

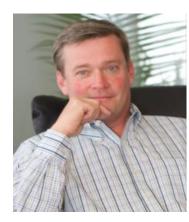


Jan 24, 2017



# leadership team

- 60+ person architectural firm
- 20+ year history
- specialize in public work
- expertise in educational projects











the value of a master plan is...

 understand the facility and educational needs

- to identify priority project(s)
- develop a planning & communication tool



- facility & capacity assessment
- enrollment projections
- visioning
- options
- schedule



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# facility assessments

# **Facility Assessments**

















# Facility Assessments LEGEND

God	LEGEND cellent Repair / od Condition Replace r / Maintenance Poor	BYAM	CENTER	HARRINGTO	SOUTHROW	McCARTHU	PARKER	C.H.S.	WESTLAND	101 MILL RD
1	Site & Civil		0		0	0	0		0	
2	Site Accessibility / Play Areas	<u> </u>								
3	Exterior Building Elements									
4	Interior Architectural Elements									•
5	Accessibility	•							•	
6	Structural Elements									
7	Mechanical Systems		<b>%</b>				<b>%</b>		<b>%</b>	
8	Electrical Systems			<b>%</b>	<b>%</b>		<b>%</b>	<b>%</b>		
9	Plumbing Systems				<u></u>	<b>%</b>	<u></u>			•
10	Fire Protection Systems	•				•		<b>%</b>		•
11	Hazardous Mat. Abatement									
12	Functional Use of Space									

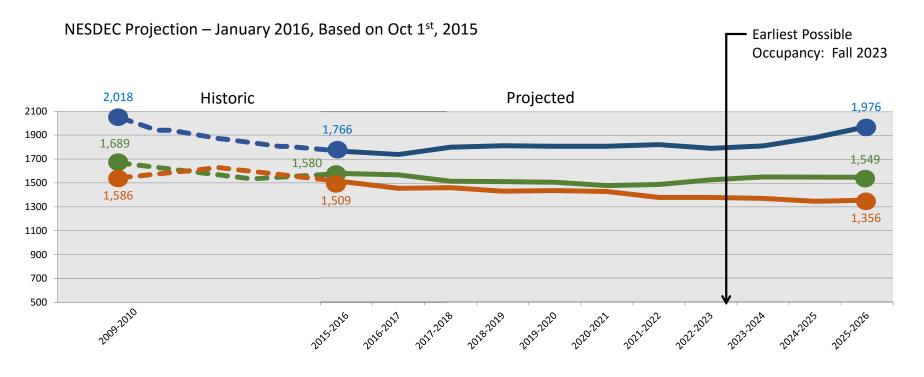
# **Facility Assessments**

SCHOOL	CAPITAL IMPROVEMENTS	BLDG SQ.FT.	CIP COST / SQ.FT (not including Haz / Mat)
CHELMSFORD HIGH SCHOOL	\$ 9,440,000	305,810	\$ 30.87
McCARTHY MIDDLE SCHOOL	\$ 9,037,000	185,614	\$ 48.68
PARKER MIDDLE SCHOOL	\$ 14,430,000	126,167	\$ 114.37
BYAM ELEMENTARY SCHOOL	\$ 7,593,000	60,442	\$ 125.63
CENTER ELEMENTARY SCHOOL	\$ 256,000	52,300	\$ 4.89
HARRINGTON ELEMENTARY SCHOOL	\$ 9,146,000	60,442	\$ 151.32
SOUTH ROW ELEMENTARY SCHOOL	\$ 4,729,000	42,000	\$ 112.60
WESTLANDS COMMUNITY CENTER	\$ 4,808,000	37,100	\$ 129.58
TOTAL	\$ 59,438,000		



