prior to the summer of 2012.

To support summer programs, we recommend HVAC upgrades, including air conditioning, to all of the combined elementary/middle school sites:

- ✓ Black Hawk/ Gompers
- ✓ Marquette / O'Keeffe
- ✓ Toki / Orchard Ridge
- ✓ Whitehorse / Schenk
- ✓ Hamilton / Van Hise

These ten 'combination' schools would provide much needed flexibility for summer programming. They are geographically balanced within the school district and can support summer programs for 4K through eighth grade. Also, during the regular school year, these ten schools enroll over five thousand students, all of whom would benefit from the proposed HVAC improvements.

4. Community Partnership Projects

As noted earlier in this report, MMSD's short-term and long-term facility needs are inter-related. The projects included in this section provide an opportunity to demonstrate responsiveness, collaboration, and creative problem solving, all of which help build MMSD's credibility with key stakeholders and help prepare the way for long-term strategic facility solutions.

The projects included here have a public-private funding component. As with any private fund-raising effort, the timing and outcome are less than certain. Also, there may be, at this time, less community familiarity with the need and purpose for each of these projects. For these reasons, these projects require a more flexible funding plan and are recommended for non-referendum financing.

We would recommend that specific private fund-raising targets be established for each of the following possible partnership projects:

- East High School Theater Renovation
- Lussier and Mansfield Athletic Improvements
- School Forest Acquisition of Additional Forest Land

The MMSD portion of the project cost would be provided by a non-referendum note via the State Trust Fund or similar funding source. Debt service payments on non-referendum debt are funded within the school district revenue limit.

Part 5: District-wide Facilities Master Plan

Description: A Facilities Master Plan is intended to provide a flexible framework to manage the growth and development of the school district's facilities over the next ten years. Long-range planning is an institutional challenge for an organization as large and diverse as MMSD. The Madison community is a dynamic environment where the community development and demographic changes greatly impact facility needs. A Facilities Master Plan is typically updated every two years so the plan remains relevant and retains its ability to guide future MMSD decision-making.

Issues Which Impact a Facilities Master Plan

- ✓ Class Size Guidelines
- ✓ Future Locations for 4K
- ✓ MMSD Alternative Sites Plan
- ✓ Attendance Boundaries
- ✓ Over and Under Utilized Schools
- ✓ MMSD Rented Sites (e. g. Maywood)
- ✓ Open Enrollment Losses
- ✓ Instructional Program Changes (Hybrids, On-Line)
- ✓ Community Growth Trends

Specific Issues

- ✓ East Side Strategy
- ✓ South Side Strategy
- ✓ Four Major High Schools Long Term Viability and Needs
- ✓ Allied Drive Area

Recommendation # 1:

November 2014 School Bond Referendum

Project Estimate: \$39,500,000

- ✓ ADA Accessibility Retrofits
- ✓ School Additions to Address Capacity Shortages
- ✓ Major Maintenance Projects

Recommendation # 2:

Community Partnership Projects:

Project Estimate: \$5,000,000 / MMSD Share: To Be Determined

- ✓ East Theater Renovation
- ✓ Lussier and Mansfield Upgrades
- ✓ School Forest Acquisition

Recommendation # 3:

Organize a Facilities Master Planning Effort

Project Estimate: \$250,000

- ✓ Hire K-12 Architect to Lead the Effort
- ✓ Appoint Representatives for Instructional Vision & Community Input
- ✓ Fund the Planning Effort in the 2014-15 and 2015-16 Operating Budgets

Appendix A

Debt Service Planning:
November 2014
Referendum Options



Madison Metropolitan School District SUMMARY OF FINANCING SCENARIOS

SCENARIO	1	2
TOTAL INTEREST COST	\$19,586,063	\$21,116,513
MAX MILL RATE IMPACT (Per \$1,000 valuation)	\$0.16	\$0.22
TAX IMPACT ON PROPERTY WITH FAIR MARKET VALUE:		
\$100,000 Home Annual Impact Monthly Impact	\$16.00 \$1.33	\$22.00 \$1.83
\$200,000 Home Annual Impact Monthly Impact	\$32.00 \$2.67	\$44.00 \$3.67
\$300,000 Home Annual Impact Monthly Impact	\$48.00 \$4.00	\$66.00 \$5.50

Assumptions:

20-year Borrowing Interest Rate: 4.50%

Tertiary Aid Impact: -48.27%.

Mill rate based on 2013 Equalized Valuation (TID-OUT) of \$21,724,503,362 with annual growth of 0.00%. Does not include annual levies for 2012 Energy Efficiency Borrowing in Fund 38.

