Department of Public Facilities Progress Report To School Committee Update on the Ten – Year Master Plan



Pat Goddard / Shawn Newell October 19, 2010



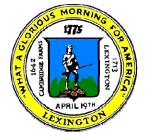
Agenda

Organization Update

Accomplishments

Objectives

Back Up Information

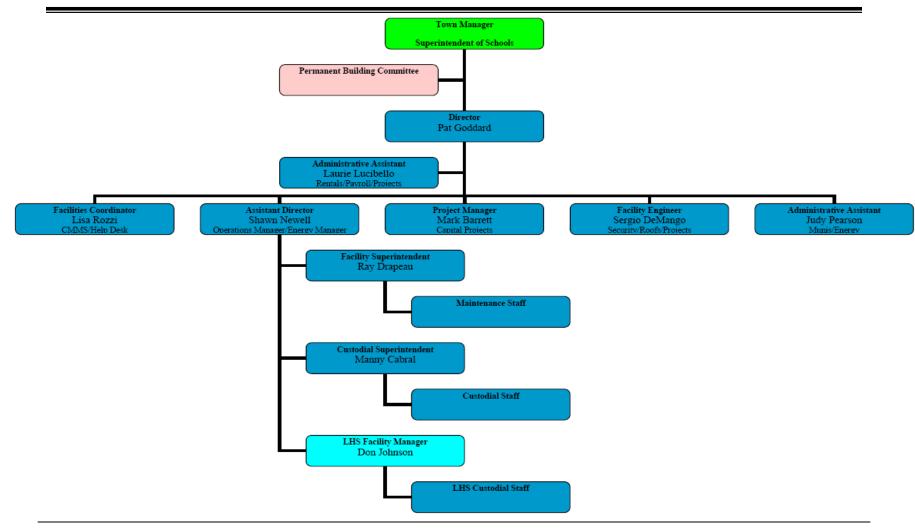


DPF Organization Update

- Don Johnson hired as LHS Facility Manager June, 2010
- LHS Facility Manager oversees and manages all DPF functions at LHS
- Day shift and night shift assistant head custodians report to the Facility Manager
- LHS Facility Manager insures that DPF staff support the educational needs of LHS
- Don Johnson most recently was the Assistant Director of Facilities at Reading Public Schools and has technical proficiency in building controls



DPF Organization





Custodial

Partnered with custodial staff on snow and ice support to keep school safe

Partnered with custodial staff on new flex system wide custodial position to be able to respond to absences and events

Implemented Kronos time and attendance system to improve efficiency staffing



Maintenance

Utilizing planning and improved PM program to reduce reactive work and increase planned work

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7/1/07 - 6/30/08 (2,740 work orders)
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7/1/08 - 6/30/09 (2,874 work orders)

7/1/09 - 7/30/10 (3,419 work orders)



Utilities

Energy Challenge, school buildings on target and have achieved 9% reduction after two years

Energy Champions received 83% commitment to Energy Challenge from school employees

Energy projects in process 2010

- 1) ARRA Grant Central Office Boiler conversion
- 2) Diamond Middle School Boiler controls
- 3) NSTAR energy link being added to Diamond and LHS to track peak demand times



Safety & Security

- Implemented improvements to the reliability of existing intrusion alarms, added sensors as required and activated alarm systems for all school buildings
- Commissioned access control for Harrington and Fiske, added access control to Hastings and Estabrook and in process of adding access control to Diamond and Clarke so that all elementary and middle schools can control access during school hours. Partial access control has been installed at LHS for use on weekends
- Security cameras are in operation at Harrington, Fiske, Clarke, and LHS
- All fire alarm system are on quarterly inspection schedules and are now monitored
 24 hours a day by alarm monitoring company
- DPF operational staff rotate 24/7 on call duty to respond to fire and intrusion alarms



Project Management

- 13 FY 2011 capital projects authorized
- Nine of 13 projects have been completed, or will be completed in October
- Procurement complete on two projects
- Two remaining projects to be bid and completed this winter
- Back log of capital projects has been eliminated



 Negotiate new contract with SEIU that recognizes the hard work and dedication of the custodians and maintenance employees while also presenting opportunities for SEIU to partner with management on operational efficiencies.



