

Information as of:

Estimated Construction & Total Project Cost Data at Schematic Design **[ON OR AFTER JANUARY 1, 2014]**
Elementary School

August 2020
Board Meeting

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	Nov-12	Mar-13	Jul-13	Oct-13	Oct-13	Jan-14	Mar-14	Mar-14	Jan-15	
District	South Hadley	Revere	Whitman-Hanson	Athol-Royalston	Newton	Gloucester	Milford ¹	Northborough	Worcester	
School Name	Plains ES	Staff Sergeant James J. Hill ES	Maquan ES	Riverbend ES	Angier ES	West Parish	Woodland ES	Lincoln Street ES	Nelson Place ES	
Construction Type	New	New	New	New	New	New	New	Add/Reno	New	
Enrollment	270	690	800	545	465	355	985	270	600	
GSF	63,377	103,650	132,841	95,726	74,960	65,679	132,539	52,920	111,256	
Assumed Start of Construction	Mar-14	Jan-14	Sep-15	Nov-14	Jun-14	Jun-14	Jan-15	Apr-15	Jul-15	
OPM	Arcadis	Hill International	Knight, Bagge & Associates, Inc.	Symmes Maini & McKee Associates	Joslin, Lesser & Associates, Inc.	Knight, Bagge & Anderson, Inc.	Joslin, Lesser & Associates, Inc.	Strategic Building Solutions	Tishman Construction	
Designer	Margo Jones Architects, Inc	Drumrey Rosane Anderson, Inc.	Turowski2 Architecture, Inc.	Mount Vernon Group Architects	DiNisco Design Partnership	Dore & Whittier Architects, Inc.	HMFH Architects	Lamoureux Pagano & Associates, Inc.	Lamoureux Pagano & Associates, Inc.	
Cost Estimator	PM&C	Cost Pro	PM&C	Tarbell Construction	A.M. Fogarty	PM&C	PM&C	AM Fogarty	AM Fogarty	
Division	Description of Work									
Total Costs										
A	Substructure	\$1,046,531	\$3,019,856	\$2,392,456	\$1,280,000	\$739,962	\$2,265,570	\$1,591,121	\$343,700	\$2,451,078
B	Shell	\$5,726,957	\$8,728,482	\$10,317,754	\$8,016,000	\$6,434,732	\$7,066,238	\$10,174,385	\$2,476,600	\$9,012,695
B10	Superstructure	\$1,705,479	\$3,366,282	\$4,092,441	\$2,753,000	\$1,363,387	\$2,143,916	\$4,129,417	\$547,500	\$3,474,422
B20	Exterior Enclosure	\$2,577,253	\$4,468,123	\$4,530,871	\$3,839,000	\$4,282,400	\$3,775,080	\$5,282,337	\$1,282,500	\$3,943,520
B2010	Exterior Walls	\$1,000,000	\$2,749,415	\$3,395,637	-	\$2,158,242	\$2,813,826	\$3,008,068	\$763,300	\$2,483,043
B2020	Exterior Windows	\$1,000,000	\$1,679,028	\$1,005,389	-	\$1,049,069	\$893,595	\$2,165,809	\$409,200	\$1,352,472
B2030	Exterior Doors	\$577,253	\$39,680	\$129,845	-	\$73,459	\$67,659	\$108,460	\$110,000	\$108,005
B30	Roofing	\$1,444,225	\$894,077	\$1,694,442	\$1,424,000	\$788,945	\$1,147,242	\$762,631	\$646,600	\$1,594,753
C	Interiors	\$2,516,455	\$4,306,789	\$5,369,820	\$4,192,000	\$3,500,974	\$3,713,390	\$6,888,103	\$2,586,600	\$6,227,454
D	Services	\$4,532,413	\$7,368,067	\$10,031,882	\$7,613,359	\$6,082,880	\$5,546,674	\$11,702,627	\$4,440,600	\$9,532,738
D10	Conveying	\$116,500	\$113,000	\$91,800	\$81,000	\$120,000	\$103,000	\$113,000	\$22,500	\$223,720
D20	Plumbing	\$541,380	\$1,160,665	\$1,379,000	\$910,000	\$858,268	\$833,502	\$1,385,883	\$564,600	\$1,347,730
D30	HVAC	\$2,171,337	\$3,247,892	\$4,824,600	\$3,704,359	\$2,651,875	\$2,469,328	\$5,991,050	\$1,952,300	\$4,032,588
D40	Fire Protection	\$259,465	\$429,655	\$485,707	\$471,000	\$306,931	\$271,276	\$595,335	\$226,500	\$446,800
D50	Electrical Utilities	\$1,443,731	\$2,416,855	\$3,250,775	\$2,447,000	\$2,145,806	\$1,869,568	\$3,617,359	\$1,674,700	\$3,481,900
E	Furnishings & Fixed Equipment	\$841,925	\$886,774	\$1,403,185	\$1,059,000	\$1,552,469	\$1,068,930	\$1,497,209	\$879,400	\$2,279,599
	Building Value Engineering									
	Building Subtotal	\$14,664,281	\$24,309,968	\$29,515,097	\$22,160,359	\$18,311,017	\$19,660,802	\$31,853,445	\$10,744,900	\$29,503,564
F	Special Construction & Demo	\$676,000		\$2,227,000		\$909,863	\$796,000	\$888,884	\$701,700	\$1,066,510
G	Other Site Construction	\$2,143,874	\$2,633,282	\$4,152,913	\$5,058,000	\$1,980,695	\$2,607,230	\$5,205,236	\$2,254,100	\$5,202,096
G10	Site Preparation	\$329,447	\$421,476	\$880,065	\$1,663,000	\$363,653	\$405,803	\$939,269	\$430,100	\$1,574,851
G20	Site Improvements	\$926,333	\$1,269,525	\$2,132,646	\$2,079,000	\$889,136	\$1,589,432	\$2,796,679	\$1,295,400	\$2,382,009
G30	Mechanical Utilities	\$623,424	\$748,771	\$822,602	\$821,000	\$452,029	\$347,345	\$1,075,419	\$365,000	\$982,853
G40	Electrical Utilities	\$264,670	\$193,510	\$317,600	\$495,000	\$275,877	\$264,650	\$393,869	\$163,600	\$262,383
	Other Site Construction						\$0			
	Subtotal	\$17,484,155	\$26,943,250	\$35,895,010	\$27,218,359	\$21,201,575	\$23,064,032	\$37,947,565	\$13,700,700	\$35,772,170
Z	Mark-Ups	\$3,642,562	\$5,877,086	\$7,834,086	\$6,586,614	\$4,394,142	\$6,394,042	\$8,916,376	\$3,713,000	\$9,378,942
Z	Insurance	\$174,842	\$369,012	\$394,845		\$229,585	\$288,300	\$507,314		\$313,797
Z	Subcontractor Bond	\$113,647	\$191,886	\$296,134	\$440,987	\$149,916	\$345,896	\$149,916	\$259,100	\$395,384
Z	Design & Pricing Contingency	\$1,780,499	\$3,008,188	\$3,589,501	\$3,072,813	\$1,674,341	\$2,726,861	\$3,415,281	\$1,485,000	\$2,995,036
Z	General Conditions	\$1,049,049	\$1,500,000	\$2,369,071	\$2,177,751	\$1,768,965	\$2,075,763	\$3,083,803	\$1,512,800	\$2,310,000
Z	Overhead & Profit / GMP Fee	\$524,525	\$808,000	\$1,184,535	\$895,063	\$540,000	\$691,921	\$900,000	\$456,100	\$2,166,711
Z	CM@Risk Contingency						\$461,281	\$664,082		\$1,198,014
	Construction Subtotal	\$21,126,717	\$32,820,336	\$43,729,096	\$33,804,973	\$25,595,717	\$29,458,074	\$46,863,941	\$17,413,700	\$45,151,112
Z	Project Scope Adjustments									
Z	Escalation to Construction Mid-Point	\$437,104	\$1,077,000	\$1,967,809	\$1,386,390	\$635,981	\$537,392	\$1,517,903	\$810,900	\$1,395,188
	Total Construction Cost	\$21,563,821	\$33,897,336	\$45,696,905	\$35,191,363	\$26,231,698	\$29,995,466	\$48,381,844	\$18,224,600	\$46,546,300
	Cost per Square Foot	\$340	\$327	\$344	\$368	\$350	\$457	\$365	\$344	\$418
	Bid Alternates			\$1,040,446		\$3,948,259				
	CM Preconstruction Services					\$123,600	\$175,000	\$140,000		\$151,000
	Construction Contingency	\$1,617,287	\$1,695,000	\$2,284,845	\$1,800,000	\$1,311,474	\$1,500,000	\$2,298,138	\$1,458,000	\$1,500,000
	Designer	\$2,520,000	\$3,658,000	\$5,350,185	\$3,471,000	\$2,992,567	\$3,749,120	\$5,208,677	\$2,340,500	\$5,081,128
	OPM & other Professional services	\$1,006,729	\$1,267,400	\$1,619,545	\$1,324,000	\$1,111,192	\$1,218,842	\$1,712,274	\$930,803	\$1,915,872
	FF&E/IT	\$748,000	\$1,656,000	\$1,920,000	\$1,600,000	\$1,116,000	\$852,000	\$2,364,000	\$648,000	\$1,620,000
	Legal Fees		\$35,000	\$50,000	\$25,000				\$15,000	
	Other Soft Costs	\$80,000	\$2,053,660	\$375,000	\$270,000	\$305,000	\$1,645,000	\$415,000	\$1,306,550	\$560,450
	Owner's Contingency	\$647,964	\$120,000	\$100,000	\$250,000	\$360,210	\$438,683	\$380,067	\$546,700	\$842,000
	Total Project Budget ****	\$28,183,801	\$44,382,396	\$58,436,926	\$43,931,363	\$37,500,000	\$39,574,111	\$60,900,000	\$25,470,153	\$58,216,750
	Bid Alternates					\$3,948,259	\$0			
	Ineligible Costs & Contingency			\$794,473			\$1,200,045	\$1,814,320	\$1,093,508	\$1,034,537
	Scope Exclusions	\$3,787,407	\$7,443,586	\$8,013,140	\$9,366,838	\$4,849,900	\$12,970,025	\$10,925,323	\$4,695,465	\$13,727,859
	Basis for Total Facilities Grant Reimbursement Rate	\$24,396,394	\$36,938,810	\$49,629,313	\$34,564,525	\$28,701,841	\$25,404,041	\$48,160,357	\$19,681,180	\$43,454,354
		62.69%	80.00%	59.17%	80.00%	40.10%	59.73%	59.94%	52.88%	80.00%
	Maximum Facilities Grant	\$15,294,099	\$29,551,048	\$29,365,665	\$27,651,620	\$11,509,438	\$15,173,834	\$28,082,547	\$10,407,408	\$34,763,483

