

# Northeast Metro Tech Construction Project

**Community Info Session** | 01.19.2022

## **AGENDA**





**Project Background & Common Online Questions** 



**Cost/MSBA Grant Information** 



Ch. 70 Assessments



**Voting Information** 





# **Project Background**

(Facebook question)



#### **NEMT Mission Statement:**

Believing that all students are capable of learning,
Northeast Metropolitan Regional Vocational School –
through the integration of the efforts of the
communities, parents, administration, faculty, students,
and staff – is committed to supplying to its students a
rigorous academic and career/ technical education in
an open, diverse and supportive environment."

## MSBA 2015 Workforce Needs Report

- Funded by MSBA
- Research collected/analyzed by Dukakis Center for Urban & Regional Policy MAVA and 72 vocational school administrators input

SECTION ONE	Projecting Occupational Supply and Demand - Methodology
SECTION TWO	Projected Net New Jobs, Replacement Jobs, and Total Job Openings
SECTION THREE	Educational Requirements for Job Openings in the Commonwealth
SECTION FOUR	Assessing the Ability of Vocational Education in the Commonwealth to Supply Expected Labor Market Demand
SECTION FIVE	How Prepared are the Commonwealth's Vocational Schools to Meet Future  Labor Market Demand?
SECTION SIX APPENDICES	Summary and Conclusions
APPENDIX A	Employment Projections for 675 Detailed Occupations: 2012-2022
APPENDIX B	Detailed Occupations by Education Requirements
APPENDIX C	Regional Vocational Technical School Districts
APPENDIX D	Annual Supply of Vocational Trained Students and Job Openings through 2022 by Workforce Investment Area (WIA)

## MSBA 2015 Workforce Needs Report

#### **Report Highlights:**

- Aging workforce: Number of replacement workers expected to double net new job positions
- Majority of expected job openings in MA will require no more than a vocational education or a community college associate's degree
- At present rates, the Commonwealth's vocational schools are projected to meet **only 23% percent of expected demand** for production and construction workers.
- While various regions of the state have vocational schools that seem to be positioned well to meet their regions' projected occupational openings, there are other areas of the state including the City of Boston, the Metro North Region, Metro Southwest, and the Cape & Islands where more attention needs to be paid to increasing the capacity of vocational schools to meet projected job needs.



## The road so far/project milestones

2019

2020

2021

2022

Project manager selected

**Architect selected** 

Feasibility study launched to explore design/construction options

Feasibility study completed

Final design/construction option selected (new build)

Construction manager selected

Schematic/preliminary design of selected option completed

Vote to approve funding of construction 01.25.22



## Feasibility study + final selection

	Updated:	Matrix of Options DRAFT  Families of Conceptual Options											
	DRAFT7.22.2020												
	Families of Options:		Α	E	3		С	D					
		MSBA Required	Renovation	Add/	Reno	Nev	v Construction O	New Construction Off-Site					
	Enrollment	Base Repair	A.1	B.1	B.2	C.1	C.2. <sub>1</sub>	C.3.1	C.2.A	?D.1?			
a.	<b>1,250</b> Students	doesn't address any educational deficiencies	A.1a	B.1a	B.2a	C.1a	C.2.1a	C.3.1a	C.2.Aa	D.1a			
b.	<b>1,400</b> Students	Х	A.1b	B.1b	B.2b	C.1b	C.2.1b	C.3.1b	C.2.Ab	D.1b			
c.	<b>1,600</b> Students	Х	A.1c	B.1c	B.2c	C.1c	C.2.1c	C.3.1c	C.2.Ac	D.1c			
d.	<b>1,660</b> Students	Х	A.1d	B.1d	B.2d	C.1d	C.2.1d	C.3.1d	C.2.Ad	D.1d			
e.	<b>1,722</b> Students	X	A.1e	B.1e	B.2e	C.1e	C.2.1e	C.3.1e	C.2.Ae	D.1e			

Selected option =

New construction on existing school site for 1,600 students





## Why was the C.3 option selected?

#### C.3: New construction for 1,600 students on existing school site



Best supports NEMT ed plan goals



**Best separation from Breakheart Reservation traffic** 



Least disruption to existing school operations



Addresses long-term facility deficiencies



Most ideal to create a new access road from Farm St.



