

MODULE 2
Assemble Team

MODULE 3
Feasibility Study

Updated 10/25/2013

SKANSKA

Schedule: April 8, 2013 - December 19, 2013

Schedule: December 19, 2013 - June 4, 2014

Feasibility Study Participants

Minuteman School Building Committee
Elected Officials
District Representatives
Skanska: Owner's Project Manager (OPM)
Designer: Kaestle Boos Associates, Inc.
Massachusetts School Building Authority

During Feasibility Study

The District and its team collaborate with the MSBA to generate an initial space summary, document existing conditions, establish design parameters, develop and evaluate alternatives, and recommend the most cost effective and educationally appropriate solution to the MSBA Board of Directors.

Preliminary Design Program

- 3.1.1 Introduction
- 3.1.2 Educational Program
- 3.1.3 Initial Space Summary
- 3.1.4 Evaluation of Existing Conditions
- 3.1.5 Site Development Requirements
- 3.1.6 Preliminary Evaluation of Alternatives
- 3.1.7 Local Actions and Approvals of PDP

Preliminary Design Program Submission to MSBA
(Submittal Date no later than November 4, 2013)

MSBA Review of Preliminary Design Program (MSBA may take up to 30 days to respond)

District Response to MSBA PDP Review Comments (District has 14 days to respond December 18)

Preferred Schematic Report

- 3.3.2.1 Introduction
- 3.3.2.2 Evaluation of Existing Conditions
- 3.3.2.3 Final Evaluation of Alternatives
- 3.3.2.4 Preferred Solution
- 3.3.2.5 Local Actions and Approvals
- * SBC Select the preferred solution to recommend to MSBA
- **Approve submission of Preferred Schematic Report

Preferred Schematic Report Submission to MSBA

(Submittal Date no later than April 17, 2014)

MSBA Review of Preferred Schematic Report
MSBA Facilities Assessment Subcommittee Meeting April 30, 2014
(Target MSBA Meeting Date June 4, 2014 after SBC approval)

Approval by MSBA BOD to Proceed into Schematic Design 6/4/14

NOTE: Final Selection of a preferred solution by MSBA BOD

MODULE 4

Preferred Schematic Solution - Option B

May Proceed to Schematic Design of the Preferred Solution with MSBA BOD Approval and SBC approval to proceed with only the Preferred Solution Selected

Schematic Design Participants

Minuteman School Building Committee Elected Officials, District Representatives, Skanska: Owner's Project Manager (OPM) Designer: Kaestle Boos Associates, Inc. Massachusetts School Building Authority (MSBA) Schedule: June 4, 2014 - October 2, 2014

During Schematic Design

Develop robust schematic design in order to:

Establish - Scope Budget Schedule

Submittal for DESE Approval (SPED)

Schematic Design Submittal

Certification from OPM to MSBA: 9/18/2014

Submittal Reviewed

Submittal Complete

Submittal Within District's Budget

SBC/District Approves Submission

OPM - Schematic Design to MSBA: 10/02/2014

MSBA Review Period and Comments

Establishing Scope, Budget and Schedule which is foundation for next appropriation

* Attend Project Scope and Budget Conference: If needed October 15th or 29th, 2014