Appendix B

Master Facility
Condition Index (FCI)
Fall 2013

	Gross	Median Age of	Es	timated	Es	stimated	Facility	Current Grade	Fur	ount of nding Juired to		oposed e-Year	Projected Grade after Five Year Implementation
	Area	Facility	Re	placement	Co	st of	Condition	rre	Rea	ich a FCI	Replacement		jec e Y
Building	(Sq. Ft.)	(Years)	Va	lue	De	ficiencies	Score	Cm	Sco	re of 80	Bu	dget	Pro Fiv
Administration	84,200	74	\$	13,893,000	\$	6,543,600	53	F	\$	3,765,000	\$	160,300	F
Allied	10,350	44	\$	1,138,500	\$	120,100	89	В	\$	-	\$	3,900	Α
Allis Elementary	82,000	63	\$	13,530,000	\$	2,502,200	82	В	\$	-	\$	291,000	В
Blackhawk/Gompers	104,960	50	\$	17,318,400	\$	6,520,400	62	D	\$	3,056,700	\$	2,166,900	C
Chavez Elementary	88,000	13	\$	14,520,000	\$	248,700	98	A	\$	-	\$	32,800	A
Cherokee Middle	89,390	59	\$	14,749,350	\$	2,443,100	83	В	\$	-	\$	37,000	В
Crestwood Elementary	67,675	48	\$	11,166,375	\$	2,975,800	73	С	\$	742,500	\$	94,100	C
East High	460,388	69	\$	75,964,020	\$	20,583,900	73	C	\$	5,391,100	\$	642,600	C
Elvehjem Elementary	72,234	42	\$	11,918,610	\$	2,025,800	83	В	\$	-	\$	29,800	В
Emerson Elementary	71,760	88	\$	11,840,400	\$	1,874,600	84	В	\$	-	\$	320,200	В
Falk Elementary	66,525	39	\$	10,976,625	\$	3,365,500	69	D	\$	1,170,200	\$	923,700	C
Franklin Elementary	51,760	81	\$	8,540,400	\$	2,568,000	70	С	\$	859,900	\$	21,300	C
Glendale Elementary	78,875	55	\$	13,014,375	\$	2,199,900	83	В	\$	-	\$	32,400	В
Hamilton/Van Hise	124,977	52	\$	20,621,205	\$	4,937,300	76	C	\$	813,100	\$	539,700	C
Hawthorne Elementary	54,091	46		8,925,015	\$	471,900	95	A	\$	-	\$	20,200	Α
Hoyt Elementary	33,900	57	\$	5,593,500	\$	3,132,900	44	F	\$	2,014,200	\$	1,090,400	D
Huegel Elementary	64,000	36	\$	10,560,000	\$	3,457,400	67	D	\$	1,345,400	\$	2,034,300	В
Jefferson Middle	81,029	45		13,369,800	\$	5,606,400	58	F	\$	2,932,400	\$	33,300	F
Kennedy Elementary	67,220	48	\$	11,091,300	\$	3,625,900	67	D	\$	1,407,600	\$	300,500	C
La Follette High	330,861	49	\$	54,592,100	\$	16,830,800	69	D	\$	5,912,400	\$	136,100	D
Lussier	4,011	11		1,500,000	\$	41,900	97	A	\$	-	\$	-	A
Lake View Elementary	40,500	53	_	6,682,500	\$	1,760,700	74	C	\$	424,200	\$	346,800	C
Lapham Elementary	73,744	72	\$	12,167,800	\$	3,570,600	71	C	\$	1,137,000	\$	882,100	C
Leopold Elementary	93,308	36	\$	15,395,800	\$	2,437,800	84	В	\$	-	\$	156,600	В
Lincoln Elementary	58,822	46		9,705,600	\$	1,159,600	88	В	\$	-	\$	21,900	В
Lindbergh Elementary	34,475	47	\$	5,688,400	\$	1,293,600	77	C	\$	155,900	\$	12,900	C
Lowell Elementary	68,896	90		11,367,800	\$	2,023,200	82	В	\$	-	\$	306,900	В
Maintenance/Food Service	68,160	37	\$	7,497,600	\$	1,500,400	80	В	\$	-	\$	25,600	В
Mansfield Stadium	3,600	48	_	1,500,000	\$	406,900	73	C	\$	106,900	\$	1,400	C
Memorial High	365,868	43	_	60,368,200	\$	15,185,900	75	C	\$	3,112,300	\$	188,600	C
Mendota Elementary	49,400		_	8,151,000	\$	2,039,800	75	C	\$	409,600	\$	1,145,100	В
Midvale Elementary	64,950			10,716,800	\$	2,920,400	73	C	\$	777,000	\$	26,700	C
Muir Elementary	69,000			11,385,000	\$	3,127,600	73	C	\$	850,600	\$	853,200	В
O'Keeffe/Marquette	137,110			22,623,150	\$	5,702,900	75	С	\$	1,178,300	\$	276,700	C
Olson	86,396			14,255,300	\$	36,400	100	A	\$	-	\$	32,400	A
Randall Elementary	61,540			10,154,100	\$	2,070,300	80	В	\$	-	\$	107,800	В
Sandburg Elementary	42,864	43	_	7,072,600	\$	1,031,300	85	В	\$	-	\$	17,800	В
School Forest	6,287	51	_	408,700	\$	48,400	88	В	\$	-	\$	-	В
Sennett Middle	98,300			16,219,500	\$	3,393,200	79	C	\$	149,300	\$	168,000	В
Sherman/Shabazz	131,490			21,695,900	\$	4,993,200	77	С	\$	654,000	\$	72,300	C
Shorewood Elementary	60,950		_	10,056,800	\$	1,471,300	85	В	\$	-	\$	23,900	В
Spring Harbor	32,534	56	_	5,368,100	\$	1,911,900	64	D	\$	838,300	\$	427,100	С
Stephens Elementary	72,000			11,880,000	\$	2,342,300	80	В	\$	-	\$	27,100	В
Thoreau Elementary	58,500			9,652,500	\$	1,586,000	84	В	\$	-	\$	24,100	В
Toki/Orchard Ridge	113,907	51		18,794,700	\$	5,483,500	71	C	\$	1,724,600	\$	44,700	С
West High	362,112	64	_	59,748,500	\$	12,521,600	79	C	\$	571,900	\$	396,600	В
Whitehorse/Schenk	119,203			19,668,500	\$	4,173,600	79	C	\$	239,900	\$	235,200	В
Wright	55,150		_	9,099,800	\$	537,800	94	A	\$	-	\$	206,800	A
District Wide	4,517,272	53		742,147,625 otal Funding I		176,806,300	76	C	1		\$	14,938,800	C