Best value of 30+ construction options studied

#### FRONT ENTRY





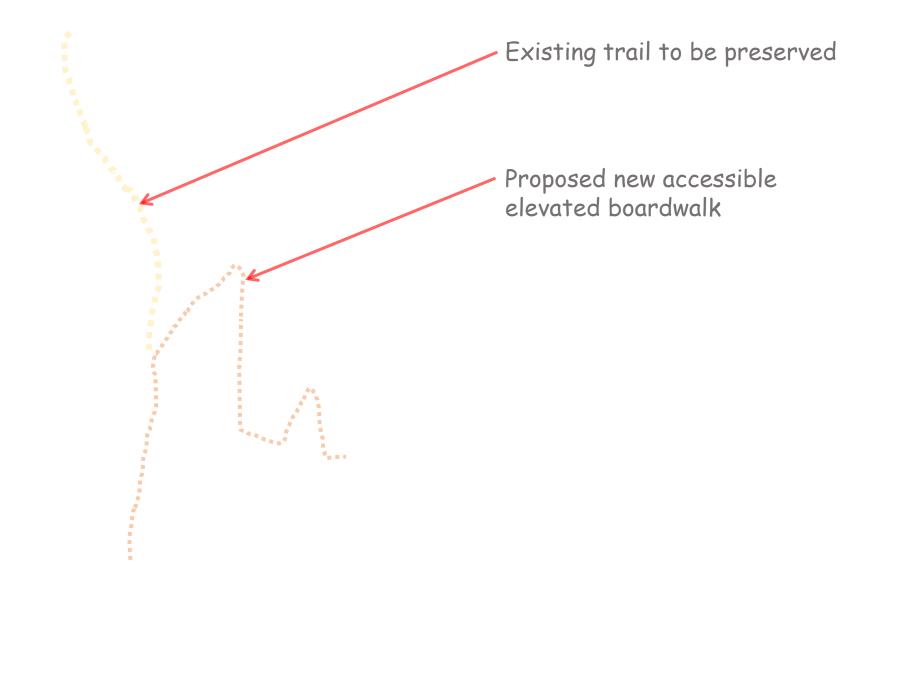


#### VIEW FROM EXISTING SCHOOL













### Overall project schedule

- ❖ MSBA Board of Directors Meeting: 8/25/2021
- ❖ Popular Vote to Occur on 01/25/2022
- Submit DD Package to MSBA: May/June 2022
- Submit 60% CD Package to MSBA: January/February 2023
- ❖ Submit 90% CD Package to MSBA: May 2023
- Submit 100% CDs to MSBA: targeting August 2023
- **❖ New School Opens: 2025-2026 school year**
- ❖ Abate/Demolish Exist. School, Construct Athletic Fields/Final Parking: Late 2026

### **Community outreach & approvals**



Since the MSBA invited the District to conduct a Feasibility Study in April of 2019, the District has held the following meetings related to the project:

- (18) School Building Committee Meetings.
- (23) Public Meetings (School Committee Meetings, Wetlands Conservation Meetings).
- ♦ (12) Community Forums specific to the project to discuss project updates.
- ❖ (22+) meetings with; town managers, city mayors, city councils, finance comittees, and town meetings (some towns-multiple times) providing updates on the design, budget, and estimated local shares.
- Outreach to all 12 Historical Commissions, Rotary Clubs, and Chambers of Commerce from each District member community.
- Dedicated Project Website.
- Dedicated Project Facebook/Instagram pages with weekly updates/posts

Facebook Page Reach **6**79,598 ↑ 32.0K%





## **Cost Information**

## Construction option costs (1600 enrollment)



- Option B.2 Addition/Renovation- \$284,606,678. Multiple phases resulting in disruption to educational delivery due to extent of construction over many years. Does not address education plan 21<sup>st</sup> Century Model. Confined to same approximate sprawling, unsafe and inefficient footprint. Temporary construction costs do not provide long-term value.
- Option C.1 New Construction (Behind Existing)- \$317,408,333. Cost almost identical to preferred option but intrusive construction. Suboptimal building layout to deliver education plan. Limited in land usage due to Wetlands. Temporary construction costs do not provide long-term value. Results in many windowless, hillside-facing educational spaces.
- ❖ Option C.2 New Construction (Football Field)- \$308,663,274. Cost is 3% less than C.3 but is a much more intrusive construction option. Most important − Suboptimal building layout to deliver education plan. Limited in land usage due to Wetlands. Will also result in an increase to current traffic issues on site and at Farm Street intersection. All sports programs displaced for entirety of project.
- ❖ Option C.3 New Construction (Current Option)- \$317,422,620. Enables construction to occur without impacting current school operations. Ideal building layout to deliver education plan, energy efficient layout, . New access road to alleviate traffic issues. Construct required playing fields for all athletic programs, etc.



## **Construction option costs (1600 enrollment)**



SOFT COSTS	Feasibility Study	\$1,790,305					
	Project Team (OPM, Architect/Engineers, CM Preconstruction)	\$29,888,005					
	Owner Contingency						
	Construction-Related Soft Costs (Utility Fees, Permits, Testing, Moving, HazMat/Geotech Consultants, etc.)						
	Subtotal	\$47,365,028					
	Construct New School (Substructure, Shell, Interiors, Services (MEP), Equipment/Furnishings)	\$146,329,106					
	Demolition & Abatement	\$3,702,853					
	Site Preparation (Clearing, Site Demo, Excavation, Grading, Dewatering, etc.)	\$12,235,063					
	Site Improvements (New roadway/signal, parking Lot curb/paving/guardrails, Landscaping, Athletic Fields \$4.9M)	\$12,583,194					
CONCEDUCTION	Site Utilities (Civil, Mechanical, Electrical)	\$10,137,218					
CONSTRUCTION	Outbuildings	\$4,219,132					
COSTS	Design/Pricing Contingency (\$13.4м) and Escalation (\$18.2м)	\$31,597,340					
	Subcontractor Bonds, CM Insurance	\$7,251,618					
	CM Fee (\$4.2M), Staffing/General Requirements (\$16.7M), and Contingency (\$5.4M)	\$26,352,068					
	Owner Construction Contingency	\$15,650,000					
	Subtotal	\$270,057,592					

