

MSBA Green Repair Program

Lexington High School



Department of Public Facilities

Pat Goddard

November 30, 2010



LHS Green Repair SOI

Lexington Public Schools submitted a LHS Green Repair SOI seeking support for three categories:

- **Boiler Upgrade (\$3.1M)**
- **Roof Replacement (\$1.2M)**
- **Window Upgrade (\$1.4M)**

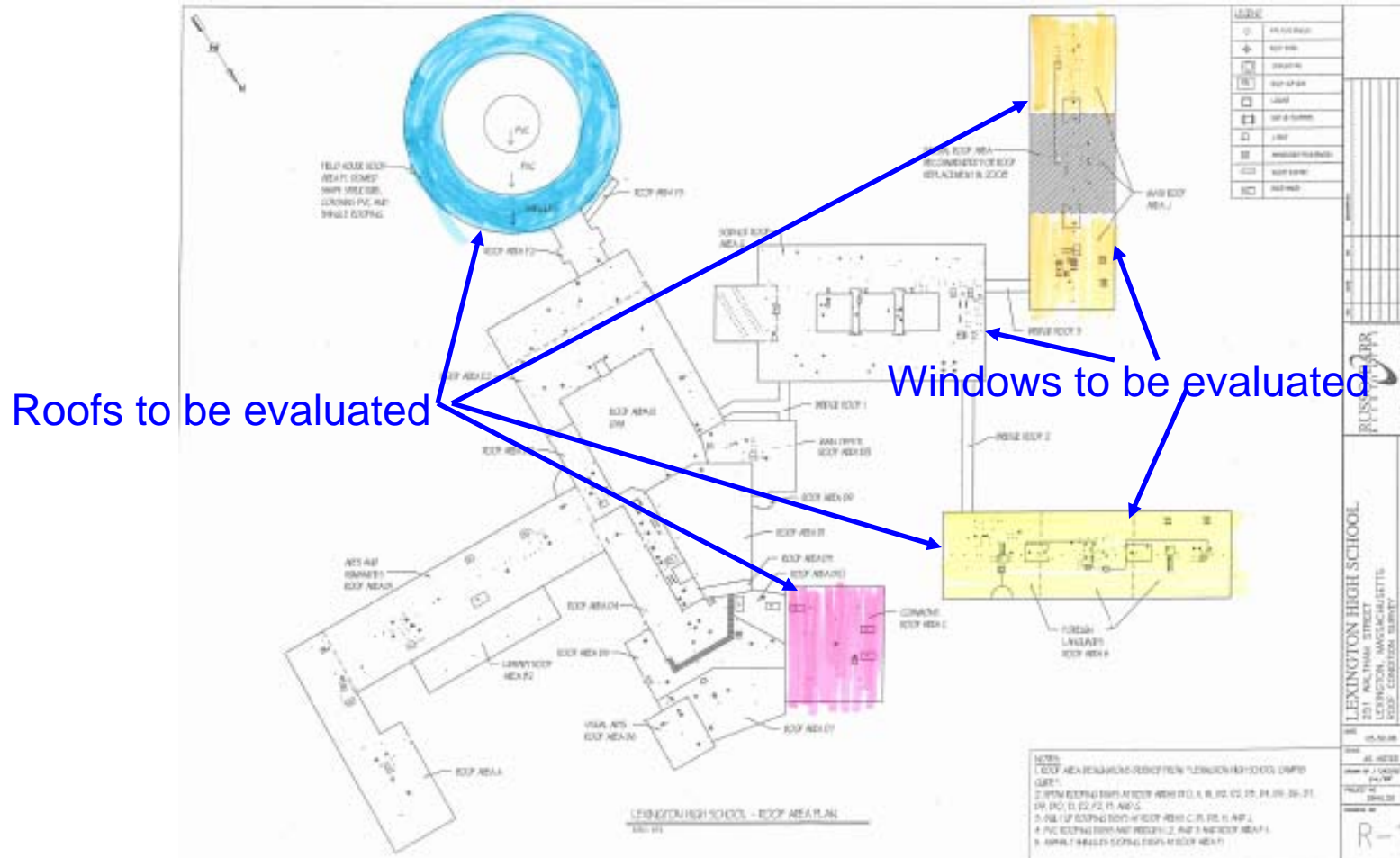


MSBA Response

- The MSBA has invited Lexington to participate in the Green Repair program for LHS roofs and windows.
- The MSBA did not qualify the LHS boiler work for inclusion in the program.



