

Information as of:

December 2019  
Board Meeting

Estimated Construction & Total Project Cost Data at Schematic Design [ON OR AFTER JANUARY 1, 2014]  
High Schools

The information and data contained in this spreadsheet, for construction projects starting January 2014, is based on the MSBA's review of construction cost estimates, contracts and other documentation provided by cities, towns, and regional school districts. This information and data is intended for informational purposes only. The data may have changed based on actual construction bids or contract amendments, for example, and the MSBA shall have no responsibility or duty to update any of the information contained in this spreadsheet. Please contact the Districts for the most current information. The MSBA hereby disclaims any and all liability and responsibility that may arise in connection with the information contained in this spreadsheet. This spreadsheet may include a preliminary review of scope exclusions but all costs identified are subject to review and audit by the MSBA and may not be eligible for reimbursement by the MSBA.

Date Board Approved	Oct-12	Oct-13	Jul-13	Jan-14	Jul-14	Jul-14	Jun-15	Jan-16	Jan-16	
District	Greater Lowell	Winchester	Berkshire Hills	North Middlesex <sup>1</sup>	Holbrook	Plymouth	Pittsfield	Billerica	Minuteman Regional	
School Name	Greater Lowell RTHS	Winchester High School	Monument Mountain Regional HS	Regional High School	Holbrook Jr./Sr. High School	Plymouth South High School	Taconic High School	Billerica Memorial HS	Minuteman Regional Vocational Technical HS	
Construction Type	Repair	Add/Reno	Add/Reno	New	New	New	New	New	New	
Enrollment	1,990	1,370	570	870	1,095	1,005	920	1,610	628	
GSF	505,766	309,142	137,380	180,530	217,353	248,081	246,520	325,191	257,745	
Assumed Start of Construction	Mar-14	Jun-14	Nov-14	May-15	Nov-15	Jun-15	Jan-16	Feb-17	Aug-17	
OPM	Joslin, Lesser & Associates, Inc.	Skanska USA Building, Inc.	Strategic Building Solutions, LLC	Heery International, Inc.	SMMA	Ted Gentry Associates	Skanska	KV Associates, Inc.	Skanska	
Designer	KBA Architects	Symmes Maini & McKee Associates	SMMA	Symmes Maini & McKee Associates	Flansburg Associates	Ai3 Architects LLC	Drummy Rosanne Anderson, Inc.	Perkins+Will	Kaestle Boos Associate, Inc.	
Cost Estimator	Atlantic Construction & Management	AM Fogarty, Inc.	PM&C	A.M. Fogarty, Inc.	PM&C	PM&C	Gilbane	PM&C	PM&C	
Division #	Description of Work	Total Cost								
A	Substructure	\$583,645	\$2,250,990	\$1,065,264	\$3,560,992	\$2,531,769	\$3,993,470	\$2,491,962	\$3,519,889	\$6,018,571
B	Shell	\$10,186,500	\$19,046,044	\$7,189,937	\$14,024,734	\$18,057,582	\$19,439,662	\$18,777,964	\$29,602,363	\$20,391,786
B10	Superstructure	\$703,420	\$3,689,083	\$1,238,330	\$5,055,274	\$6,504,027	\$8,662,654	\$8,465,685	\$12,929,882	\$8,674,815
B20	Exterior Enclosure	\$4,394,050	\$12,445,753	\$1,784,661	\$5,882,134	\$7,147,168	\$8,768,249	\$7,715,637	\$14,082,289	\$8,246,516
B2010	Exterior Walls	\$1,882,165	\$8,665,814	\$2,76,948	\$3,966,375	\$5,023,603	\$5,862,988	\$6,373,942	\$8,625,095	\$8,246,516