**TOTAL BUDGET = \$317,422,620** 

#### **Total MSBA Reimbursement Breakdown**



\$317,422,620

Total project budget with contingencies

\$243,907,541

**CONCEPTUAL** MSBA reimbursable amount (76.84%) **IF all project costs were reimbursable** 

\$140,851,919

**ACTUAL** agreed upon maximum MSBA reimbursable amount (44.4%) Due to cost caps and ineligible project costs

\$103,055,622

Difference between **CONCEPTUAL** reimbursement and **ACTUAL** reimbursement amounts

## Cost caps & ineligible costs breakdown



\$66,282,895	Construction cost per SF exceeds \$360/SF cap (plus eligible abatement/demo). Grant reduced for ineligible square feet included within design for District Admin, Health/PE, Dining, Custodial, Bank, and other spaces exceeding MSBA Guidelines
\$24,114,467	Site costs exceed the MSBA limit – eligible site costs limited to 8% of direct building cost
\$15,998,213	Owner Contingency amounts exceed the MSBA caps
\$14,689,743	Pro-rated construction mark-ups for above MSBA site cost cap and for ineligible building SF (markups include design/pricing/GMP contingencies, CMR fees, bonds, insurance & escalation)
\$6,976,500	Costs exceed MSBA FF&E/Technology caps of \$1,200/student each (no difference in MSBA cap for elementary or vocational HS)
\$4,825,480	Ineligible OPM & Designer fees. Due to ineligible building SF and new MBSA caps limiting OPM & A/E Fees to \$500/SF basis
\$1,229,859	"Categorically Ineligible" project costs for legal fees, moving, asbestos abatement
\$134,117,157	Total of above ineligible costs
\$103,055,622	Total AFTER the 76.84% MSBA reimbursement is applied





Item	Est. Savings	Description
Student Enrollment Selection (Range of 1250 – 1722 students authorized by MSBA)	~\$20M	<ul> <li>MSBA design enrollment range of 1250-1722 students due to existing waitlist and expected increased interest.</li> <li>5 Options studied: 1250, 1400, 1600, 1660, and 1722 students.</li> <li>Middle option of 1,600 students selected to manage costs.</li> <li>PSR total estimated project cost of 1722 students: ~\$20M higher</li> </ul>
Increased MSBA Reimbursement Rate (non-incentives)	~\$24.75M	District engaged and worked with legislators to increase MSBA reimbursement rate for project from 63.34% to 76.84% of eligible costs. This was realized from December 2020 PSR submission to August 2021 Schematic Design submission to MSBA.
Increased MSBA Reimbursement Rate: Incentive Points	~\$6.56M	District awarded 3.58 total incentive points by MSBA: - 1.58 incentive points for exceptional maintenance practices - 2 incentive points for meeting Green Building Design criteria
Further MSBA PS&B Negotiations	~\$1.2M	Prior to attending August 2021 MSBA Board Meeting, the project team worked with the MSBA to reduce ineligible square footage and eligible MSBA Project costs by almost \$1.2M.
Schematic Design Cost Estimate Value Management Efforts	~\$22M	See next slide for examples

Other efforts: Consolidate building footprint, permitting fees, CM selection/preconstruction services





Example VM efforts from Schematic Design Construction Cost Estimating:

Item	Amount	Notes
Reduce Locker Room Building Size	\$823k	Athletic-related
Reduce Sports Field Lighting to Multisport only	\$553k	Athletic-related
Reduce bleachers by 50%	\$624k	Athletic-related
Other Site & Athletic VM	\$1.25M	Remove some curbing, simplify dugout structure / turf, reduce roadway thickness, etc.
Simplification of architectural / structural design	\$4.8M	NON-EDUCATIONAL ONLY. Revise phenolic panels to painted surface or tile, eliminate overhangs, simplify lighting and ceilings, etc.

