

Information as of:

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

December 2019  
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 <sup>1</sup>	Northborough	Worcester	
School Name	Plains ES	Staff Sargeant 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	Drummeay 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	
<b>Division</b>	<b>Description of Work</b>									
	<b>Total Costs</b>									
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	\$897,400	\$2,279,599
	Building Value Engineering									
	<b>Building Subtotal</b>	<b>\$14,664,281</b>	<b>\$24,309,968</b>	<b>\$29,515,097</b>	<b>\$22,160,359</b>	<b>\$18,311,017</b>	<b>\$19,660,802</b>	<b>\$31,853,445</b>	<b>\$10,744,900</b>	<b>\$29,503,564</b>
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			
	<b>Subtotal</b>	<b>\$17,484,155</b>	<b>\$26,943,250</b>	<b>\$35,895,010</b>	<b>\$27,218,359</b>	<b>\$21,201,575</b>	<b>\$23,064,032</b>	<b>\$37,947,565</b>	<b>\$13,700,700</b>	<b>\$35,772,170</b>
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	\$288,300	\$507,314		\$313,797
Z	Subcontractor Bond	\$113,647	\$191,886	\$296,134	\$440,987	\$181,251	\$149,916	\$345,896	\$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
	<b>Construction Subtotal</b>	<b>\$21,126,717</b>	<b>\$32,820,336</b>	<b>\$43,729,096</b>	<b>\$33,804,973</b>	<b>\$25,595,717</b>	<b>\$29,458,074</b>	<b>\$46,863,941</b>	<b>\$17,413,700</b>	<b>\$45,151,112</b>
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
	<b>Total Construction Cost</b>	<b>\$21,563,821</b>	<b>\$33,897,336</b>	<b>\$45,696,905</b>	<b>\$35,191,363</b>	<b>\$26,231,698</b>	<b>\$29,995,466</b>	<b>\$48,381,844</b>	<b>\$18,224,600</b>	<b>\$46,546,300</b>
	<b>Cost per Square Foot</b>	<b>\$340</b>	<b>\$327</b>	<b>\$344</b>	<b>\$368</b>	<b>\$350</b>	<b>\$457</b>	<b>\$365</b>	<b>\$344</b>	<b>\$418</b>
	Bid Alternates			\$1,040,446		\$3,948,259				\$151,000
	CM Preconstruction Services					\$123,600	\$175,000	\$140,000		
	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	\$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
	<b>Total Project Budget ****</b>	<b>\$28,183,801</b>	<b>\$44,382,396</b>	<b>\$58,436,926</b>	<b>\$43,931,363</b>	<b>\$37,500,000</b>	<b>\$39,574,111</b>	<b>\$60,900,000</b>	<b>\$25,470,153</b>	<b>\$58,216,750</b>
	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
	<b>Basis for Total Facilities Grant Reimbursement Rate</b>	<b>\$24,396,394</b> 62.69%	<b>\$36,938,810</b> 80.00%	<b>\$49,629,313</b> 59.17%	<b>\$34,564,525</b> 80.00%	<b>\$28,701,841</b> 40.10%	<b>\$25,404,041</b> 59.73%	<b>\$48,160,357</b> 59.94%	<b>\$19,681,180</b> 52.88%	<b>\$43,454,354</b> 80.00%
	<b>Maximum Facilities Grant</b>	<b>\$15,294,099</b>	<b>\$29,551,048</b>	<b>\$29,365,665</b>	<b>\$27,651,620</b>	<b>\$11,509,438</b>	<b>\$15,173,834</b>	<b>\$28,082,547</b>	<b>\$10,407,408</b>	<b>\$34,763,483</b>