B2020	Exterior Windows	\$2,239,285	\$3,595,529	\$1,350,617	\$1,728,357	\$2,025,365	\$2,581,898	\$1,183,935	\$5,323,374	
B2030	Exterior Doors	\$272,600	\$184,410	\$157,096	\$187,402	\$98,200	\$323,363	\$157,760	\$133,820	
B30	Roofing	\$5,089,030	\$2,911,208	\$4,166,946	\$3,087,326	\$2,008,387	\$2,008,759	\$2,596,642	\$2,590,192	\$3,470,455
C	Interiors	\$4,530,640	\$13,429,636	\$5,063,669	\$8,987,130	\$10,410,725	\$12,961,512	\$12,416,341	\$16,793,857	\$13,748,466
D	Services	\$19,286,748	\$25,929,654	\$11,339,242	\$14,568,287	\$19,130,764	\$22,000,045	\$23,297,917	\$29,610,267	\$25,631,184
D10	Conveying	\$15,000	\$240,000	\$51,800	\$78,843	\$182,300	\$213,150	\$295,000	\$327,000	\$365,350
D20	Plumbing	\$1,600,685	\$3,869,317	\$1,490,841	\$1,923,161	\$3,017,750	\$3,097,714	\$3,085,466	\$4,310,240	\$3,556,828
D30	HVAC	\$8,830,788	\$13,068,172	\$5,076,014	\$6,819,124	\$8,365,590	\$7,993,730	\$9,000,522	\$11,597,500	\$11,305,292
D40	Fire Protection	\$2,286,604	\$1,453,858	\$601,605	\$768,616	\$814,450	\$1,069,800	\$1,305,931	\$1,622,980	\$1,238,678
D50	Electrical Utilities	\$6,553,671	\$7,298,307	\$4,118,982	\$4,978,543	\$6,750,674	\$9,625,651	\$9,610,998	\$11,752,547	\$9,165,036
E	Furnishings & Fixed Equipment	\$2,026,320	\$3,206,606	\$1,966,965	\$3,081,919	\$2,480,265	\$2,217,620	\$3,029,004	\$5,872,590	\$5,883,466
	Building Value Engineering									
	<b>Building Subtotal</b>	<b>\$36,613,853</b>	<b>\$63,862,930</b>	<b>\$26,625,077</b>	<b>\$44,223,062</b>	<b>\$50,611,105</b>	<b>\$60,612,309</b>	<b>\$60,013,188</b>	<b>\$85,398,966</b>	<b>\$71,673,473</b>
F	Special Construction & Demo	\$2,963,289	\$5,223,227	\$1,547,513	\$3,326,174	\$1,583,140	\$1,949,100	\$3,257,268	\$7,045,280	\$3,209,008
G	Other Site Construction	\$1,198,558	\$7,033,731	\$2,448,700	\$6,640,382	\$8,212,630	\$8,320,686	\$8,293,358	\$13,223,137	\$8,784,416
G10	Site Preparation	\$135,812	\$2,548,718	\$375,400	\$1,730,917	\$1,282,844	\$1,913,708	\$2,923,933	\$2,322,677	\$2,457,415
G20	Site Improvements	\$603,340	\$3,368,554	\$1,085,800	\$2,702,201	\$4,258,749	\$4,559,260	\$3,258,432	\$7,501,210	\$3,622,404
G30	Mechanical Utilities	\$413,406	\$764,845	\$512,300	\$1,881,170	\$2,042,057	\$1,575,718	\$1,469,335	\$1,729,100	\$1,323,597
G40	Electrical Utilities	\$46,000	\$351,614	\$475,200	\$326,094	\$628,980	\$272,000	\$641,658	\$1,670,150	\$1,381,000
	Other Site Construction				\$43,798			\$50,000		
	<b>Subtotal</b>	<b>\$40,775,700</b>	<b>\$76,119,888</b>	<b>\$30,621,290</b>	<b>\$54,233,416</b>	<b>\$60,406,875</b>	<b>\$70,882,095</b>	<b>\$71,613,814</b>	<b>\$105,667,383</b>	<b>\$83,666,897</b>
Z	Mark-Ups	\$9,872,520	\$21,035,587	\$8,607,400	\$12,581,367	\$15,779,664	\$10,207,021	\$19,764,068	\$28,766,422	\$26,840,326
Z	Insurance	\$1,419,606	\$1,640,376		\$583,735	\$1,155,422	\$354,410	\$1,171,170	\$12,435,144	\$1,572,592
Z	Subcontractor Bond	\$300,000		\$682,000	\$554,510	\$637,939	\$715,787			\$1,139,006
Z	Design & Pricing Contingency	\$4,577,111	\$8,575,064	\$3,441,000	\$6,105,889	\$5,783,066	\$3,544,105	\$8,325,257	\$10,566,738	\$8,366,689
Z	General Conditions	\$2,242,684	\$3,510,000	\$3,788,800	\$4,140,000	\$3,840,000	\$3,898,515	\$5,783,556		\$9,004,650