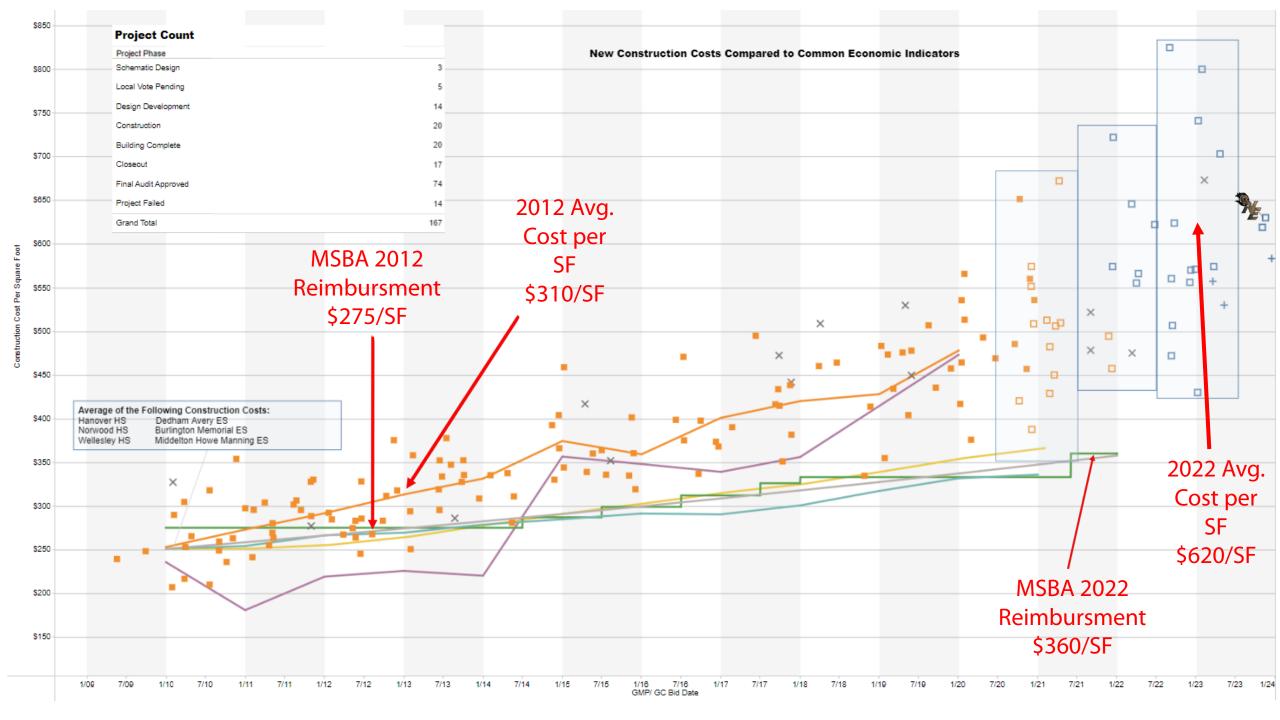


#### **Cost of construction**

#### http://info.massschoolbuildings.org/TabPub/TableauCostData.aspx



- ❖ 2012 Avg. Cost Per Square Foot (High Schools): \$310
- ❖ 2012 MSBA Reimbursement Cost per Square Foot (Eligible Costs): \$275
- ❖ 2022 Projected Cost per Square Foot (Traditional High Schools): \$619, Northeast Metro is \$630 (1% above average)
- ❖ 2022 MSBA Reimbursement Cost per Square Foot (Eligible Costs): \$360





### MSBA recent project cost per square foot

Waltham High School\* \$722/SQ.FT.

Boston Arts Academy \$672/SQ. FT.

Northeast Metro\* \$630/SQ.FT.

Fall River Diman Regional\* \$619/SQ.FT.

Bristol Plymouth\* \$574/SQ.FT.

\* = Vocational Technical Education School



3

Calculating Chapter 70 local contribution requirements and state aid

## Goal of the Chapter 70 formula

 To ensure that every district has sufficient resources to meet its foundation budget spending level, through an equitable combination of local property taxes and state aid. The updated formula includes three parameters to be specified in each year's general appropriations act

- In the FY22 budget, these are specified as:
  - Total state target local contribution = 59%
  - Effort reduction = 100%
  - Minimum aid = \$30 per pupil

There are 6 factors that work together to determine a district's Chapter 70 aid

#### **Foundation Budget**

- Enrollment
- Wage Adjustment Factor
- Inflation

#### **Local Contribution**

- Property value
- Income
- Municipal Revenue Growth Factor

# There are three primary steps in determining each district's Chapter 70 aid

Define and calculate a foundation budget for each district, given the specific grades, programs, and demographic characteristics of its students



local contribution
requirement, how much of
the foundation budget that
should be paid for by each
city and town's property tax,
based upon the relative
wealth of the municipality



Calculate state aid, providing necessary funds to reach foundation or mandated minimum aid increases

Local Contribution + State Aid = a district's net school spending (NSS) requirement This is the minimum amount that a district must spend to comply with state law

## Each district's foundation budget is calculated by multiplying the number of pupils in 13 enrollment categories by cost rates in 11 functional areas

