

Information as of:

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

Elementary School

February 2018 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**	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									
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	\$39,680	\$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																	
	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		\$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								
	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	\$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	\$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	\$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	\$1,620,000								
Legal Fees	\$35,000	\$25,000	\$50,000	\$25,000	\$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	\$560,450								
Owner's Contingency	\$647,964	\$120,000	\$100,000	\$250,000	\$360,210	\$438,683	\$380,067	\$546,700	\$842,000	\$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	\$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	\$13,727,859								
	Basis for Total Facilities Grant Reimbursement Rate	\$24,396,394 62.69%	\$36,938,810 80.00%	\$49,629,313 59.17%	\$34,564,525 80.00%	\$28,701,841 40.10%	\$25,404,041 59.73%	\$48,160,357 59.94%	\$19,681,180 52.88%	\$43,454,354 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								

** 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^	New Bedford	Hopkinton	Carver	Narragansett	Granby	Dedham	Hanover**	
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	\$122,400	\$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	\$921,523	\$969,989	\$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
	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	\$7,197,000	\$5,042,000	\$4,136,363	\$4,555,422
Z	Insurance		\$1,456,458	\$326,297	\$444,237	\$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		
	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	\$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	\$0	\$1,983,313	\$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 54.74%	\$70,580,419 38.30%	\$28,408,227 80.00%	\$31,592,034 44.50%	\$42,078,822 59.47%	\$36,331,638 63.11%	\$27,698,422 63.63%	\$20,990,427 51.33%	\$30,114,992 53.70%
	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

^ Brookline - Cost recovery amount of \$47,039 not deducted from Maximum Facilities Grant.

** 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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February 2018 Board Meeting

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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 +	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	\$161,668	\$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
	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	\$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
	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
	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
	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	\$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
	Basis for Total Facilities Grant Reimbursement Rate	\$40,365,420 34.72%	\$50,510,234 68.34%	\$31,153,777 48.63%	\$34,989,904 40.22%	\$37,408,261 57.27%	\$16,659,704 70.62%	\$47,230,341 35.79%	\$52,928,971 80.00%	\$32,930,086 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

+ 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

February 2018
Board Meeting

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Date Board Approved	Feb-18
District	Ludlow
School Name	Chapin Street ES
Construction Type	New
Enrollment	630
GSF	106,250
Assumed Start of Construction	May-19
OPM	STV/DPM
Designer	Mount Vernon Group
Cost Estimator	Fennessy Consulting Services

Division	Description of Work		
A	Substructure	\$3,383,756	\$42,784,602
B	Shell	\$9,173,906	\$199,882,176
	B10 Superstructure	\$3,936,136	\$79,341,093
	B20 Exterior Enclosure	\$3,693,380	\$98,040,711
	B2010 Exterior Walls	\$2,594,955	\$70,366,695
	B2020 Exterior Windows	\$1,028,925	\$28,808,639
	B2030 Exterior Doors	\$69,500	\$2,591,075
	B30 Roofing	\$1,544,390	\$38,411,252
C	Interiors	\$5,914,927	\$118,578,137
D	Services	\$10,177,070	\$197,073,055
	D10 Conveying	\$131,100	\$2,655,769
	D20 Plumbing	\$1,571,600	\$31,257,453
	D30 HVAC	\$4,781,250	\$101,407,496
	D40 Fire Protection	\$533,950	\$12,312,617
	D50 Electrical Utilities	\$3,159,170	\$76,655,733
E	Furnishings & Fixed Equipment	\$1,585,038	\$29,942,615
	Building Value Engineering		\$519,545
	Building Subtotal	\$30,234,697	\$588,780,130
F	Special Construction & Demo	\$1,047,629	\$21,969,057
G	Other Site Construction	\$4,084,288	\$92,661,657
	G10 Site Preparation	\$1,088,044	\$20,416,705
	G20 Site Improvements	\$2,034,819	\$51,849,295
	G30 Mechanical Utilities	\$696,425	\$22,873,538
	G40 Electrical Utilities	\$265,000	\$9,620,793
	Other Site Construction	\$0	\$664,342
	Subtotal	\$35,366,614	\$703,760,844
Z	Mark-Ups	\$7,849,000	\$181,292,603
Z	Insurance	\$499,000	\$8,895,008
Z	Subcontractor Bond	\$428,000	\$8,691,484
Z	Design & Pricing Contingency	\$3,540,000	\$79,135,816
Z	General Conditions	\$2,214,000	\$75,347,610
Z	Overhead & Profit / GMP Fee	\$1,168,000	\$25,885,481
Z	CM@Risk Contingency		\$8,710,036
	Construction Subtotal	\$43,215,614	\$885,053,447
Z	Project Scope Adjustments		\$0
Z	Escalation to Construction Mid-Point	\$2,539,000	\$37,938,506
	Total Construction Cost	\$45,754,614	\$917,357,470
	Cost per Square Foot	\$431	
	Bid Alternates	\$0	\$8,017,018
	CM Preconstruction Services	\$0	\$1,419,600
	Construction Contingency	\$2,849,699	\$52,001,981
	Designer	\$4,886,295	\$105,320,092
	OPM & other Professional services	\$1,690,665	\$37,100,012
	FF&E/IT	\$1,700,000	\$35,698,678
	Legal Fees	\$10,000	\$510,000
	Other Soft Costs	\$332,000	\$25,687,660
	Owner's Contingency	\$228,148	\$14,866,343
	Total Project Budget *****	\$57,451,421	\$1,188,598,579
	Bid Alternates		\$6,531,572
	Ineligible Costs & Contingency	\$2,392,153	\$27,454,759
	Scope Exclusions	\$9,671,716	\$303,417,314
	Basis for Total Facilities Grant Reimbursement Rate	\$45,387,552	\$883,326,643
		61.57%	
	Maximum Facilities Grant	\$27,945,116	\$585,179,202