Z	Overhead & Profit / GMP Fee	\$1,333,139	\$4,480,376	\$695,600	\$1,197,233	\$2,832,526	\$1,772,052	\$1,981,229	\$3,064,354	\$3,485,700
Z	GMP Contingency		\$2,829,771			\$2,168,650		\$1,787,069	\$2,700,186	\$3,271,689
	<b>Construction Subtotal</b>	<b>\$50,648,220</b>	<b>\$97,155,475</b>	<b>\$39,228,690</b>	<b>\$66,814,783</b>	<b>\$76,186,539</b>	<b>\$81,089,116</b>	<b>\$91,377,882</b>	<b>\$134,433,805</b>	<b>\$110,507,223</b>
	Project Scope Adjustments					\$3,648,701				
Z	Escalation to Construction Mid-Point	\$2,517,411	\$3,780,135	\$2,341,300	\$2,014,943		\$2,675,943	\$6,379,491	\$6,340,043	\$8,693,669
	<b>Total Construction Cost</b>	<b>\$53,165,631</b>	<b>\$100,935,610</b>	<b>\$41,569,990</b>	<b>\$68,829,726</b>	<b>\$79,835,240</b>	<b>\$83,765,059</b>	<b>\$97,757,373</b>	<b>\$140,773,848</b>	<b>\$119,200,892</b>
	<b>Cost per Square Foot</b>	<b>\$105</b>	<b>\$327</b>	<b>\$303</b>	<b>\$381</b>	<b>\$367</b>	<b>\$338</b>	<b>\$397</b>	<b>\$433</b>	<b>\$462</b>
Bid Alternates			\$183,012			\$404,800	\$4,398,483	\$495,000		\$6,516,200
CM Pre-Construction Services			\$500,000			\$600,000		\$250,000		\$420,000
Construction Contingency	\$2,658,282	\$5,055,931	\$3,139,000	\$3,458,986	\$4,012,002	\$4,188,253	\$3,484,613	\$7,150,111		\$5,000,000
Designer	\$5,685,298	\$10,848,500	\$4,950,000	\$7,893,000	\$9,135,000	\$7,706,049	\$10,230,985	\$15,085,710		\$11,393,800
OPM & other Professional services	\$1,926,000	\$3,642,500	\$2,520,650	\$4,096,860	\$3,125,756	\$3,030,333	\$3,537,370	\$5,004,648		\$4,173,183
FF&E/IT	\$1,000,000	\$4,932,000	\$1,468,000	\$3,132,000	\$3,942,000	\$3,741,000	\$4,098,050	\$5,071,500		\$1,507,200
Legal Fees		\$100,000	\$15,000	\$21,000	\$120,000	\$150,000	\$30,000	\$100,000		\$0
Other Soft Costs	\$275,000	\$3,220,000	\$505,000	\$961,608	\$990,000	\$270,000	\$250,000	\$1,250,000		\$2,035,396
Owner's Contingency	\$600,000	\$505,593	\$1,500,000	\$691,797	\$802,400	\$550,823	\$1,161,538	\$1,311,472		\$1,192,009
	<b>Total Project Budget ***</b>	<b>\$65,310,211</b>	<b>\$129,923,146</b>	<b>\$55,667,640</b>	<b>\$89,084,977</b>	<b>\$102,967,198</b>	<b>\$107,800,000</b>	<b>\$121,294,929</b>	<b>\$175,997,289</b>	<b>\$151,438,680</b>
Bid Alternates			\$183,012			\$404,800	\$4,398,483	\$495,000	\$0	\$6,516,200
Ineligible Costs & Contingency				\$3,831,650	\$2,770,689	\$3,213,650	\$3,565,602	\$2,507,039	\$5,930,038	\$3,807,991
Scope Exclusions	\$125,000	\$26,074,548		\$19,883,308		\$18,689,894	\$12,019,699	\$25,539,786	\$40,644,736	\$40,095,359
	<b>Basis for Total Facilities Grant</b>	<b>\$65,185,211</b>	<b>\$103,665,586</b>	<b>\$51,835,990</b>	<b>\$66,430,980</b>	<b>\$80,658,854</b>	<b>\$87,816,216</b>	<b>\$92,753,104</b>	<b>\$129,422,515</b>	<b>\$101,019,130</b>
	<b>Reimbursement Rate</b>	<b>76.84%</b>	<b>42.92%</b>	<b>48.52%</b>	<b>60.63%</b>	<b>69.12%</b>	<b>53.37%</b>	<b>80.00%</b>	<b>56.99%</b>	<b>44.75%</b>
	<b>Maximum Facilities Grant</b>	<b>\$50,088,316</b>	<b>\$44,493,270</b>	<b>\$25,150,823</b>	<b>\$40,210,027</b>	<b>\$55,751,400</b>	<b>\$46,867,514</b>	<b>\$74,202,483</b>	<b>\$73,757,891</b>	<b>\$45,206,061</b>