Pasa Foundation Components

#### FY22 Chapter 70 Foundation Budget

331 Westport

	Base Foundation Components							Incremental Costs Above the Base						!
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
		Kinderg	garten		Junior/	High		Special Ed	Special Ed	<b>English learners</b>	English learners	s English learners		•
	Pre-school	Half-Day	Full-Day	Elementary	Middle	School	Vocational	In-District	Tuitioned-Out	PK-5	6-8	High School/Voc	Low income	TOTAL
Foundation Enrollment	41	0	102	2 557	388	403	, o	56	6 15	5 13	3 3	3 2	2 441	1,471
							7	4					j	· /
1 Administration	8,310	0	41,348	225,791	157,284	163,364	0	156,672	45,160	1,235	300	0 171	26,707	826,341
2 Instructional Leadership	15,008	0	74,677	407,796	284,066	295,048	0	0	0	2,162	524	4 300	126,536	1,206,119
3 Classroom & Specialist Teachers	68,819	0	342,417	1,869,843	1,146,214	1,750,765	0	516,977	0	15,130	3,669	9 2,100	1,235,228	6,951,163
4 Other Teaching Services	17,650	0	87,823	479,583	240,482	207,940	0	482,694	690	2,162	524	4 300	0	1,519,848
5 Professional Development	2,722	0	13,549	73,997	55,876	56,275	0	24,938	0	618	150	0 86	59,923	288,133
6 Instructional Materials, Equipment & Technology*	9,961	0	49,561	270,641	188,525	313,300	0	21,767	0	1,544	374	4 214	9,186	865,073
7 Guidance & Psychological Services	5,508	0	27,409	149,677	130,415	164,263	0	0	0	926	225	5 129	50,018	528,570
8 Pupil Services	1,991	0	9,913	81,188	92,383	221,263	0	0	0	309	75	5 43	259,908	667,073
9 Operations & Maintenance	19,111	0	95,084	519,235	392,121	394,900	0	175,010	0	3,705	899	9 514	0	1,600,578
10 Employee Benefits/Fixed Charges*	23,942	0	119,126	650,537	471,773	440,842	0	198,286	0	3,397	824	4 471	199,808	2,109,006
11 Special Education Tuition*	0	0	0	0	0	0	0	0	428,766	0	0	0 0	o ;	428,766
							7	4					,	1
12 Total	173,023	0	860,908	4,728,289	3,159,139	4,007,960	0	1,576,344	474,615	31,186	7,563	3 4,329	1,967,314	16,990,670
13 Wage Adjustment Factor	100.0%									,	Foundation Bud	dget per Pupil		11,550
*The wage adjustment factor is applied to underlying	•	anctions except i	instructional er	quipment, benef	its and special $\epsilon$	education tuiti	on.							
14 Low income percentage	32.3%							I		foundation budge				0.3%
15 Low income group	6							,	Low-income for	undation budget a	as % total found	ation budget		11.6%
														•

Incremental Costs Above the Base

All of your students are counted in categories 1–7; special education, English learner, and low-income costs are treated as costs above the base and are captured in 10–13

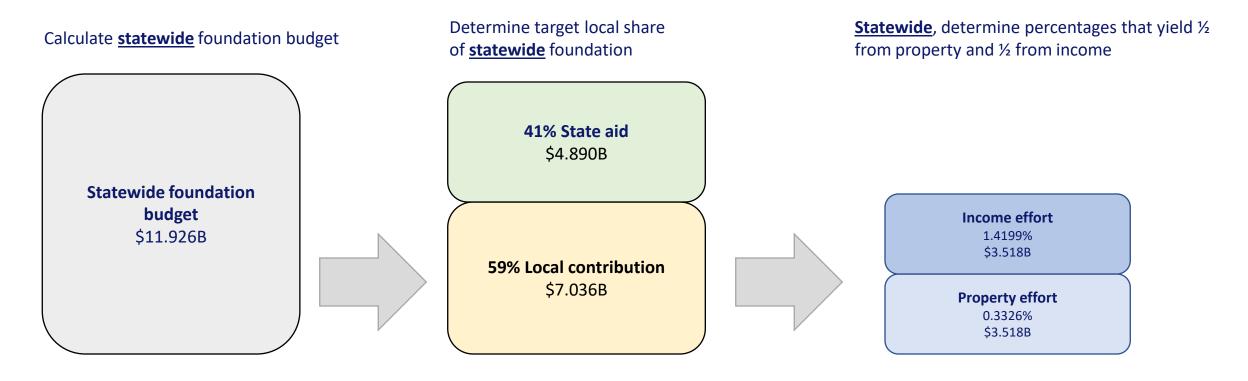
#### Foundation budgets vary based on student needs

#### Foundation budget per pupil, by low-income % range



Note: Chart excludes vocational and agricultural districts.

Determining each municipality's target local share starts with the local share of statewide foundation



Property and income percentages are applied uniformly across <u>all cities and towns</u> to determine the combined effort yield from property and income.

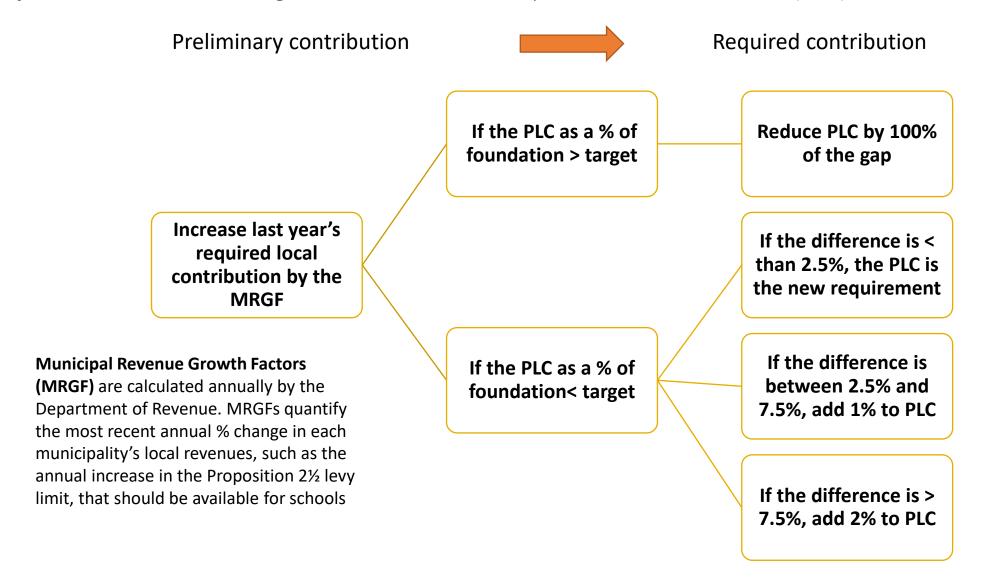
An individual municipality's target local share is based on its local property value, income, and foundation budget