Progress 10 Year Facility Master Plan:

- Complete design of Bridge & Bowman renovation
- Green Repair SOI submitted to MSBA for Bridge/Bowman/LHS
- Submit Emergency SOI for Estabrook
- Work with DPW/Engineering to make improvements to Robinson Road for Estabrook construction



Project Management

- Continue to plan projects that sustain school facilities for educational objectives, prioritizing building envelope and environmental control
- Continue to plan projects that enhance operational efficiency, such as energy efficiency and equipment and system reliability



Back Up



FY 2011 Capital Projects

2010 Tow	n Meeting	FY 2011
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		Project	Total				
LOCATION	PROJECT/ DESCRIPTION	Manager	Approved	Actual	Encumbered	Available	Comments
Art 16 Public Facilit	ties Capital						
LHS	School Building Roofing Program	S. DeMango	\$147,400	\$66,405	\$3,495	\$77,500	Complete, LHS Auditorium Roof.
Clarke	Auditorium Upgrade	M. Barrett	\$174,000			\$174,000	Fall/winter project Began design meetings September with
Bridge/Bowman	Renovation	M. Barrett	\$750,000		\$680,000	\$70,000	Design Partnership of Cambridge
District Wide	Accessibility Improvements	S. DeMango	\$30,000		\$24,140	\$5,860	Implemented Clarke, Bridge, Hastings, Estabrook, & CO. LCP in progress
CO	Removal of Modulars	S. Newell	\$30,000			\$30,000	Planned for November, 2010
Hastings	Modular Upgrade	S.DeMango	\$75,000	\$45,388	\$15,584	\$14,028	Implemented, complete October 2010
Hastings	Cabinetry	M. Barrett	\$38,000	\$54,308	\$43	(\$16,351)	Complete
	School Building Flooring Program						Complete, Clarke stairwells and ground
Clarke	School Building Flooring Frogram	S. Newell	\$100,000	\$106,960	\$5,485	(\$12,445)	floor VCT.
Diamond	Boiler Controls	S. Newell	\$30,000			\$30,000	Planned for December 2010
LHS	ILP Space	S. Newell	\$75,000	\$47,120	\$1,671	\$26,209	Complete
			\$378,000	\$253,776	\$46,923	\$77,301	-
District Wide	Building Envelope	S. DeMango	\$125,000		\$125,000	\$0	Complete Clarke October 28, 2010
Hastings	Parking Area Improvements	S. Newell	\$50,000	\$20,000	\$11,304	\$18.696	Complete, Hastings parking improvements and water infiltration
Estabrook	Playground	S. DeMango	\$125,000	\$129,661	* , =		Complete
			\$175,000	\$149,661	\$11,304	\$14,035	



FY 2010 Capital Projects

LOCATION	PROJECT/ DESCRIPTION	<u>Project</u> Manager	Total Approved	Actual	Encumbered	Available	Comments
Art 19 Public Facilities	Capital						
LHS	LHS Gillespie Auditorium Renovation	M. Barrett	\$305,000	\$239,689	\$704	\$64,607	Sound system 2009, complete Complete, modifying controls program to
LHS	LHS Heating System Upgrade	M. Barrett	\$350,000	\$316,629	\$0	\$33,371	address cold complaints.
District Wide	School Building Roofing Program	S. DeMango	\$201,500	\$146,117	\$0	\$0	Complete, \$55,383 returned
	Relocate Old Harrington Playground						
District Wide	Structures	S. Newell	\$40,000	\$39,445	\$0	\$555	Complete
Bowman	Bowman Play Area Improvement	S. Newell	\$80,000	\$50,504	\$0	\$0	Complete, \$29,496 returned
LHS	LHS Elevator Piston Replacement	S. Newell	\$40,000	\$22,465	\$2,500	\$15,035	Complete, awaiting state inspection.
District Wide	School Building Envelope Program	S. DeMango	\$125,000	\$49,329	\$77,374	(\$1,703)	Clarke Middle School, in process, complete September 2010
District Wide	School Accessibility Improvements	S. DeMango	\$50,000	\$27,615		\$0	Completed, LHS, Diamond, Harrington, Fiske, Bowman. \$22,385 returned
Art 4 2009 STM Public	Facilities Capital						
Clarke	Relocate/Add Sprinkler Heads	M. Barrett	\$84,324	\$61,411	0	\$22,913	Complete



