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Durfee High School
New School and Renovation
Fall River, MA

14-Dec-17

Schematic Design Estimate

[1] Costs from UEC Report dated February 13, 2017 - costs do not include design and testing fees, does not include work to Performing Arts Building

This estimate includes all direct construction costs, construction manager's overhead, fee and design contingency. Cost escalation assumes start dates indicated.

This estimate includes all direct construction costs, general contractor's overhead and profit and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding under Chapter 149a of the Massachusetts General Laws to pre-qualified construction managers, and pre-qualified sub-contractors, open specifications for materials and manufactures.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

ITEMS NOT CONSIDERED IN THIS ESTIMATE

Items not included in this estimate are:

- All professional fees and insurance
- Building Permit costs
- Land acquisition, feasibility, and financing costs
- All Furnishings, Fixtures and Equipment
- Items identified in the design as Not In Contract (NIC)
- Items identified in the design as by others
- Owner supplied and/or installed items (e.g. draperies, furniture and equipment)
- Rock excavation; special foundations (unless indicated by design engineers)
- Utility company back charges, including work required off-site
- Work to City streets and sidewalks, (except as noted in this estimate)
- Construction or occupancy phasing or off hours' work, (except as noted in this estimate)

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02-Nov-17

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GFA 501,330

CONSTRUCTION COST SUMMARY

			New Construction		*Prefabricated Building*		*Reno Gymnasium*		*Total*	
	BUILDING SYSTEM		*SUB-TOTAL*	*TOTAL*	*SUB-TOTAL*	*TOTAL*	*SUB-TOTAL*	*TOTAL*	*SUB-TOTAL*	*TOTAL*
MAIN SUMMARY ALL BUILDINGS										
A10	**FOUNDATIONS**									
	A1010	Standard Foundations	$4,391,129		$464,976		$25,000		$4,881,105	
	A1020	Special Foundations	$0		$0		$0		$0	
	A1030	Lowest Floor Construction	$4,139,721	**$8,530,850**	$835,371	**$1,300,347**	$184,028	**$209,028**	$5,159,120	**$10,040,225**
A20	**BASEMENT CONSTRUCTION**									
	A2010	Basement Excavation	$0		$0		$0		$0	
	A2020	Basement Walls	$0	**$0**	$0	**$0**	$0	**$0**	$0	**$0**
B10	**SUPERSTRUCTURE**									
	B1010	Upper Floor Construction	$9,226,066		$151,226		$20,000		$9,397,292	
	B1020	Roof Construction	$5,616,284	**$14,842,350**	$27,875	**$179,101**	$25,000	**$45,000**	$5,669,159	**$15,066,451**
B20	**EXTERIOR CLOSURE**									
	B2010	Exterior Walls	$13,627,728		$0		$731,380		$14,359,108	
	B2020	Windows	$5,628,952		$43,485		$241,855		$5,914,292	
	B2030	Exterior Doors	$326,003	**$19,582,683**	$48,289	**$91,774**	$51,120	**$1,024,355**	$425,412	**$20,698,812**
B30	**ROOFING**									
	B3010	Roof Coverings	$3,344,213		$0		$1,182,224		$4,526,437	
	B3020	Roof Openings	$13,800	**$3,358,013**	$20,000	**$20,000**	$0	**$1,182,224**	$33,800	**$4,560,237**
C10	**INTERIOR CONSTRUCTION**									
	C1010	Partitions	$11,014,680		$769,961		$1,224,045		$13,008,686	
	C1020	Interior Doors	$1,727,820		$114,501		$280,746		$2,123,067	
	C1030	Specialties/Millwork	$3,577,631	**$16,320,131**	$454,663	**$1,339,125**	$1,041,225	**$2,546,016**	$5,073,519	**$20,205,272**
C20	**STAIRCASES**									
	C2010	Stair Construction	$635,000		$0		$167,000		$802,000	
	C2020	Stair Finishes	$189,468	**$824,468**	$0	**$0**	$15,608	**$182,608**	$205,076	**$1,007,076**
C30	**INTERIOR FINISHES**									
	C3010	Wall Finishes	$1,974,934		$193,868		$557,408		$2,726,210	
	C3020	Floor Finishes	$2,896,673		$325,226		$962,002		$4,183,901	
	C3030	Ceiling Finishes	$2,545,389	**$7,416,996**	$380,073	**$899,167**	$393,255	**$1,912,665**	$3,318,717	**$10,228,828**
D10	**CONVEYING SYSTEMS**									
	D1010	Elevator	$272,150	**$272,150**	$0	**$0**	$122,150	**$122,150**	$394,300	**$394,300**

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CONSTRUCTION COST SUMMARY

BUILDING SYSTEM		New Construction SUB-TOTAL	New Construction TOTAL	Prefabricated Building SUB-TOTAL	Prefabricated Building TOTAL	Reno Gymnasium SUB-TOTAL	Reno Gymnasium TOTAL	Total SUB-TOTAL	Total TOTAL
MAIN SUMMARY ALL BUILDINGS									
D20	**PLUMBING**								
D20	Plumbing	$5,491,985	**$5,491,985**	$317,872	**$317,872**	$1,076,716	**$1,076,716**	$6,886,573	**$6,886,573**
D30	**HVAC**								
D30	HVAC	$15,153,023	**$15,153,023**	$1,045,506	**$1,045,506**	$3,157,289	**$3,157,289**	$19,355,818	**$19,355,818**
D40	**FIRE PROTECTION**								
D40	Fire Protection	$1,714,414	**$1,714,414**	$126,827	**$126,827**	$352,006	**$352,006**	$2,193,247	**$2,193,247**
D50	**ELECTRICAL**								
D5010	Service & Distribution	$3,705,998		$438,838		$744,431		$4,889,267	
D5020	Lighting & Power	$5,123,606		$315,734		$756,051		$6,195,391	
D5030	Communication & Security Systems	$7,199,726		$1,333,623		$872,684		$9,406,033	
D5040	Other Electrical Systems	$514,929	**$16,544,259**	$56,897	**$2,145,092**	$147,818	**$2,520,984**	$719,644	**$21,210,335**
E10	**EQUIPMENT**								
E10	Equipment	$2,294,890	**$2,294,890**	$662,500	**$662,500**	$975,072	**$975,072**	$3,932,462	**$3,932,462**
E20	**FURNISHINGS**								
E2010	Fixed Furnishings	$3,274,621		$25,560		$64,805		$3,364,986	
E2020	Movable Furnishings	NIC	**$3,274,621**	NIC	**$25,560**	NIC	**$64,805**	NIC	**$3,364,986**
F10	**SPECIAL CONSTRUCTION**								
F10	Special Construction	$0	**$0**	$2,009,210	**$2,009,210**	$1,082,840	**$1,082,840**	$3,092,050	**$3,092,050**
F20	**HAZMAT REMOVALS**								
F2010	Building Elements Demolition	$0		$0		$771,136		$771,136	
F2020	Hazardous Components Abatement	$0	**$0**	$0	**$0**	$0	**$771,136**	$0	**$771,136**
TOTAL DIRECT COST (Trade Costs)			**$115,620,833**		**$10,162,081**		**$17,224,894**		**$143,007,808**

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Durfee High School
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GFA 388,152

