

AMESBURY ELEMENTARY SCHOOL: AMESBURY, MA

Design Development Cost Estimate Reconciliation

2/3/2020

		GSF 98,195		GSF 98,195		Variance (AMF - PM&C)		PFA Budget		Variance (AMF - PFA Budget)
		ARCH Estimator (AM Fogarty)		OPM Estimator (PM & C)		Variance (AMF - PM&C)		PFA Budget		Variance (AMF - PFA Budget)
		Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount
A10	FOUNDATIONS	\$ 1,882,621	\$ 19.17	\$ 2,056,732	\$ 20.95	\$ (174,111)	\$ (1.77)	\$ 1,751,786	\$ 17.84	\$ 130,835
	A1010 Standard Foundations	\$ 1,227,927	\$ 12.50	\$ 1,420,855	\$ 14.47	\$ (192,928)	\$ (1.96)	\$ 1,286,847	\$ 13.11	\$ (58,920)
	A1020 Special Foundations	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	A1030 Slab on Grade	\$ 654,694	\$ 6.67	\$ 635,877	\$ 6.48	\$ 18,817	\$ 0.19	\$ 464,939	\$ 4.73	\$ 189,755
A20	BASEMENT CONSTRUCTION	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	A2010 Basement Excavation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B10	STRUCTURE	\$ 3,905,897	\$ 39.78	\$ 3,903,713	\$ 39.75	\$ 2,184	\$ 0.02	\$ 3,957,302	\$ 40.30	\$ (51,405)
	B1010 Floor Construction	\$ 2,572,566	\$ 26.20	\$ 2,601,493	\$ 26.49	\$ (28,927)	\$ (0.29)	\$ 2,623,511	\$ 26.72	\$ (50,945)
	B1020 Roof Construction	\$ 1,333,331	\$ 13.58	\$ 1,302,220	\$ 13.26	\$ 31,111	\$ 0.32	\$ 1,333,791	\$ 13.58	\$ (460)
B20	EXTERIOR CLOSURE	\$ 5,207,601	\$ 53.03	\$ 5,063,143	\$ 51.56	\$ 144,458	\$ 1.47	\$ 4,813,108	\$ 49.02	\$ 394,493
	B2010 Exterior Walls	\$ 3,687,204	\$ 37.55	\$ 3,627,802	\$ 36.94	\$ 59,402	\$ 0.60	\$ 3,404,390	\$ 34.67	\$ 282,814
	B2020 Exterior Windows	\$ 1,419,091	\$ 14.45	\$ 1,341,806	\$ 13.66	\$ 77,285	\$ 0.79	\$ 1,312,996	\$ 13.37	\$ 106,095
	B2030 Exterior Doors	\$ 101,306	\$ 1.03	\$ 93,535	\$ 0.95	\$ 7,771	\$ 0.08	\$ 95,722	\$ 0.97	\$ 5,584
B30	ROOFING	\$ 1,080,684	\$ 11.01	\$ 1,073,881	\$ 10.94	\$ 6,803	\$ 0.07	\$ 974,991	\$ 9.93	\$ 105,693
	B3010 Roof Coverings	\$ 1,065,584	\$ 10.85	\$ 998,306	\$ 10.17	\$ 67,278	\$ 0.69	\$ 968,616	\$ 9.86	\$ 96,968
	B3020 Roof Openings	\$ 15,100	\$ 0.15	\$ 75,575	\$ 0.77	\$ (60,475)	\$ (0.62)	\$ 6,375	\$ 0.06	\$ 8,725
C10	INTERIOR CONSTRUCTION	\$ 4,256,086	\$ 43.34	\$ 4,219,731	\$ 42.97	\$ 36,355	\$ 0.37	\$ 3,859,857	\$ 39.31	\$ 396,229
	C1010 Partitions	\$ 2,618,552	\$ 26.67	\$ 2,487,732	\$ 25.33	\$ 130,820	\$ 1.33	\$ 2,429,050	\$ 24.74	\$ 189,502