 The sum of a municipality's local property and income effort equals its Combined Effort Yield (CEY)



- Target Local Share = CEY/Foundation budget (calculated at the city/town level)
  - Capped at 82.5% of foundation (162 municipalities or 46% are capped)

Next the formula calculates each municipality's preliminary local contribution (PLC) and makes adjustments relative to target to determine the required local contribution (RLC)

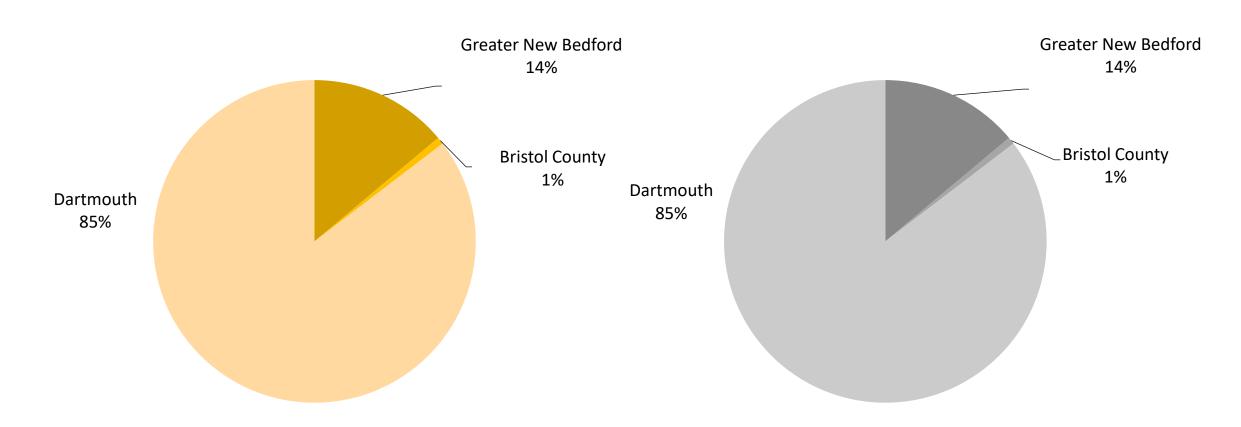


Once a city or town's required local contribution is calculated, it is allocated among the districts to which it belongs

### **Town of Dartmouth**

Foundation budget = \$45.0M

Required local contribution = \$37.1M



## Foundation aid provides additional funding for districts to spend at their foundation budgets

#### Foundation budget – Required local contribution = Foundation aid

- Start with prior year's aid
- Add together the prior year's aid and the required local contribution
- If this year's foundation aid exceeds last year's total Chapter 70 aid, the district receives the amount needed to ensure it meets its foundation budget

(1) Foundation budget

(3) Foundation aid increase

Prior year's aid

(2) This year's required local contribution

## Calculating Chapter 70 aid: Districts are held harmless to previous aid levels and guaranteed at least a \$30 per pupil increase

- Districts are held harmless to the previous year's level of aid
- 249 districts receive minimum aid increases of \$30 per pupil over FY21