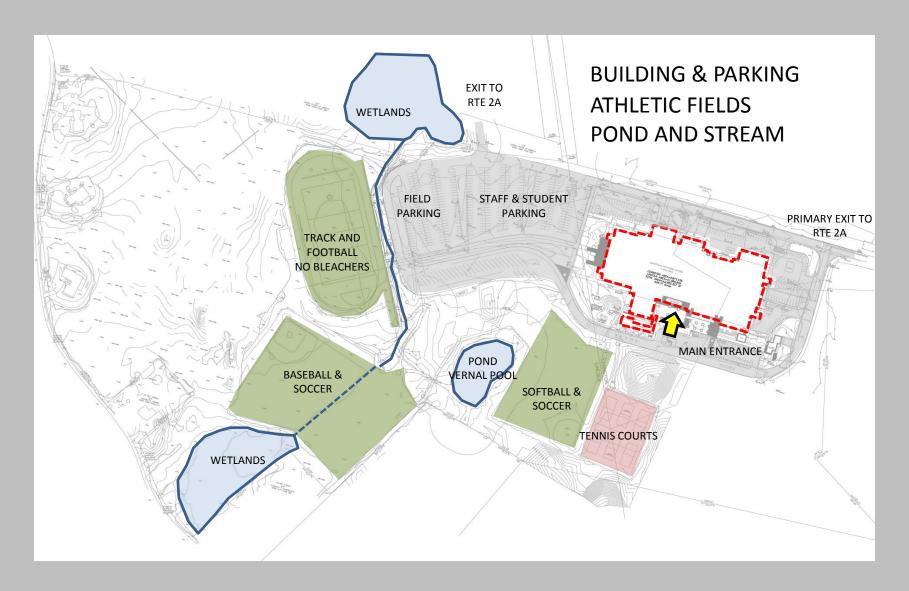
** Obtain DESE Approval (SPED)

MSBA Board Acceptance for Proposed Project: November 19, 2014

Note: Approval of a project by the MSBA Board of Directors, at the conclusion of Module 4 – Schematic Design, establishes the MSBA's participation in the proposed project, as documented by an executed Project Scope and Budget Agreement, its Exhibits and the Schematic Design submission. The Total Project Budget will become (Exhibit A) part of the Project Scope & Budget Agreement and Reimbursement Rate understood.



Site Plan: Existing Conditions





MSBA Requested Study:

435 Students – Member Towns

800 Students - Member Towns and Non-Member Towns

The Options:

6 Options are Required for the Feasibility

Study

OPTION 1



Repair High School 305,808 s.f.



OPTION A



OPTION B



Renovate 435 Student Existing High School

New Construction 25,515 s.f.

Renovation <u>233,168 s.f.</u>

Total 258,683 s.f.

New Construction 435 Student High School

New Construction 224,997s.f.



OPTION C



OPTION D



OPTION E



Renovate 800 Student Existing High School

New Construction 35,717 s.f.

Renovation <u>301,467 s.f.</u>

Total 337,184 s.f.

Partial Renovation and New Addition 800

Student High School

New Construction 198,388 s.f.

Renovation <u>139,900 s.f.</u>

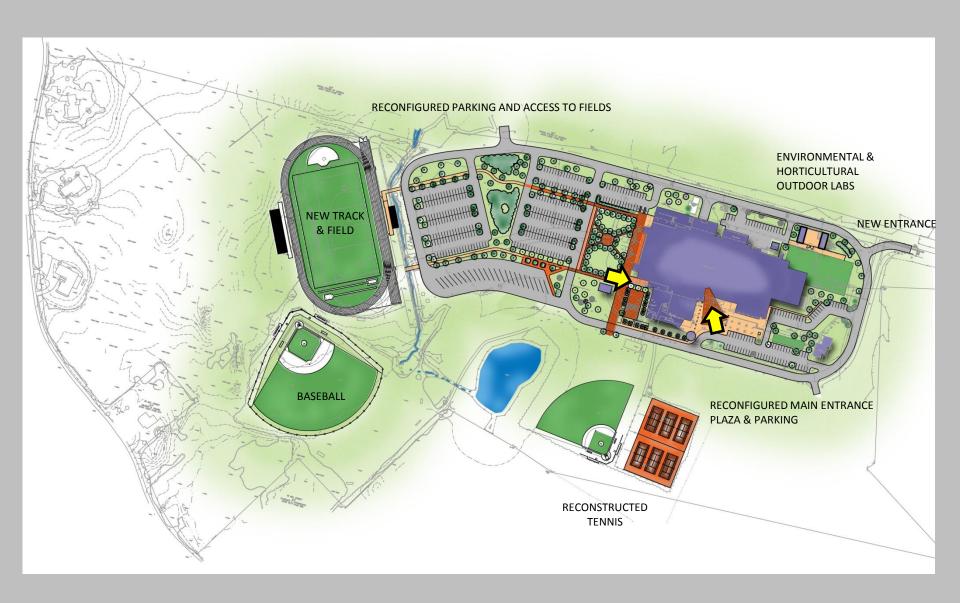
Total 338,288 s.f.