	C1020 Interior Doors	\$ 631,070	\$ 6.43	\$ 587,960	\$ 5.99	\$ 43,110	\$ 0.44	\$ 546,701	\$ 5.57	\$ 84,369
	C1030 Specialties/Millwork	\$ 1,006,464	\$ 10.25	\$ 1,144,039	\$ 11.65	\$ (137,575)	\$ (1.40)	\$ 884,106	\$ 9.00	\$ 122,358
C20	STAIRS	\$ 304,378	\$ 3.10	\$ 314,080	\$ 3.20	\$ (9,702)	\$ (0.10)	\$ 327,500	\$ 3.34	\$ (23,122)
	C2010 Stair Construction	\$ 253,400	\$ 2.58	\$ 256,500	\$ 2.61	\$ (3,100)	\$ (0.03)	\$ 281,450	\$ 2.87	\$ (28,050)
	C2020 Stair Finishes	\$ 50,978	\$ 0.52	\$ 57,580	\$ 0.59	\$ (6,602)	\$ (0.07)	\$ 46,050	\$ 0.47	\$ 4,928
C30	INTERIOR FINISHES	\$ 2,964,473	\$ 30.19	\$ 2,925,420	\$ 29.79	\$ 39,053	\$ 0.40	\$ 2,709,297	\$ 27.59	\$ 255,176
	C3010 Wall Finishes	\$ 928,578	\$ 9.46	\$ 934,717	\$ 9.52	\$ (6,139)	\$ (0.06)	\$ 881,397	\$ 8.98	\$ 47,181
	C3020 Floor Finishes	\$ 940,571	\$ 9.58	\$ 942,400	\$ 9.60	\$ (1,829)	\$ (0.02)	\$ 997,240	\$ 10.16	\$ (56,669)
	C3030 Ceiling Finishes	\$ 1,095,324	\$ 11.15	\$ 1,048,303	\$ 10.68	\$ 47,021	\$ 0.48	\$ 830,660	\$ 8.46	\$ 264,664
D10	CONVEYING	\$ 195,000	\$ 1.99	\$ 170,000	\$ 1.73	\$ 25,000	\$ 0.25	\$ 174,000	\$ 1.77	\$ 21,000
	D1010 Elevators & Lifts	\$ 195,000	\$ 1.99	\$ 170,000	\$ 1.73	\$ 25,000	\$ 0.25	\$ 174,000	\$ 1.77	\$ 21,000
D20	PLUMBING	\$ 1,563,304	\$ 15.92	\$ 1,524,315	\$ 15.52	\$ 38,989	\$ 0.40	\$ 1,625,965	\$ 16.56	\$ (62,661)
D30	HVAC	\$ 5,239,255	\$ 53.36	\$ 5,333,651	\$ 54.32	\$ (94,396)	\$ (0.96)	\$ 4,925,032	\$ 50.16	\$ 314,223
D40	FIRE PROTECTION	\$ 431,729	\$ 4.40	\$ 516,245	\$ 5.26	\$ (84,516)	\$ (0.86)	\$ 476,381	\$ 4.85	\$ (44,652)
D50	ELECTRICAL	\$ 3,603,887	\$ 36.70	\$ 3,594,228	\$ 36.60	\$ 9,659	\$ 0.10	\$ 3,639,616	\$ 37.07	\$ (35,729)
D60	COMMUNICATIONS	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
E10	EQUIPMENT	\$ 699,141	\$ 7.12	\$ 698,343	\$ 7.11	\$ 798	\$ 0.01	\$ 607,648	\$ 6.19	\$ 91,493
	E1010 Commercial Equipment	\$ 423,975	\$ 4.32	\$ 698,343	\$ 7.11	\$ (274,368)	\$ (2.79)	\$ 368,475	\$ 3.75	\$ 55,500
	E1020 Other Equipment	\$ 275,166	\$ 2.80	\$ -	\$ -	\$ 275,166	\$ 2.80	\$ 239,173	\$ 2.44	\$ 35,993
E20	FURNISHINGS	\$ 1,338,865	\$ 13.63	\$ 1,327,882	\$ 13.52	\$ 10,983	\$ 0.11	\$ 1,369,707	\$ 13.95	\$ (30,842)
	E2010 Fixed Furnishings	\$ 1,338,865	\$ 13.63	\$ 1,327,882	\$ 13.52	\$ 10,983	\$ 0.11	\$ 1,369,707	\$ 13.95	\$ (30,842)
	E2020 Movable Furnishings	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -

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		Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	
F10	SPECIAL CONSTRUCTION	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
F20	SELECTIVE BUILDING DEMOLITION	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
G10	SITE PREPARATION	\$ 1,676,432	\$ 17.07	\$ 1,494,563	\$ 15.22	\$ 181,869	\$ 1.85	\$ 1,393,930	\$ 14.20	\$ 282,502	
	G1010 Site Clearing	\$ 811,225	\$ 8.26	\$ -	\$ -	\$ 811,225	\$ 8.26	\$ 845,905	\$ 8.61	\$ (34,680)	
	G1020 Site Demolition & Relocations	\$ -	\$ -	\$ 281,624	\$ 2.87	\$ (281,624)	\$ (2.87)	\$ -	\$ -	\$ -	
	G1030 Site Earthwork	\$ 865,207	\$ 8.81	\$ 1,212,939	\$ 12.35	\$ (347,732)	\$ (3.54)	\$ 548,025	\$ 5.58	\$ 317,182	
	G1040 Hazardous Waste Remediation	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
G20	SITE IMPROVEMENTS	\$ 3,945,830	\$ 40.18	\$ 3,798,739	\$ 38.69	\$ 147,091	\$ 1.50	\$ 4,086,886	\$ 41.62	\$ (141,056)	
	G2010 Roadways	\$ 1,657,121	\$ 16.88	\$ -	\$ -	\$ 1,657,121	\$ 16.88	\$ 1,690,155	\$ 17.21	\$ (33,034)	
	G2020 Parking Lots	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	G2030 Pedestrian Paving	\$ 350,097	\$ 3.57	\$ -	\$ -	\$ 350,097	\$ 3.57	\$ 368,838	\$ 3.76	\$ (18,741)	
	G2040 Site Development	\$ 1,241,863	\$ 12.65	\$ 3,195,871	\$ 32.55	\$ (1,954,008)	\$ (19.90)	\$ 1,571,421	\$ 16.00	\$ (329,558)	
	G2050 Landscaping	\$ 696,749	\$ 7.10	\$ 602,868	\$ 6.14	\$ 93,881	\$ 0.96	\$ 456,472	\$ 4.65	\$ 240,277	
G30	SITE MECHANICAL UTILITIES	\$ 1,505,671	\$ 15.33	\$ 1,614,340	\$ 16.44	\$ (108,669)	\$ (1.11)	\$ 1,447,039	\$ 14.74	\$ 58,632	
	G3010 Water Supply	\$ 219,406	\$ 2.23	\$ 286,550	\$ 2.92	\$ (67,144)	\$ (0.68)	\$ 234,145	\$ 2.38	\$ (14,739)	
	G3020 Sanitary Sewer	\$ 221,960	\$ 2.26	\$ 225,350	\$ 2.29	\$ (3,390)	\$ (0.03)	\$ 210,251	\$ 2.14	\$ 11,709	
	G3030 Storm Sewer	\$ 1,015,989	\$ 10.35	\$ 1,075,190	\$ 10.95	\$ (59,201)	\$ (0.60)	\$ 945,043	\$ 9.62	\$ 70,946	
	G3040 Heating Distribution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	G3050 Cooling Distribution	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
	G3060 Fuel Distribution	\$ 48,316	\$ 0.49	\$ 27,250	\$ 0.28	\$ 21,066	\$ 0.21	\$ 57,600	\$ 0.59	\$ (9,284)	
	G3090 Other Mechanical Utilities	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
G40	SITE ELECTRICAL UTILITIES	\$ 915,454	\$ 9.32	\$ 890,025	\$ 9.06	\$ 25,429	\$ 0.26	\$ 906,882	\$ 9.24	\$ 8,572	
	G4010 Electrical Distribution	\$ 384,001	\$ 3.91	\$ 443,000	\$ 4.51	\$ (58,999)	\$ (0.60)	\$ 380,567	\$ 3.88	\$ 3,434	
	G4020 Site Lighting	\$ 531,453	\$ 5.41	\$ 311,975	\$ 3.18	\$ 219,478	\$ 2.24	\$ 476,315	\$ 4.85	\$ 55,138	
	G4030 Site Communications & Security	\$ -	\$ -	\$ 135,050	\$ 1.38	\$ (135,050)	\$ (1.38)	\$ 50,000	\$ 0.51	\$ (50,000)	
	G4090 Other Site Electrical Utilities	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
G50	OTHER SITE CONSTRUCTION	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	
TOTAL CONSTRUCTION COSTS (DBB)		0.48%	\$ 40,716,307	\$ 414.65	\$ 40,519,031	\$ 412.64	\$ 197,276	\$ 2.01	\$ 39,046,926	\$ 397.65	\$ 1,669,381
	Design & Estimating Contingency (5%)	\$ 2,035,815	\$ 20.73	\$ 2,025,952	\$ 20.63	\$ 9,863	\$ 0.10	\$ 3,123,754	\$ 31.81	\$ (1,087,939)	
	General Conditions	\$ 2,629,255	\$ 26.78	\$ 2,640,000	\$ 26.89	\$ (10,745)	\$ (0.11)	\$ 2,618,799	\$ 26.67	\$ 10,456	
	General Requirements	\$ 929,004	\$ -	\$ 871,159	\$ 8.87	\$ 57,845	\$ (8.87)	\$ 925,309	\$ -	\$ 3,695	
	Bonds	\$ 829,136	\$ 8.44	\$ 392,022	\$ 3.99	\$ 437,114	\$ 4.45	\$ 825,838	\$ 8.41	\$ 3,298	
	Insurances (incl above for AM Fogarty)	\$ -	\$ -	\$ 784,043	\$ 7.98	\$ (784,043)	\$ (7.98)	\$ -	\$ -	\$ -	
	Profit	\$ 964,166	\$ 9.82	\$ 1,206,130	\$ 12.28	\$ (241,964)	\$ (2.46)	\$ 960,332	\$ 9.78	\$ 3,834	
	Escalation (2.5%)	\$ 1,068,803	\$ 10.88	\$ 1,012,976	\$ 10.32	\$ 55,827	\$ 0.57	\$ 1,475,974	\$ 15.03	\$ (407,171)	
SUB-TOTAL ESTIMATED COST (DBB)		-0.57%	\$ 49,172,486	\$ 500.76	\$ 49,451,313	\$ 503.60	\$ (278,827)	\$ (2.84)	\$ 48,976,932	\$ 498.77	\$ 195,554
	Direct Purchase Playground Equipment	\$ 300,000	\$ 3.06	\$ 300,000	\$ 3.06	\$ -	\$ -	\$ -	\$ -	\$ 300,000	
TOTAL ESTIMATED COST INCLUDING PLAYGROUND EQUIP.			\$ 49,472,486	\$ 503.82	\$ 49,751,313	\$ 506.66	\$ (278,827)	\$ (2.84)	\$ 48,976,932	\$ 498.77	\$ 495,554