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 <sup>2</sup>	New Bedford	Hopkinton	Carver	Narragansett	Granby	Dedham	Hanover <sup>3</sup>	
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.	Drumme 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	\$122,400	\$1,010,269
	Building Value Engineering								\$519,545	
	<b>Building Subtotal</b>	<b>\$18,251,786</b>	<b>\$57,910,095</b>	<b>\$20,536,621</b>	<b>\$21,864,684</b>	<b>\$26,491,831</b>	<b>\$24,888,000</b>	<b>\$16,570,000</b>	<b>\$13,433,470</b>	<b>\$17,678,114</b>
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	\$0	\$350,000	\$0	\$0	\$0
	<b>Subtotal</b>	<b>\$21,415,684</b>	<b>\$66,081,831</b>	<b>\$23,100,519</b>	<b>\$25,724,479</b>	<b>\$30,752,306</b>	<b>\$28,323,000</b>	<b>\$20,400,000</b>	<b>\$17,829,150</b>	<b>\$20,681,170</b>
Z	Mark-Ups	\$3,836,995	\$21,865,890	\$5,994,446	\$7,873,034	\$7,768,579	\$7,197,000	\$5,042,000	\$4,136,363	\$4,555,422
Z	Insurance		\$1,456,458	\$326,297	\$474,237	\$417,001	\$334,000	\$0	\$267,437	
Z	Subcontractor Bond			\$261,038	\$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	\$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
	<b>Construction Subtotal</b>	<b>\$25,252,679</b>	<b>\$87,947,721</b>	<b>\$29,094,965</b>	<b>\$33,597,513</b>	<b>\$38,520,885</b>	<b>\$35,520,000</b>	<b>\$25,442,000</b>	<b>\$21,965,513</b>	<b>\$25,236,592</b>
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
	<b>Total Construction Cost</b>	<b>\$26,285,514</b>	<b>\$92,237,854</b>	<b>\$29,792,732</b>	<b>\$35,140,982</b>	<b>\$39,443,454</b>	<b>\$36,522,000</b>	<b>\$26,453,000</b>	<b>\$23,213,553</b>	<b>\$26,075,672</b>
	<b>Cost per Square Foot</b>	<b>\$372</b>	<b>\$406</b>	<b>\$402</b>	<b>\$422</b>	<b>\$351</b>	<b>\$394</b>	<b>\$385</b>	<b>\$455</b>	<b>\$269</b>
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	
	<b>Total Project Budget ****</b>	<b>\$33,705,396</b>	<b>\$120,150,000</b>	<b>\$36,747,197</b>	<b>\$45,629,373</b>	<b>\$51,953,585</b>	<b>\$47,563,184</b>	<b>\$34,208,975</b>	<b>\$29,763,402</b>	<b>\$32,446,161</b>
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	
	<b>Basis for Total Facilities Grant Reimbursement Rate</b>	<b>\$26,283,206</b>	<b>\$70,580,419</b>	<b>\$28,408,227</b>	<b>\$31,592,034</b>	<b>\$42,078,822</b>	<b>\$36,331,638</b>	<b>\$27,698,422</b>	<b>\$20,990,427</b>	<b>\$30,114,992</b>
		54.74%	38.30%	80.00%	44.50%	59.47%	63.11%	63.63%	51.33%	53.70%
	<b>Maximum Facilities Grant</b>	<b>\$14,387,427</b>	<b>\$27,032,300</b>	<b>\$22,726,582</b>	<b>\$14,058,455</b>	<b>\$25,024,275</b>	<b>\$22,928,897</b>	<b>\$17,624,506</b>	<b>\$10,774,386</b>	<b>\$16,168,657</b>

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.

Information as of:

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

December 2019  
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	Jul-16	Sep-16	Nov-16	Nov-16	May-17	Aug-17	Aug-17	Feb-18	Feb-18	
District	Needham	Amherst <sup>4</sup>	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	\$117,668	\$117,950	\$57,705	\$128,352	\$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
	<b>Building Subtotal</b>	<b>\$28,900,660</b>	<b>\$33,666,305</b>	<b>\$19,234,295</b>	<b>\$24,391,982</b>	<b>\$25,234,818</b>	<b>\$8,939,831</b>	<b>\$30,064,205</b>	<b>\$34,127,642</b>	<b>\$22,574,626</b>
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
	<b>Subtotal</b>	<b>\$33,802,115</b>	<b>\$40,344,220</b>	<b>\$24,154,195</b>	<b>\$28,446,572</b>	<b>\$32,622,468</b>	<b>\$11,273,390</b>	<b>\$39,582,929</b>	<b>\$39,691,541</b>	<b>\$27,614,811</b>
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	\$316,889	\$318,283	\$316,889	\$326,841	\$145,070	\$0	\$564,860	\$396,710
Z	Subcontractor Bond	\$403,383	\$564,819	\$345,961	\$279,793	\$370,637	\$132,403	\$1,123,674	\$564,860	\$364,973
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
	<b>Construction Subtotal</b>	<b>\$41,974,915</b>	<b>\$52,378,309</b>	<b>\$29,869,156</b>	<b>\$35,217,186</b>	<b>\$41,864,223</b>	<b>\$13,995,988</b>	<b>\$51,212,136</b>	<b>\$48,685,001</b>	<b>\$36,145,183</b>
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
	<b>Total Construction Cost</b>	<b>\$45,465,414</b>	<b>\$53,951,331</b>	<b>\$30,910,366</b>	<b>\$36,250,776</b>	<b>\$42,591,393</b>	<b>\$14,320,678</b>	<b>\$52,973,418</b>	<b>\$50,074,205</b>	<b>\$37,851,462</b>
	<b>Cost per Square Foot</b>	<b>\$501.26</b>	<b>\$441</b>	<b>\$425</b>	<b>\$430</b>	<b>\$474</b>	<b>\$376</b>	<b>\$482</b>	<b>\$418</b>	<b>\$502</b>
	Bid Alternates	\$0	\$0	\$0	\$445,000	\$600,000	\$0	\$0	\$0	\$0
	CM Preconstruction Services	\$0	\$40,000	\$0	\$120,000	\$100,000	\$0	\$170,000	\$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
	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
	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
	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
	Legal Fees	\$0	\$0	\$50,000	\$0	\$20,000	\$12,500	\$30,000	\$25,000	\$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
	Owner's Contingency	\$2,276,000	\$540,000	\$643,257	\$360,000	\$400,000	\$286,414	\$500,000	\$1,859,928	\$300,000
	<b>Total Project Budget ****</b>	<b>\$65,907,414</b>	<b>\$67,207,225</b>	<b>\$39,919,041</b>	<b>\$48,999,776</b>	<b>\$53,365,857</b>	<b>\$19,097,075</b>	<b>\$65,339,418</b>	<b>\$64,971,831</b>	<b>\$46,567,962</b>
	Bid Alternates	\$0	\$0	\$0	\$0	\$600,000	\$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
	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
	<b>Basis for Total Facilities Grant Reimbursement Rate</b>	<b>\$40,365,420</b> 34.72%	<b>\$50,510,234</b> 68.34%	<b>\$31,153,777</b> 48.63%	<b>\$34,989,904</b> 40.22%	<b>\$37,408,261</b> 57.27%	<b>\$16,659,704</b> 70.62%	<b>\$47,230,341</b> 35.79%	<b>\$52,928,971</b> 80.00%	<b>\$32,930,086</b> 44.28%
	<b>Maximum Facilities Grant</b>	<b>\$14,014,874</b>	<b>\$34,454,412</b>	<b>\$15,150,082</b>	<b>\$14,072,939</b>	<b>\$21,423,711</b>	<b>\$11,765,083</b>	<b>\$16,903,739</b>	<b>\$42,343,177</b>	<b>\$14,581,442</b>