LHS Roofs & Windows



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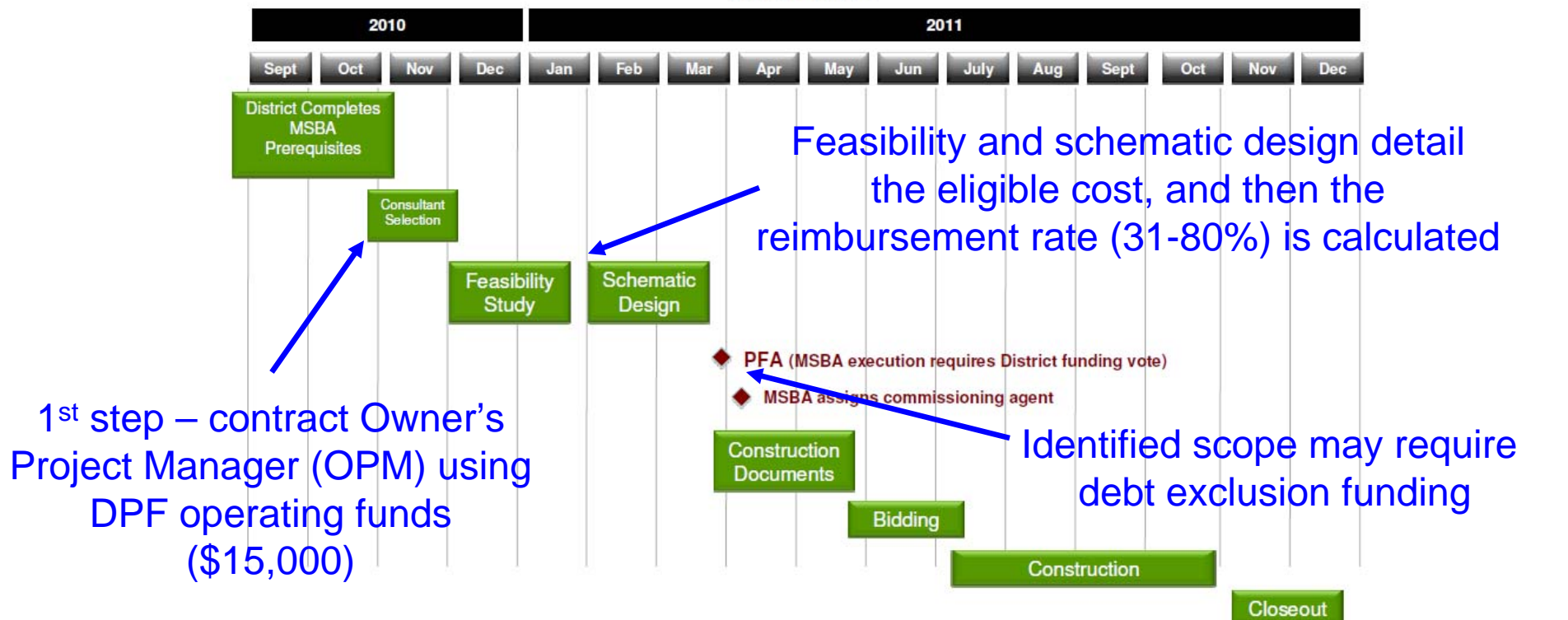


Green Repair Process

Massachusetts School Building Authority

Green Repair Program

Timeline



General timeline, DPF will expedite process where possible, windows require a 12 week lead time

November 30, 2010



Boiler & Mechanical Upgrade

- The 2009 Ad Hoc Facility Report to School Committee identified LHS roof and mechanical work as being a priority.
- Though the MSBA Green Repair program has not included the boiler upgrade, the work still needs to be completed.



MSBA Requirements

- Preliminary written overview of projected funding for proposed project, due December 17, including time-line of project funding authorizations
- Initial Compliance Certificate, due December 17, acknowledging understanding and compliance with MSBA regulations
- A routine and capital maintenance plan for the school facilities, due January 17
- Successful vote authorizing funds as outlined on written overview



Next Steps

- Determine scope of project (roof and windows or just roof)
- Determine funding requirement, funding sources, and estimated MSBA contribution
- Submit documents to MSBA as required
- Follow MSBA process, contract Owners Project Manager and Designer from MSBA prequalified list, and receive MSBA funding agreement
- Establish priorities and funding strategy for 10 Year Facility Master plan