1 - Milford Woodland ES - The Maximum Facilities Grant includes cost recovery of \$784,771 in state funds.
**** Total Project Budget Value includes the cost of Alternates.

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Date Board Approved	Mar-15	Jun-15	Aug-15	Sep-15	Nov-15	Nov-15	Jan-16	Mar-16	Jul-16	
District	Woburn	Brookline ²	New Bedford	Hopkinton	Carver	Narragansett	Granby	Dedham	Hanover ³	
School Name	Wyman-Hurid ES	Edward Devotion School	John Hannigan ES	Early Elementary School	Carver ES	Templeton Center ES	West Street ES	Early Childhood Education Center	Sylvester ES (2-4)	
Construction Type	New	Add/Reno	New	New	New	New	Add/Reno	New	Add/Reno	
Enrollment	410	1,010	400	395	750	580	430	200	560	
GSF	70,701	227,087	74,056	83,256	112,278	92,735	68,760	50,988	97,099	
Assumed Start of Construction	Jul-16	Jun-16	Jul-16	Aug-16	Sep-16	Oct-16	Feb-17	May-17	Jun-17	
OPM	Municipal Building Consultants, Inc.	Town Employee	Daedalus Projects, Inc.	Compass Project Management	PMA Construction Services	Strategic Building Solutions, LLC	Colliers International	CMS, Inc.	P-Three, Inc.	
Designer	DiNisco Design Partnership	HMFH	Turowski2 Architecture, Inc.	Drummeay Rosane Anderson, Inc.	HMFH Architects, Inc.	SMMA	Jones Whitsett Architects, Inc.	Knight, Bagge & Anderson, Inc.	Mount Vernon Group Architects, Inc.	
Cost Estimator	Cost Pro	AM Fogarty	Project Mgmt & Cost	PM&C	PM&C	PM&C	PM&C	Atlantic Construction & Management, Inc.	North Bay Company, Inc.	
Division	Description of Work									
Total Costs										
A	Substructure	\$888,881	\$5,006,137	\$1,153,407	\$1,439,223	\$1,919,157	\$1,555,000	\$1,016,000	\$1,588,492	\$821,629
B	Shell	\$6,699,193	\$18,626,271	\$7,866,051	\$7,580,094	\$8,993,499	\$8,828,000	\$4,507,000	\$4,762,144	\$4,835,183
B10	Superstructure	\$2,371,245	\$7,799,768	\$2,760,205	\$2,536,510	\$3,240,141	\$2,871,000	\$1,179,000	\$1,271,322	\$1,330,033
B20	Exterior Enclosure	\$3,660,337	\$8,380,314	\$3,739,412	\$3,841,340	\$4,384,654	\$4,892,000	\$2,241,000	\$1,921,734	\$1,902,799
B2010	Exterior Walls	\$2,521,339	\$4,608,983	\$0	\$2,183,677	\$3,013,129	\$3,325,000	\$1,549,000	\$1,921,734	\$972,627
B2020	Exterior Windows	\$1,101,466	\$3,609,946	\$0	\$1,632,515	\$1,254,560	\$1,499,000	\$578,000		
B2030	Exterior Doors	\$37,532	\$161,385	\$0	\$25,148	\$116,965	\$68,000	\$114,000		
B30	Roofing	\$667,611	\$2,446,189	\$1,366,434	\$1,202,244	\$1,368,704	\$1,065,000	\$1,087,000	\$1,569,088	\$1,602,351
C	Interiors	\$3,943,755	\$13,217,513	\$3,536,210	\$4,894,994	\$5,543,110	\$4,953,000	\$3,242,000	\$2,889,091	\$3,343,363
D	Services	\$5,818,582	\$19,195,010	\$6,538,702	\$7,435,950	\$8,824,725	\$8,143,000	\$6,743,000	\$3,551,798	\$7,667,670
D10	Conveying	\$139,432	\$368,000	\$138,000	\$103,000	\$93,000	\$147,000	\$0	-\$856,000	\$143,085
D20	Plumbing	\$801,520	\$2,520,601	\$948,658	\$1,144,413	\$1,195,753	\$1,111,000	\$973,000	\$681,381	\$762,655
D30	HVAC	\$2,685,224	\$9,375,229	\$2,847,476	\$2,829,514	\$3,618,612	\$3,582,000	\$3,022,000	\$1,823,092	\$3,344,960
D40	Fire Protection	\$321,690	\$1,145,669	\$313,420	\$400,465	\$625,980	\$468,000	\$571,000	\$231,000	\$292,847
D50	Electrical Utilities	\$1,870,716	\$5,785,511	\$2,291,148	\$2,958,558	\$3,291,380	\$2,835,000	\$2,177,000	\$1,672,325	\$3,124,123
E	Furnishings & Fixed Equipment	\$901,375	\$1,865,164	\$1,442,251	\$514,423	\$1,211,340	\$1,409,000	\$1,062,000	\$1,222,400	\$1,010,269
	Building Value Engineering								\$519,545	
	Building Subtotal	\$18,251,786	\$57,910,095	\$20,536,621	\$21,864,684	\$26,491,831	\$24,888,000	\$16,570,000	\$13,433,470	\$17,678,114
F	Special Construction & Demo		\$2,923,808	\$659,525		\$1,560,596	\$209,000	\$701,000	\$720,948	\$762,379
G	Other Site Construction	\$3,163,898	\$5,247,928	\$1,904,373	\$3,859,795	\$2,699,879	\$2,876,000	\$3,129,000	\$3,674,732	\$2,240,677
G10	Site Preparation	\$568,749	\$1,061,645	\$218,250	\$454,676	\$562,950	\$512,000	\$311,000	\$787,297	\$254,429
G20	Site Improvements	\$2,045,841	\$3,211,097	\$1,047,034	\$2,099,046	\$1,061,903	\$1,384,000	\$1,495,000	\$2,046,048	\$1,362,811
G30	Mechanical Utilities	\$443,388	\$671,911	\$316,989	\$921,523	\$969,526	\$747,000	\$1,003,000	-\$300,000	\$482,919
G40	Electrical Utilities	\$105,920	\$303,275	\$322,100	\$384,550	\$105,500	\$233,000	\$320,000	\$1,141,387	\$140,518
	Other Site Construction		\$0	\$0	\$0	\$0	\$350,000	\$0	\$0	\$0
	Subtotal	\$21,415,684	\$66,081,831	\$23,100,519	\$25,724,479	\$30,752,306	\$28,323,000	\$20,400,000	\$17,829,150	\$20,681,170
Z	Mark-Ups	\$3,836,995	\$21,865,890	\$5,994,446	\$7,873,034	\$7,768,579	\$5,042,000	\$7,197,000	\$4,136,363	\$4,555,422
Z	Insurance		\$1,456,458	\$326,297	\$744,237	\$417,001	\$334,000	\$0	\$267,437	
Z	Subcontractor Bond		\$261,038	\$0	\$0	\$347,501	\$338,000	\$400,000	\$392,241	
Z	Design & Pricing Contingency	\$1,761,815	\$7,800,241	\$2,310,067	\$2,572,448	\$3,075,231	\$2,832,000	\$2,195,000	\$1,782,915	\$1,606,555
Z	General Conditions	\$2,075,180	\$8,561,627	\$1,950,000	\$3,236,808	\$2,780,008	\$2,759,000	\$1,755,000	\$1,248,041	\$2,088,345
Z	Overhead & Profit / GMP Fee	\$1,902,498	\$643,112	\$1,147,044	\$643,112	\$1,148,838	\$934,000	\$692,000	\$445,729	\$860,522
Z	CM@Risk Contingency		\$2,145,066	\$676,429	\$0	\$0	\$0	\$0	\$0	\$0
	Construction Subtotal	\$25,252,679	\$87,947,721	\$29,094,965	\$33,597,513	\$38,520,885	\$35,520,000	\$25,442,000	\$21,965,513	\$25,236,592
Z	Project Scope Adjustments									
Z	Escalation to Construction Mid-Point	\$1,032,835	\$4,290,133	\$697,767	\$1,543,469	\$922,569	\$1,002,000	\$1,011,000	\$1,248,040	\$839,080
	Total Construction Cost	\$26,285,514	\$92,237,854	\$29,792,732	\$35,140,982	\$39,443,454	\$36,522,000	\$26,453,000	\$23,213,553	\$26,075,672
	Cost per Square Foot	\$372	\$406	\$402	\$422	\$351	\$394	\$385	\$455	\$269
	Bid Alternates		\$0	\$0	\$1,983,313	\$0	\$0	\$0	\$0	\$0
	CM Preconstruction Services		\$300,000	\$0	\$100,000	\$0	\$0	\$0	\$0	\$0
	Construction Contingency	\$1,314,276	\$5,691,859	\$1,117,227	\$1,528,633	\$1,972,173	\$1,831,390	\$1,322,650	\$1,160,678	\$1,049,427
	Designer	\$3,095,887	\$11,138,797	\$3,440,738	\$3,926,412	\$4,587,443	\$4,530,226	\$3,077,000	\$3,119,800	\$2,821,662
	OPM & other Professional services	\$1,075,599	\$3,480,000	\$932,500	\$1,404,576	\$1,732,408	\$1,478,568	\$1,300,000	\$1,081,220	\$1,055,400
	FF&E/IT	\$1,077,000	\$3,535,000	\$960,000	\$1,090,678	\$1,800,000	\$2,113,000	\$1,032,000	\$662,000	\$1,344,000
	Legal Fees	\$25,000	\$100,000	\$0	\$15,000	\$20,000	\$20,000	\$20,000	\$30,000	\$0
	Other Soft Costs	\$340,000	\$2,706,000	\$429,000	\$2,111,000	\$155,000	\$368,000	\$343,000	\$220,000	\$50,000
	Owner's Contingency	\$492,120	\$960,490	\$75,000	\$312,092	\$259,794	\$700,000	\$661,325	\$276,151	\$50,000
	Total Project Budget ****	\$33,705,396	\$120,150,000	\$36,747,197	\$45,629,373	\$51,953,585	\$47,563,184	\$34,208,975	\$29,763,402	\$32,446,161
	Bid Alternates		\$0	\$0	\$1,983,313	\$0	\$0	\$0	\$0	\$0
	Ineligible Costs & Contingency	\$1,051,421	\$3,847,102	\$819,300	\$1,177,223	\$1,577,738	\$1,466,170	\$793,590	\$928,542	\$527,914
	Scope Exclusions	\$6,370,769	\$45,722,479	\$7,519,670	\$12,860,116	\$6,313,712	\$9,765,376	\$5,716,963	\$7,844,433	\$1,803,255
	Basis for Total Facilities Grant Reimbursement Rate	\$26,283,206	\$70,580,419	\$28,408,227	\$31,592,034	\$42,078,822	\$36,331,638	\$27,698,422	\$20,990,427	\$30,114,992
	Maximum Facilities Grant	\$14,387,427	\$27,032,300	\$22,726,582	\$14,058,455	\$25,024,275	\$22,928,897	\$17,624,506	\$10,774,386	\$16,168,657