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

December 2019 Board Meeting

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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 <sup>5</sup>	Harvard <sup>6</sup>	Northbridge	Easthampton	Foxborough	Manchester Essex <sup>7</sup>	Springfield <sup>8</sup>	
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	\$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									
	<b>Building Subtotal</b>	<b>\$30,234,697</b>	<b>\$31,031,124</b>	<b>\$36,679,801</b>	<b>\$26,771,866</b>	<b>\$47,191,266</b>	<b>\$57,752,000</b>	<b>\$17,853,000</b>	<b>\$23,969,899</b>	<b>\$44,037,500</b>
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	\$1,651,400
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	\$278,000	\$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	\$567,000	\$276,000	\$237,400	\$87,500
	<b>Subtotal</b>	<b>\$35,366,614</b>	<b>\$38,294,946</b>	<b>\$43,226,568</b>	<b>\$32,707,092</b>	<b>\$58,148,260</b>	<b>\$70,335,000</b>	<b>\$20,594,700</b>	<b>\$29,720,710</b>	<b>\$49,978,200</b>
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	\$622,217	\$912,000	\$276,000	\$278,875	\$1,057,200
Z	Subcontractor Bond	\$428,000	\$431,000	\$497,773	\$292,609	\$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	\$1,071,965	\$3,758,922	\$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
	<b>Construction Subtotal</b>	<b>\$43,215,614</b>	<b>\$47,091,946</b>	<b>\$53,235,009</b>	<b>\$42,017,828</b>	<b>\$75,246,207</b>	<b>\$85,430,000</b>	<b>\$26,005,700</b>	<b>\$39,358,861</b>	<b>\$64,109,900</b>
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
	<b>Total Construction Cost</b>	<b>\$45,754,614</b>	<b>\$47,831,946</b>	<b>\$55,535,479</b>	<b>\$42,999,041</b>	<b>\$79,492,662</b>	<b>\$90,122,000</b>	<b>\$27,057,700</b>	<b>\$41,142,104</b>	<b>\$66,941,200</b>
	<b>Cost per Square Foot</b>	<b>\$431</b>	<b>\$429</b>	<b>\$450</b>	<b>\$505</b>	<b>\$475</b>	<b>\$508</b>	<b>\$440</b>	<b>\$534</b>	<b>\$445</b>
Bid Alternates		\$0	\$0	\$0	\$187,920	\$250,000			\$146,000	\$173,096
CM Preconstruction Services		\$0	\$0	\$0	\$187,920	\$250,000			\$146,000	\$173,096
Construction Contingency		\$2,849,699	\$1,650,000	\$2,776,774	\$2,149,952	\$3,974,633	\$2,253,050	\$1,351,450	\$1,645,684	\$2,008,236
Designer		\$4,886,295	\$3,243,592	\$5,551,443	\$4,674,904	\$8,271,042	\$9,477,200	\$7,979,500	\$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
	<b>Total Project Budget ****</b>	<b>\$57,451,421</b>	<b>\$56,418,338</b>	<b>\$69,406,719</b>	<b>\$53,597,807</b>	<b>\$100,968,194</b>	<b>\$109,158,463</b>	<b>\$34,671,567</b>	<b>\$52,232,925</b>	<b>\$82,201,776</b>
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
	<b>Basis for Total Facilities Grant Reimbursement Rate</b>	<b>\$45,387,552</b> 61.57%	<b>\$44,140,857</b> 67.71%	<b>\$53,819,003</b> 50.52%	<b>\$37,031,173</b> 50.68%	<b>\$74,575,524</b> 63.78%	<b>\$80,305,016</b> 63.15%	<b>\$27,372,396</b> 56.01%	<b>\$35,009,449</b> 35.93%	<b>\$62,775,193</b> 80.00%
	<b>Maximum Facilities Grant</b>	<b>\$27,945,116</b>	<b>\$29,887,774</b>	<b>\$27,189,360</b>	<b>\$18,767,398</b>	<b>\$47,564,269</b>	<b>\$50,712,618</b>	<b>\$15,331,279</b>	<b>\$12,578,895</b>	<b>\$50,220,154</b>