Total Funding Required to Maintain a FCI of 80: \$ 41,740,300

Appendix C

Summary of
Air-Conditioned Spaces
2014

Summary of Air Conditioning Spaces

Madison Metropolitan School District

Building Services

3/5/2014

Cooled Floor Area (Sq. Ft.)	B (O1-1/4)
\ -	Percent Cooled (1)
	l ordent decida (1)
4 175	5%
4,512	8%
	34%
	16%
	60%
86,396	
512	1%
5,386	
15,822	12%
3,910	
1,666	
645	
2,245	4%
11,373	
289,690	
31,976	
	5,386 1,922 15,822 3,910 1,666 645 2,245 11,373 289,690 7,234

⁽¹⁾ Expressed as a percentage of gross area of the facility

⁽²⁾ West is currently undergoing a major energy renovation scheduled to be completed in the fall of 2014. Prior to this work approximately 16 percent was cooled.

Appendix D

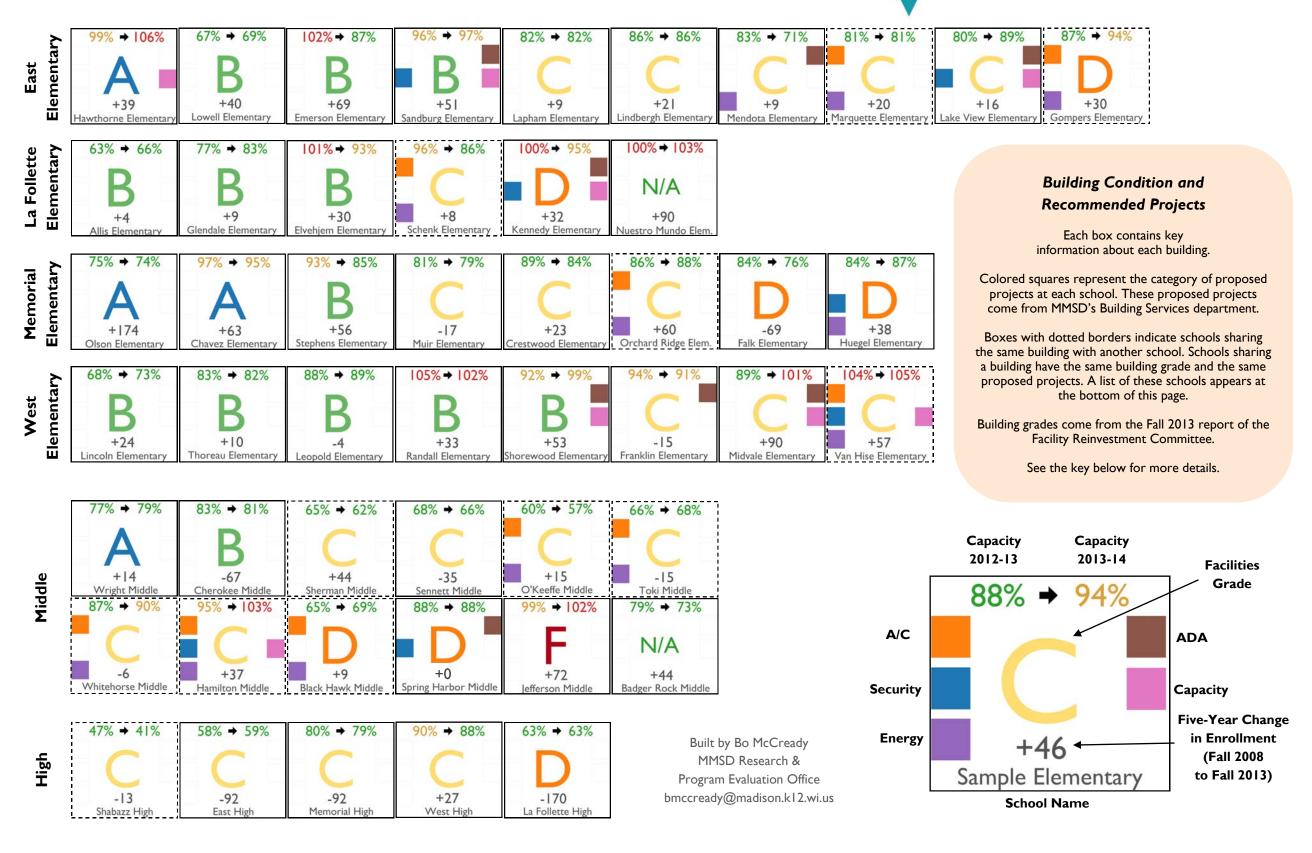
Long-Range Planning
Project Summary

				Туре						
Location	Project Description		ıdget	ADA	Security	Energy	HVAC	Capacity		
	Accessibility Addition and elevator									
Franklin Elementary	to serve 1955 addition	\$	1,150,000	•						
	Accessibility Addition with Main									
	Office, and renovation. Total of 4									
Kennedy Elementary	additional classrooms.	\$	1,750,000	•	•			•		
Mendota Elementary	Accessibitily Addition	\$	700,000	•						
Mendota Elementary	Upgrade HVAC System	\$	2,800,000			•	•			
	Accessibility Addition with Main									
Spring Harbor Middle	Office relocation	\$	1,250,000	•	•					