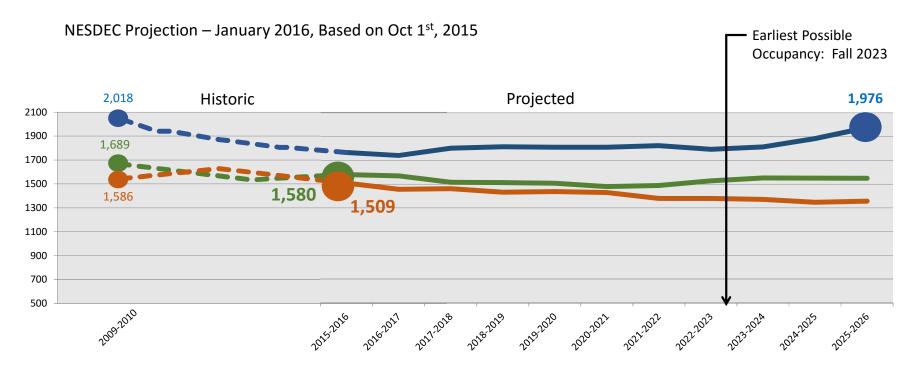
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ı	NESDEC July 14 <sup>th</sup> Projection	2015- 2016	2016- 2017	2017- 2018	2018- 2019	2019- 2020	2020- 2021	2021- 2022	2022- 2023	2023- 2024	2024- 2025	2025- 2026
	K-4 Projection	1766	1741	1803	1814	1811	1811	1824	1793	1813	1884	1976
	5-8 Projection	1580	1570	1515	1513	1507	1479	1489	1528	1552	1551	1549
	9-12 Projection	1509	1456	1461	1432	1438	1430	1380	1379	1372	1347	1356
	K-12 Projection	4855	4767	4779	4759	4756	4720	4693	4700	4737	4782	4881





NESDEC July 14 <sup>th</sup> Projection	2015- 2016	2016- 2017	2017- 2018	2018- 2019	2019- 2020	2020- 2021	2021- 2022	2022- 2023	2023- 2024	2024- 2025	2025- 2026
K-4 Projection	1766	1741	1803	1814	1811	1811	1824	1793	1813	1884	1976
5-8 Projection	1580	1570	1515	1513	1507	1479	1489	1528	1552	1551	1549
9-12 Projection	1509	1456	1461	1432	1438	1430	1380	1379	1372	1347	1356
K-12 Projection	4855	4767	4779	4759	4756	4720	4693	4700	4737	4782	4881



	Existing Enrollment	Target Enrollment	Capacity by GSF	Capacity by Classroom Count	MSBA Instructional Space Comparation	ve Analysis – Room by
Byam ES	473	520	346	427		<b>34%</b> are under by 10% or more
Center ES	430	488	310	404		<b>35%</b> are under by 10% or more
Harrington <b>ES</b>	465	530	346	450		<b>37%</b> are under by 10% or more
South Row ES	392	438	310	358		<b>89%</b> are under by 10% or more

	Existing Enrollment	Target Enrollment	Capacity by GSF	Capacity by Classroom Count	MSBA Instructional Space Compa Analysis – Room by Room	rative
McCarthy MS	864	864	928	800		<b>67%</b> are under by 10% or more
Parker MS	717	717	650	572		<b>53%</b> are under by 10% or more
Chelmsford High School	1509	1509	1785	1470		84% are under by 10% or more
Westlands School	132* *Pre-K only	142* *Pre-K only	206** **Assumes K- 4	330** **Assumes K- 4		<b>95%</b> are under by 10% or more

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# list of objectives to meet

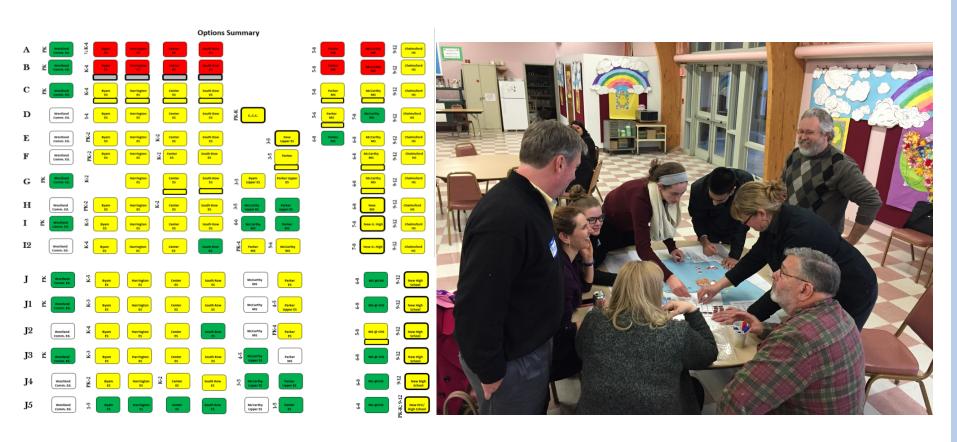
- Address Missing and Inappropriate Spaces
  - Special Education
  - Middle School Science Labs
- Accommodate Full-day Kindergarten
- Co-location of Pre-K with an Elementary School
- Address Overcrowding Conditions
- Address Temporary Construction
- Address Physical Building Conditions



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# **Options Development**





## **Options Summary**

#### A STATUS QUO

Westland Comm. Ed.