New Construction 800 Student High School

New Construction 323,537 s.f.

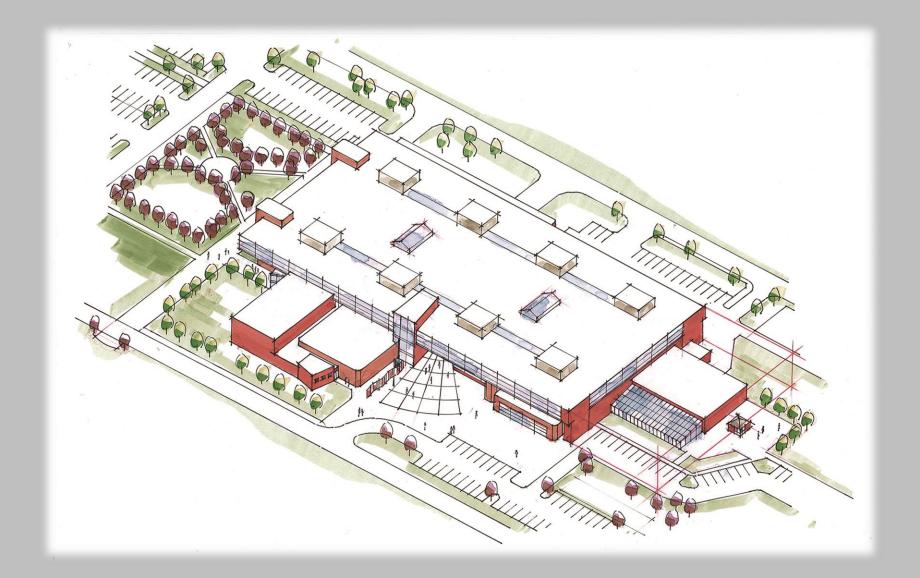


Site Plan: Option "A" Renovation ~ 435 Students

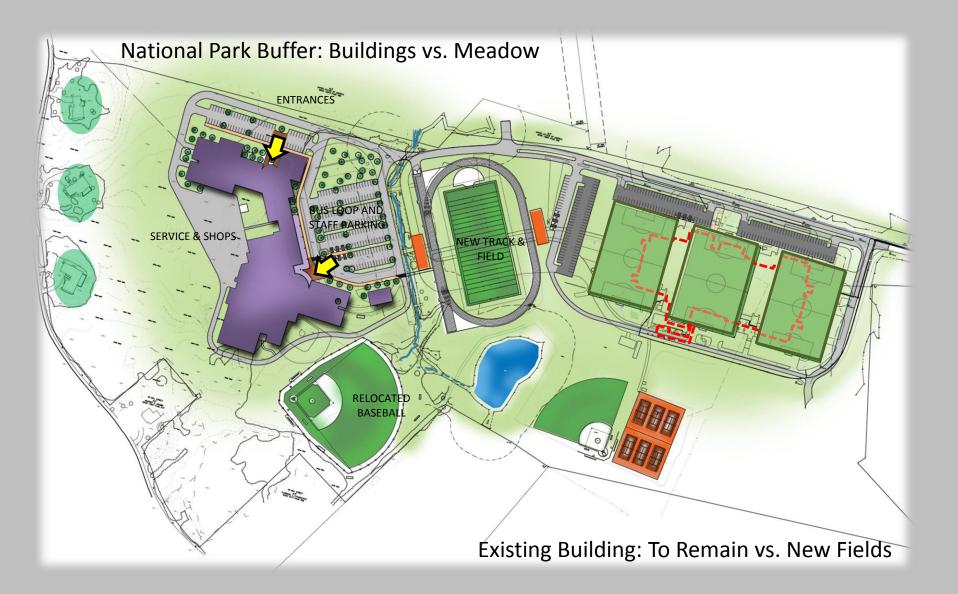




Rendering: Option "A" Renovation ~ 435 Students

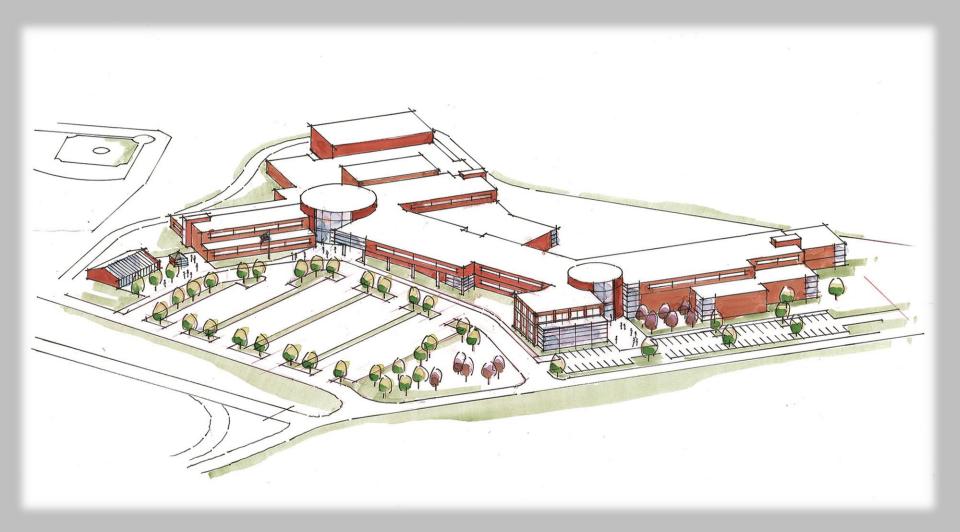








Rendering: Option "B" New ~ 435 Students



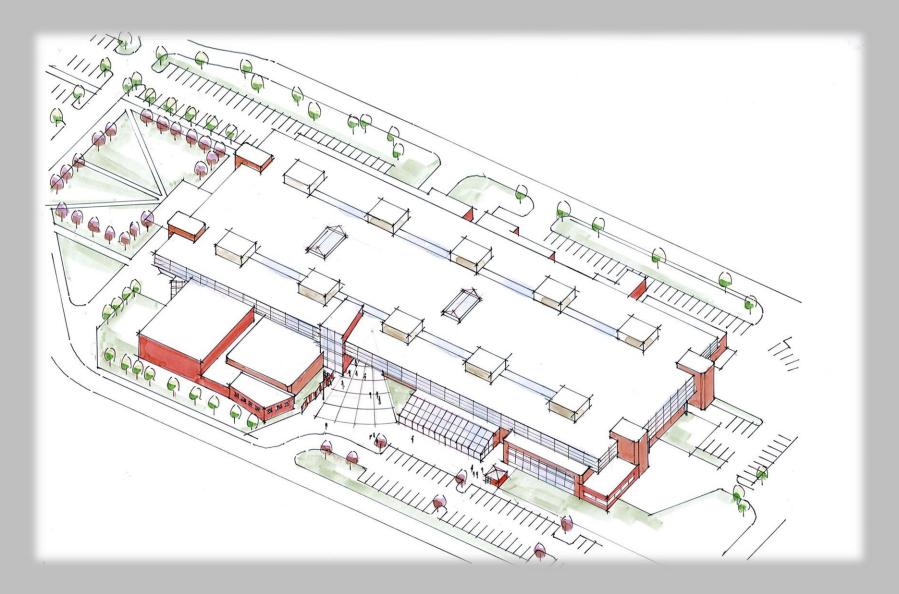


Site Plan: Option "C" Renovation ~ 800 Students



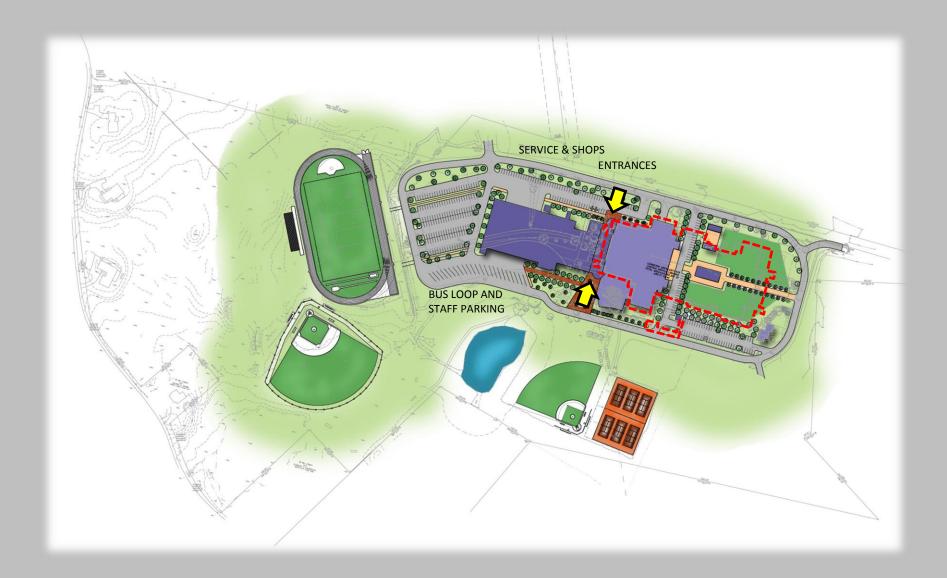


Rendering: Option "C" Renovation ~ 800 Students





Site Plan: Option "D" Addition/Renovation ~ 800 Students



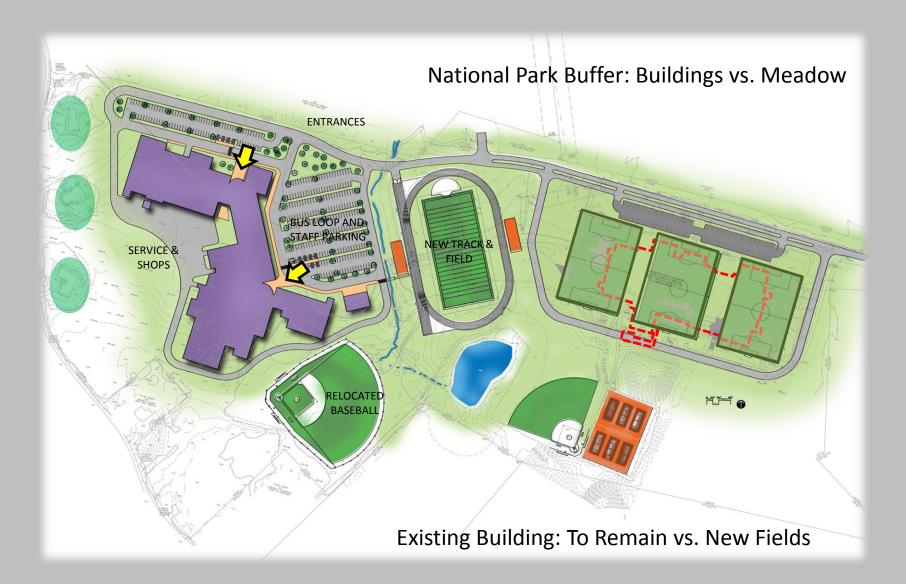


Rendering: Option "D" Addition/Renovation ~ 800 Students





Site Plan: Option "E" New ~ 800 Students





Rendering: Option "E" New ~ 800 Students





COST/OPTION MATRIX

OPTION		Option 1		Option A		Option B		Option C		Option D		Option E
Description	2 4	Repair High School		Renovation 435 Student High School		New Construction Student High School	120000	enovation 800 Student High School	4	tial Renovation New Addition 800 tudent High School	N	ew Construction 800 Student High School