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
	GROSS FLOOR AREA CALCULATION						
	1st Floor	144,460					
	2nd Floor	129,606					
	3rd Floor	114,086					
	TOTAL GROSS FLOOR AREA (GFA)				**388,152**	***sf***	
A10	***FOUNDATIONS***						
A1010	**STANDARD FOUNDATIONS**						
033000	*CONCRETE*						
	Strip Footings	*851*	*CY*				
	Foundation Walls	*770*	*CY*				
	Spread Footings	*4,062*	*CY*				
	Piers	*256*	*CY*				
	Total Foundation Concrete	*5,939*	*CY*				
	Strip footings						
	Formwork	**17,920**	sf	11.00	197,120		
	Re-bar	**96,250**	lbs.	1.20	115,500		
	Concrete material; 4,000 psi	**851**	cy	130.00	110,630		
	Placing concrete	**851**	cy	70.00	59,570		
	Foundation walls						
	Formwork	**31,680**	sf	12.50	396,000		
	Re-bar	**79,200**	lbs.	1.20	95,040		
	Concrete material; 4,000 psi	**770**	cy	130.00	100,100		
	Placing concrete	**770**	cy	70.00	53,900		
	Form shelf	**3,960**	lf	10.00	39,600		
	Spread Footings						
	Formwork	**43,928**	sf	12.00	527,136		
	Re-bar	**528,060**	lbs.	1.20	633,672		
	Concrete material; 4,000 psi	**4,062**	cy	130.00	528,060		
	Placing concrete	**4,062**	cy	70.00	284,340		
	Set anchor bolts grout plates	**579**	ea	150.00	86,850		
	Piers/Pilasters						
	Formwork	**8,767**	sf	14.00	122,738		
	Re-bar	**30,720**	lbs	1.20	36,864		
	Concrete material; 4,000 psi	**256**	cy	130.00	33,280		
	Placing concrete	**256**	cy	80.00	20,480		
070001	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
	Dampproofing at brick shelf	**23,760**	sf	3.00	NR		
072100	*THERMAL INSULATION*						
	Insulation	**15,840**	sf	3.00	47,520		
312000	*EARTHWORK*						
	Strip footings						
	Excavation	**7,911**	cy	15.00	118,665		
	Dispose surplus material on site	**1,621**	cy	8.00	12,968		
	Backfill with selected existing material	**6,290**	cy	12.00	75,480		
	Spread footings						
	Excavation	**15,616**	cy	16.00	249,856		
	Dispose surplus material on site	**4,062**	cy	8.00	32,496		

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		NEW BUILDING						
55		Backfill with selected existing material	**11,554**	cy	12.00	138,648		
56		Miscellaneous						
57		Gravel fill beneath footings, 12"	**3,282**	cy	28.00	91,896		
58		Perimeter drain	**3,760**	lf	22.00	82,720		
59		Underslab E&B for plumbing	**1**	ls	75,000.00	75,000		
60		Dewatering for foundation work	**1**	ls	25,000.00	25,000		
61		SUBTOTAL					4,391,129	
62								
63	**A1020**	**SPECIAL FOUNDATIONS**						
64		No Work in this section						
65		SUBTOTAL						
66								
67	**A1030**	**LOWEST FLOOR CONSTRUCTION**						
68	*033000*	*CONCRETE*						
69		Slab on grade, 5" thick	*144,460*	*sf*				
70		Vapor barrier	**144,460**	sf	0.90	130,014		
71		WWF reinforcement	**166,129**	sf	1.00	166,129		
72		Concrete - 5" thick; 4,000 psi	**2,337**	cy	130.00	303,810		
73		Placing concrete	**2,337**	cy	45.00	105,165		
74		Finishing and curing concrete	**144,460**	sf	2.00	288,920		
75		Sawcut full depth control joints	**144,460**	sf	0.20	28,892		
76		Elevator pit walls						
77		formwork	**960**	sf	15.00	14,400		
78		reinforcement	**1,440**	lbs.	1.20	1,728		
79		concrete material	**13**	cy	130.00	1,690		
80		placing concrete	**13**	cy	60.00	780		
81		Slab @ elevator pit						
82		formwork	**120**	sf	12.00	1,440		
83		reinforcement	**1,500**	lbs.	1.20	1,800		
84		concrete material in slab	**14**	cy	130.00	1,820		
85		placing concrete	**14**	cy	60.00	840		
86		Miscellaneous						
87		Moisture Mitigation; admixture	**2,337**	cy	70.00	163,590		
88		Neutralization pit	**1**	loc	4,000.00	4,000		
89		Grease interceptor pit	**1**	loc	2,500.00	2,500		
90		Equipment pads	**1**	ls	15,000.00	15,000		
91								
92	*070001*	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
93		Bentonite water stops	**1**	ls	500.00	500		
94		Cementitious waterproofing to elevator pit	**680**	sf	16.00	10,880		
95								
96	*072100*	*THERMAL INSULATION*						
97		Rigid insulation	**144,460**	sf	2.25	325,035		
98								
99	*312000*	*EARTHWORK*						
100		Slab on grade						
101		Structural fill, 8"	**3,585**	cy	32.00	114,720		
102		Gravel fill, 8"	**3,585**	cy	36.00	129,060		
103		Compact existing sub-grade	**144,460**	sf	0.50	72,230		
104		Over excavation of unsuitable soils, store onsite for reuse	**58,854**	cy	9.00	529,686		
105		Structural fill to replace unsuitables; rework existing including crushing large boulders	**58,854**	cy	20.00	1,177,080		
106		Premium for gravel fill supplement, 20%	**11,771**	cy	36.00	423,756		

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NEW BUILDING							
	Underslab drainage, per geotech report at North	**40,000**	sf	3.00	120,000		
	Elevator Pit						
	Excavation for elevator pit	**168**	cy	16.00	2,688		
	Store for re-use	**168**	cy	8.00	1,344		
	Backfill with imported material	**8**	cy	28.00	224		
	SUBTOTAL					4,139,721	
	TOTAL - FOUNDATIONS						**$8,530,850**
A20	***BASEMENT CONSTRUCTION***						
A2010	**BASEMENT EXCAVATION**						
	No Work in this section						
	SUBTOTAL						
A2020	**BASEMENT WALLS**						
	No Work in this section						
	SUBTOTAL						
	TOTAL - BASEMENT CONSTRUCTION						
B10	***SUPERSTRUCTURE***						
		13.72	lbs/sf		-		
B1010	**FLOOR CONSTRUCTION**	2,663	tns		-		
033000	*CONCRETE*						
	WWF reinforcement	**280,246**	sf	0.85	238,209		
	Concrete topping to metal decking, 5 1/4" thick; Light weight	**4,146**	cy	160.00	663,360		
	Place and finish concrete	**243,692**	sf	2.15	523,938		
	Rebar to decks	**73,108**	lbs	1.20	87,730		
	Moisture mitigation admixture				NR		
	Allowance for tiered seating at seminar	**200**	lfr	150.00	30,000		
051200	*STRUCTURAL STEEL FRAMING*						
	Beams / Columns / Bracing, 13#/sf	**1,537**	tns	3,400.00	5,225,800		
	Beams / Columns / Bracing to support timber framing, 12#/SF	**44**	tns	3,400.00	149,600		
	Premium for HSS	**395**	tns	250.00	98,750		
	Metal floor decking; 2", 20 gage	**243,692**	sf	3.75	913,845		
	Shear studs	**48,738**	ea	3.80	185,204		
	Miscellaneous						
	Allowance for beam penetrations	**1**	ls	50,000.00	50,000		
061000	*ROUGHCARPENTRY*						
	Atrium floors - Glu-lam and engineered wood beams, girders and columns	**7,280**	sf	55.00	400,400		
078400	*FIREPROOFING/FIRESTOPPING*						
	Spray-applied fireproofing to beams and columns	**243,692**	sf	2.50	609,230		
	Fire stopping	**1**	ls	50,000.00	50,000		
	SUBTOTAL					9,226,066	