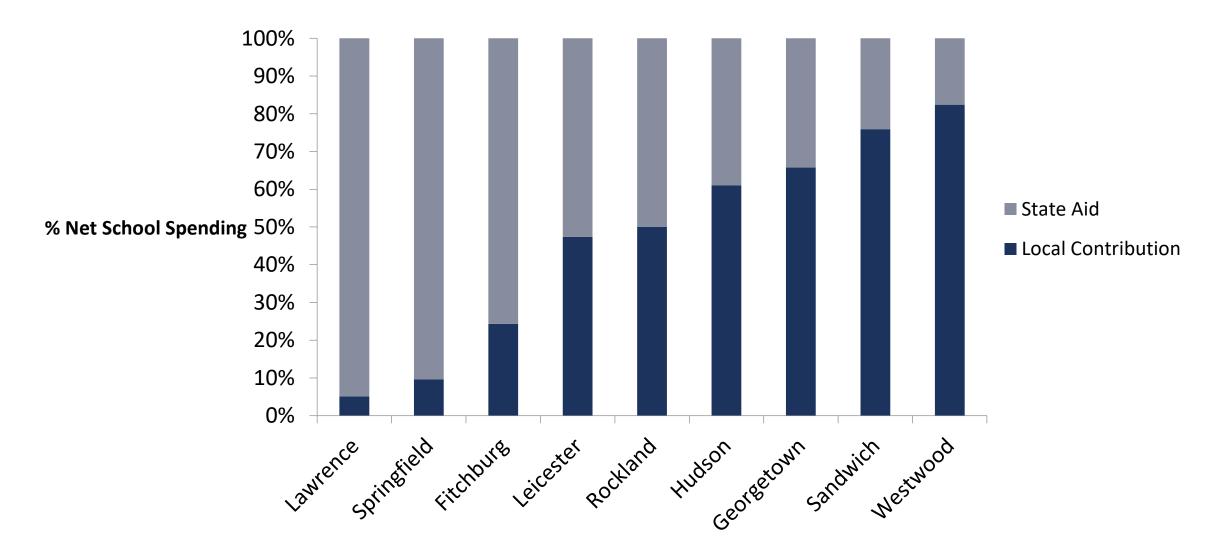
#### FY22 Chapter 70 Summary

625 Bridgewater Raynham

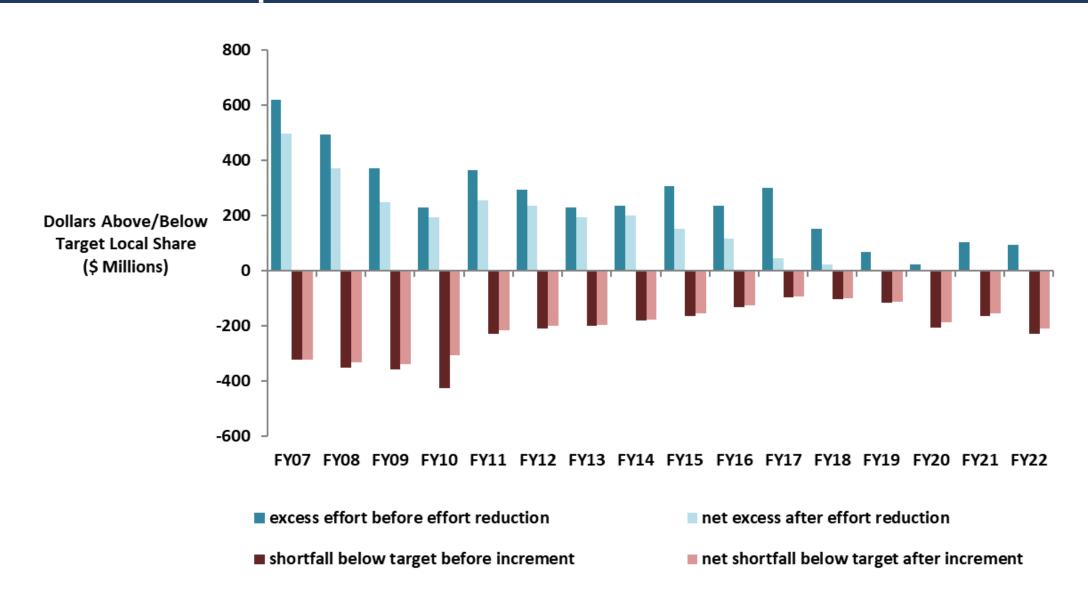
**Aid Calculation FY22** 

1 Chapter 70 FY21	22,716,693
Foundation Aid	
2 Foundation budget FY22	60,696,670
3 Required district contribution FY22	37,575,602
4 Foundation aid (2-3)	23,121,068
5 Increase over FY21 (4 - 1)	404,375
Minimum Aid	
6 Minimum \$30 per pupil increase	163,380
7 Minimum aid amount	•
(if line 6 - line 5 > 0, then line 6 - line 5, otherwise 0)	0
Subtotal	
8 Sum of 1,5,7	23,121,068
6 Sull 01 1,3,7	23,121,008
Minimum Aid Adjustment	
9 Minimum aid adjustment	23,266,232
10 Aid adjustment increment	
(if line 9 - line 8 > 0, then line 9 - line 8, otherwise 0)	145,164
Non-Operating District Reduction to Foundation	
11 Reduction to foundation	0
FY22 Chapter 70 Aid	
	0

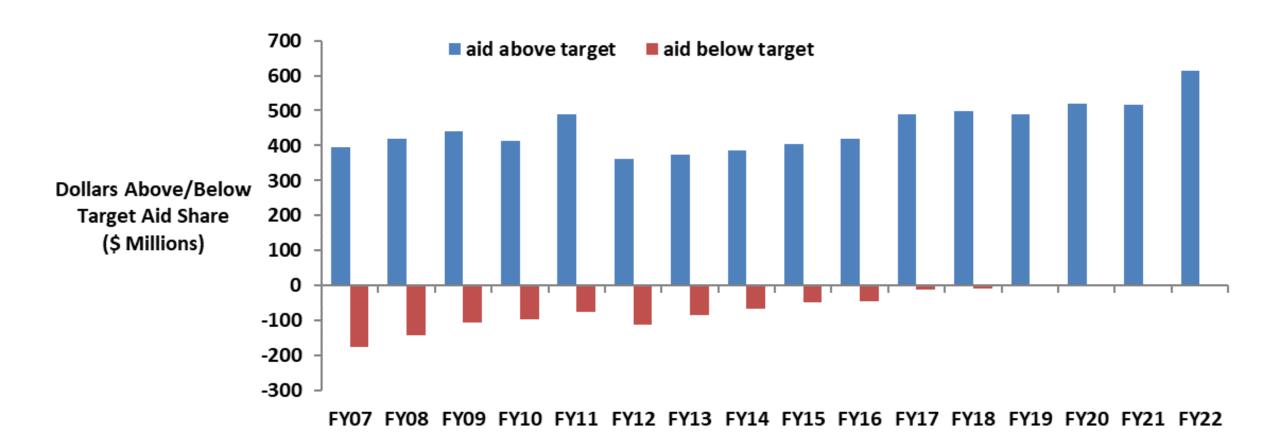
# Districts receive different levels of Chapter 70 aid because their municipality's ability to pay differs