Location		758 Marrett Road Lexington	7:	58 Marrett Road Lexington	7	758 Marrett Road Lexington		758 Marrett Road Lexington	7	58 Marrett Road Lexington	75	58 Marrett Road Lexington
New Construction SF				25,515		224,997		35,717		198,388		323,537
Renovation SF		305,808		233,168				301,467		139,900		3
Total Square Footage		305,808		258,683		224,997		337,184		338,288	0	323,537
Construction Cost	\$	37,783,399	\$	52,319,416	\$	58,330,107	\$	65,807,153	\$	76,121,830	\$	79,454,100
Site Development		\$ -	\$	7,570,000	\$	9,070,000	\$	7,570,000	\$	7,570,000	\$	9,070,000
Direct Trade Cost Subtotal	\$	37,783,399	\$	59,889,416	\$	67,400,107	\$	73,377,153	\$	83,691,830	\$	88,524,100
Design/Price Contingency 10%	\$	3,778,340	\$	5,988,942	\$	6,740,011	\$	7,337,715	\$	8,369,183	\$	8,852,410
Building Cost	\$	41,561,739	\$	65,878,358	\$	74,140,118	\$	80,714,868	\$	92,061,013	\$	97,376,510
Demolish Existing Building			\$	394,088	\$	1,659,008	\$	50,499	\$	900,067	\$	1,659,008
HAZARDOUS Waste Abatement	\$	820,000	\$	1,195,000	\$	1,320,000	\$	820,000	\$	1,070,000	\$	1,320,000
Trade Cost SubTotal	\$	42,381,739	\$	67,467,446	\$	77,119,126	\$	81,585,367	\$	94,031,080	\$	100,355,518