1 - North Middlesex Regional HS - The Maximum Facilities Grant reflects the recovery of \$67,076.  
\*\*\* Total Project Budget Value includes the cost of Alternates.

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Date Board Approved	May-16	Feb-17	Jun-17	Aug-17	Oct-17	Dec-17	Dec-17	Feb-18	
District	Stoughton	Somerville	Saugus <sup>2</sup>	Cape Cod <sup>3</sup>	Middleborough <sup>4</sup>	Worcester <sup>5</sup>	Boston <sup>6</sup>	Attleboro <sup>7</sup>	
School Name	Stoughton High School	Somerville High School	Saugus High School	Cape Cod Regional Technical HS	Middleborough HS	South High Community	Boston Arts Academy	Attleboro HS	
Construction Type	New	New	New	New	New	New	New	New	
Enrollment	1,065	1,590	1,360	650	720	1,420	500	1,725	
GSF	214,600	369,496	269,070	220,880	166,650	359,994	153,476	476,425	
Assumed Start of Construction	Jul-17	Jan-18	Feb-18	Dec-20	Dec-17	Oct-18	Sep-18	May-19	
OPM	Compass Project Management	PMA	PMA	Colliers International	Compass Project Management, Inc.	HEERY	PMA Construction Services	Skanska	
Designer	Drumme Rosanne Anderson, Inc.	SMMA	HMFH	Drumme Rosane Anderson, Inc.	Drumme Rosane Anderson, Inc.	Lamoureux Pagano & Associates, Inc.	Perkins Eastman/DPC	Kaestle Boos Associates	
Cost Estimator	PM&C	PM&C	PM&C	Rider Levett Bucknall	Miyakoda Consulting	A.M. Fogarty & Assoc., Inc.	PM&C	PM&C	
Division #	Description of Work	Total Cost							
A	Substructure	\$2,960,617	\$6,035,997	\$4,691,092	\$5,278,100	\$4,198,828	\$7,779,638	\$5,999,651	\$7,491,254
B	Shell	\$18,749,972	\$35,855,220	\$23,089,994	\$20,993,600	\$14,745,626	\$31,355,727	\$21,370,653	\$42,865,549
	B10 Superstructure	\$7,774,475	\$12,519,992	\$10,938,078	\$7,838,500	\$6,146,235	\$13,537,973	\$9,050,697	\$19,192,257
	B20 Exterior Enclosure	\$8,312,029	\$17,722,553	\$9,414,509	\$10,281,100	\$6,521,892	\$14,292,278	\$10,492,688	\$17,912,962
	B2010 Exterior Walls	\$5,952,208	\$12,835,308	\$5,639,966	\$5,092,100	\$4,507,560	\$9,937,200	\$5,325,295	\$10,363,543
	B2020 Exterior Windows	\$2,245,709	\$4,681,245	\$3,632,103	\$4,863,200	\$1,850,400	\$4,168,568	\$5,048,704	\$7,258,819
	B2030 Exterior Doors	\$114,112	\$206,000	\$142,440	\$325,800	\$163,932	\$186,510	\$118,689	\$290,600
	B30 Roofing	\$2,663,468	\$5,612,675	\$2,737,407	\$2,874,000	\$2,077,499	\$3,525,476	\$1,827,268	\$5,760,330
C	Interiors	\$14,700,692	\$21,475,775	\$18,632,387	\$13,308,500	\$10,815,632	\$22,311,169	\$13,817,948	\$25,504,031
D	Services	\$19,574,104	\$43,459,701	\$26,094,271	\$22,861,600	\$16,602,130	\$36,897,131	\$19,195,122	\$50,329,674
	D10 Conveying	\$405,000	\$740,000	\$350,000	\$225,000	\$310,525	\$377,074	\$626,800	\$320,000
	D20 Plumbing	\$2,727,760	\$5,971,978	\$3,551,465	\$3,309,000	\$2,055,770	\$4,923,262	\$2,794,847	\$6,729,300
	D30 HVAC	\$8,141,729	\$18,949,221	\$11,402,776	\$9,562,500	\$6,365,693	\$14,007,717	\$8,064,262	\$19,959,264
	D40 Fire Protection	\$1,021,835	\$2,755,200	\$987,025	\$1,088,100	\$992,625	\$1,529,975	\$895,038	\$2,027,300
	D50 Electrical Utilities	\$7,277,780	\$15,043,302	\$9,803,005	\$8,677,000	\$6,877,517	\$16,059,103	\$6,814,175	\$21,293,810
E	Furnishings & Fixed Equipment	\$2,525,388	\$4,739,258	\$4,613,668	\$2,697,200	\$4,179,673	\$6,668,705	\$4,065,020	\$8,792,157
	Building Value Engineering								
	<b>Building Subtotal</b>	<b>\$58,510,773</b>	<b>\$111,565,951</b>	<b>\$77,121,412</b>	<b>\$65,139,000</b>	<b>\$50,541,889</b>	<b>\$105,012,370</b>	<b>\$64,448,394</b>	<b>\$134,982,665</b>
F	Special Construction & Demo	\$3,015,750	\$10,536,145	\$5,160,025	\$2,513,900	\$2,969,000	\$4,298,200	\$2,554,140	\$7,856,000
G	Other Site Construction	\$8,783,777	\$21,944,804	\$13,337,293	\$9,237,900	\$11,160,446	\$20,575,764	\$1,379,290	\$15,707,685
	G10 Site Preparation	\$2,071,146	\$6,434,250	\$1,537,045	\$2,043,000	\$1,779,286	\$6,911,203	\$295,958	\$2,861,393
	G20 Site Improvements	\$4,674,490	\$12,818,914	\$8,984,703	\$4,512,500	\$6,580,306	\$8,917,481	\$608,502	\$12,846,292