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NEW BUILDING							
B1020	**ROOF CONSTRUCTION**						
033000	*CONCRETE*						
	WWF reinforcement	**23,000**	sf	0.85	19,550		
	Place and finish concrete	**20,000**	sf	2.25	45,000		
	Rebar to decks	**6,000**	lbs	1.20	7,200		
051200	*STRUCTURAL STEEL FRAMING*						
	Beams / Columns / Bracing, 13#/sf	**1,049**	tns	3,400.00	3,566,600		
	Beams / Columns / Bracing to support timber framing, 8#/SF	**33**	tns	3,400.00	112,200		
	Premium for HSS	**271**	tns	250.00	67,750		
	1 1/2" Metal galvanized roof deck	**161,459**	sf	3.50	565,107		
	3" Type N Metal galvanized roof deck	**8,355**	sf	5.00	41,775		
	Premium for acoustic deck	**3,700**	sf	6.00	22,200		
	Miscellaneous						
	Steel support for roof screens, allow	**1**	ls	50,000.00	50,000		
	Connect to existing Athletic Building	**1**	ls	50,000.00	50,000		
	Dunnage	**15**	tns	5,000.00	75,000		
061000	*ROUGHCARPENTRY*						
	Atrium roof - Glu-lam timber beams on pre-engineered timber columns	**8,355**	sf	55.00	459,525		
078400	*FIREPROOFING/FIRESTOPPING*						
	Spray-applied fireproofing to beams and deck	**161,459**	sf	3.00	484,377		
	Intumescent paint to exposed beams	**1**	ls	50,000.00	50,000		
	SUBTOTAL					5,616,284	
	TOTAL - SUPERSTRUCTURE						**$14,842,350**
B20	***EXTERIOR CLOSURE***	*185,640*	*sf*				
B2010	**EXTERIOR WALLS**	*136,749*	*sf*		-		
040001	*MASONRY*						
	Brick, including detailing	**77,975**	sf	38.00	2,963,050		
	Brick at main entry w/ intensive detailing	**1,580**	sf	45.00	71,100		
	Brick pier	**8,565**	sf	42.00	359,730		
	Granite block veneer	**17,935**	sf	60.00	1,076,100		
	Precast concrete watertable sill	**1,270**	lf	52.00	66,040		
	Precast concrete banding/sill	**2,630**	lf	52.00	136,760		
	Precast concrete window head	**3,170**	lf	48.00	152,160		
	Precast concrete window surround	**384**	lf	60.00	23,040		
	Precast concrete window head, curved	**240**	lf	60.00	14,400		
	Staging/lifts to exterior wall	**185,640**	sf	2.50	464,100		
052000	*MISC. METALS*						
	Misc. metals at masonry	**106,055**	sf	1.50	159,083		
070001	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
	Air and vapor barrier	**136,749**	sf	6.00	820,494		

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	NEW BUILDING							
210		AVB at window openings	**22,147**	lf	4.00	88,588		
211		Miscellaneous sealants	**185,640**	sf	0.50	92,820		
212		AVB at columns	**7,913**	sf	8.00	63,304		
213		AVB at soffits	**6,460**	sf	8.00	51,680		
214								
215	*072100*	*THERMAL INSULATION*						
216		2" rigid insulation	**136,749**	sf	3.00	410,247		
217		1-1/2" Spay insulation	**136,749**	sf	2.75	376,060		
218		Insulation at window openings	**22,147**	lf	6.00	132,882		
219		Insulation at columns	**7,913**	sf	5.00	39,565		
220		Insulation at soffits	**6,460**	sf	5.00	32,300		
221								
222	*074600*	*WALL PANELS*						
223		Fiberglass panels	**3,700**	sf	55.00	203,500		
224		Fiberglass architrave	**2,780**	sf	60.00	166,800		
225		Fiberglass banding	**1,010**	sf	55.00	55,550		
226		Fiberglass cornice, 3' -5' deep face	**13,785**	sf	65.00	896,025		
227		Fiberglass entablature	**6,384**	sf	60.00	383,040		
228		Fiberglass entries 2A and 2B	**1,660**	sf	60.00	99,600		
229		Fiberglass pier	**1,375**	sf	55.00	75,625		
230		Fiberglass base at piers	**161**	ea	100.00	16,100		
231		Fiberglass capital at piers	**139**	ea	100.00	13,900		
232		Fiberglass columns	**4,520**	sf	70.00	316,400		
233		Fiberglass columns, round	**3,393**	sf	90.00	305,370		
234		Fiberglass to underside of soffits	**6,460**	sf	55.00	355,300		
235		Fiberglass clock tower w/ asphalt roof	**1**	ls	175,000.00	175,000		
236								
237	*074210*	*METAL WALL PANELS*						
238		Roof screen at RTU's, allow	**1,000**	sf	50.00	50,000		
239								
240	*092900*	*GYPSUM BOARD ASSEMBLIES*						
241		Exterior gypsum sheathing	**136,749**	sf	2.50	341,873		
242		10" metal stud	**136,749**	sf	14.00	1,914,486		
243		GWB lining, 5/8"	**136,749**	sf	3.25	444,434		
244		Framing for columns	**7,913**	sf	14.00	110,782		
245		Framing at soffits	**6,460**	sf	14.00	90,440		
246								
247	*101400*	*SIGNAGE*						
248		Exterior signage	**1**	ls	20,000.00	20,000		
249		SUBTOTAL					13,627,728	
250								
251	**B2020**	**WINDOWS**	*48,891*	*sf*		-		
252								
253	*061000*	*ROUGH CARPENTRY*						
254		Wood blocking at openings	**22,147**	lf	12.00	265,764		
255								
256	*070001*	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
257		Backer rod & double sealant	**22,147**	lf	9.00	199,323		
258								
259	*080001*	*WINDOWS*						

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NEW BUILDING							
	Aluminum windows	**28,205**	sf	95.00	2,679,475		
	Sun shades, allowance	**1**	ls	100,000.00	100,000		
084413	*CURTAIN WALL SYSTEMS*						
	Curtainwall	**20,686**	sf	115.00	2,378,890		
089000	*LOUVERS*						
	Louvers allowance	**100**	sf	55.00	5,500		
	SUBTOTAL					5,628,952	
B2030	**EXTERIOR DOORS**						
061000	*ROUGH CARPENTRY*						
	Wood blocking at openings	**731**	lf	4.00	2,924		
079200	*JOINT SEALANTS*						
	Backer rod & double sealant	**731**	lf	9.00	6,579		
081113	*HOLLOW METAL DOOR FRAMES*						
	Hollow metal door leaf	**2**	ea	400.00	800		
	Frames, double	**1**	ea	600.00	600		
083300	*OVERHEAD DOOR*						
	10'-0" x 10'-0", aluminum/glass	**2**	ea	15,000.00	30,000		
084110	*ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS*						
	Glazed aluminum entrance doors including frame and hardware; single	**3**	ea	4,100.00	12,300		
	Glazed aluminum entrance doors including frame and hardware; double	**33**	pr	8,200.00	270,600		
087100	*DOOR HARDWARE*						
	Hardware to HM doors	**2**	ea	1,100.00	2,200		
	SUBTOTAL					326,003	
	TOTAL - EXTERIOR CLOSURE						**$19,582,683**
B30	***ROOFING***						
B3010	**ROOF COVERINGS**						
055000	*MISC. METALS*						
	Roof ladder allowance	**5**	ea	2,500.00	12,500		
061000	*ROUGH CARPENTRY*						
	Rough blocking at roofing	**12,840**	lf	8.00	102,720		
070002	*ROOFING AND FLASHING*						
	Flat roof						
	White PVC Roofing system	**137,170**	sf	15.50	2,126,135		
	Premium for tapered roof insulation	**20,576**	sf	3.50	72,016		
	Sloped roof						