K-4 Byam ES

Harrington ES Center ES South Row ES

Parker MS McCarthy MS

Chelmsford HS

D NEW EARLY CHILDHOOD CENTER

Westland Comm. Ed. Byam ES

Harrington ES Center ES South Row ES F..C.C.

Parker ES/MS

McCarthy MS

7-8

Chelmsford HS

F. NEW 3-5 UPPER ELEMENARY SCHOOL

Westland Comm. Ed. PK-2 Byam

Harrington ES Center ES

South Row ES New Upper ES

8-9 Parker MS

%-9 McCarthy MS

Chelmsford HS

**H** NEW 6-8 MIDDLE SCHOOL

Westland Comm. Ed. Byam ES

Harrington ES Center ES

South Row ES Parker Upper ES

McCarthy Upper ES %-9 New MS

Chelmsford HS

I2 NEW 7-8 MIDDLE SCHOOL

Westland Comm. Ed. Byam ES

Harrington ES Center ES South Row ES PK-4 Parker ES

McCarthy ES / MS ∞ New Jr. High

Chelmsford

J5 NEW PK-K/ HIGH SCHOOL

Westland Comm. Ed. LÇ Byam

Harrington ES Center ES South Row ES Parker ES

McCarthy

MS @CHS

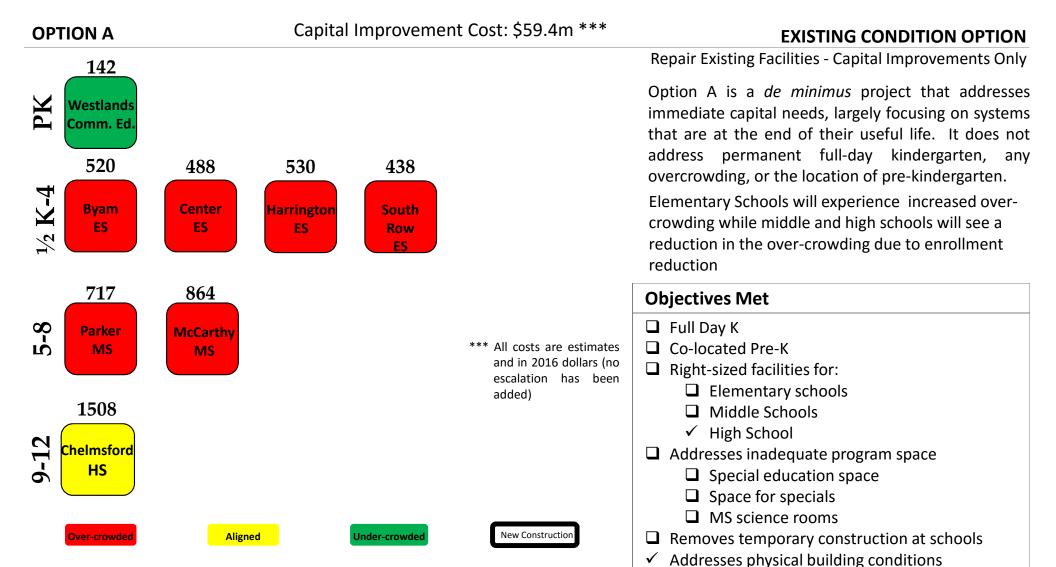
New ECC/ High School

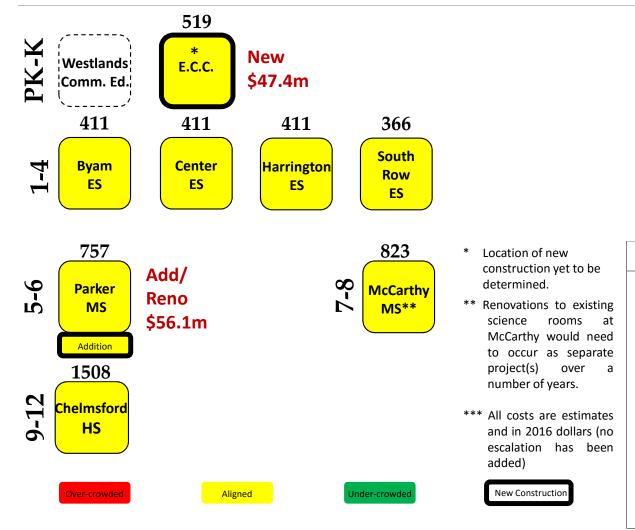
Over-crowded

Aligned

Under-crowded

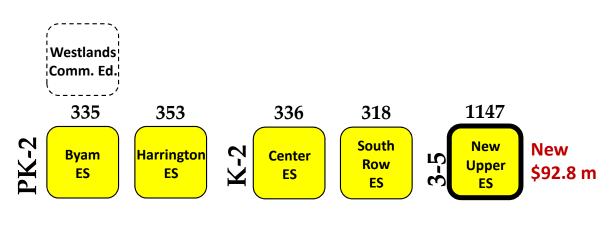
New Construction





Option D builds a new early childhood center for PK and full-day kindergarten students. Westlands discontinues as a PK center and would be used for Community Ed. Byam, Center, Harrington, and South Row become grades 1-4 elementary schools. The Parker MS becomes a 5-6 middle school to serve all 5-6 students in the District and would require an addition and full school renovation. The McCarthy reconfigures to serve grades 7-8. The high school would remain.