	G30 Mechanical Utilities	\$908,445	\$1,856,668	\$1,933,225	\$2,356,100	\$1,881,104	\$3,141,045	\$302,080	\$0
	G40 Electrical Utilities	\$1,129,696	\$834,972	\$882,320	\$326,300	\$919,750	\$1,606,035	\$172,750	\$0
	Other Site Construction		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>Subtotal</b>	<b>\$70,310,300</b>	<b>\$144,046,900</b>	<b>\$95,618,730</b>	<b>\$76,890,800</b>	<b>\$64,671,335</b>	<b>\$129,886,334</b>	<b>\$68,381,824</b>	<b>\$158,546,350</b>
Z	Mark-Ups	\$21,286,127	\$38,483,421	\$27,285,689	\$21,125,900	\$15,090,574	\$33,496,327	\$22,466,346	\$46,940,391
Z	Insurance	\$988,762	\$2,373,693	\$2,650,551	\$1,473,400	\$763,536	\$2,246,382	\$1,168,050	\$2,653,742
Z	Subcontractor Bond	\$1,074,742	\$3,484,770	\$842,000	\$842,000	\$501,261	\$1,402,468	\$801,038	\$2,369,412
Z	Design & Pricing Contingency	\$7,304,276	\$11,567,703	\$10,039,967	\$8,910,600	\$6,170,233	\$11,689,770	\$6,838,182	\$15,631,941
Z	General Conditions	\$7,619,380	\$14,288,470	\$5,760,000	\$4,613,400	\$5,326,993	\$9,694,298	\$8,655,546	\$8,640,000
Z	Overhead & Profit / GMP Fee	\$2,579,380	\$3,645,505	\$5,521,982	\$5,286,500	\$2,328,551	\$4,216,126	\$2,274,332	\$12,432,589
Z	GMP Contingency	\$1,719,587	\$3,123,280	\$3,313,189	\$0	\$0	\$4,247,283	\$2,729,198	\$5,212,707
	<b>Construction Subtotal</b>	<b>\$91,596,427</b>	<b>\$182,530,321</b>	<b>\$122,904,419</b>	<b>\$98,016,700</b>	<b>\$79,761,909</b>	<b>\$163,382,661</b>	<b>\$90,848,170</b>	<b>\$205,486,741</b>
	Project Scope Adjustments								\$17,601,571
Z	Escalation to Construction Mid-Point	\$5,632,303	\$16,521,389	\$4,780,937	\$6,207,100	\$3,007,989	\$9,478,520	\$5,128,637	
	<b>Total Construction Cost</b>	<b>\$97,228,730</b>	<b>\$199,051,710</b>	<b>\$127,685,356</b>	<b>\$104,223,800</b>	<b>\$82,769,898</b>	<b>\$172,861,181</b>	<b>\$95,976,807</b>	<b>\$223,088,312</b>
	<b>Cost per Square Foot</b>	<b>\$453</b>	<b>\$539</b>	<b>\$475</b>	<b>\$472</b>	<b>\$497</b>	<b>\$480</b>	<b>\$625</b>	<b>\$468</b>
	Bid Alternates	\$3,732,461	\$0	\$0	\$0	\$812,500	\$0	\$0	\$0
	CM Pre-Construction Services	\$150,000	\$696,198	\$400,000	\$0	\$0	\$250,000	\$500,000	\$350,000
	Construction Contingency	\$4,038,448	\$12,764,470	\$7,046,121	\$3,126,700	\$4,138,495	\$8,643,059	\$6,718,376	\$2,230,883
	Designer	\$10,551,120	\$22,805,171	\$13,708,536	\$11,050,549	\$9,202,200	\$15,157,794	\$11,723,293	\$20,078,000
	OPM & other Professional services	\$3,629,642	\$10,096,956	\$5,286,306	\$3,737,832	\$3,059,119	\$4,467,802	\$3,914,122	\$7,710,985
	FF&E/IT	\$2,756,000	\$5,096,000	\$4,896,000	\$3,300,000	\$2,543,040	\$5,680,000	\$2,200,000	\$4,140,000
	Legal Fees	\$20,000	\$10,000	\$25,000	\$0	\$20,000	\$50,000	\$100,000	\$0
	Other Soft Costs	\$462,000	\$3,790,000	\$705,000	\$743,800	\$516,000	\$730,000	\$2,855,000	\$1,150,000
	Owner's Contingency	\$972,287	\$1,672,199	\$968,234	\$1,873,700	\$413,849	\$2,131,404	\$767,814	\$1,170,000
	<b>Total Project Budget ***</b>	<b>\$123,540,688</b>	<b>\$255,982,704</b>	<b>\$160,720,553</b>	<b>\$128,062,881</b>	<b>\$103,475,101</b>	<b>\$209,971,240</b>	<b>\$124,755,412</b>	<b>\$259,918,180</b>
	Bid Alternates		\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Ineligible Costs & Contingency	\$3,066,161	\$8,783,436	\$7,509,936	\$2,158,241	\$3,315,374	\$6,914,447	\$5,758,608	\$1,215,489
	Scope Exclusions	\$34,324,555	\$82,551,497	\$39,159,674	\$32,207,304	\$29,504,859	\$58,592,691	\$49,491,816	\$68,232,148
	<b>Basis for Total Facilities Grant</b>	<b>\$86,149,972</b>	<b>\$164,647,771</b>	<b>\$114,050,943</b>	<b>\$93,697,336</b>	<b>\$70,654,868</b>	<b>\$144,464,102</b>	<b>\$69,504,988</b>	<b>\$190,470,543</b>
	Reimbursement Rate	60.66%	75.29%	57.72%	45.45%	61.29%	80.00%	70.36%	66.65%
	<b>Maximum Facilities Grant</b>	<b>\$52,258,573</b>	<b>\$123,963,307</b>	<b>\$65,830,204</b>	<b>\$42,585,439</b>	<b>\$43,304,369</b>	<b>\$115,571,282</b>	<b>\$48,903,710</b>	<b>\$126,948,617</b>