FY 2009 Capital Projects

2008 Town Meeting F	<u>Y 2009</u>						
LOCATION	PROJECT/ DESCRIPTION	<u>Project</u> <u>Manager</u>	<u>Total</u> <u>Approved</u>	Actual	Encumbered	Available	Comments
Art 9 Community Preser	vation Act						
Harrington/District Wide	Supplement	S.DeMango	\$35,135	\$19,278	\$0	\$15,857	Complete
Harrington/District Wide	Preschool Play Ground	S. DeMango	\$75,000	\$75,000	\$0	\$0	Complete
							Superintendent's Area and Lobby in process,
LPS Central Administration	School Administration Building	M. Barrett	\$151,461	\$128,093	\$23,369	\$0	complete October '10
Art 18 School Capital							
	Pre-K - 12 Master Plan (including						
District Wide	detailed LHS plan)	P. Goddard	\$155,000	\$153,887	\$0	\$1,113	Complete
Art 19 Public Facilities (<u>Capital</u>						
Bowman/Estabrook	Install lockers (per LFD)	M. Barrett					Complete
	Mechanical System Replacement,						
Clarke	Phase 2	M. Barrett					Complete
District Wide	Roofing renovation	S. DeMango					Complete
Diamond	Auditorium	M. Barrett					Complete
Clarke/Diamond	Extraordinary Repairs	S.DeMango					Complete
LHS	MST department construction	M. Barrett					Complete
Estabrook/Bridge	Safe Parent Pick Up and Parking	S. DeMango					Complete
Estabrook	Remove Estabrook Oil Tank	S. Newell					Complete



FY 2008 Capital Projects

2007 Town Meeting FY 2008

LOCATION	PROJECT/ DESCRIPTION	<u>Project</u> Manager	<u>Total</u> Approved	Actual	Encumbered	Available	Comments
Art 34 School Capital							
LHS	Energy efficient lighting for Athletics	Complete				\$0 Complete	е
LHS	Mechanical Systems Bldg G, H, J, F Demand ventilation and controls for	M. Barrett				\$0 Complete	е
District Wide Dia./Esta/Brid/Bow/Hast.	large areas Replace all steam traps	Complete Complete				\$0 Complete	
(Bridge, Bowman, Hastings) District Wide		Complete Complete				\$0 Cancelle \$0 Complete	d
District Wide	Interior finishes (10 year cycle)	Complete				\$0 Complete	
3)	Central Office (relocation to "old Harrington")	Complete				\$0 Complete	е
LHS	Renovate mens'/womens' locker rooms (add lockers)	Complete				\$0 Complete	е
LHS	Ventilation, HVAC - LHS pottery room; AC - LHS Foreign Lang. Lab; AHU LHS kitchen; AHU LHS music	M. Barrett				\$57,949 Kitchen	Exhaust modifications in process
LHS	composition room, IT Center Mechanical Systems Bldg G, H, J, F Retro-Com Rpt 3, 9	M. Barrett				\$0 Complete	e
Hastings	Install lockers (per LFD)	Complete				\$0 Complete	e
Estabrook	Paving - modify drop off area	Complete				\$0 Complete	e
Estabrook	HVAC deferred maintenance	Complete				\$0 Complete	e
Clarke	Mechanical System Replacement	M. Barrett				\$0 Complete	e
LHS	Auditorium repairs	M. Barrett				\$0 Painting	seating, stage, and carpeting