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
	Asphalt shingles	**32,644**	sf	11.00	359,084		
	Underlayment	**32,644**	sf	1.50	48,966		
	Nailable insulation	**32,644**	sf	8.00	261,152		
	Miscellaneous Roofing						
	Gutters	**450**	lf	40.00	18,000		
	Downspouts	**720**	lf	45.00	32,400		
	Planetarium roof w/ observatory dome, 18' diameter; includes electrical operation	**1**	ls	150,000.00	150,000		
	Factory fabricated fascia trim roof edge	**4,280**	lf	25.00	107,000		
	Air/Vapor barrier at roof edges	**4,280**	lf	8.00	34,240		
	Membrane roof walkway pads	**1**	ls	20,000.00	20,000		
	SUBTOTAL					3,344,213	
B3020	**ROOF OPENINGS**						
	Elevator PH and vent	**2**	ea	3,000.00	6,000		
	Roof hatches	**2**	ea	3,900.00	7,800		
	SUBTOTAL					13,800	
	TOTAL - ROOFING						**$3,358,013**
C10	***INTERIOR CONSTRUCTION***						
C1010	**PARTITIONS**						
040001	*MASONRY*						
	8" CMU at elevator, stairs, gang bathrooms	**29,348**	sf	24.00	704,352		
	6" CMU	**15,560**	sf	22.00	342,320		
050001	*MISCELLANEOUS METALS*						
	Seismic clips to CMU	**767**	ea	130.00	99,710		
	Miscellaneous metals to CMU	**30,115**	sf	1.50	45,173		
061000	*ROUGH CARPENTRY*						
	Rough blocking	**24,071**	lf	6.00	144,426		
070001	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
	Miscellaneous sealants at partitions	**381,908**	sf	0.50	190,954		
080002	*GLASS AND GLAZING*						
	Interior curtainwall	**7,995**	sf	100.00	799,500		
	Interior storefront	**5,380**	sf	65.00	349,700		
	Glazing at stairs	**360**	sf	65.00	23,400		
	Borrowed lights - glazing	**2,100**	sf	35.00	73,500		
	Operable glass wall at Art rooms	**600**	sf	190.00	114,000		
	Operable glass wall at Culinary arts	**500**	sf	190.00	95,000		
	Operable glass wall at Campus store	**180**	sf	190.00	34,200		
	Frameless sliding glass door and wall system at Small group/Resource rooms	**6,368**	sf	100.00	636,800		
081110	*HOLLOW METAL DOOR FRAMES*						
	Borrowed light frames	**2,100**	sf	30.00	63,000		

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NEW BUILDING							
092900	*GYPSUM BOARD ASSEMBLIES*						
	Standard - 3 5/8" metal stud w/ 2 layers 5/8" b/s; acoustic batt insulation.	**96,280**	sf	11.50	1,107,220		
	Demising - 6" metal stud w/ 2 layers 5/8" b/s; acoustic batt insulation	**84,140**	sf	16.50	1,388,310		
	Corridor - 2 layers 3-5/8" metal stud w/ 1 layer 5/8" both sides, mineral wool insulation in both studs (corridor side -impact resistant GWB)	**141,080**	sf	18.00	2,539,440		
	Music - 2 layers 3-5/8" metal stud w/ 2 layer 5/8" both sides, acoustical insulation in both studs	**8,880**	sf	21.00	186,480		
	Plumbing chase	**4,240**	sf	16.00	67,840		
	Shaft- 2 1/2"C-H stud w/ 1" shaft liner panel one side and 2 layer 5/8" gwb on the other side	**2,380**	sf	10.25	24,395		
	Miscellaneous drywall; column enclosures, furred walls not shown etc.	**388,152**	gsf	5.00	1,940,760		
102226	*OPERABLE PARTITIONS*						
	Operable partition at ROTC/Maker Lab	**680**	sf	65.00	44,200		
	SUBTOTAL					11,014,680	
C1020	**INTERIOR DOORS**						
061000	*ROUGH CARPENTRY*						
	Wood blocking at openings	**9,740**	lf	4.00	38,960		
070001	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
	Backer rod & double sealant	**9,740**	lf	5.00	48,700		
080002	*GLASS AND GLAZING*						
	Sidelights - glazing	**4,452**	sf	35.00	155,820		
081110	*HOLLOW METAL DOOR FRAMES*						
	Hollow metal Frames, single	**486**	ea	450.00	218,700		
	Hollow metal Frames, double	**41**	ea	600.00	24,600		
	Sidelight frames	**4,452**	sf	30.00	133,560		
081400	*WOOD DOORS*						
	Wood door	**568**	ea	500.00	284,000		
083110	*ACCESS DOORS AND FRAMES*						
	Access doors	**1**	ls	5,000.00	5,000		
083300	*OVERHEAD DOOR*						
	Grilles at cafeteria	**1**	ls	20,000.00	20,000		
084110	*ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS*						
	Glazed aluminum doors including frame and hardware, single door fire rated	**14**	ea	4,000.00	56,000		
	Glazed aluminum doors including frame and hardware, double door	**21**	pr	8,000.00	168,000		
087100	*DOOR HARDWARE*						
	Hardware to doors	**568**	set	825.00	468,600		
	Acoustical Gasketing	**1**	ls	15,000.00	15,000		
090007	*PAINTING*						

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	NEW BUILDING							
408		Finish doors and frames	**568**	ea	160.00	90,880		
409		SUBTOTAL					1,727,820	
410								
411	**C1030**	**SPECIALTIES / MILLWORK**						
412								
413	*055000*	*MISCELLANEOUS METALS*						
414		Rail support for elevator cabs	**2**	loc	3,000.00	6,000		
415		Guardrail at areas open to below	**840**	lf	250.00	210,000		
416		Miscellaneous metals throughout building	**388,152**	gsf	1.25	485,190		
417								
418	*061000*	*ROUGH CARPENTRY*						
419		Backer panels in electrical closets	**1**	ls	1,500.00	1,500		
420		Wood blocking at interiors	**388,152**	gsf	0.50	194,076		
421								
422	*064020*	*INTERIOR ARCHITECTURAL WOODWORK*						
423		Window sill	**5,537**	lf	45.00	249,165		
424		Circulation desk at media center	**1**	ls	25,000.00	25,000		
425		Custom circular computer center	**1**	ls	25,000.00	25,000		
426		Custom news desk at TV studio	**1**	ls	7,500.00	7,500		
427		Desk at General Office	**1**	ls	5,000.00	5,000		
428		Desk at Guidance	**1**	ls	5,000.00	5,000		
429		Display cases, allow	**1**	ls	75,000.00	75,000		
430		Wood paneling/trim/acoustic panels	**1**	ls	350,000.00	350,000		
431		Wood at beams, allow	**1**	ls	100,000.00	100,000		
432								
433	*070001*	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
434		Miscellaneous sealants throughout building	**388,152**	sf	1.00	388,152		
435								
436	*101100*	*VISUAL DISPLAY SURFACES*						
437		Tack Board/Markerboard; assumed no magnetic wall board surfacing	**388,152**	gsf	1.50	582,228		
438								
439	*101400*	*SIGNAGE*						
440		Building directory	**1**	loc	3,000.00	3,000		
441		Room Signs	**562**	loc	120.00	67,440		
442		Other signage/graphics	**1**	ls	500,000.00	500,000		
443								
444	*102110*	*TOILET COMPARTMENTS*						
445		ADA	**24**	ea	1,600.00	38,400		
446		Standard	**59**	ea	1,200.00	70,800		
447		Urinal screen	**17**	ea	550.00	9,350		
448		Curtains at medical assisting	**10**	ea	800.00	8,000		
449		Curtains at exam room	**1**	ls	5,000.00	5,000		
450								
451	*102800*	*TOILET ACCESSORIES*						
452		Gang bathroom	**18**	rms	3,000.00	54,000		
453		Single bathroom	**55**	rms	900.00	49,500		
454		Janitors Closet Accessories	**3**	rms	600.00	1,800		
455		Custodian work room accessories	**1**	rms	1,500.00	1,500		
456								
457	*104400*	*FIRE PROTECTION SPECIALTIES*						
458		Fire extinguisher cabinets	**129**	ea	350.00	45,150		
459								
460	*105113*	*LOCKERS*						