2 - Saugus High School - The Maximum Facilities Grant reflects the recovery of \$1,740,669.  
 3 - Cape Cod RTHS- The Maximum Facilities Grant reflects the recovery of \$73,779.  
 4 - Middleborough High School - The Maximum Facilities Grant reflects the recovery of \$4,578.  
 5 - Worcester - Max. Facilities Grant reflects the recovery of \$13,593.  
 6 - Boston - Max. Facilities Grant reflects the recovery of \$13,090.

7 - Attleboro HS - The Maximum Facilities Grant reflects the recovery of \$1,215,489.  
 \*\*\* Total Project Budget Value includes the cost of Alternates.

Information as of:

December 2019  
Board Meeting

Estimated Construction & Total Project Cost Data at Schematic Design [ON OR AFTER JANUARY 1, 2014]  
High Schools

The information and data contained in this spreadsheet, for construction projects starting January 2014, is based on the MSBA's review of construction cost estimates, contracts and other documentation provided by cities, towns, and regional school districts. This information and data is intended for informational purposes only. The data may have changed based on actual construction bids or contract amendments, for example, and the MSBA shall have no responsibility or duty to update any of the information contained in this spreadsheet. Please contact the Districts for the most current information. The MSBA hereby disclaims any and all liability and responsibility that may arise in connection with the information contained in this spreadsheet. This spreadsheet may include a preliminary review of scope exclusions but all costs identified are subject to review and audit by the MSBA and may not be eligible for reimbursement by the MSBA.