2 - Brookline - Cost recovery amount of \$47,039 not deducted from Maximum Facilities Grant.
 3 - Hanover Sylvester ES - The Maximum Facilities Grant includes cost recovery of \$3,094 in state funds.
 **** Total Project Budget Value includes the cost of Alternates.

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Date Board Approved	Jul-16	Sep-16	Nov-16	Nov-16	May-17	Aug-17	Aug-17	Feb-18	Feb-18	
District	Needham	Amherst ⁴	Bourne	Newton	Millis	Clarksburg	Lexington	Taunton	Tisbury	
School Name	Hillside ES (K-5)	Wildwood ES	Peebles ES	Cabot ES	Clyde Brown ES	Clarksburg ES	Maria Hastings ES	James L. Mulcahey ES	Tisbury ES	
Construction Type	New	New	New	Add/Reno	New	Add/Reno	New	New	New	
Enrollment	430	750	460	480	515	150	645	735	285	
GSF	90,702	122,272	72,680	84,262	89,852	38,132	110,000	119,693	75,390	
Assumed Start of Construction	Jun-18	Oct-17	Nov-17	Jul-17	Feb-18	Jun-18	Jun-18	Jan-19	May-19	
OPM	Town Employee	JLA / NV5	SMMA	Joslin, Lesser & Associates, Inc.	Compass Project Management, Inc.	PCA360	Dore & Whittier Management Partners, LLC	Dore & Whittier Management Partners, LLC	Daedalus Projects, Inc.	
Designer	Dore + Whittier Architects, Inc.	JCJ Architecture	Flansburgh Associates, Inc.	DiNisco Design Partnership	Tappe Associates, Inc.	Jones Whitsett Architects, Inc.	DiNisco Design Partnership, Ltd.	DiNisco Design Partnership, Ltd.	Turowski2 Architecture, Inc.	
Cost Estimator	Daedalus Projects, inc.	AM Fogarty	PM&C	A.M. Fogarty	A.M. Fogarty	PM&C	A.M. Fogarty	PM&C	PM&C	
Division	Description of Work		Total Costs							
A	Substructure	\$2,061,284	\$2,919,858	\$1,402,824	\$1,570,341	\$2,259,963	\$496,623	\$1,555,509	\$2,921,419	\$1,684,650
B	Shell	\$10,879,109	\$12,353,198	\$7,285,296	\$8,266,946	\$8,128,091	\$2,376,531	\$9,941,727	\$11,408,072	\$8,564,814
	B10 Superstructure	\$3,389,580	\$4,285,104	\$2,185,854	\$2,315,640	\$2,987,640	\$444,113	\$3,811,128	\$4,079,941	\$2,970,889
	B20 Exterior Enclosure	\$4,830,195	\$6,106,169	\$3,808,478	\$4,659,273	\$3,163,763	\$1,339,304	\$5,188,855	\$5,202,951	\$4,339,581
	B2010 Exterior Walls	\$2,780,753	\$4,494,210	\$2,920,039	\$2,975,035	\$2,070,362	\$814,057	\$3,707,732	\$5,202,951	\$4,339,581
	B2020 Exterior Windows	\$1,956,237	\$1,468,053	\$807,041	\$1,522,570	\$975,451	\$467,542	\$1,352,771	\$0	\$0
	B2030 Exterior Doors	\$93,205	\$143,906	\$81,398	\$117,950	\$57,705	\$128,352	\$0	\$0	\$0
	B30 Roofing	\$2,659,334	\$1,961,925	\$1,290,964	\$1,292,033	\$1,976,688	\$593,114	\$941,744	\$2,125,180	\$1,254,344
C	Interiors	\$5,718,816	\$5,687,423	\$3,400,359	\$5,244,398	\$5,445,897	\$1,615,943	\$6,600,680	\$7,638,951	\$4,368,496
D	Services	\$8,649,441	\$11,042,665	\$6,499,599	\$7,889,913	\$7,961,258	\$3,825,452	\$10,435,050	\$10,221,850	\$6,817,093
	D10 Conveying	\$138,000	\$115,860	\$100,000	\$172,500	\$109,860	\$155,875	\$181,037	\$153,000	\$138,500
	D20 Plumbing	\$1,168,311	\$1,595,158	\$868,831	\$943,426	\$1,255,100	\$569,101	\$1,554,034	\$1,611,050	\$1,000,833
	D30 HVAC	\$4,046,974	\$4,750,649	\$2,769,544	\$3,779,394	\$3,510,221	\$1,709,796	\$4,862,536	\$4,184,439	\$2,839,257
	D40 Fire Protection	\$408,159	\$507,590	\$265,275	\$546,308	\$404,334	\$244,176	\$472,435	\$614,340	\$453,310
	D50 Electrical Utilities	\$2,887,997	\$4,073,408	\$2,495,949	\$2,448,285	\$2,681,743	\$1,146,504	\$3,365,008	\$3,659,021	\$2,385,193
E	Furnishings & Fixed Equipment	\$1,592,010	\$1,663,161	\$646,217	\$1,420,384	\$1,439,609	\$625,282	\$1,531,239	\$1,937,350	\$1,139,573
	Building Value Engineering			\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Building Subtotal	\$28,900,660	\$33,666,305	\$19,234,295	\$24,391,982	\$25,234,818	\$8,939,831	\$30,064,205	\$34,127,642	\$22,574,626
F	Special Construction & Demo	\$765,179	\$1,292,000	\$1,129,600	\$991,330	\$1,062,765	\$1,152,153	\$772,817	\$1,331,060	\$944,296
G	Other Site Construction	\$4,136,276	\$5,385,915	\$3,790,300	\$3,063,260	\$6,324,885	\$1,181,406	\$8,745,907	\$4,232,839	\$3,781,547
	G10 Site Preparation	\$432,714	\$1,193,447	\$811,307	\$746,561	\$1,650,973	\$182,680	\$1,598,934	\$485,848	\$487,537