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NEW BUILDING							
	Single tier sloped top lockers at kitchen and culinary	**30**	opn	240.00	7,200		
	Lockers at Cosmetology	**32**	opn	240.00	7,680		
	SUBTOTAL					3,577,631	
	TOTAL - INTERIOR CONSTRUCTION						**$16,320,131**
C20	***STAIRCASES***						
C2010	**STAIR CONSTRUCTION**						
033000	*CONCRETE*						
	Concrete fill to stairs	**14**	flt	2,500.00	35,000		
055000	*MISCELLANEOUS METALS*						
	Main lobby staircase	**2**	flt	65,000.00	130,000		
	Egress stairs, including railings	**10**	flt	40,000.00	400,000		
	Egress stairs, including railings, Stair 3	**2**	flt	30,000.00	60,000		
	Roof access ladders	**2**	ea	5,000.00	10,000		
	SUBTOTAL					635,000	
C2020	**STAIR FINISHES**						
090005	*RESILIENT FLOORS*						
	Rubber treads to stair	**1,554**	lfr	22.00	34,188		
	Rubber to stair landing	**2,500**	sf	14.00	35,000		
090007	*PAINTING*						
	High performance coating to stairs including all railings etc.	**14**	flt	5,000.00	70,000		
096810	*TERRAZZO*						
	Stair treads	**294**	lf	120.00	35,280		
	Stair landings	**300**	sf	50.00	15,000		
	SUBTOTAL					189,468	
	TOTAL - STAIRCASES						**$824,468**
C30	***INTERIOR FINISHES***						
C3010	**WALL FINISHES**						
040001	*MASONRY*						
	Brick veneer	**3,700**	sf	35.00	129,500		
090002	*TILE*						
	Porcelain tile at corridors, 6' high	**40,000**	sf	22.00	880,000		
	Porcelain tile at bathrooms	**2,715**	sf	24.00	65,160		
	Porcelain tile at kitchen	**2,817**	sf	24.00	67,608		
	Porcelain tile at culinary	**5,661**	sf	24.00	135,864		
	Ceramic tile at kitchen/scramble serving area	**2,250**	sf	22.00	49,500		
090007	*PAINTING*						
	Paint to walls	**746,627**	sf	0.80	597,302		
	Premium for epoxy paint	**1**	ls	50,000.00	50,000		

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NEW BUILDING							
	SUBTOTAL					1,974,934	
C3020	**FLOOR FINISHES**						
033000	*CONCRETE*						
	Polished Concrete	**1,895**	sf	12.00	22,740		
090002	*TILE*						
	Porcelain tile to bathrooms	**10,495**	sf	23.00	241,385		
	Porcelain Tile at Kitchen/Culinary/Scramble	**13,450**	sf	23.00	309,350		
	Porcelain tile base	**3,845**	lf	23.00	88,435		
	Tile base at kitchen/Culinary/Scramble	**1,915**	lf	23.00	44,045		
090005	*RESILIENT FLOORS*						
	VCT	**171,597**	sf	3.90	669,228		
	Sheet vinyl	**49,710**	sf	8.00	397,680		
	Sheet linoleum	**49,685**	sf	7.00	347,795		
	Rubber flooring	**5,800**	sf	12.00	69,600		
	Static control resilient flooring	**2,385**	sf	6.00	14,310		
	Premium adhesive	**315,517**	sf	1.00	315,517		
	Rubber Base	**59,620**	lf	2.80	166,936		
096810	*TILE CARPETING*						
	Carpet tile	**36,340**	sf	5.33	193,692		
090007	*PAINTING*						
	Epoxy painted concrete	**7,980**	sf	2.00	15,960		
	SUBTOTAL					2,896,673	
C3030	**CEILING FINISHES**						
062000	*ARCHITERTURAL WOODWORK*						
	Wood at beams, allow	**1**	ls	100,000.00	100,000		
090003	*ACOUSTICAL TILE*						
	ACT 2 x 2, 2 x 4	**315,517**	sf	6.00	1,893,102		
	ACT, washable	**13,450**	sf	6.50	87,425		
092900	*GYPSUM BOARD ASSEMBLIES*						
	GWB ceilings in toilet rooms	**10,495**	sf	14.00	146,930		
	GWB soffits, allow	**1**	ls	250,000.00	250,000		
090007	*PAINTING*						
	Paint GWB ceilings	**10,495**	sf	1.25	13,119		
	Paint to exposed ceilings	**9,875**	sf	1.50	14,813		
095700	*SPECIAL FUNCTION CEILING*						
	29'-0" diameter fiberglass dome at Planetarium	**1**	ea	40,000.00	40,000		
	SUBTOTAL					2,545,389	
	TOTAL - INTERIOR FINISHES						**$7,416,996**

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NEW BUILDING							
	D10 CONVEYING SYSTEMS						
D1010	**ELEVATOR**						
	Passenger elevator, 3 stop, 1 opening; 3500 lbs; 120 fpm	**2**	ea	135,000.00	270,000		
	6 x 4 x 3/8 angle to elevator pit	**30**	lf	25.00	750		
	Pit ladders	**1**	ea	650.00	650		
	Sill angles	**30**	lf	25.00	750		
	SUBTOTAL					272,150	
	TOTAL - CONVEYING SYSTEMS						**$272,150**
	D20 PLUMBING						
D20	**PLUMBING, GENERALLY**						
	Equipment						
	Gas fired domestic HW heater 800,000 BTUH	**2**	ea	32,000.00	64,000		
	Rough-in & connection to kitchen equipment	**1**	ls	50,000.00	50,000		
	Plumbing equipment	**388,152**	sf	2.00	776,304		
	Plumbing Fixtures & Specialties						
	Water closet	**137**	ea	1,200.00	164,400		
	Lavatory	**108**	ea	975.00	105,300		
	Urinal	**28**	ea	1,400.00	39,200		
	Miscellaneous plumbing fixtures	**388,152**	sf	1.00	388,152		
	Domestic Water Type L Copper Pipe						
	Domestic water pipe with fittings & hangers	**388,152**	sf	2.50	970,380		
	Domestic water pipe insulation	**388,152**	sf	1.50	582,228		
	Non-Potable Water Type L Copper Pipe						
	Non-potable water pipe with fittings & hangers	**388,152**	sf	0.25	97,038		
	Non-potable water pipe insulation	**388,152**	sf	0.15	58,223		
	Sanitary Waste And Vent Pipe w/ Hangers						
	Sanitary waste pipe with fittings & hangers	**388,152**	sf	2.25	873,342		
	Kitchen waste pipe with fittings & hangers	**388,152**	sf	0.30	116,446		
	Acid Waste And Vent Pipe w/ Hangers						
	Acid waste & vent pipe with fittings & hangers	**388,152**	sf	0.50	194,076		
	Storm Drainage, Hubless Cast Iron Pipe						
	Storm water pipe with fittings & hangers	**388,152**	sf	1.25	485,190		
	Pipe insulation on horizontal runs	**388,152**	sf	0.20	77,630		
	Gas And Fuel Distribution Pipe						
	Gas pipe with fittings & hangers	**388,152**	sf	0.50	194,076		
	Miscellaneous						
	Coordination & BIM	**1**	ls	151,000.00	151,000		
	Coring, sleeves & fire stopping	**1**	ls	15,000.00	15,000		
	Commissioning support	**1**	ls	30,000.00	30,000		
	Testing and sterilization	**1**	ls	10,000.00	10,000		
	Fees & permits	**1**	ls	50,000.00	50,000		
	SUBTOTAL					5,491,985	
	TOTAL - PLUMBING						**$5,491,985**