General Conditions & GRs	\$	8,400,000	\$	5,734,733	\$	5,783,934	\$	6,934,756	\$	7,992,642	\$	7,526,664
General Requirements (GRs) 2%	\$	847,635		w/ GC's above		w/ GC's above		w/ GC's above		w/ GC's above		w/ GC's above
Insurance 1.10%	\$	558,599	\$	805,224	\$	911,934	\$	973,721	\$	1,122,261	\$	1,186,704
GC Bonds 1.10%	\$	564,744	\$	814,081	\$	921,965	\$	984,432	\$	1,134,606	\$	1,199,758
Permit by Owner 1% w/Fees										Ĭ		
Fee 3%	\$	1,557,152	\$	2,244,645	\$	2,542,109	\$	2,714,348	\$	3,128,418	\$	3,308,059
Estimated Construction Cost	\$	54,309,869	\$	77,066,128	\$	87,279,067	\$	93,192,625	\$	107,409,006	\$	113,576,703
Escalation mid point const. 10%	\$	5,430,987	\$	7,706,613	\$	8,727,907	\$	9,319,263	\$	10,740,901	\$	11,357,670
Construction Cost Escalated	\$	59,740,856	\$	84,772,741	\$	96,006,975	\$	102,511,888	\$	118,149,907	\$	124,934,373
Construction Schedule Phasing Approach		48 - 60 Months Phased & Occupied Swing Space Req.	Ph	36 -42 Months ased & Occupied wing Space Req.	1	24 Months Single Phase No Swing Space		42 - 48 Months hased & Occupied Swing Space Req.	Ph	30 - 36 Months ased & Occupied wing Space Req.		28 - 30 Months Single Phase o Swing Space
Temp Space Cost	\$	5,000,000	\$	3,500,000			\$	4,000,000	\$	3,000,000		
Fees (OPM/Design/Permits) 15%	\$	8,961,128	\$	12,715,911	\$	14,401,046	\$	15,376,783	\$	17,722,486	\$	18,740,156
Other Soft Costs	\$	1,920,000	\$	2,175,000	\$	2,175,000	\$	4,000,000	\$	4,000,000	\$	4,000,000
Project Contingency 10%	\$	5,974,086	\$	8,477,274	\$	9,600,698	\$	10,251,189	\$	11,814,991	\$	12,493,437
Total Project Cost	\$	81,596,070	\$	111,640,927	\$	122,183,719	\$	136,139,860	\$	154,687,384	\$	160,167,966
Reimbursement 40% of Eligible Cost	s											
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- NOTES: 1. Assumes Construction Start June 2016/Mid-Point of Construction varies and is not calculated
 - 2. Cost Estimates are highly conceptual and considered "Order of Magnitude" only
 - 3. Approximate Cost to Demolish Existing Building and Replace with 3 soccer fields \$5,545,000 included in new options above
 - 4. New pool cost not included in New Construction Options above and would need to be calculated.



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Questions and Comments