Date Board Approved	Feb-18	Jun-18	Aug-18	Apr-19	Apr-19	Apr-19	Oct-19		
District	Fall River <sup>8</sup>	Bristol County	Belmont <sup>9</sup>	Arlington <sup>10</sup>	Central Berkshire <sup>11</sup>	Lowell <sup>12</sup>	Sharon <sup>13</sup>	TOTAL	
School Name	BMC Durfee HS	Bristol County Agr. HS	Belmont HS	Arlington HS	Wahconah Regional HS	Lowell HS	Sharon HS	ALL HIGH SCHOOLS	
Construction Type	New	Add/Reno	Add/Reno	New	New	Add/Reno	New		
Enrollment	2,570	640	2,215	1,755	460	3,520	1,250		
GSF	501,330	196,151	445,100	408,590	122,760	622,777	240,204		
Assumed Start of Construction	Oct-18	Dec-19	Jun-19	Jul-20	Mar-20	Jul-21	Dec-20		
OPM	Leftfield	Colliers International	Daedalus Projects, Inc.	Skanska	Skanska	Skanska	PMA		
Designer	Ai3	HMFH	Perkins + Will	HMFH	Drumme Rosane Anderson	Perkins Eastman	Tappe Associates		
Cost Estimator	PM&C	PM&C	PM&C	PM&C	Ellana	PM&C	PM&C		
Division #	Description of Work	Total Cost							
A	Substructure	\$10,040,225	\$2,717,300	\$12,811,842	\$13,474,721	\$2,187,846	\$8,821,761	\$5,558,180	\$126,063,604
B	Shell	\$40,325,500	\$17,646,800	\$45,255,237	\$47,397,378	\$13,238,981	\$43,205,592	\$24,653,902	\$595,466,303
B10	Superstructure	\$15,066,451	\$4,976,500	\$19,448,977	\$21,791,712	\$4,921,782	\$16,763,727	\$10,467,052	\$236,357,578
B20	Exterior Enclosure	\$20,698,812	\$9,307,500	\$22,017,933	\$21,017,633	\$6,567,161	\$21,755,675	\$9,850,484	\$276,631,666
B2010	Exterior Walls	\$20,698,812	\$6,100,000	\$14,962,904	\$13,176,119	\$6,567,161	\$10,053,749	\$6,443,745	\$186,579,116
B2020	Exterior Windows	\$0	\$2,761,000	\$6,851,259	\$7,543,582	\$0	\$11,262,654	\$3,205,499	\$85,401,102
B2030	Exterior Doors	\$0	\$446,500	\$203,770	\$297,932	\$0	\$439,272	\$201,240	\$4,651,448
B30	Roofing	\$4,560,237	\$3,362,800	\$3,788,327	\$4,588,033	\$1,750,038	\$4,686,190	\$4,336,366	\$82,477,059
C	Interiors	\$31,331,576	\$9,130,700	\$30,971,091	\$30,023,786	\$8,304,518	\$38,191,310	\$18,171,110	\$405,032,201
D	Services	\$49,815,273	\$19,421,500	\$53,904,660	\$49,299,133	\$14,341,661	\$67,085,379	\$26,691,340	\$706,366,787
D10	Conveying	\$394,300	\$814,600	\$407,000	\$615,000	\$130,000	\$1,305,000	\$246,200	\$9,034,942
D20	Plumbing	\$6,886,573	\$2,440,500	\$6,636,640	\$6,656,440	\$1,781,270	\$9,392,145	\$4,309,842	\$96,118,794
D30	HVAC	\$19,130,818	\$8,420,500	\$25,050,557	\$25,607,633	\$5,806,998	\$31,917,803	\$11,343,145	\$305,787,348
D40	Fire Protection	\$2,193,247	\$825,700	\$2,008,225	\$2,042,950	\$597,485	\$3,255,044	\$1,240,344	\$34,622,615
D50	Electrical Utilities	\$21,210,335	\$6,920,200	\$19,802,238	\$14,377,110	\$6,025,908	\$21,215,387	\$9,551,809	\$260,803,088
E	Furnishings & Fixed Equipment	\$7,241,448	\$2,316,100	\$8,328,615	\$5,844,282	\$2,378,322	\$10,307,430	\$4,666,686	\$109,128,707
	Building Value Engineering	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>Building Subtotal</b>	<b>\$138,754,022</b>	<b>\$51,232,400</b>	<b>\$151,271,445</b>	<b>\$146,039,300</b>	<b>\$40,451,328</b>	<b>\$167,611,472</b>	<b>\$79,741,218</b>	<b>\$1,942,057,602</b>
F	Special Construction & Demo	\$7,445,625	\$2,008,200	\$9,936,375	\$7,414,100	\$1,150,000	\$20,673,185	\$2,962,560	\$120,597,204
G	Other Site Construction	\$17,080,054	\$8,426,700	\$14,350,958	\$18,625,642	\$4,759,272	\$7,003,247	\$11,471,383	\$247,999,813
G10	Site Preparation	\$3,116,961	\$1,095,400	\$1,991,873	\$5,704,532	\$1,387,025	\$1,533,100	\$2,012,996	\$56,466,592
G20	Site Improvements	\$8,783,373	\$4,446,300	\$9,290,810	\$8,712,200	\$2,242,366	\$3,726,267	\$7,174,047	\$135,278,501
G30	Mechanical Utilities	\$4,346,370	\$1,509,300	\$1,455,400	\$1,548,710	\$904,977	\$601,120	\$1,619,840	\$36,075,912
G40	Electrical Utilities	\$833,350	\$1,375,700	\$1,612,875	\$2,660,200	\$224,904	\$1,142,760	\$664,500	\$20,178,808
	Other Site Construction	\$0	\$264,700	\$0	\$0	\$0	\$0	\$1,268,597	\$1,627,095
	<b>Subtotal</b>	<b>\$163,279,701</b>	<b>\$61,932,000</b>	<b>\$175,558,778</b>	<b>\$172,079,042</b>	<b>\$46,360,600</b>	<b>\$195,287,904</b>	<b>\$95,443,758</b>	<b>\$2,312,281,714</b>