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NEW BUILDING							
D30	***HVAC***						
D30	**HVAC, GENERALLY**						
	HVAC Equipment						
	Gas fired HW boiler 6000 MBH	**4**	ea	78,000.00	312,000		
	Water cooled chiller 500 ton	**2**	ea	425,000.00	850,000		
	Cooling tower 500 ton	**2**	ea	62,500.00	125,000		
	HVAC equipment	**388,152**	sf	1.50	582,228		
	Pumps						
	Pumps	**388,152**	sf	0.25	97,038		
	Air distribution						
	Air distribution equipment	**388,152**	sf	10.50	4,075,596		
	Exhaust fans	**388,152**	sf	0.50	194,076		
	Sheet metal & Accessories						
	Sheet metal & accessories	**292,000**	lbs	9.50	2,774,000		
	Black welded steel duct & accessories	**5,000**	lbs	14.00	70,000		
	Duct insulation	**175,000**	sf	4.00	700,000		
	Piping						
	Hot Water Piping						
	Hot water piping with fittings & hangers	**388,152**	sf	3.00	1,164,456		
	Chilled Water Piping						
	Chilled water piping with fittings & hangers	**388,152**	sf	1.00	388,152		
	Condenser Water Piping						
	Condenser water piping with fittings & hangers	**388,152**	sf	0.25	97,038		
	Refrigerant Piping						
	Refrigerant piping with fittings & hangers	**388,152**	sf	0.15	58,223		
	Condensate Drain Piping						
	Condensate drain piping with fittings & hangers	**388,152**	sf	0.25	97,038		
	Piping Insulation						
	Piping insulation	**388,152**	sf	2.00	776,304		
	Automatic Temperature Controls						
	Automatic temperature controls DDC	**388,152**	sf	5.00	1,940,760		
	Balancing						
	System testing & balancing	**388,152**	sf	0.75	291,114		
	Miscellaneous						
	Coordination & BIM	**1**	ls	300,000.00	300,000		
	Commissioning support	**1**	ls	75,000.00	75,000		
	Coring, sleeves & fire stopping	**1**	ls	30,000.00	30,000		
	Equipment start-up and inspection	**1**	ls	5,000.00	5,000		
	Rigging & equipment rental	**1**	ls	85,000.00	85,000		
	Vibration & seismic restraints	**1**	ls	65,000.00	65,000		
	SUBTOTAL					15,153,023	
	TOTAL - HVAC						**$15,153,023**
D40	***FIRE PROTECTION***						
D40	**FIRE PROTECTION, GENERALLY**						
	Equipment & valves	**388,152**	sf	0.75	291,114		

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NEW BUILDING							
	Sprinkler heads	**3,000**	ea	75.00	225,000		
	Distribution piping with fittings & hangers	**24,000**	lf	22.00	528,000		
	Main sprinkler piping and standpipes	**12,000**	lf	26.00	312,000		
	Standpipes with fittings & hangers	**3,300**	lf	36.00	118,800		
	Atrium glass washing sprinkler system	**1**	ls	75,000.00	75,000		
	Miscellaneous						
	Glass washing fire protection at stairs	**4**	loc	15,000.00	60,000		
	Coordination & BIM	**1**	ls	44,000.00	44,000		
	Hydraulic calculations	**1**	ls	10,000.00	10,000		
	Coring, sleeves & fire stopping	**1**	ls	20,000.00	20,000		
	Shop drawings	**1**	ls	3,500.00	3,500		
	Commissioning of system	**1**	ls	12,000.00	12,000		
	Fees & permits	**1**	ls	15,000.00	15,000		
	SUBTOTAL					1,714,414	
	TOTAL - FIRE PROTECTION						**$1,714,414**
D50	***ELECTRICAL***						
D5010	**SERVICE & DISTRIBUTION**						
	Gear & Distribution						
	Normal Power						
	5000A Normal power gear and distribution including feeders	**388,152**	gsf	4.00	1,552,608		
	Auto receptacle control (50%)	**388,152**	gsf	0.20	77,630		
	Emergency power						
	300kW generator in WP sound attenuated enclosure	**1**	ea	135,000.00	135,000		
	Emergency power ATS; panelboards and feeders	**388,152**	gsf	3.00	1,164,456		
	Equipment Wiring						
	Equipment wiring	**388,152**	gsf	2.00	776,304		
	SUBTOTAL					3,705,998	
D5020	**LIGHTING & POWER**						
	Lighting & Branch Power						
	Allowance for lighting fixtures and installation	**388,152**	gsf	5.50	2,134,836		
	Lighting controls						
	Lighting controls system	**388,152**	gsf	1.20	465,782		
	Branch Devices						
	Branch devices	**388,152**	gsf	0.50	194,076		
	Lighting and Branch Circuitry						
	Lighting and branch circuitry	**388,152**	gsf	6.00	2,328,912		
	SUBTOTAL					5,123,606	
D5030	**COMMUNICATION & SECURITY SYSTEMS**						
	Fire alarm						
	Fire Alarm system	**388,152**	gsf	2.00	776,304		
	Bi-Directional Amplification system	**388,152**	gsf	0.50	194,076		
	Tel/Data						
	Network switches & phone system	**1**	ls	1,300,000.00	By owner		
	Rough-in with conduit and back boxes	**388,152**	gsf	1.20	465,782		

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Durfee High School
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Schematic Design Estimate GFA 388,152

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
	Building services (network connection, phone, TV, internet) allow	**1**	ls	150,000.00	150,000		
	IPTV allow	**1**	ls	150,000.00	150,000		
	Wireless allow	**1**	ls	300,000.00	300,000		
	Devices and cabling	**388,152**	gsf	1.50	582,228		
	Assistive Listening System						
	ASL system	**388,152**	gsf	0.50	194,076		
	Public Address/Clock System (proprietary)						
	PA System	**388,152**	gsf	1.50	582,228		
	Security System (proprietary)						
	Access control	**388,152**	gsf	0.75	291,114		
	Intrusion	**388,152**	gsf	0.75	291,114		
	CCTV	**388,152**	gsf	1.50	582,228		
	Audio Visual System						
	Classroom:						
	AV classrooms	**1**	ls	1,000,000.00	1,000,000		
	AV rough in	**388,152**	gsf	0.50	194,076		
	Cafeteria:						
	Cafeteria sound system	**2**	ls	25,000.00	50,000		
	AV rough in	**2**	ls	5,000.00	10,000		
	Seminar Room:						
	Seminar room sound system	**1**	ls	12,000.00	12,000		
	AV rough in	**1**	ls	2,000.00	2,000		
	TV Media Room:						
	TV production studio	**1**	ls	22,500.00	22,500		
	Allow for planetarium AV equipment	**1**	ls	50,000.00	50,000		
	Digital signage:						
	Digital signage display costs (proprietary) allow	**1**	ls	250,000.00	250,000		
	Rough-in, allow	**1**	ls	50,000.00	50,000		
	Allow for technology systems not yet defined	**1**	ls	1,000,000.00	1,000,000		
	SUBTOTAL					7,199,726	
D5040	**OTHER ELECTRICAL SYSTEMS**						
	Temp power and lights	**388,152**	gsf	0.40	155,261		
	PV system empty conduits	**1**	ls	20,000.00	20,000		
	Lightning protection	**388,152**	gsf	0.45	174,668		
	Identification	**1**	ls	5,000.00	5,000		
	Seismic restraints	**1**	ls	10,000.00	10,000		
	Fees & Permits	**1**	ls	150,000.00	150,000		
	SUBTOTAL					514,929	
	TOTAL - ELECTRICAL						**$16,544,259**
E10	***EQUIPMENT***						
E10	**EQUIPMENT, GENERALLY**						
110000	*EQUIPMENT*						
	Equipment for tv editing and production	**1**	ls	25,000.00	25,000		
	Kiln	**2**	ea	3,000.00	6,000		
	Shop/Tech equipment	**1**	ls	250,000.00	250,000		
	Science classrooms/Prep room equipment	**1**	ls	260,000.00	260,000		