FY 2007 & 2006 Capital Projects

2006 Town Meeting	FY 2007						
LOCATION	PROJECT/ DESCRIPTION	<u>Project</u> <u>Manager</u>	<u>Total</u> <u>Approved</u>	<u>Actual</u>	<u>Encumbered</u>	<u>Available</u>	Comments
Clarke	Clarke Bleachers	Complete				\$0	Complete
District Wide	Strategic Plan for Elementary Schools	Complete				\$0	Complete
Bridge	Bridge School Lockers	Complete				\$0	Complete
Diamond	Diamond Auditorium Roof	Complete				\$0	Complete
Diamond	Diamond Digital Temp. Controls	Complete				\$0	Complete
LHS	LHS Auditorium Repairs	M. Barrett				\$0	Complete
LHS	LHS Bleachers	Complete				\$0	Complete
LHS	LHS Digital Temp. Controls	Complete				\$0	Complete
LHS	LHS Gym and Science Building Roof	Complete				\$0	Complete
LHS	LHS Univent and Pipe Replacement	Complete				\$0	Complete
2005 Town Meeting	FY 2006						
District Wide	Exterior Lighting	S. DeMango	\$57,706	\$0	\$0	\$57,706	Retrofit school street lights with DPW project to induction, Bridge & Diamond.



10 Year Roof Replacement Plan

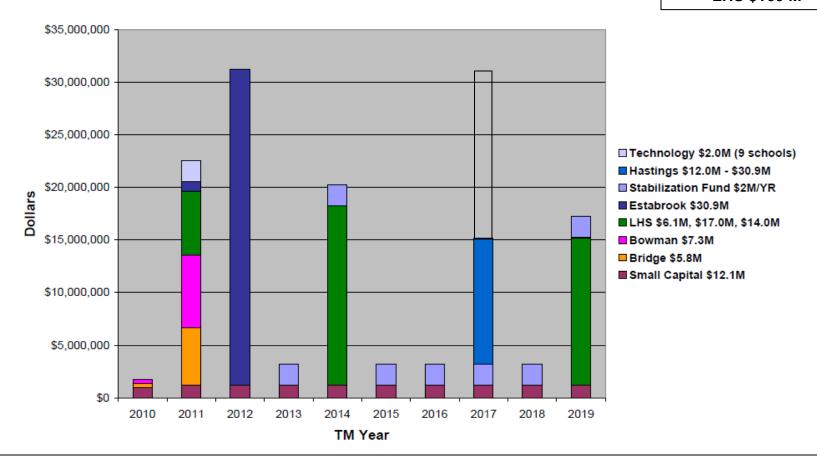
Bidg. Name	Roof Type		Work Item	2008 Cost	Recommended										
		(SF)			Work Year		Complete								
					Summer	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018
4 -4	BUB	4.700	BI	050 500	2002	250 500									
Estabrook School - Area C partial	BUR	4,700	Replace	\$52,500	2008	\$52,500									
Estabrook School - Area C partial	BUR	12,810	Replace	\$160,125	2009							\$195,352			
Estabrook School - Area D	BUR	8,500	Replace	\$97,750	2010							\$119,255			
Estabrook School - Area E	BUR	3,930	Replace	\$49,125	2011							\$59,932			
Estabrook School - Area F	BUR	8,400	Replace	\$96,600	2012							\$117,852			
Estabrook School - Area G	BUR	6,200	Replace	\$74,400	2013							\$90,768			
Estabrook School - Areas A & B	EPDM	6,635	Replace	\$79,620	2014							\$97,136	4	Cob col	
_			Remaining	\$557,620								\$680,295	Estabrook N	iew School	
2 Bowman School - Areas E & F	EPDM/BUR	16,800	Replace	\$235,000	2009				\$244,400						
Bowman School - Areas A & B		21,000	Replace	\$290,000	2010				\$313,664						