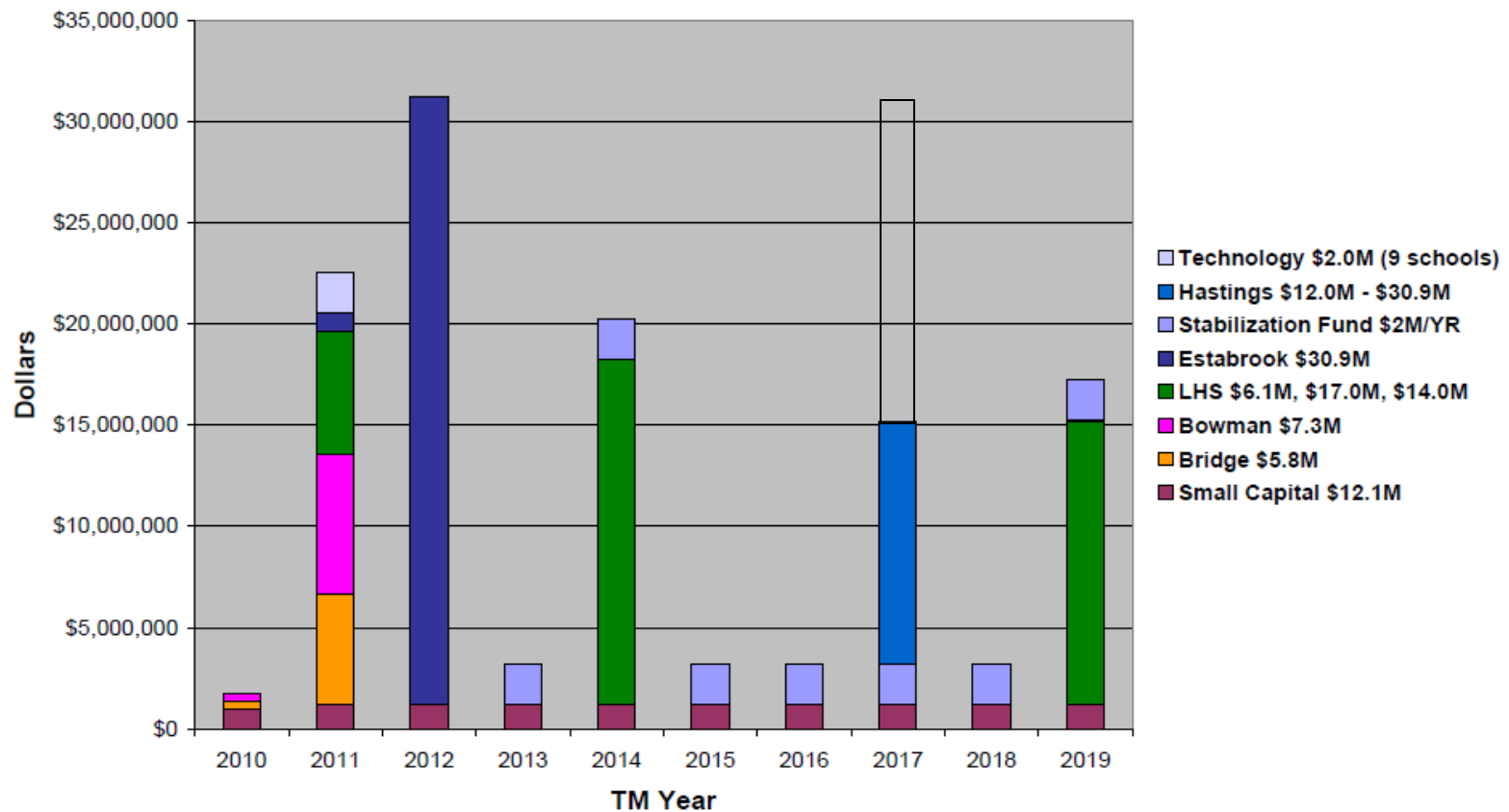
Back Up



10 Year Facility Master Plan

Total School Facility Capital Spending \$117.6M - \$138.5M
2010 - 2019 TM
(revised October 14, 2010)

2020 -2029 TM
LHS \$160 M





Mechanical Phasing Plan



GARCIA • GALUSKA • DESOUSA
Consulting Engineers Inc.