	G20 Site Improvements	\$2,389,847	\$2,663,982	\$1,745,604	\$1,607,540	\$2,611,808	\$517,495	\$3,574,694	\$1,534,926	\$2,055,640
	G30 Mechanical Utilities	\$966,020	\$1,174,586	\$995,490	\$390,885	\$1,189,956	\$235,280	\$3,006,382	\$1,798,915	\$924,900
	G40 Electrical Utilities	\$347,695	\$353,900	\$237,899	\$318,274	\$872,148	\$245,951	\$565,897	\$413,150	\$313,470
	Other Site Construction			\$0	\$0	\$0	\$0	\$0	\$0	\$314,342
	Subtotal	\$33,802,115	\$40,344,220	\$24,154,195	\$28,446,572	\$32,622,468	\$11,273,390	\$39,582,929	\$39,691,541	\$27,614,811
Z	Mark-Ups	\$8,172,800	\$12,034,089	\$5,714,961	\$6,770,614	\$9,241,755	\$2,722,598	\$11,629,207	\$8,993,460	\$8,530,372
Z	Insurance	\$504,230		\$318,283		\$316,889		\$145,070	\$564,860	\$396,710
Z	Subcontractor Bond	\$403,383	\$564,819	\$345,961	\$279,793	\$370,637	\$132,403	\$1,123,674	\$564,860	\$384,973
Z	Design & Pricing Contingency	\$3,349,807	\$4,034,423	\$2,421,419	\$2,035,859	\$2,936,022	\$1,129,738	\$3,166,634	\$4,108,075	\$2,730,047
Z	General Conditions	\$2,600,000	\$5,374,978	\$1,937,378	\$2,874,330	\$3,769,376	\$931,779	\$5,017,718	\$2,400,000	\$3,926,840
Z	Overhead & Profit / GMP Fee	\$1,315,380	\$1,161,000	\$691,920	\$680,000	\$1,038,814	\$383,608	\$1,038,694	\$1,355,665	\$1,111,802
Z	CM@Risk Contingency		\$898,869		\$583,743	\$800,065	\$0	\$1,282,487		\$0
	Construction Subtotal	\$41,974,915	\$52,378,309	\$29,869,156	\$35,217,186	\$41,864,223	\$13,995,988	\$51,212,136	\$48,685,001	\$36,145,183
Z	Project Scope Adjustments									
Z	Escalation to Construction Mid-Point	\$3,490,499	\$1,573,022	\$1,041,210	\$1,033,590	\$727,170	\$324,690	\$1,761,282	\$1,389,204	\$1,706,279
	Total Construction Cost	\$45,465,414	\$53,951,331	\$30,910,366	\$36,250,776	\$42,591,393	\$14,320,678	\$52,973,418	\$50,074,205	\$37,851,462
	Cost per Square Foot	\$501.26	\$441	\$425	\$430	\$474	\$376	\$482	\$418	\$502
Bid Alternates	\$0	\$0	\$0	\$445,000	\$600,000	\$0	\$0	\$0	\$0	\$0
CM Preconstruction Services	\$0	\$40,000	\$0	\$120,000	\$100,000	\$0	\$170,000	\$0	\$0	\$0
Construction Contingency	\$2,276,000	\$2,700,000	\$1,545,518	\$1,800,000	\$1,703,656	\$1,074,051	\$1,500,000	\$2,500,000	\$1,600,000	\$1,600,000
Designer	\$5,396,000	\$5,687,597	\$3,676,037	\$4,515,000	\$4,612,351	\$1,963,965	\$5,360,000	\$5,585,516	\$4,100,500	\$4,100,500
OPM & other Professional services	\$1,655,000	\$1,988,297	\$1,394,863	\$1,744,000	\$1,756,457	\$874,467	\$2,040,000	\$1,695,182	\$1,341,000	\$1,341,000
FF&E/IT	\$1,075,000	\$1,800,000	\$1,380,000	\$1,410,000	\$1,236,000	\$450,000	\$2,210,000	\$2,832,000	\$1,110,000	\$1,110,000
Legal Fees	\$0	\$0	\$50,000	\$0	\$20,000	\$12,500	\$30,000	\$25,000	\$7,500	\$7,500
Other Soft Costs	\$7,764,000	\$500,000	\$319,000	\$2,355,000	\$346,000	\$115,000	\$556,000	\$400,000	\$257,500	\$257,500
Owner's Contingency	\$2,276,000	\$540,000	\$643,257	\$360,000	\$400,000	\$286,414	\$500,000	\$1,859,928	\$300,000	\$300,000
	Total Project Budget ****	\$65,907,414	\$67,207,225	\$39,919,041	\$48,999,776	\$53,365,857	\$19,097,075	\$65,339,418	\$64,971,831	\$46,567,962
Bid Alternates	\$0	\$0	\$0	\$600,000	\$0	\$0	\$0	\$0	\$0	\$0
Ineligible Costs & Contingency	\$1,821,346	\$2,160,487	\$1,236,414	\$1,074,984	\$1,277,742	\$787,637	\$970,266	\$1,999,258	\$1,221,485	\$1,221,485
Scope Exclusions	\$23,720,648	\$14,536,504	\$7,528,850	\$12,934,888	\$14,079,854	\$1,649,734	\$17,138,811	\$10,043,602	\$12,416,391	\$12,416,391
	Basis for Total Facilities Grant Reimbursement Rate	\$40,365,420	\$50,510,234	\$31,153,777	\$34,989,904	\$37,408,261	\$16,659,704	\$47,230,341	\$52,928,971	\$32,930,086
		34.72%	68.34%	48.63%	40.22%	57.27%	70.62%	35.79%	80.00%	44.28%
	Maximum Facilities Grant	\$14,014,874	\$34,454,412	\$15,150,082	\$14,072,939	\$21,423,711	\$11,765,083	\$16,903,739	\$42,343,177	\$14,581,442

4 - Amherst Wildwood ES - The Maximum Facilities Grant Includes cost recovery of \$64,282 in state funds.

Information as of:

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

Elementary School

August 2020

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.