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GFA 388,152

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW BUILDING							
	Equipment at central chemical storage	**1**	loc	20,000.00	20,000		
	Planetarium	**1**	ls	150,000.00	150,000		
	Residential appliances	**1**	ls	45,000.00	45,000		
	Lecture hall equipment - dimming, control, & performance fixtures - Allow	**1**	ls	30,000.00	30,000		
114000	*FOODSERVICE EQUIPMENT*						
	Kitchen & Servery Ground Floor	**1**	ls	713,055.00	713,055		
	Support Kitchen & Servery Upper Floor	**1**	ls	210,700.00	210,700		
	Culinary Program	**1**	ls	569,135.00	569,135		
115213	*PROJECTION SCREENS*						
	Projection screen, allow	**1**	ls	16,000.00	16,000		
	SUBTOTAL					2,294,890	
	TOTAL - EQUIPMENT						**$2,294,890**
E20	***FURNISHINGS***						
E2010	**FIXED FURNISHINGS**						
122100	*WINDOW TREATMENT*						
	Shades at interior glazing, manual (borrowed lights and sidelights)	**6,552**	sf	7.00	45,864		
	Roller shades, manual	**48,891**	sf	7.00	342,237		
	Automated shades, allow	**1**	ls	50,000.00	50,000		
123000	*CASEWORK*						
	Typical Classroom						
	TW 36"	**208**	ea	1,600.00	332,800		
	Base cabinet/plam countertop	**624**	lf	375.00	234,000		
	Wall cabinets	**624**	lf	220.00	137,280		
	Science classrooms						
	TW 36"	**52**	ea	1,600.00	83,200		
	Base cabinet/epoxy resin countertop	**1,768**	lf	420.00	742,560		
	Wall cabinets	**1,352**	lf	250.00	338,000		
	Demo desk	**26**	ea		NIC		
	Teacher Station	**26**	ea		NIC		
	Mobile lab station/Student table	**312**	ea		NIC		
	Science Prep						
	TW 36"	**56**	ea	1,600.00	89,600		
	Base cabinet/epoxy resin countertop	**126**	lf	420.00	52,920		
	Wall cabinets	**84**	lf	250.00	21,000		
	Ceramics/Sculpture						
	TW 36"	**6**	ea	1,600.00	9,600		
	Base cabinet/epoxy resin countertop	**50**	lf	420.00	21,000		
	Wall cabinets	**34**	lf	250.00	8,500		
	Art storage cabinets	**4**	ea	2,000.00	8,000		
	Music Suite						
	TW 36"	**13**	ea	1,600.00	20,800		

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GFA 388,152

	CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
		NEW BUILDING						
818		Base cabinet/plam countertop	**12**	lf	375.00	4,500		
819		Wall cabinets	**30**	lf	220.00	6,600		
820		P'lam work counter	**70**	lf	200.00	14,000		
821		Sheet music storage, Wenger	**22**	lf	600.00	13,200		
822		Music storage, Wenger	**105**	lf		NIC		
823		Teacher Planning						
824		Base cabinet/plam countertop	**72**	lf	375.00	27,000		
825		Wall cabinets	**28**	lf	220.00	6,160		
826		Open mailboxes	**48**	lf	300.00	14,400		
827		Cosmetology						
828		Base cabinet/plam countertop	**35**	lf	1,600.00	56,000		
829		Wall cabinets	**14**	lf	375.00	5,250		
830		Open display shelving	**8**	lf	150.00	1,200		
831		Hair wash stations	**10**	ea	875.00	8,750		
832		Styling cabinet	**16**	ea	875.00	14,000		
833		Base cabinet at facials	**8**	ea	875.00	7,000		
834		Open display shelving at facials	**8**	ea	525.00	4,200		
835		Open display shelving	**8**	lf	150.00	1,200		
836		Teaching stations	**20**	ea		NIC		
837		Manicure tables	**4**	ea		NIC		
838		Facial tables	**8**	ea		NIC		
839		Campus Store						
840		Counter/display	**15**	lf	600.00	9,000		
841		Storage cabinets/display	**30**	lf	400.00	12,000		
842		Nurse Suite						
843		Base cabinet/plam countertop	**87**	lf	375.00	32,625		
844		Wall cabinets	**34**	lf	220.00	7,480		
845		Art History						
846		Base cabinet/plam countertop	**21**	lf	375.00	7,875		
847		Wall cabinets	**21**	lf	220.00	4,620		
848		Career Center						
849		Base cabinet/plam countertop	**12**	lf	375.00	4,500		
850		Wall cabinets	**12**	lf	220.00	2,640		
851		Culinary						
852		TW 36"	**4**	ea	1,600.00	6,400		
853		Base cabinet/plam countertop	**22**	lf	375.00	8,250		
854		Wall cabinets	**22**	lf	220.00	4,840		
855		Design and Visual						
856		Base cabinet/plam countertop	**74**	lf	375.00	27,750		
857		Wall cabinets	**30**	lf	220.00	6,600		
858		Early Education						
859		TW 36"	**1**	ea	1,600.00	1,600		
860		Base cabinet/plam countertop	**118**	lf	375.00	44,250		
861		Wall cabinets	**10**	lf	220.00	2,200		
862		Student cubbies	**38**	lf	400.00	15,200		
863		Engineering/Tech						
864		TW 36"	**10**	ea	1,600.00	16,000		
865		Base cabinet/plam countertop	**45**	lf	375.00	16,875		

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
	Wall cabinets	**45**	lf	220.00	9,900		
	Environmental Science						
	TW 36"	**7**	ea	1,600.00	11,200		
	Base cabinet/epoxy resin countertop	**82**	lf	420.00	34,440		
	Wall cabinets	**46**	lf	250.00	11,500		
	General Office						
	TW 36"	**3**	ea	1,600.00	4,800		
	Guidance						
	Base cabinet/plam countertop	**8**	lf	375.00	3,000		
	Wall cabinets	**8**	lf	220.00	1,760		
	Health Assisting						
	TW 36"	**9**	ea	1,600.00	14,400		
	Base cabinet/plam countertop	**53**	lf	375.00	19,875		
	Wall cabinets	**20**	lf	220.00	4,400		
	Kitchen Break Room						
	Base cabinet/plam countertop	**8**	lf	375.00	3,000		
	Wall cabinets	**8**	lf	220.00	1,760		
	Language Lab						
	TW 36"	**3**	ea	1,600.00	4,800		
	Media Lab						
	TW 36"	**8**	ea	1,600.00	12,800		
	Base cabinet/plam countertop	**13**	lf	375.00	4,875		
	Wall cabinets	**13**	lf	220.00	2,860		
	Media/Library Suite						
	TW 36"	**3**	ea	1,600.00	4,800		
	ROTC Office and Storage						
	TW 36"	**8**	ea	1,600.00	12,800		
	Base cabinet/plam countertop	**8**	lf	375.00	3,000		
	Wall cabinets	**8**	lf	220.00	1,760		
	SPED						
	TW 36"	**14**	ea	1,600.00	22,400		
	Base cabinet/plam countertop	**181**	lf	375.00	67,875		
	Wall cabinets	**153**	lf	220.00	33,660		
	TV suite						
	TW 36"	**12**	ea	1,600.00	19,200		
	Base cabinet/plam countertop	**14**	lf	375.00	5,250		
	Wall cabinets	**14**	lf	220.00	3,080		
	Elevated platforms	**260**	sf	15.00	3,900		
	SUBTOTAL					3,274,621	
E2020	**MOVABLE FURNISHINGS**						
	All movable furnishings to be provided and installed by owner						
	SUBTOTAL					NIC	
	TOTAL - FURNISHINGS						**$3,274,621**
F10	***SPECIAL CONSTRUCTION***						
F10	**SPECIAL CONSTRUCTION**						

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Durfee High School
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Schematic Design Estimate

GFA 388,152

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	NEW BUILDING						
	No items in this section						
	SUBTOTAL						
	TOTAL - SPECIAL CONSTRUCTION						
F20	***SELECTIVE BUILDING DEMOLITION***						
F2010	**BUILDING ELEMENTS DEMOLITION**						
	See main summary for demolition of existing buildings						
	SUBTOTAL						
F2020	**HAZARDOUS COMPONENTS ABATEMENT**						
	Removal of Asbestos Containing Materials in existing building - Included in Summary						
	SUBTOTAL						
	TOTAL - SELECTIVE BUILDING DEMOLITION						

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Durfee High School
New School and Renovation
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PSR Estimate - OPTIONS 1D, 1E + 2B