370 Faunce Corner Road, Dartmouth, MA 02747-1217

Yellow Scope Completed 2009

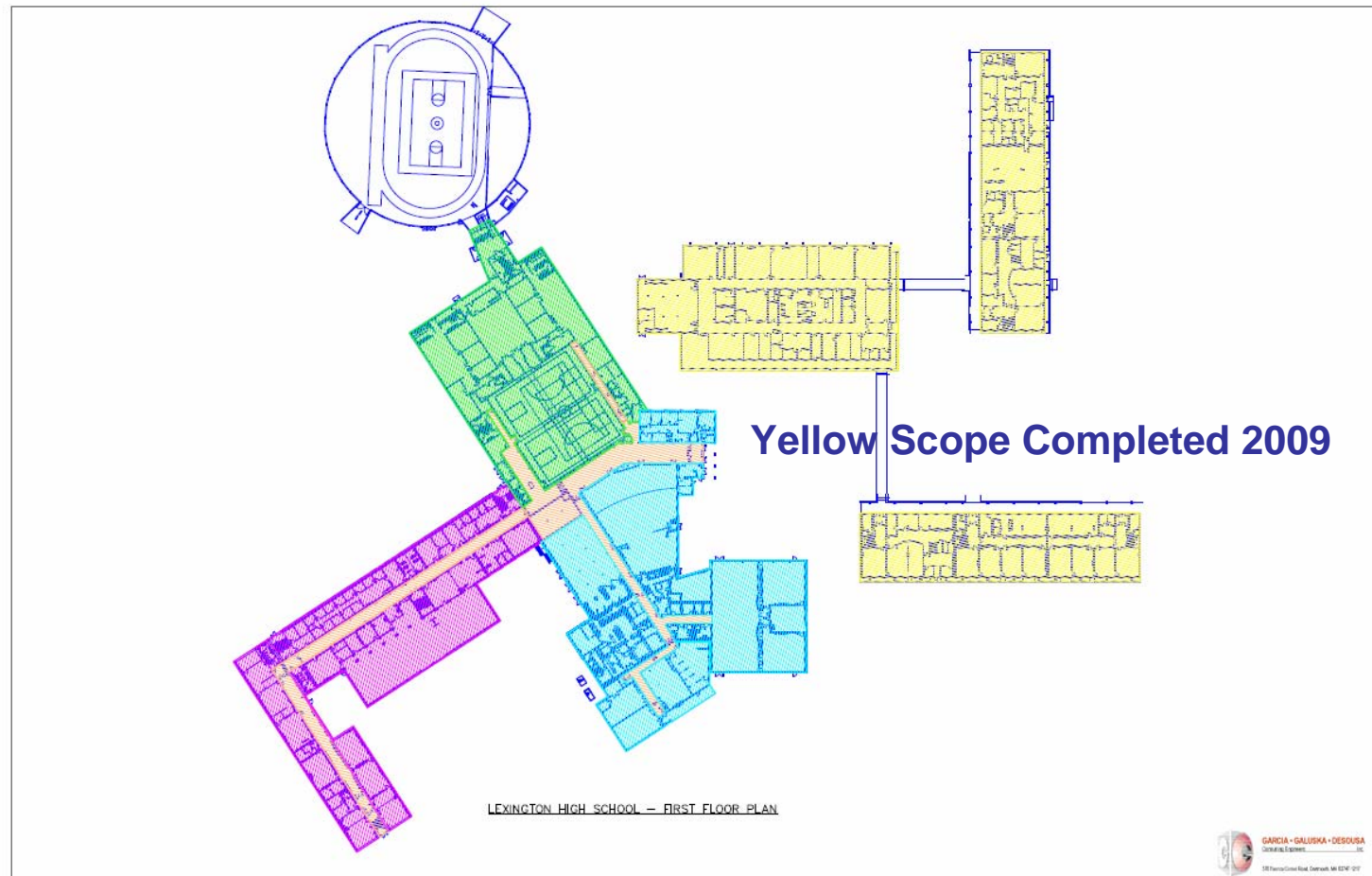
PHASING SUMMARY (UPDATED 11-5-09)

PHASE	CALENDER RANGE	DESCRIPTION	AREA	ANTICIPATED CONSTRUCTION COST	FEE*	TOTAL COST
1	6/01/09 - 10/01/09	New classroom unit ventilators. Tie into existing DDC control system. Reuse existing HW main and branch piping.	G, H, J	\$1,193,756	\$140,700	\$1,334,456
1A	6/01/10 - 9/01/10	Upgrade existing RTU OA/RA damper feedback. New HW main piping.	A, B, C, D	\$1,035,424	\$103,542	\$1,138,966
2	10/01/09 - 1/01/10	Replace (4) AHU w/ gas-fired ERV units and tied into existing ductwork. New HW terminal units tied into existing condensing HW piping system. All new equipment tied into existing DDC controls. Demolish all steam piping and equipment.	E	\$526,000	\$55,756	\$581,756
3	1/01/10 - 6/01/10	Convert (1) steam. boiler to HW, (1) boiler to remain as steam. Add HW coils in supply duct mains. Upgrade steam terminal units to HW. Demolish all steam piping and equipment.	C, D	\$400,000	\$42,400	\$442,400
4	6/01/10 - 10/01/10	Replace steam classroom unit ventilators and terminal units to HW and tie into HW mains provided in Phase 1. Tie all new equipment into existsting DDC system. Upgrade existing RTU OA/RA damper feedback. Convert second steam boiler to HW. Demolish all steam piping and equipment.	A, B	\$850,000	\$85,000	\$935,000
TOTAL				\$4,005,180	\$427,398	\$4,432,578

* Fee percentage varies for each phase. Phase one complete, Phase 2 & 3 fee of 10.6%, and Phase 1A & 4 fee of 10.0%.



Mechanical Phasing Plan





Mechanical Phasing Plan