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

December 2019  
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	Oct-18	Dec-18	Dec-18	Feb-19	Feb-19	Feb-19	Aug-19	Aug-19	Aug-19	Aug-19	
District	Shrewsbury <sup>9</sup>	Danvers	Wareham <sup>10</sup>	Marblehead <sup>11</sup>	Tewksbury <sup>12</sup>	Westborough	Amesbury <sup>13</sup>	Bridgewater-Raynham <sup>14</sup>	Gardner <sup>15</sup>	Millbury <sup>16</sup>	
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	R.E. Shaw ES	
Construction Type	New	New	New	New	New	New	New	New	New	New	
Enrollment	790	465	1,020	450	790	400	425	740	925	550	
GSF	141,600	82,728	159,989	81,935	139,457	70,242	98,195	132,045	147,120	90,266	
Assumed Start of Construction	Nov-19	Jan-20	Feb-20	Apr-20	May-20	Feb-20	Jul-20	May-20	Nov-20	Feb-21	
OPM	PMA Consultants	PMA Consultants	PMA Consultants	Leftfield	CBRE   Heery	Vertex	NV5	Daedalus	Colliers International	Hill International	
Designer	Lamoureux Pagano & Associates, Inc.	Tappe Architects, Inc.	Mount Vernon Group	Raymond Design	Flansburgh Associates	HMFH	Dinisco	Raymond Design	Jones Whitsett Associates	Turowski2 Architecture	
Cost Estimator	A.M. Fogarty	PM&C	PM&C	VJ Associates	PM&C	Miyakoda Consulting	A.M. Fogarty	Ellana, Inc.	PM&C	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	\$2,211,001
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	\$9,665,389
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	\$3,405,778
B20	Exterior Enclosure	\$7,084,625	\$4,265,909	\$6,535,323	\$3,491,287	\$7,656,396	\$3,012,939	\$4,813,108	\$5,904,873	\$7,710,000	\$4,451,399
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	\$2,788,709
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	\$1,446,430
B2030	Exterior Doors	\$117,068	\$116,200	\$144,880	\$155,400	\$227,269	\$51,500	\$95,722	\$0	\$0	\$216,260
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	\$1,808,212
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	\$6,586,924
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	\$9,435,502
D10	Conveying	\$115,037	\$180,000	\$266,500	\$174,000	\$153,000	\$138,000	\$174,000	\$240,000	\$328,000	\$122,800
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	\$1,373,265
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	\$3,977,120
D40	Fire Protection	\$623,040	\$370,275	\$792,425	\$462,380	\$715,143	\$423,427	\$476,381	\$859,385	\$665,000	\$473,815
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	\$3,488,502
E	Furnishings & Fixed Equipment	\$2,673,999	\$1,646,509	\$2,284,255	\$1,932,820	\$1,988,007	\$1,751,203	\$1,977,355	\$2,324,138	\$3,092,000	\$2,066,860
	Building Value Engineering										
	<b>Building Subtotal</b>	<b>\$43,382,405</b>	<b>\$26,619,276</b>	<b>\$46,771,033</b>	<b>\$26,553,310</b>	<b>\$39,783,068</b>	<b>\$27,197,754</b>	<b>\$31,212,190</b>	<b>\$40,180,623</b>	<b>\$44,727,000</b>	<b>\$29,965,676</b>
F	Special Construction & Demo	\$1,975,000	\$697,500	\$1,392,030	\$1,253,397	\$734,600	\$988,000	\$0	\$1,650,000	\$0	\$1,422,466
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	\$6,712,058
G10	Site Preparation	\$2,543,513	\$748,429	\$1,928,356	\$1,044,320	\$1,909,485	\$1,345,101	\$1,393,930	\$1,553,177	\$1,944,000	\$893,586
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	\$4,367,272
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	\$1,022,500
G40	Electrical Utilities	\$600,237	\$303,960	\$625,650	\$385,600	\$1,187,100	\$266,523	\$906,881	\$523,375	\$605,000	\$428,700
	Other Site Construction			\$500,000	\$0	\$3,528,229	\$0	\$0	\$0	\$0	\$0