Bowman School - Area C	EPDM/BUR	19,000	Replace	\$265,000	2011				\$298,089						
Bowman School - Area D		11,200	Replace	\$155,000	2012				\$181,328						
Bowman School - Area G	EPDM	3,000	Replace	\$40,000	2013				\$48,666	Bowman Renova	tion/				
			Remaining	\$985,000					\$1,086,147	Green Repair					
3 Bridge School - Areas A, B, C, D	MOD. BIT.		Repairs	\$8,000	2009		\$8,320								
4 Clark School - Area B	EPDM	5,400	Replace	\$73,000	2008	\$73,000									
Clark School - Area A	EPDM		Repairs	\$4,500	2008	\$4,500									
5 Diamond School - Area I	EPDM	1,600	Replace	\$11,000	2009								\$11,440		
Diamond School - Area J	PVC	5,800	Repairs	\$3,000	2009		\$3,120								
Diamond School - Area J	PVC	5,800	Replace	\$70,000	2017										\$99,632
Diamond School - Areas B thru G	EPDM	20,800	Replace	\$265,000	2015								\$348,722		
6 Hastings School - Areas A & B	Shingle		Repairs	\$8,000	2009		\$8,320								
Hastings School - Area P	PVC	6,500	Replace	\$85,000	2010		\$91,936								
_															
7 High School - Area J partial	BUR	7,600	Replace	\$95,000	2008	\$95,000									
High School - Area D8	BUR	4,740	Replace	\$65,000	2011		\$73,116		Tax Levy						
High School School - Area D1	BUR	8,930	Replace	\$115,000	2012			\$134,400							
High School - Area J partial	BUR	15,567	Replace	\$190,000	2013				\$222,273						
High School - Area H	BUR	23,205	Replace	\$280,000	2014				\$327,560						
High School - Area C	BUR	10,395	Replace	\$120,000	2015				\$140,383						
High School - Areas E2,D2,D4,B1	EPDM		Repairs	\$3,500	2008	\$3,500				Green Repai	r				
High School - Fieldhouse shingles	Shingle	17,000	Replace	\$200,000	2016				\$224,972						
			Remaining	\$790,000					\$915,188						
8 Central Admin Areas E, F, G, H	EPDM	11,100	Replace	\$135,000	2009					\$157,930					
				Total	\$3,454,243	\$228,500	\$184,812		\$1,086,147	\$0	\$0	\$1,360,590	\$360,162	\$0	
					Engineering		\$18,000	\$13,000	\$120,000	\$91,000		\$136,000	\$36,000		\$10,000
					Project Total		\$202,812	\$147,400	\$1,206,147	\$91,000	\$0	\$1,496,590	\$396,162	\$0	\$109,632