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	ARCH Estimator (AM Fogarty)		OPM Estimator (PM & C)		Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount
	Total Amount	Cost/SF	Total Amount	Cost/SF					

VALUE ENGINEERING ITEMS*	Recommended	Hold					
1 Eliminate Warewash	\$ (66,045)						
2 Modular LCT in lieu of Linoleum Sheet	\$ (59,500)						
3 ACT in lieu of GWB @ Project Area Ceiling	\$ (23,800)						
4 Reduce Stone Sign by 40%	\$ (19,040)						
5 Norman Brick in lieu of Modular	\$ (89,250)						
6 Stair C Swisspearl to Brick	\$ (53,550)						
7 Abuse Resistant GWB ILO 50% Tile @ Stair B & C	\$ (49,385)						
8 Pavement Markings ILO Pavers at Speed Table	\$ (54,900)						
9 Eliminate Roof Overflow Drains	\$ (75,000)						
10 Asphalt Sidewalk ILO Concrete at New Exit Road	\$ (20,000)						
11 Reduce Classroom Sinks from 2/each to 1/each		\$ (105,600)					
12 50% Cape Cod Berm in lieu of Granite Curb		\$ (178,500)					
13 Eliminate Irrigation		\$ (126,140)					
14 Shiplap Oak in lieu of Interior Phenolic		\$ (24,990)					
15 Metal panel soffit in lieu of Phenolic		\$ (130,900)					
16 Furniture Desk ILO Built-in Teacher Desk at 1st & 2nd Floor		\$ (58,310)					
TOTAL OF VALUE ENGINEERING ITEMS	\$ (510,470)	\$ (624,440)			\$ -	\$ -	\$ (510,470)
TOTAL ESTIMATED COST WITH RECOMMENDED VE ITEMS	\$ 48,962,016				\$ 48,976,932	\$ 498.77	\$ (14,916)

* The list of Value Engineering Items identified as accepted at will be incorporated into the design during the Construction Documents Phase in order to keep the project scope on budget