	<b>Subtotal</b>	<b>\$54,860,226</b>	<b>\$31,209,214</b>	<b>\$57,278,975</b>	<b>\$31,786,361</b>	<b>\$57,259,596</b>	<b>\$33,485,589</b>	<b>\$39,046,926</b>	<b>\$48,960,055</b>	<b>\$56,445,000</b>	<b>\$38,100,200</b>
Z	Mark-Ups	\$16,143,772	\$9,679,109	\$11,046,854	\$9,139,292	\$17,328,230	\$9,968,865	\$8,454,032	\$12,639,927	\$12,475,000	\$8,948,349
Z	Insurance	\$1,564,394	\$952,693	\$605,190	\$548,473	\$1,646,213	\$1,362,815	\$0	\$1,490,803	\$485,000	\$661,972
Z	Subcontractor Bond		\$0	\$605,190	\$0	\$0	\$0	\$825,838	\$477,057	\$920,000	\$441,315
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	\$3,810,020
Z	General Conditions	\$5,475,362	\$3,765,387	\$3,724,000	\$3,724,000	\$3,300,000	\$2,901,633	\$3,544,108	\$4,039,204	\$3,865,000	\$2,600,000
Z	Overhead & Profit / GMP Fee	\$1,807,606	\$1,008,819	\$1,851,881	\$1,052,456	\$4,836,802	\$1,224,664	\$960,332	\$1,736,858	\$1,561,000	\$1,435,042
Z	CM@Risk Contingency	\$1,810,387	\$712,694	\$0	\$635,727	\$1,819,255	\$1,229,994	\$0	\$0	\$0	\$0
	<b>Construction Subtotal</b>	<b>\$71,003,998</b>	<b>\$40,888,323</b>	<b>\$68,325,829</b>	<b>\$40,925,653</b>	<b>\$74,587,826</b>	<b>\$43,454,454</b>	<b>\$47,500,958</b>	<b>\$61,599,982</b>	<b>\$68,920,000</b>	<b>\$47,048,549</b>
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	\$2,221,242
	<b>Total Construction Cost</b>	<b>\$74,111,830</b>	<b>\$42,074,273</b>	<b>\$72,066,378</b>	<b>\$43,786,426</b>	<b>\$77,450,806</b>	<b>\$45,627,177</b>	<b>\$48,976,932</b>	<b>\$64,679,981</b>	<b>\$70,937,000</b>	<b>\$49,269,791</b>
	<b>Cost per Square Foot</b>	<b>\$523</b>	<b>\$509</b>	<b>\$450</b>	<b>\$534</b>	<b>\$555</b>	<b>\$650</b>	<b>\$499</b>	<b>\$490</b>	<b>\$482</b>	<b>\$546</b>
Bid Alternates	\$0	\$0	\$0	\$0	\$0	\$8,402,618	\$0	\$0	\$0	\$0	\$1,153,731
CM Preconstruction Services	\$250,000	\$150,000	\$0	\$225,000	\$225,000	\$200,000	\$0	\$0	\$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	\$2,463,490	\$2,463,490
Designer	\$7,784,711	\$4,453,985	\$7,831,637	\$4,864,230	\$8,860,549	\$4,958,800	\$5,309,685	\$6,815,000	\$6,688,700	\$5,397,032	\$5,397,032
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	\$1,692,813	\$1,692,813
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	\$1,650,000	\$1,650,000
Legal Fees	\$25,000	\$25,000	\$25,000	\$30,000	\$30,000	\$5,000	\$0	\$35,000	\$20,000	\$35,000	\$35,000
Other Soft Costs	\$1,490,000	\$150,000	\$275,000	\$645,000	\$670,750	\$450,500	\$375,000	\$585,000	\$493,000	\$163,000	\$163,000
Owner's Contingency	\$777,229	\$744,561	\$570,365	\$292,649	\$1,855,513	\$456,272	\$398,448	\$490,019	\$1,773,425	\$251,635	\$251,635
	<b>Total Project Budget ****</b>	<b>\$92,809,274</b>	<b>\$52,000,000</b>	<b>\$90,474,182</b>	<b>\$55,594,767</b>	<b>\$98,503,724</b>	<b>\$56,883,079</b>	<b>\$60,513,570</b>	<b>\$80,600,000</b>	<b>\$89,558,570</b>	<b>\$60,922,761</b>
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	\$1,970,792	\$1,970,792
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	\$18,652,096	\$18,652,096
	<b>Basis for Total Facilities Grant Reimbursement Rate</b>	<b>\$62,090,236</b> 54.86%	<b>\$36,943,133</b> 55.46%	<b>\$70,165,864</b> 74.98%	<b>\$37,034,603</b> 38.56%	<b>\$55,733,272</b> 58.77%	<b>\$33,533,983</b> 48.32%	<b>\$41,484,510</b> 58.98%	<b>\$57,070,261</b> 59.28%	<b>\$64,126,244</b> 80.00%	<b>\$40,299,873</b> 61.37%
	<b>Maximum Facilities Grant</b>	<b>\$34,062,703</b>	<b>\$20,488,662</b>	<b>\$52,610,365</b>	<b>\$14,280,543</b>	<b>\$32,754,444</b>	<b>\$16,203,620</b>	<b>\$24,467,564</b>	<b>\$33,831,250</b>	<b>\$51,300,995</b>	<b>\$24,732,032</b>