10 Year Facility Master Plan

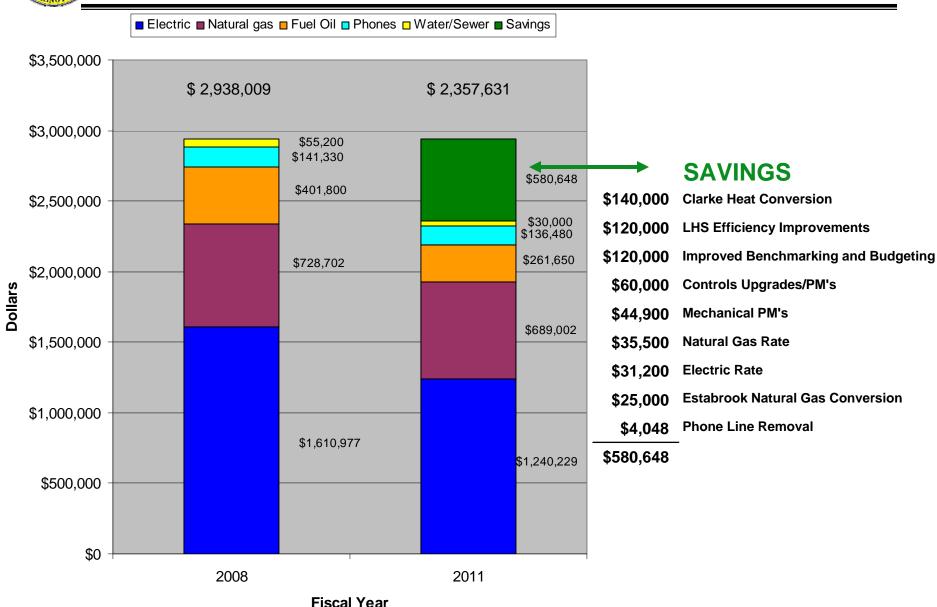


2020 -2029 TM LHS \$160 M





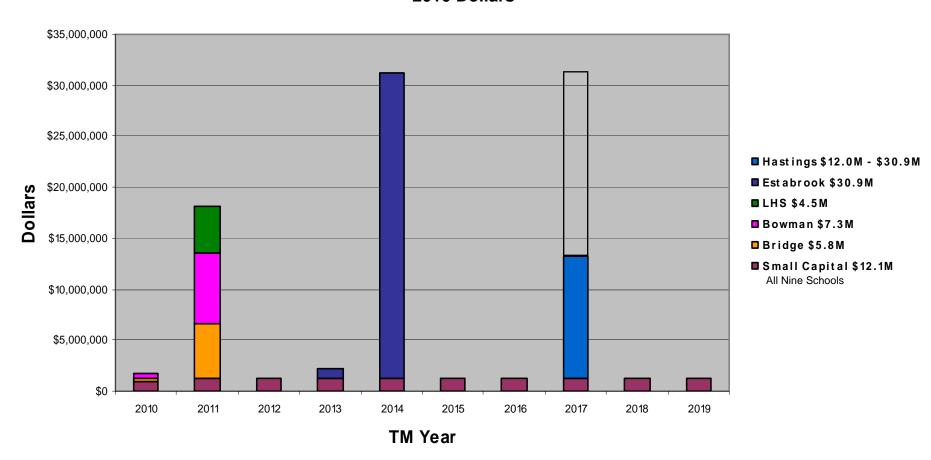
School Utility Budget Savings





10 Year School Facility Capital Spending With Out MSBA Approval of LHS Project

Total School Facility Capital Spending \$72.6M - \$91.5M 2010 - 2019 TM 2010 Dollars



Projects Identified in 20% Reduction Green Community Plan

				Green Repair	<u>Project</u>	
	<u>Windows</u>	Roof	Boiler/ HVAC	<u>Total</u>	<u>Balance</u>	Total Project
Lexington High School	\$1,465,378	\$1,532,600	\$3,098,122	\$6,096,100		\$6,096,100
Bridge Elementary	\$755,201	\$0	\$1,632,140	\$2,387,341	\$3,389,705	\$5,777,046
Bowman Elementary	\$605,202	\$1,185,000	\$1,616,340	\$3,406,542	\$3,895,353	\$7,301,895
Total Project	\$2,825,781	\$2,717,600	\$6,346,602	\$11,889,983		\$19,175,041
40% MSBA				\$4,755,993		(\$4,755,993)
Lexington Net Costs					•	\$14,419,048

(Costs estimates from Design Partnership of Cambridge 2009 PreK-12 Master Plan)

Massachusetts School Building Authority (MSBA) is utilizing ARRA funds to support energy projects for schools

DRAFT.JGS.10.19.10 -- Capital challenges all 9 schools.

Budget Year	FY	′ 11	FY	'12	FY	FY13		FY14		FY15		FY16	
Year	2010	20	11	20	12	20	13	20	14	20	15	2016	
Season	FALL	SPR	FALL	SPR	FALL	SPR	FALL	SPR	FALL	SPR	FALL	SPR	
ESTABROOK													
Scenario 1 Apply for Emergency SOI MSBA approves.	Apply	MSBA YES \$800K - 1M(?) design funds for a model school.*	Note: special ed. facility needs & Enrollment	MSBA YES \$XM D/E May/June [X=30/18]	BUILD	BUILD	BUILD	Open?			**Note: PI PCBs at E requires u EPA ord respect t Emerge would help process a decrease	Estabrook s to follow lers with to timing. ncy SOI to us speed and helps	
Scenario 2 ER SOI not granted. Apply SOI. MSBA approves SOI	Apply	Wait	Wait (could know here)	MSBA YES \$800K- 1M design funds for a model school.*	Design Note: special ed. enrollment	If MSBA YES \$18M D/E May/June	BUILD	BUILD	BUILD	Open?	*Note of schools: a model save \$\$ a the property special efacility not growing effective.	chool can and speed ocess. we have ducation eeds and nrollment.	
Scenario 3 No MSBA approval. NOW	\$1.05M Design funds	Design phase *spec ed *enroll.	\$30 M D/E fall	BUILD	BUILD	BUILD	Open?					ustomize	
Scenario 4 No MSBA approval. WAIT		←wa	iting→	\$1.05 Design funds	Design phase *spec ed *enroll.	\$30 M D/E fall	BUILD	BUILD	BUILD	Open?			