Board Meeting

Date Board Approved	Feb-18	Apr-18	Apr-18	Apr-18	Jun-18	Aug-18	Aug-18	Aug-18	Aug-18	
District	Ludlow	Marlborough	Ipswich ⁵	Harvard ⁶	Northbridge	Easthampton	Foxborough	Manchester Essex ⁷	Springfield ⁸	
School Name	Chapin Street ES	Richer ES	Winthrop ES	Hildreth ES	W. Edward Balmer ES	Maple ES	Mabelle Burrell ES	Manchester Memorial ES	Brightwood ES	
Construction Type	New	New	New	New	New	New	Add/Reno	New	New	
Enrollment	630	610	775	445	1,030	1,010	270	335	800	
GSF	106,250	111,437	123,535	85,214	167,352	177,370	61,455	77,102	150,500	
Assumed Start of Construction	May-19	Jul-18	Jun-19	Jun-19	Jul-19	Aug-19	Nov-19	Jun-19	Aug-19	
OPM	STV/DPM	Daedalus Projects, Inc.	PMA Consultants	NV5 Global	Symmes Maini & Mckee	Colliers International	Colliers International	Dore and Whittier	Skanska	
Designer	Mount Vernon Group	Mount Vernon Group	Perkins Eastman	Arrowstreet Inc.	Dore & Whittier	Caolo & Bieniek Associates	Kaestle Boos Associates	JCJ Architecture	Dinisco Design	
Cost Estimator	Fennessy Consulting Services	Fennessy Consulting Services	A.M. Fogarty	PM&C	PM&C	A.M. Fogarty	PM&C	VJ Associates	A.M. Fogarty	
Division	Description of Work									
		Total Costs								
A	Substructure	\$3,383,756	\$1,726,416	\$2,090,646	\$2,351,527	\$2,912,698	\$5,665,000	\$954,000	\$2,243,302	\$2,471,000
B	Shell	\$9,173,906	\$10,516,667	\$13,149,644	\$10,404,610	\$16,347,473	\$16,348,000	\$5,617,000	\$8,545,180	\$13,614,700
B10	Superstructure	\$3,936,136	\$4,288,148	\$5,126,486	\$3,889,954	\$5,613,302	\$5,630,000	\$843,000	\$3,176,554	\$5,578,900
B20	Exterior Enclosure	\$3,693,380	\$4,533,265	\$6,359,273	\$4,627,726	\$7,266,145	\$8,220,000	\$3,065,000	\$3,554,555	\$6,488,900
B2010	Exterior Walls	\$2,594,955	\$3,473,140	\$4,608,728	\$3,267,076	\$5,072,972	\$5,868,000	\$2,325,000	\$2,254,320	\$4,429,800
B2020	Exterior Windows	\$1,028,925	\$971,625	\$1,599,775	\$1,291,250	\$2,052,298	\$2,179,000	\$685,000	\$1,136,531	\$1,212,700
B2030	Exterior Doors	\$69,500	\$88,500	\$150,770	\$69,400	\$140,875	\$173,000	\$55,000	\$163,704	\$846,400
B30	Roofing	\$1,544,390	\$1,695,254	\$1,663,885	\$1,886,930	\$3,468,026	\$2,498,000	\$1,709,000	\$1,814,071	\$1,546,900
C	Interiors	\$5,914,927	\$5,853,397	\$7,416,167	\$5,385,922	\$10,442,201	\$12,433,000	\$3,771,000	\$4,914,859	\$10,651,400
D	Services	\$10,177,070	\$10,850,564	\$12,050,120	\$7,366,366	\$15,068,188	\$20,670,000	\$6,011,000	\$7,081,683	\$15,558,800
D10	Conveying	\$131,100	\$131,100	\$306,500	\$95,000	\$132,820	\$326,000	\$124,000	\$354,400	
D20	Plumbing	\$1,571,600	\$1,493,450	\$1,642,021	\$926,051	\$1,941,389	\$3,045,000	\$846,000	\$893,867	\$1,835,900
D30	HVAC	\$4,781,250	\$5,032,350	\$5,575,223	\$3,269,877	\$6,743,029	\$8,965,000	\$2,331,000	\$3,410,209	\$6,755,200
D40	Fire Protection	\$533,950	\$606,187	\$555,085	\$408,439	\$725,972	\$1,029,000	\$322,000	\$333,686	\$640,500
D50	Electrical Utilities	\$3,159,170	\$3,587,477	\$3,971,291	\$2,666,999	\$5,524,978	\$7,305,000	\$2,512,000	\$2,319,921	\$5,972,800
E	Furnishings & Fixed Equipment	\$1,585,038	\$2,084,080	\$1,973,224	\$1,263,441	\$2,420,706	\$2,636,000	\$1,500,000	\$1,184,875	\$1,741,600
	Building Value Engineering									
	Building Subtotal	\$30,234,697	\$31,031,124	\$36,679,801	\$26,771,866	\$47,191,266	\$57,752,000	\$17,853,000	\$23,969,899	\$44,037,500
F	Special Construction & Demo	\$1,047,629	\$0	\$1,143,250	\$1,184,272	\$1,541,660	\$3,189,000	\$870,700	\$1,722,251	
G	Other Site Construction	\$4,084,288	\$4,513,822	\$5,403,517	\$4,750,954	\$9,415,334	\$9,394,000	\$1,871,000	\$4,028,560	\$5,940,700
G10	Site Preparation	\$1,088,044	\$1,918,840	\$566,766	\$903,700	\$2,023,342	\$3,019,000	\$1,391,110	\$945,700	
G20	Site Improvements	\$2,034,819	\$1,646,547	\$2,349,886	\$2,465,089	\$4,639,089	\$3,680,000	\$1,062,000	\$1,410,760	\$3,922,100
G30	Mechanical Utilities	\$696,425	\$640,435	\$1,908,065	\$1,071,965	\$2,032,442	\$2,128,000	\$255,000	\$989,290	\$985,400
G40	Electrical Utilities	\$265,000	\$308,000	\$578,800	\$310,200	\$720,461	\$567,000	\$276,000	\$237,400	\$87,500
	Other Site Construction	\$0	\$2,750,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Subtotal	\$35,366,614	\$38,294,946	\$43,226,568	\$32,707,092	\$58,148,260	\$70,335,000	\$20,594,700	\$29,720,710	\$49,978,200
Z	Mark-Ups	\$7,849,000	\$8,797,000	\$10,008,441	\$9,310,736	\$17,097,947	\$15,095,000	\$5,411,000	\$9,638,151	\$14,131,700
Z	Insurance	\$499,000	\$512,000	\$622,217	\$505,127		\$912,000	\$276,000	\$278,875	\$1,057,200
Z	Subcontractor Bond	\$428,000	\$431,000	\$497,773	\$292,609		\$654,000	\$165,000	\$0	\$0
Z	Design & Pricing Contingency	\$3,540,000	\$3,560,000	\$4,316,080	\$2,853,032	\$6,066,364	\$6,983,000	\$2,030,000	\$3,661,591	\$4,997,800
Z	General Conditions	\$2,214,000	\$3,120,000	\$2,700,000	\$3,758,922	\$5,364,384	\$4,625,000	\$2,174,000	\$4,118,165	\$4,651,900
Z	Overhead & Profit / GMP Fee	\$1,168,000	\$1,174,000	\$1,872,371	\$919,833	\$4,140,383	\$1,921,000	\$766,000	\$890,000	\$1,775,500
Z	CM@Risk Contingency				\$981,213	\$1,526,816			\$689,520	\$1,649,300
	Construction Subtotal	\$43,215,614	\$47,091,946	\$53,235,009	\$42,017,828	\$75,246,207	\$85,430,000	\$26,005,700	\$39,358,861	\$64,109,900
Z	Project Scope Adjustments									
Z	Escalation to Construction Mid-Point	\$2,539,000	\$740,000	\$2,300,470	\$981,213	\$4,246,455	\$4,692,000	\$1,052,000	\$1,783,243	\$2,831,300
	Total Construction Cost	\$45,754,614	\$47,831,946	\$55,535,479	\$42,999,041	\$79,492,662	\$90,122,000	\$27,057,700	\$41,142,104	\$66,941,200
	Cost per Square Foot	\$431	\$429	\$450	\$505	\$475	\$508	\$440	\$534	\$445
	Bid Alternates	\$0	\$0	\$0	\$187,920	\$250,000			\$146,000	\$173,096
	CM Preconstruction Services	\$0	\$0	\$0	\$2,149,952	\$3,974,633	\$2,253,050	\$1,351,450	\$1,645,684	\$2,008,236
	Construction Contingency	\$2,849,699	\$1,650,000	\$2,776,774	\$5,551,443	\$4,674,904	\$8,271,042	\$9,477,200	\$5,273,440	\$7,088,240
	Designer	\$4,886,295	\$3,243,592	\$5,551,443	\$4,674,904	\$8,271,042	\$9,477,200	\$2,979,500	\$5,273,440	\$7,088,240
	OPM & other Professional services	\$1,690,665	\$1,437,000	\$2,881,675	\$1,496,000	\$2,898,004	\$3,247,188	\$1,308,100	\$2,118,276	\$2,395,592
	FF&E/IT	\$1,700,000	\$1,635,000	\$1,860,000	\$1,335,000	\$3,502,000	\$2,424,000	\$960,217	\$876,000	\$2,456,000
	Legal Fees	\$10,000	\$15,000	\$25,000	\$0	\$80,000	\$20,000	\$20,000	\$70,000	\$20,000
	Other Soft Costs	\$332,000	\$168,000	\$350,000	\$325,000	\$910,000	\$488,500	\$390,000	\$550,000	\$450,000
	Owner's Contingency	\$228,148	\$437,800	\$426,348	\$429,990	\$1,589,853	\$1,126,525	\$604,600	\$411,421	\$669,412
	Total Project Budget *****	\$57,451,421	\$56,418,338	\$69,406,719	\$53,597,807	\$100,968,194	\$109,158,463	\$34,671,567	\$52,232,925	\$82,201,776
	Bid Alternates									
	Ineligible Costs & Contingency	\$2,392,153	\$1,171,681	\$2,221,419	\$1,719,962	\$3,179,706	\$1,351,830	\$810,296	\$1,234,263	\$1,338,824
	Scope Exclusions	\$9,671,716	\$11,105,800	\$13,366,297	\$14,846,672	\$23,212,964	\$27,501,617	\$6,488,875	\$15,989,213	\$18,087,759
	Basis for Total Facilities Grant Reimbursement Rate	\$45,387,552	\$44,140,857	\$53,819,003	\$37,031,173	\$74,575,524	\$80,305,016	\$27,372,396	\$35,009,449	\$62,775,193
	Maximum Facilities Grant	\$27,945,116	\$29,887,774	\$27,189,360	\$18,767,398	\$47,564,269	\$50,712,618	\$15,331,279	\$12,578,895	\$50,220,154