Z	Mark-Ups	\$41,847,362	\$18,468,600	\$49,815,631	\$47,720,671	\$10,926,931	\$59,558,263	\$26,530,645	\$634,497,253
Z	Insurance	\$4,019,538	\$1,071,300	\$3,910,468	\$2,214,657	\$560,366	\$4,023,086	\$1,958,506	\$52,408,492
Z	Subcontractor Bond	\$0	\$761,200	\$0	\$1,509,994	\$840,549	\$0	\$979,253	\$18,595,929
Z	Design & Pricing Contingency	\$16,327,970	\$6,356,300	\$14,946,558	\$13,766,323	\$3,255,742	\$18,351,399	\$9,544,376	\$219,986,259
Z	General Conditions	\$0	\$6,851,200	\$22,471,465	\$18,493,299	\$3,674,337	\$23,698,563	\$9,152,235	\$185,147,371
Z	Overhead & Profit / GMP Fee	\$18,695,525	\$2,030,200	\$4,451,569	\$5,029,885	\$1,351,778	\$6,129,643	\$2,720,157	\$99,535,931
Z	GMP Contingency	\$2,804,329	\$1,398,400	\$4,035,571	\$6,706,513	\$1,244,159	\$7,355,572	\$2,176,118	\$58,823,271
	<b>Construction Subtotal</b>	<b>\$205,127,063</b>	<b>\$80,400,600</b>	<b>\$225,374,409</b>	<b>\$219,799,713</b>	<b>\$57,287,531</b>	<b>\$254,846,167</b>	<b>\$121,974,403</b>	<b>\$2,946,778,967</b>
	Project Scope Adjustments	\$5,364,960	\$0	\$0	\$0	\$0	\$0	\$0	\$26,615,232
Z	Escalation to Construction Mid-Point	\$7,347,587	\$3,553,300	\$11,273,198	\$15,487,114	\$2,297,501	\$15,598,689	\$3,817,750	\$144,874,949
	<b>Total Construction Cost</b>	<b>\$217,839,610</b>	<b>\$83,953,900</b>	<b>\$236,647,607</b>	<b>\$235,286,827</b>	<b>\$59,585,032</b>	<b>\$270,444,856</b>	<b>\$125,792,153</b>	<b>\$3,118,269,148</b>
	<b>Cost per Square Foot</b>	<b>\$435</b>	<b>\$428</b>	<b>\$532</b>	<b>\$576</b>	<b>\$485</b>	<b>\$434</b>	<b>\$524</b>	
	Bid Alternates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$16,542,456
	CM Pre-Construction Services	\$270,000	\$100,000	\$446,582	\$500,000	\$200,000	\$800,000	\$450,000	\$7,132,780
	Construction Contingency	\$6,321,740	\$2,520,000	\$14,200,000	\$7,075,741	\$2,103,058	\$18,930,780	\$6,319,608	\$144,324,657
	Designer	\$22,095,355	\$8,803,000	\$22,731,000	\$25,010,919	\$6,120,000	\$28,656,356	\$13,620,320	\$324,241,955
	OPM & other Professional services	\$7,485,500	\$3,309,430	\$7,746,000	\$7,837,328	\$2,095,000	\$9,488,726	\$5,022,725	\$115,944,773
	FF&E/IT	\$6,168,000	\$3,298,090	\$7,088,000	\$8,073,000	\$1,497,000	\$10,934,775	\$4,500,000	\$101,068,155
	Legal Fees	\$20,000	\$20,000	\$100,000	\$100,000	\$20,000	\$0	\$25,000	\$1,046,000
	Other Soft Costs	\$1,150,000	\$485,580	\$4,200,000	\$4,198,198	\$400,000	\$2,090,912	\$805,000	\$34,038,494
	Owner's Contingency	\$2,143,920	\$1,260,000	\$2,000,000	\$2,769,807	\$701,019	\$2,052,815	\$6,465,194	\$35,677,874
	<b>Total Project Budget ***</b>	<b>\$263,494,125</b>	<b>\$103,750,000</b>	<b>\$295,159,189</b>	<b>\$290,851,820</b>	<b>\$72,721,109</b>	<b>\$343,399,220</b>	<b>\$163,000,000</b>	<b>\$3,898,286,292</b>
	Bid Alternates	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$11,997,495
	Ineligible Costs & Contingency	\$2,636,613	\$840,922	\$9,467,048	\$4,722,873	\$1,507,208	\$13,521,883	\$5,061,686	\$102,106,584
	Scope Exclusions	\$47,832,759	\$18,647,856	\$87,237,872	\$113,056,080	\$18,533,959	\$59,875,030	\$46,568,450	\$968,888,880
	<b>Basis for Total Facilities Grant</b>	<b>\$213,024,753</b>	<b>\$84,261,222</b>	<b>\$198,454,269</b>	<b>\$173,072,867</b>	<b>\$52,679,942</b>	<b>\$270,002,307</b>	<b>\$111,369,864</b>	<b>\$2,815,293,333</b>
	Reimbursement Rate	80.00%	63.24%	40.66%	49.72%	59.44%	80.00%	48.95%	
	<b>Maximum Facilities Grant</b>	<b>\$170,419,802</b>	<b>\$53,286,797</b>	<b>\$80,691,505</b>	<b>\$86,051,829</b>	<b>\$31,312,958</b>	<b>\$216,001,846</b>	<b>\$54,515,548</b>	<b>\$1,767,373,571</b>

8 - Fall River Durfee BMC HS - The Maximum Facilities Grant reflects the recovery of \$671,665.  
 9 - Belmont HS - The Maximum Facilities Grant reflects the recovery of \$47,227.  
 10 - Arlington HS - The Maximum Facilities Grant reflects the recovery of \$32,184.  
 11 - Wahconah Regional HS - The Maximum Facilities Grant reflects the recovery of \$1,431.  
 12 - Lowell HS - The Maximum Facilities Grant reflects the recovery of \$9,440.  
 13 - Sharon HS - The Maximum Facilities Grant reflects the recovery of \$692,543