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

December 2019 Board Meeting

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Date Board Approved	Aug-19	Oct-19	Oct-19	Oct-19		
District	West Springfield <sup>17</sup>	Acton Boxborough <sup>18</sup>	Easton <sup>19</sup>	Rockland <sup>20</sup>	TOTAL  ALL ELEMENTARY SCHOOLS	
School Name	Coburn ES	CT Douglas ES	Center ES	Jefferson ES		
Construction Type	New	New	New	New		
Enrollment	585	990	760	760		
GSF	119,800	174,759	148,422	120,672		
Assumed Start of Construction	Sep-20	Jul-20	Mar-21	Mar-21		
OPM	NV5	Skanska	PMA	PMA		
Designer	TSKP	Arrowstreet	Perkins Eastman	SMMA		
Cost Estimator	A.M. Fogarty	PM&C	PM&C	PM&C		
Division	Description of Work					
A	Substructure	\$1,375,243	\$3,689,264	\$2,731,462	\$3,245,315	\$104,806,372
B	Shell	\$11,843,671	\$19,292,700	\$16,272,082	\$13,982,462	\$501,652,783
B10	Superstructure	\$4,780,835	\$8,548,132	\$5,504,168	\$4,921,984	\$181,139,920
B20	Exterior Enclosure	\$5,362,993	\$8,667,148	\$8,568,142	\$6,907,350	\$239,822,979
B2010	Exterior Walls	\$3,065,967	\$6,317,620	\$5,474,330	\$4,137,180	\$147,900,764
B2020	Exterior Windows	\$2,124,341	\$2,206,213	\$2,897,744	\$2,571,670	\$62,683,537
B2030	Exterior Doors	\$172,685	\$143,315	\$196,068	\$198,500	\$6,113,591
B30	Roofing	\$1,699,843	\$2,077,420	\$2,199,772	\$2,153,128	\$80,689,884
C	Interiors	\$8,870,267	\$13,225,612	\$10,107,879	\$9,280,955	\$312,336,189
D	Services	\$13,486,393	\$22,340,441	\$16,261,561	\$13,116,200	\$506,056,856
D10	Conveying	\$174,000	\$338,107	\$238,074	\$140,000	\$6,907,107
D20	Plumbing	\$1,757,285	\$2,937,131	\$2,338,560	\$2,536,952	\$71,161,188
D30	HVAC	\$6,458,751	\$11,798,387	\$7,326,549	\$5,210,293	\$227,490,980
D40	Fire Protection	\$793,145	\$1,070,559	\$785,757	\$901,334	\$26,345,552
D50	Electrical Utilities	\$4,303,212	\$6,196,257	\$5,572,621	\$4,327,621	\$174,152,029
E	Furnishings & Fixed Equipment	\$840,751	\$2,399,635	\$2,717,949	\$2,097,910	\$79,201,893
	Building Value Engineering					\$519,545
	<b>Building Subtotal</b>	<b>\$36,416,325</b>	<b>\$60,947,652</b>	<b>\$48,090,933</b>	<b>\$41,722,842</b>	<b>\$1,504,573,638</b>
F	Special Construction & Demo	\$1,820,602	\$2,500,899	\$1,164,000	\$2,172,284	\$52,713,953
G	Other Site Construction	\$4,392,274	\$8,213,150	\$8,044,789	\$8,201,596	\$256,828,612
G10	Site Preparation	\$700,952	\$1,935,816	\$1,417,454	\$1,591,514	\$52,412,796
G20	Site Improvements	\$2,388,937	\$4,541,548	\$4,046,257	\$4,812,180	\$128,603,844
G30	Mechanical Utilities	\$1,017,135	\$1,453,117	\$2,108,588	\$801,370	\$55,235,851