5 - Ipswich Winthrop ES - The maximum total facilities grant includes a cost recovery of \$57,195 in state funds.
6 - Harvard Hildreth ES - The maximum total facilities grant includes a cost recovery of \$425,985 in state funds.

7 - Manchester Memorial ES - The maximum total facilities grant includes a cost recovery of \$3,782 in state funds.
8 - Springfield Brightwood ES - The maximum total facilities grant includes a cost recovery of \$1,422 in state funds.

Information as of:

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

August 2020
Board Meeting

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Date Board Approved	Oct-18	Dec-18	Dec-18	Feb-19	Feb-19	Feb-19	Aug-19	Aug-19	Aug-19	
District	Shrewsbury ⁹	Danvers	Wareham ¹⁰	Marblehead ¹¹	Tewksbury ¹²	Westborough	Amesbury ¹³	Bridgewater-Raynham ¹⁴	Gardner ¹⁵	
School Name	Beal Early Childhood Center	Ivan G Smith ES	Minot Forest ES	Elbridge Gerry ES	Louise Davy Trahan ES	Annie E. Fales ES	Amesbury ES	Mitchell ES	Waterford Street ES	
Construction Type	New	New	New	New	New	New	New	New	New	
Enrollment	790	465	1,020	450	790	400	425	740	925	
GSF	141,600	82,728	159,989	81,935	139,457	70,242	98,195	132,045	147,120	
Assumed Start of Construction	Nov-19	Jan-20	Feb-20	Apr-20	May-20	Feb-20	Jul-20	May-20	Nov-20	
OPM	PMA Consultants	PMA Consultants	PMA Consultants	Leftfield	CBRE Heery	Vertex	NV5	Daedalus	Colliers International	
Designer	Lamoureux Pagano & Associates, Inc.	Tappe Architects, Inc.	Mount Vernon Group	Raymond Design	Flansburgh Associates	HMFH	Dinisco	Raymond Design	Jones Whitsett Associates	
Cost Estimator	A.M. Fogarty	PM&C	PM&C	VJ Associates	PM&C	Miyakoda Consulting	A.M. Fogarty	Ellana, Inc.	PM&C	
Division	Description of Work									
Total Costs										
A	Substructure	\$3,302,132	\$2,372,076	\$3,143,070	\$1,996,258	\$1,621,984	\$1,884,626	\$1,751,786	\$2,072,139	\$2,221,000
B	Shell	\$13,811,211	\$8,918,082	\$15,351,459	\$8,394,423	\$15,083,205	\$7,173,683	\$9,745,401	\$13,430,773	\$15,116,000
B10	Superstructure	\$4,534,040	\$3,318,151	\$6,576,140	\$3,058,130	\$5,750,643	\$2,704,360	\$3,957,302	\$5,668,820	\$4,924,000
B20	Exterior Enclosure	\$7,084,625	\$4,265,909	\$4,265,909	\$3,491,287	\$6,535,323	\$7,656,396	\$3,012,939	\$4,813,108	\$7,710,000
B2010	Exterior Walls	\$5,566,817	\$2,713,846	\$4,353,066	\$1,841,809	\$4,649,281	\$1,922,018	\$3,404,390	\$0	\$0
B2020	Exterior Windows	\$1,400,740	\$1,435,863	\$2,037,377	\$1,494,078	\$2,779,846	\$1,039,421	\$1,312,996	\$0	\$0
B2030	Exterior Doors	\$117,068	\$116,200	\$144,880	\$155,400	\$227,269	\$51,500	\$95,722	\$0	\$0
B30	Roofing	\$2,192,546	\$1,334,022	\$2,239,996	\$1,845,006	\$1,676,166	\$1,456,384	\$974,991	\$1,857,080	\$2,482,000
C	Interiors	\$8,691,568	\$5,393,298	\$11,129,043	\$5,396,769	\$7,436,523	\$4,342,274	\$6,896,654	\$8,203,966	\$9,406,000
D	Services	\$14,903,495	\$8,289,311	\$14,863,206	\$8,833,040	\$13,653,349	\$12,045,968	\$10,840,994	\$14,149,607	\$14,892,000
D10	Conveying	\$115,037	\$180,000	\$266,500	\$174,000	\$153,000	\$138,000	\$174,000	\$240,000	\$328,000
D20	Plumbing	\$2,307,592	\$1,128,459	\$2,287,845	\$1,392,360	\$2,092,842	\$1,372,393	\$1,625,965	\$2,115,408	\$2,014,000
D30	HVAC	\$5,632,726	\$3,982,238	\$6,680,453	\$3,926,500	\$6,286,195	\$4,899,128	\$4,925,032	\$6,346,224	\$6,552,000
D40	Fire Protection	\$623,040	\$370,275	\$792,425	\$462,380	\$715,143	\$423,427	\$476,381	\$859,385	\$665,000
D50	Electrical Utilities	\$6,225,100	\$2,628,339	\$4,835,983	\$2,877,800	\$4,406,169	\$5,213,020	\$3,639,616	\$4,588,590	\$5,333,000
E	Furnishings & Fixed Equipment	\$2,673,999	\$1,646,509	\$2,284,255	\$1,932,820	\$1,988,007	\$1,988,007	\$1,977,355	\$2,324,138	\$3,092,000
	Building Value Engineering									
	Building Subtotal	\$43,382,405	\$26,619,276	\$46,771,033	\$26,553,310	\$39,783,068	\$27,197,754	\$31,212,190	\$40,180,623	\$44,727,000
F	Special Construction & Demo	\$1,975,000	\$697,500	\$1,392,030	\$1,253,397	\$734,600	\$988,000	\$0	\$1,650,000	\$0
G	Other Site Construction	\$9,502,821	\$3,892,438	\$8,615,912	\$3,979,654	\$13,213,699	\$5,299,835	\$7,834,736	\$7,129,432	\$11,718,000
G10	Site Preparation	\$2,543,513	\$748,429	\$1,928,356	\$1,044,320	\$1,909,485	\$1,345,101	\$1,553,177	\$1,944,000	
G20	Site Improvements	\$4,656,664	\$1,860,369	\$3,328,507	\$2,060,334	\$5,798,213	\$2,838,031	\$4,086,886	\$3,752,880	\$7,041,000
G30	Mechanical Utilities	\$1,702,407	\$979,680	\$2,733,399	\$489,400	\$4,318,901	\$850,180	\$1,447,039	\$1,300,000	\$2,128,000
G40	Electrical Utilities	\$600,237	\$303,960	\$625,650	\$385,600	\$1,187,100	\$266,523	\$906,881	\$523,375	\$605,000
	Other Site Construction			\$500,000	\$0	\$3,528,229	\$0	\$0		
	Subtotal	\$54,860,226	\$31,209,214	\$57,278,975	\$31,786,361	\$57,259,596	\$33,485,589	\$39,046,926	\$48,960,055	\$56,445,000
Z	Mark-Ups	\$16,143,772	\$9,679,109	\$11,046,854	\$9,139,292	\$17,328,230	\$9,968,865	\$12,639,927	\$12,475,000	
Z	Insurance	\$1,564,394	\$952,693	\$605,190	\$548,473	\$1,646,213	\$1,362,815	\$0	\$1,490,803	\$485,000
Z	Subcontractor Bond		\$0	\$605,190	\$0	\$0	\$0	\$825,838	\$477,057	\$920,000
Z	Design & Pricing Contingency	\$5,486,023	\$3,239,516	\$4,744,593	\$3,178,636	\$5,725,960	\$3,249,759	\$3,123,754	\$4,896,005	\$5,644,000
Z	General Conditions	\$5,475,362	\$3,765,387	\$3,240,000	\$3,724,000	\$3,300,000	\$2,901,633	\$3,544,108	\$4,039,204	\$3,865,000
Z	Overhead & Profit / GMP Fee	\$1,808,819	\$1,008,819	\$1,851,881	\$1,052,456	\$4,836,802	\$1,224,664	\$960,332	\$1,736,858	\$1,561,000
Z	CM@Risk Contingency	\$1,810,387	\$712,694	\$0	\$635,727	\$1,819,255	\$1,229,994	\$0	\$0	\$0
	Construction Subtotal	\$71,003,998	\$40,888,323	\$68,325,829	\$40,925,653	\$74,587,826	\$43,454,454	\$47,500,958	\$61,599,982	\$68,920,000
Z	Project Scope Adjustments									
Z	Escalation to Construction Mid-Point	\$3,107,832	\$1,185,950	\$3,740,549	\$2,860,773	\$2,862,980	\$2,172,723	\$1,475,974	\$3,079,999	\$2,017,000
	Total Construction Cost	\$74,111,830	\$42,074,273	\$72,066,378	\$43,786,426	\$77,450,806	\$45,627,177	\$48,976,932	\$64,679,981	\$70,937,000
	Cost per Square Foot	\$523	\$509	\$450	\$534	\$555	\$650	\$499	\$490	\$482
	Bid Alternates	\$0	\$0	\$0	\$0	\$8,402,618	\$0	\$0	\$0	\$0
	CM Preconstruction Services	\$250,000	\$150,000	\$0	\$225,000	\$225,000	\$200,000	\$0	\$0	\$0
	Construction Contingency	\$3,705,591	\$1,682,971	\$3,603,319	\$1,751,457	\$3,675,040	\$2,281,359	\$2,272,346	\$3,250,000	\$3,546,850
	Designer	\$7,784,711	\$4,453,985	\$7,831,637	\$4,864,230	\$8,780,549	\$4,958,800	\$5,309,685	\$6,815,000	\$7,688,700
	OPM & other Professional services	\$2,768,913	\$1,603,210	\$3,654,483	\$2,402,020	\$3,130,066	\$1,685,143	\$1,742,223	\$2,285,000	\$2,599,595
	FF&E/IT	\$1,896,000	\$1,116,000	\$2,448,000	\$1,577,985	\$2,686,000	\$1,218,828	\$1,438,936	\$2,460,000	\$2,500,000
	Legal Fees	\$25,000	\$25,000	\$25,000	\$50,000	\$30,000	\$5,000	\$0	\$35,000	\$20,000
	Other Soft Costs	\$1,490,000	\$150,000	\$275,000	\$645,000	\$670,750	\$450,500	\$375,000	\$585,000	\$493,000
	Owner's Contingency	\$777,229	\$744,561	\$570,365	\$292,649	\$1,855,513	\$456,272	\$398,448	\$490,019	\$1,773,425
	Total Project Budget *****	\$92,809,274	\$52,000,000	\$90,474,182	\$55,594,767	\$98,503,724	\$56,883,079	\$60,513,570	\$80,600,000	\$89,558,570
	Bid Alternates									
	Ineligible Costs & Contingency	\$2,964,473	\$1,262,228	\$2,882,655	\$1,313,593	\$2,900,532	\$1,825,087	\$1,782,577	\$2,603,200	\$2,837,480
	Scope Exclusions	\$27,754,565	\$13,794,639	\$17,425,663	\$17,246,571	\$39,869,920	\$21,524,009	\$17,246,483	\$20,926,539	\$22,594,846
	Basis for Total Facilities Grant Reimbursement Rate	\$62,090,236	\$36,943,133	\$70,165,864	\$37,034,603	\$55,733,272	\$33,533,983	\$41,484,510	\$57,070,261	\$64,126,244
	Maximum Facilities Grant	\$34,062,703	\$20,488,662	\$52,610,365	\$14,280,543	\$32,754,444	\$16,203,620	\$24,467,564	\$33,831,250	\$51,300,995