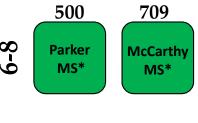
- ✓ Full Day K
- ✓ Co-located Pre-K
- ✓ Right-sized facilities for:
  - ✓ Elementary schools
  - ✓ Middle Schools
  - ✓ High School
- ✓ Addresses inadequate program space
  - ✓ Special education space
  - ✓ Space for specials
  - ☐ MS science rooms
- ✓ Removes temporary construction at schools
- ✓ Addresses physical building conditions



Jnder-crowded

Total new project cost: \$92.8m\*\*

Option E builds a new upper elementary school for all grade 3-5 students in the District. Westlands discontinues as a PK center and would be used for Community Ed. Byam and Harrington reconfigure to become PK-2 elementary schools and Center and South Row become K-2 elementary schools. The Parker and McCarthy Middle Schools reconfigure to serve grades 6-8. Chelmsford High School would remain.



1508

Chelmsford

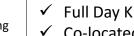
HS

Over-crowded

Aligned

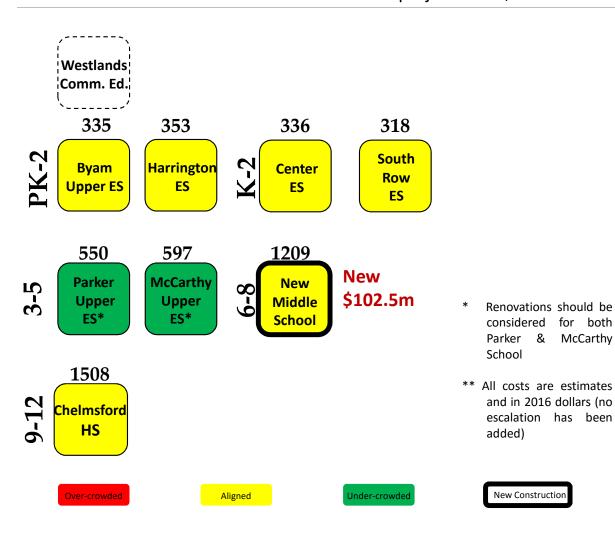
- \* Renovations to existing science rooms at middle schools would need to occur as separate project(s) over a number of years.
- \*\* All costs are estimates and in 2016 dollars (no escalation has been added)