Shorewood Elementary	Accessibility Additions	\$	1,200,000	•						
Shorewood Elementary	Classroom Addition - 4 classrooms	\$	1,000,000					•		
Lake View Elementary	Accessibility Addition	\$	750,000	•	•					
Lake View Elementary	Classroom Addition - 2 classrooms	\$	500,000					•		
Midvale Elementary	Accessibility Addition	\$	1,000,000	•						
	Classroom Renovation - Renovate									
	Cafeteria into 4 classrooms & add									
Midvale Elementary	kitchen to existing gym	\$	1,000,000					•		
Huegel Elementary	Upgrade HVAC System	\$	1,500,000		•	•	•			
Black Hawk/Gompers	Upgrade HVAC System	\$	4,500,000			•	•			
O'Keeffe/Marquette	Upgrade HVAC System	\$	3,500,000			•	•			
Toki/Orchard Ridge	Upgrade HVAC System	\$	4,500,000			•	•			
Whitehorse/Schenk	Upgrade HVAC System	\$	3,000,000			•	•			
Hamilton/Van Hise	Upgrade HVAC System	\$	3,000,000			•	•			
Sandburg Elementary	Gym & 4 classroom Addition	\$	2,200,000	•	•			•		
	LMC Addition & Internal									
Hamilton/Van Hise	Renovation to Create 6 classrooms	\$	2,200,000					•		
Hallintolly vall tilise	LMC Addition and Interior	٦	2,200,000							
Hawthorne	renovation - 3 classrooms	\$	2,000,000					•		
	Total Budget	\$	39,500,000							

Appendix E

The MMSD Periodic Table of Facilities

MADISON METROPOLITAN SCHOOL DISTRICT



Gompers-Black Hawk

Schenk-Whitehorse

Sherman-Shabazz

Marquette-O'Keeffe

Shared Buildings

Orchard Ridge-Toki

Van Hise-Hamilton