9 - Shrewsbury Beal ECC - The maximum total facilities grant includes a cost recovery of \$7,022 in state funds.
 10 - Wareham Minot Forest ES - The maximum total facilities grant includes a cost recovery of \$801,126 in state funds.
 11 - Marblehead Elbridge Gerry ES - The maximum total facilities grant includes a cost recovery of \$1,669 in state funds.
 12 - Tewksbury Louise Davy Trahan ES - The maximum total facilities grant includes a cost recovery of \$17,825 in state funds.

13 - Amesbury ES - The maximum total facilities grant includes a cost recovery of \$1,310 in state funds.
 14 - Bridgewater-Raynham Mitchell ES - The maximum total facilities grant includes a cost recovery of \$3,137 in state funds.
 15 - Gardner Waterford St. ES - The maximum total facilities grant includes a cost recovery of \$89,811 in state funds.
 16 - Millbury R.E. Shaw ES - The maximum total facilities grant includes a cost recovery of \$1,167 in state funds.

Information as of:

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

August 2020
Board Meeting

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Date Board Approved	Aug-19	Aug-19	Oct-19	Oct-19	Oct-19	Apr-20	Jun-20		
District	Millbury ¹⁶	West Springfield ¹⁷	Acton Boxborough ¹⁸	Easton ¹⁹	Rockland ²⁰	Orange ²¹	Springfield ²²		
School Name	R.E. Shaw ES	Coburn ES	CT Douglas ES	Center ES	Jefferson ES	Dexter Park	Springfield Deberry ES		
Construction Type	New	New	New	New	New	Add/Reno	New		
Enrollment	550	585	990	760	760	520	800		
GSF	90,266	119,800	174,759	148,422	120,672	97,115	155,900		
Assumed Start of Construction	Feb-21	Sep-20	Jul-20	Mar-21	Mar-21	Jul-21	Jun-21		
OPM	Hill International	NV5	Skanska	PMA	PMA	Hill International	Skanska		
Designer	Turowski2 Architecture	TSKP	Arrowstreet	Perkins Eastman	SMMA	Raymond Desgin Associates, Inc.	Dinisco Design, Inc.		
Cost Estimator	PM&C	A.M. Fogarty	PM&C	PM&C	PM&C	PM&C	A.M. Fogarty		
Division	Description of Work								
A	Substructure	\$2,211,001	\$1,375,243	\$3,689,264	\$2,731,462	\$3,245,315	\$2,351,668	\$2,799,028	\$109,957,068
B	Shell	\$9,665,389	\$11,843,671	\$19,292,700	\$16,272,082	\$13,982,462	\$7,455,157	\$14,120,897	\$523,228,837
	B10 Superstructure	\$3,405,778	\$4,780,835	\$8,548,132	\$5,504,168	\$4,921,984	\$3,111,335	\$5,382,658	\$189,633,913
	B20 Exterior Enclosure	\$4,451,399	\$5,362,993	\$8,667,148	\$8,568,142	\$6,907,350	\$2,898,817	\$7,234,465	\$249,956,261
	B2010 Exterior Walls	\$2,788,709	\$3,065,967	\$6,317,620	\$5,474,330	\$4,137,180	\$1,636,727	\$4,992,554	\$154,530,045
	B2020 Exterior Windows	\$1,446,430	\$2,124,341	\$2,206,213	\$2,897,744	\$2,571,670	\$1,066,590	\$2,057,160	\$65,807,287
	B2030 Exterior Doors	\$216,260	\$172,685	\$143,315	\$196,068	\$198,500	\$195,500	\$184,751	\$6,493,842
	B30 Roofing	\$1,808,212	\$1,699,843	\$2,077,420	\$2,199,772	\$2,153,128	\$1,445,005	\$1,503,774	\$83,638,663
C	Interiors	\$6,586,924	\$8,870,267	\$13,225,612	\$10,107,879	\$9,280,955	\$5,901,417	\$15,247,327	\$333,484,933
D	Services	\$9,435,502	\$13,486,393	\$22,340,441	\$16,261,561	\$13,116,200	\$10,087,034	\$17,424,268	\$533,568,158
	D10 Conveying	\$122,800	\$174,000	\$338,107	\$238,074	\$140,000	\$170,000	\$437,283	\$7,514,390
	D20 Plumbing	\$1,373,265	\$1,757,285	\$2,937,131	\$2,338,560	\$2,536,952	\$1,205,735	\$2,323,297	\$74,690,220
	D30 HVAC	\$3,977,120	\$6,458,751	\$11,798,387	\$7,326,549	\$5,210,293	\$4,306,881	\$8,496,129	\$240,293,990
	D40 Fire Protection	\$473,815	\$793,145	\$1,070,559	\$785,757	\$901,334	\$647,439	\$808,295	\$27,801,282
	D50 Electrical Utilities	\$3,488,502	\$4,303,212	\$6,196,257	\$5,572,621	\$4,327,621	\$3,756,979	\$5,359,264	\$183,268,272
E	Furnishings & Fixed Equipment	\$2,066,860	\$840,751	\$2,399,635	\$2,717,949	\$2,097,910	\$601,380	\$874,277	\$80,677,550
	Building Value Engineering								\$519,545
	Building Subtotal	\$29,965,676	\$36,416,325	\$60,947,652	\$48,090,933	\$41,722,842	\$26,396,656	\$50,465,797	\$1,581,436,091
F	Special Construction & Demo	\$1,422,466	\$1,820,602	\$2,500,899	\$1,164,000	\$2,172,284	\$1,012,727	\$1,166,750	\$54,893,430
G	Other Site Construction	\$6,712,058	\$4,392,274	\$8,213,150	\$8,044,789	\$8,201,596	\$5,438,731	\$6,767,409	\$269,034,752