New Construction



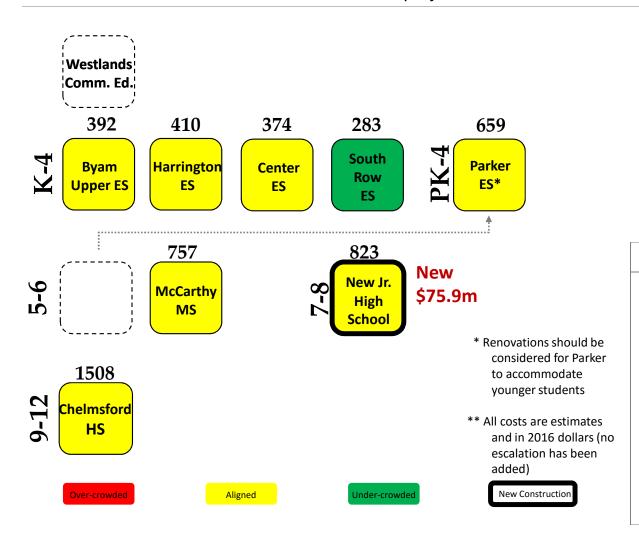
✓ Co-located Pre-K

- ✓ Right-sized facilities for:
  - ✓ Elementary schools
  - ☐ Middle Schools
  - ✓ High School
- ✓ Addresses inadequate program space
  - ✓ Special education space
  - ✓ Space for specials
  - MS science rooms
- ✓ Removes temporary construction at schools
- ✓ Addresses physical building conditions



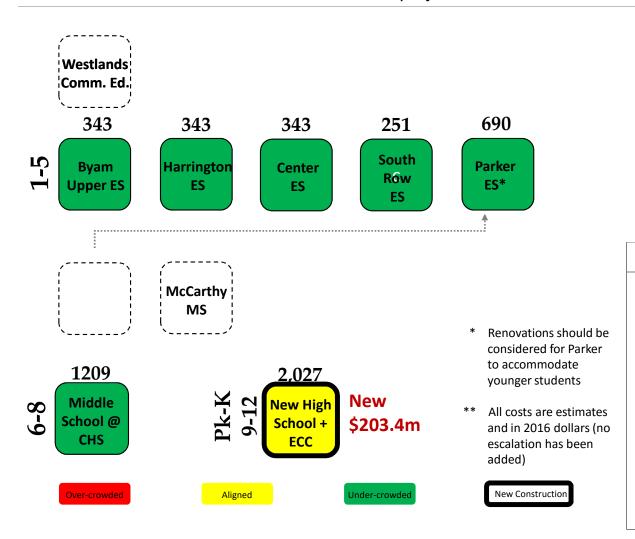
Option H builds a new 6-8 middle school and reconfigures grades at the elementary level. Westlands discontinues as PK and would serve community ed. Byam and Harrington become PK-2 elementary schools and Center and South Row become K-2 elementary schools. Both Parker and McCarthy become 3-5 upper-elementary schools. The District builds a new middle school to serve grades 6-8. Chelmsford High School remains.

- ✓ Full Day K
- ✓ Co-located Pre-K
- ✓ Right-sized facilities for:
  - ☐ Elementary schools
  - ✓ Middle Schools
  - ✓ High School
- ✓ Addresses inadequate program space
  - ✓ Special education space
  - ✓ Space for specials
  - ✓ MS science rooms
- ✓ Removes temporary construction at schools
- ✓ Addresses physical building conditions



Option I builds a new Jr. high school and reconfigures grades at the elementary level. Westlands is discontinued as an educational facility. Byam, Harrington, Center, and South Row become K-4 elementary schools. Parker becomes a PK-4 elementary school. McCarthy becomes an 5-6 upper-elementary school. The District builds a new Jr. high school to serve grades 7-8. Chelmsford High School remains.

- ✓ Full Day K
- ✓ Co-located Pre-K
- ✓ Right-sized facilities for:
  - ☐ Elementary schools
  - ✓ Middle Schools
  - ✓ High School
- ✓ Addresses inadequate program space
  - ✓ Special education space
  - ✓ Space for specials
  - ✓ MS science rooms
- ✓ Removes temporary construction at schools
- ✓ Addresses physical building conditions



Option J5 builds a new high school and early childhood center under one roof. The high school becomes a 6-8 middle school. Parker becomes a 1-5 elementary school and Byam, Harrington, Center, and South Row reconfigure to be 1-5 elementary schools. Both Westlands and McCarthy are discontinued as school buildings.