## Changes to local contribution calculations started in FY07 have eliminated required excess effort and reduced effort shortfalls



## There are no longer any districts funded below target, while above target aid has increased



## QUESTIONS?

Rob O'Donnell, Director of School Finance Rob Hanna, State Aid Programs Manager

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**781.338.6512** 

✓ Robert.Hanna@mass.gov

781.338.6525







### **Voting Information**



### Your vote counts! Vote date Tue 01.25.22

### YES VOTE

- 1. Accepts \$140.8M in funding assistance from the MA School Building Authority
- 2. District share is \$176.6M (each Town/City pays same amount per student enrolled)
- 3. Adds 3 new programs and increases enrollment 25%
- 4. Construction complete in 2026, minimal disruption to school operations

### **NO VOTE**

- 1. Declines \$140.8M in grants
- 2. May cost District ~\$130M+ for immediate building code and accessibility upgrades (likely no MSBA funding assistance)
- 3. No new programs or increased enrollment
- 4. Construction complete ~2031, construction occurs in active school

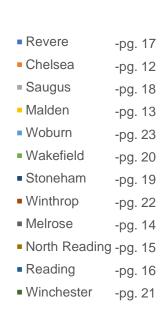


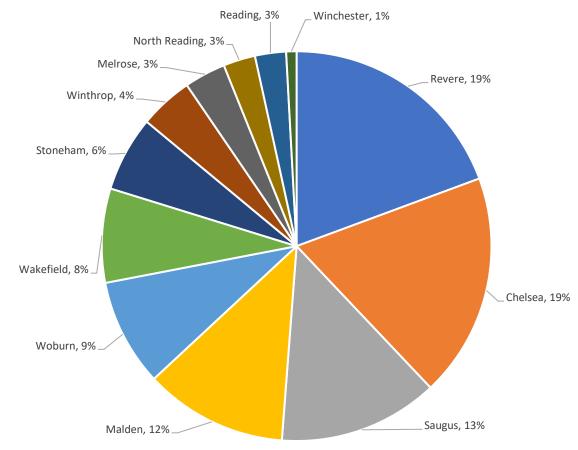
### Polling locations as recommended by clerks

Chelsea	Chelsea City Hall	500 Broadway, Chelsea
Malden	The Senior Center Auditorium	7 Washington Street, Malden
Melrose	Middle School Gym Complex	90 Melrose Street, Melrose
North Reading	St. Theresa's Church	51 Winter Street, North Reading
Reading	Reading Memorial High School Hawkes Field House	62 Oakland Road, Reading
Revere	St. Anthony's Church (rear entrance)	250 Revere Street, Revere
Saugus	Saugus Senior Center	466 Central Street, Saugus
Stoneham	Stoneham Town Hall	35 Central Street, Stoneham
Wakefield	Galvin Middle School	525 Main Street, Wakefield
Winchester	Winchester Town Hall	71 Mt. Vernon Street, Winchester
Winthrop	Old Middle School Gym	151 Pauline Street, Winthrop
	Robert DeLeo Senior Center	35 Harvard Street, Winthrop
	O'Connell Hall	9 Golden Drive, Winthrop
Woburn	Old Wyman Elementary School	Main Street and Eaton Avenue, Woburn

### Member Municipalities: Enrollments & Proration of Debt Service









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### Member Municipalities: Enrollments & Potential Local Share as of Sept. 9, 2021



Town/City	Chelsea	Malden	Melrose	North Reading
Students at Northeast 10/1/2020	238	152	44	34
Local Share of New Northeast Metropolitan	18.58%	11.87%	3.43%	2.65%
Share of Total Project Costs @ \$317,422,920	58,974,732	37,664,534	10,902,892	8,424,962
Share of Local Project Costs @ \$176,570,701	32,805,485	20,951,402	6,064,880	4,686,498
Town/City	Reading	Revere	Saugus	Stoneham
Students at Northeast 10/1/2020	33	248	170	80
Students at Northeast 10/1/2020	33	240	1/0	00
Local Share of New Northeast Metropolitan	2.58%	19.36%	13.27%	
Local Share of New Northeast Metropolitan	2.58%	19.36% 61,452,661	13.27%	6.25%
Local Share of New Northeast Metropolitan Share of Total Project Costs @ \$317,422,920	<b>2.58%</b> 8,177,169	19.36% 61,452,661	13.27% 42,124,808	6.25% 19,823,439
Local Share of New Northeast Metropolitan Share of Total Project Costs @ \$317,422,920 Share of Local Project Costs @ \$176,570,701	2.58% 8,177,169 4,548,660	19.36% 61,452,661 34,183,867 Winchester	13.27% 42,124,808 23,432,490	6.25% 19,823,439 11,027,054 Woburn
Local Share of New Northeast Metropolitan Share of Total Project Costs @ \$317,422,920 Share of Local Project Costs @ \$176,570,701 Town/City	2.58% 8,177,169 4,548,660 Wakefield	19.36% 61,452,661 34,183,867 Winchester	13.27% 42,124,808 23,432,490 Winthrop	6.25% 19,823,439 11,027,054 Woburn
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# Thank you!

Questions?