	G10 Site Preparation	\$893,586	\$700,952	\$1,935,816	\$1,417,454	\$1,591,514	\$1,345,948	\$858,363	\$54,617,107
	G20 Site Improvements	\$4,367,272	\$2,388,937	\$4,541,548	\$4,046,257	\$4,812,180	\$2,480,081	\$4,015,851	\$135,099,776
	G30 Mechanical Utilities	\$1,022,500	\$1,017,135	\$1,453,117	\$2,108,588	\$801,370	\$895,360	\$1,331,425	\$57,462,636
	G40 Electrical Utilities	\$428,700	\$285,250	\$282,669	\$472,490	\$996,532	\$717,342	\$561,770	\$21,855,233
	Other Site Construction					\$187,990	\$822,196	\$0	\$8,452,757
	Subtotal	\$38,100,200	\$42,629,201	\$71,661,701	\$57,299,722	\$52,284,712	\$33,670,310	\$58,399,956	\$1,913,817,030
Z	Mark-Ups	\$8,948,349	\$10,228,125	\$21,194,905	\$13,805,077	\$12,509,563	\$9,768,115	\$15,036,026	\$494,520,651
	Z Insurance	\$661,972	\$0	\$1,143,140	\$901,976	\$742,886	\$761,426	\$1,353,109	\$27,278,517
	Z Subcontractor Bond	\$441,315	\$1,049,581	\$1,020,661	\$567,898	\$563,851	\$481,793	\$0	\$17,685,050
	Z Design & Pricing Contingency	\$3,810,020	\$4,262,920	\$7,204,879	\$5,729,972	\$5,228,471	\$3,503,950	\$5,407,120	\$188,039,261
	Z General Conditions	\$2,600,000	\$3,711,230	\$7,766,116	\$4,778,729	\$4,394,007	\$3,722,122	\$5,026,975	\$171,713,854
	Z Overhead & Profit / GMP Fee	\$1,435,042	\$1,204,394	\$2,030,055	\$1,826,502	\$1,580,348	\$1,298,824	\$1,687,500	\$66,447,651
	Z CM@Risk Contingency			\$2,030,054		\$0		\$1,561,322	\$23,356,318
	Construction Subtotal	\$47,048,549	\$52,857,326	\$92,856,606	\$71,104,799	\$64,794,275	\$43,438,425	\$73,435,982	\$2,408,337,681
	Project Scope Adjustments								\$0
	Escalation to Construction Mid-Point	\$2,221,242	\$1,875,685	\$2,399,225	\$3,781,782	\$3,455,479	\$2,292,303	\$4,205,538	\$99,300,221
	Total Construction Cost	\$49,269,791	\$54,733,011	\$95,255,831	\$74,886,581	\$68,249,754	\$45,730,728	\$77,641,520	\$2,507,637,902
	Cost per Square Foot	\$546	\$457	\$545	\$505	\$566	\$471	\$498	
	Bid Alternates	\$1,153,731	\$0	\$0	\$0	\$0	\$0	\$0	\$17,573,367
	CM Preconstruction Services	\$0	\$0	\$150,000	\$0	\$0	\$0	\$173,000	\$3,549,616
	Construction Contingency	\$2,463,490	\$2,736,651	\$2,381,396	\$3,744,329	\$3,412,488	\$2,286,536	\$2,341,983	\$114,947,566
	Designer	\$5,397,032	\$5,807,700	\$9,830,583	\$8,215,636	\$7,735,865	\$5,441,400	\$8,327,152	\$275,694,429
	OPM & other Professional services	\$1,692,813	\$1,974,188	\$3,362,619	\$3,207,826	\$2,650,414	\$1,879,000	\$3,101,913	\$99,348,120
	FF&E/IT	\$1,650,000	\$1,697,500	\$3,360,000	\$2,100,000	\$2,584,000	\$1,248,000	\$2,335,038	\$88,705,182
	Legal Fees	\$35,000	\$0	\$50,000	\$50,000	\$50,000	\$10,000	\$0	\$1,170,000
	Other Soft Costs	\$163,000	\$1,540,000	\$1,295,000	\$475,000	\$425,000	\$172,000	\$350,000	\$39,862,910
	Owner's Contingency	\$251,635	\$547,330	\$1,643,090	\$2,160,171	\$1,500,000	\$930,040	\$780,661	\$35,733,700
	Total Project Budget *****	\$60,922,761	\$69,036,380	\$117,328,519	\$94,839,543	\$86,607,521	\$57,697,704	\$95,051,267	\$3,174,666,443
	Bid Alternates								\$6,531,572
	Ineligible Costs & Contingency	\$1,970,792	\$2,189,321	\$1,428,838	\$2,995,463	\$2,729,990	\$1,371,921	\$1,565,568	\$80,719,354
	Scope Exclusions	\$18,652,096	\$16,701,598	\$39,229,153	\$27,001,876	\$30,372,612	\$13,048,003	\$25,486,814	\$802,891,898
	Basis for Total Facilities Grant Reimbursement Rate	\$40,299,873 61.37%	\$50,145,461 80.00%	\$76,670,528 49.70%	\$64,842,204 55.93%	\$53,504,919 67.08%	\$43,277,780 80.00%	\$67,998,885 80.00%	\$2,284,523,619
	Maximum Facilities Grant	\$24,732,032	\$40,116,369	\$38,105,252	\$36,266,245	\$35,891,100	\$34,622,224	\$54,399,108	\$1,381,563,425

17 - West Springfield Coburn ES - The maximum total facilities grant includes a cost recovery of \$5,462 in state funds.

18 - Acton Boxborough Douglas ES - The maximum total facilities grant includes a cost recovery of \$86,391 in state funds.

19 - Easton Center ES - The maximum total facilities grant includes a cost recovery of \$238,360 in state funds.

20 - Rockland Jefferson ES - The maximum total facilities grant includes a cost recovery of \$6,096 in state funds.

21 - Orange Dexter Park ES - The maximum total facilities grant includes a cost recovery of -\$1,504 in state funds.

22 - Springfield Deberry ES - The maximum total facilities grant includes a cost recovery of -\$190,688 in state funds.