- ✓ Full Day K
- ✓ Co-located Pre-K
- ✓ Right-sized facilities for:
  - Elementary schools
  - Middle Schools
  - ✓ High School
- ✓ Addresses inadequate program space
  - ✓ Special education space
  - ✓ Space for specials
  - ✓ MS science rooms
- ✓ Removes temporary construction at schools
- ✓ Addresses physical building conditions

# **Options Development**

OPTION	Major Project #I	Major Project #2	subtotal
OPTION A - CIP ONLY			\$ 59.4 m
OPTION D - NEW ECC + ADD/ RENO @ PARKER	\$ 47.4 m	\$ 56.1 m	\$ 103.5 m
OPTION E - NEW 3-5 SCHOOL	\$ 92.8 m		\$ 92.8 m
OPTION H - NEW 6-8 SCHOOL	\$ 102.5 m		\$ 102.5 m
OPTION I2 - NEW 7-8 SCHOOL	\$ 75.9 m		\$ 75.9 m
OPTION J5 - NEW HS + ECC	\$ 203.4 m		\$ 203.4 m



## **Options Summary**

#### **STATUS QUO**

9-12 \$ 59.4 m CIP: Chelmsford Harrington **South Row** 5-8 Parker McCarthy HS ES ES MS MS

#### **NEW EARLY CHILDHOOD CENTER**

PK-K 2-6 Westland Byam Harrington Center **South Row** Parker McCarthy Chelmsford Project: \$ 103.5m E..C.C. 7-8 9-12 ES ES Comm. Ed. ES ES ES /MS MS HS

#### **NEW 3-5 UPPER ELEMENARY SCHOOL**

PK-2 K-2 Westland Byam Harrington Center South Row McCarthy 9-12 Chelmsford New 8-9 8-9 Project: \$ 92.8 m ES ES ES ES **Upper ES** Comm. Ed. MS HS

**NEW 6-8 MIDDLE SCHOOL** 9-12 K-2 Project: \$ 102.5 m Harrington Center **South Row** Parker McCarthy Chelmsford Westland Byam ES Comm. Ed. ES **Upper ES** HS

#### **NEW 7-8 MIDDLE SCHOOL**

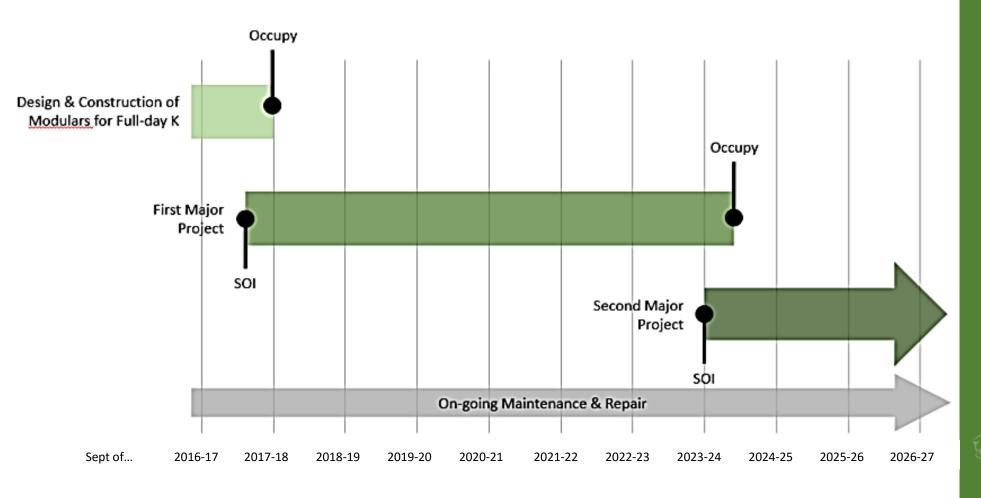
9-12 **K-4** 5-6 Project: \$ 75.9 m 7-8 Westland Byam ES Harrington Center **South Row** Parker ES McCarthy New Jr. High Chelmsford Comm. Ed.

J5 NEW PK-K/ HIGH SCHOOL Project: \$ 203.5 m  $\frac{1}{5}$ 1-5 New ECC/ Byam Harrington Center **South Row** McCarthy MS @CHS **High School** 

- facility & capacity assessment
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### **Master Plan Timeline**



# Schedule

- February 2, 2017: Further Review of Options

  Opportunities, Constraint & Value
- February 7, 2017 : School Committee
- February 16,2017: Public Presentations
- February 28,2017: School Committee



# Questions



# Thank you