G40	Electrical Utilities	\$285,250	\$282,669	\$472,490	\$996,532	\$20,576,121
	Other Site Construction					\$187,990
	<b>Subtotal</b>	<b>\$42,629,201</b>	<b>\$71,661,701</b>	<b>\$57,299,722</b>	<b>\$52,284,712</b>	<b>\$1,821,746,764</b>
Z	Mark-Ups	\$10,228,125	\$21,194,905	\$13,805,077	\$12,509,563	\$469,716,510
Z	Insurance	\$0	\$1,143,140	\$901,976	\$742,886	\$25,163,982
Z	Subcontractor Bond	\$1,049,581	\$1,020,661	\$567,898	\$563,851	\$17,203,257
Z	Design & Pricing Contingency	\$4,262,920	\$7,204,879	\$5,729,972	\$5,228,471	\$179,128,191
Z	General Conditions	\$3,711,230	\$7,766,116	\$4,778,729	\$4,394,007	\$162,964,757
Z	Overhead & Profit / GMP Fee	\$1,204,394	\$2,030,055	\$1,826,502	\$1,580,348	\$63,461,327
Z	CM@Risk Contingency		\$2,030,054			\$21,794,996
	<b>Construction Subtotal</b>	<b>\$52,857,326</b>	<b>\$92,856,606</b>	<b>\$71,104,799</b>	<b>\$64,794,275</b>	<b>\$2,291,463,274</b>
Z	Project Scope Adjustments					\$0
Z	Escalation to Construction Mid-Point	\$1,875,685	\$2,399,225	\$3,781,782	\$3,455,479	\$92,802,380
	<b>Total Construction Cost</b>	<b>\$54,733,011</b>	<b>\$95,255,831</b>	<b>\$74,886,581</b>	<b>\$68,249,754</b>	<b>\$2,384,265,654</b>
	<b>Cost per Square Foot</b>	<b>\$457</b>	<b>\$545</b>	<b>\$505</b>	<b>\$566</b>	
Bid Alternates	\$0	\$0	\$0	\$0	\$0	\$17,573,367
CM Preconstruction Services	\$0	\$150,000	\$0	\$0	\$0	\$3,376,616
Construction Contingency	\$2,736,651	\$2,381,396	\$3,744,329	\$3,412,488	\$110,319,047	
Designer	\$5,807,700	\$9,830,583	\$8,215,636	\$7,735,865	\$261,925,877	
OPM & other Professional services	\$1,974,188	\$3,362,619	\$3,207,826	\$2,650,414	\$94,367,207	
FF&E/IT	\$1,697,500	\$3,360,000	\$2,100,000	\$2,584,000	\$85,122,144	
Legal Fees	\$0	\$50,000	\$50,000	\$50,000	\$1,160,000	
Other Soft Costs	\$1,540,000	\$1,295,000	\$475,000	\$425,000	\$39,340,910	
Owner's Contingency	\$547,330	\$1,643,090	\$2,160,171	\$1,500,000	\$34,022,999	
	<b>Total Project Budget ****</b>	<b>\$69,036,380</b>	<b>\$117,328,519</b>	<b>\$94,839,543</b>	<b>\$86,607,521</b>	<b>\$3,021,917,472</b>
Bid Alternates						\$6,531,572
Ineligible Costs & Contingency	\$2,189,321	\$1,428,838	\$2,995,463	\$2,729,990	\$77,781,865	
Scope Exclusions	\$16,701,598	\$39,229,153	\$27,001,876	\$30,372,612	\$764,357,081	
	<b>Basis for Total Facilities Grant Reimbursement Rate</b>	<b>\$50,145,461</b> 80.00%	<b>\$76,670,528</b> 49.70%	<b>\$64,842,204</b> 55.93%	<b>\$53,504,919</b> 67.08%	<b>\$2,173,246,954</b>
	<b>Maximum Facilities Grant</b>	<b>\$40,116,369</b>	<b>\$38,105,252</b>	<b>\$36,266,245</b>	<b>\$35,891,100</b>	<b>\$1,292,542,093</b>

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.