GFA 28,703

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
PRE-ENGINEERED METAL BUILDING							
	GROSS FLOOR AREA CALCULATION						
	First Floor	26,078					
	Second Floor	2,625					
	TOTAL GROSS FLOOR AREA (GFA)				**28,703**	***sf***	
A10	***FOUNDATIONS***						
A1010	**STANDARD FOUNDATIONS**						
033000	*CONCRETE*						
	Strip Footings	*144*	*CY*				
	Foundation Walls	*158*	*CY*				
	Spread Footings	*149*	*CY*				
	Piers	*21*	*CY*				
	Total Foundation Concrete	*472*	*CY*				
	Strip footings						
	Formwork	**2,920**	sf	11.00	32,120		
	Re-bar	**15,450**	lbs.	1.20	18,540		
	Concrete material; 4,000 psi	**144**	cy	130.00	18,720		
	Placing concrete	**144**	cy	70.00	10,080		
	Foundation walls						
	Formwork	**6,080**	sf	12.50	76,000		
	Re-bar	**15,200**	lbs.	1.20	18,240		
	Concrete material; 4,000 psi	**158**	cy	130.00	20,540		
	Placing concrete	**158**	cy	70.00	11,060		
	Form shelf	**760**	lf	10.00	7,600		
	Spread Footings						
	Formwork	**2,554**	sf	12.00	30,648		
	Re-bar	**11,483**	lbs.	1.20	13,780		
	Concrete material; 4,000 psi	**149**	cy	130.00	19,370		
	Placing concrete	**149**	cy	70.00	10,430		
	Set anchor bolts grout plates	**53**	ea	150.00	7,950		
	Piers/Pilasters						
	Formwork	**733**	sf	14.00	10,262		
	Re-bar	**2,520**	lbs	1.20	3,024		
	Concrete material; 4,000 psi	**21**	cy	130.00	2,730		
	Placing concrete	**21**	cy	80.00	1,680		
070001	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
	Dampproofing at foundation walls	**4,560**	sf	3.00	NR		
072100	*THERMAL INSULATION*						
	Insulation	**3,040**	sf	3.00	9,120		
312000	*EARTHWORK*						
	Strip footings						
	Excavation	**1,374**	cy	15.00	20,610		
	Remove off site	**1,374**	cy	12.00	16,488		
	Backfill with imported material	**1,072**	cy	30.00	32,160		
	Spread footings						
	Excavation	**788**	cy	16.00	12,608		
	Remove off site	**788**	cy	12.00	9,456		

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PSR Estimate - OPTIONS 1D, 1E + 2B

GFA 28,703

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PRE-ENGINEERED METAL BUILDING						
	Backfill with imported material	**618**	cy	30.00	18,540		
	Miscellaneous						
	Gravel fill beneath footings, 12"	**259**	cy	30.00	7,770		
	Perimeter drain - not required	**475**	lf	22.00	10,450		
	Underslab E&B for plumbing	**1**	ls	5,000.00	5,000		
	Dewatering for foundation work	**1**	ls	10,000.00	10,000		
	SUBTOTAL					464,976	
A1020	**SPECIAL FOUNDATIONS**						
	No Work in this section						
	SUBTOTAL						
A1030	**LOWEST FLOOR CONSTRUCTION**						
033000	*CONCRETE*						
	Slab on grade, 5" thick	*26,078*	*sf*				
	Vapor barrier	**26,078**	sf	0.90	23,470		
	WWF reinforcement	**29,990**	sf	0.90	26,991		
	Concrete - 5" thick; 4,000 psi	**422**	cy	130.00	54,860		
	Placing concrete	**422**	cy	45.00	18,990		
	Finishing and curing concrete	**26,078**	sf	2.00	52,156		
	Sawcut full depth control joints	**26,078**	sf	0.20	5,216		
	Miscellaneous						
	Allowance for tiered seating at auditorium	**2,850**	sf	30.00	85,500		
	Moisture Mitigation; admixture	**422**	cy	70.00	29,540		
	New loading dock	**1**	ls	60,000.00	60,000		
	Equipment pads	**1**	ls	5,000.00	5,000		
072100	*THERMAL INSULATION*						
	Rigid insulation	**26,078**	sf	2.25	58,676		
312000	*EARTHWORK*						
	Slab on grade						
	Structural fill, 8"	**647**	cy	32.00	20,704		
	Gravel fill, 8"	**647**	cy	36.00	23,292		
	Compact existing sub-grade	**26,078**	sf	0.50	13,039		
	Over excavation of unsuitable soils, store onsite for reuse	**7,727**	cy	9.00	69,543		
	Structural fill to replace unsuitables; rework existing including crushing large boulders	**7,727**	cy	20.00	154,540		
	Premium for gravel fill supplement, 20%	**1,545**	cy	36.00	55,620		
	Underslab drainage, per geotech report	**26,078**	sf	3.00	78,234		
	SUBTOTAL					835,371	
	TOTAL - FOUNDATIONS						**$1,300,347**
A20	***BASEMENT CONSTRUCTION***						
A2010	**BASEMENT EXCAVATION**						
	No Work in this section						
	SUBTOTAL						
A2020	**BASEMENT WALLS**						

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PSR Estimate - OPTIONS 1D, 1E + 2B

GFA 28,703

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
PRE-ENGINEERED METAL BUILDING							
	No Work in this section						
	SUBTOTAL						
	TOTAL - BASEMENT CONSTRUCTION						
B10	***SUPERSTRUCTURE***						
B1010	**FLOOR CONSTRUCTION**						
033000	*CONCRETE*						
	WWF reinforcement	**3,019**	sf	0.85	2,566		
	Concrete topping to metal decking, 5 1/4" thick; Light weight	**45**	cy	160.00	7,200		
	Place and finish concrete	**2,625**	sf	2.25	5,906		
	Rebar to decks	**788**	lbs	1.20	946		
	Moisture mitigation admixture	**45**	cy	70.00	3,150		
051200	*STRUCTURAL STEEL FRAMING*						
	Beams / Columns / Bracing	**17**	tns	3,400.00	57,800		
	Premium for HSS	**4**	tns	250.00	1,000		
	Metal floor decking; 2", 20 gage	**2,625**	sf	4.00	10,500		
	Shear studs	**525**	ea	3.80	1,995		
	Miscellaneous						
	Allowance for tiered seating at auditorium	**2,180**	sf	20.00	43,600		
	Allowance for beam penetrations	**1**	ls	5,000.00	5,000		
078400	*FIREPROOFING/FIRESTOPPING*						
	Spray-applied fireproofing to beams and columns	**2,625**	sf	2.50	6,563		
	Fire stopping	**1**	ls	5,000.00	5,000		
	SUBTOTAL					151,226	
B1020	**ROOF CONSTRUCTION**						
078400	*FIREPROOFING/FIRESTOPPING*						
	Spray-applied fireproofing to beams and deck	**2,625**	sf	3.00	7,875		
	Intumescent paint to exposed beams	**1**	ls	20,000.00	20,000		
	SUBTOTAL					27,875	
	TOTAL - SUPERSTRUCTURE						**$179,101**
B20	***EXTERIOR CLOSURE***						
B2010	**EXTERIOR WALLS**						
	See Special Construction						
	SUBTOTAL						
B2020	**WINDOWS**						
061000	*ROUGH CARPENTRY*						
	Wood blocking at openings	**195**	lf	14.00	2,730		
070001	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
	Backer rod & double sealant	**195**	lf	9.00	1,755		

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PSR Estimate - OPTIONS 1D, 1E + 2B

GFA 28,703

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PRE-ENGINEERED METAL BUILDING						
080001	*WINDOWS*						
	Aluminum windows	**400**	sf	90.00	36,000		
089000	*LOUVERS*						
	Louvers	**50**	sf	60.00	3,000		
	SUBTOTAL					$43,485	
B2030	**EXTERIOR DOORS**						
061000	*ROUGH CARPENTRY*						
	Wood blocking at openings	**243**	lf	4.00	972		
079200	*JOINT SEALANTS*						
	Backer rod & double sealant	**243**	lf	9.00	2,187		
081113	*HOLLOW METAL DOOR FRAMES*						
	Hollow metal door, frame and hardware						
	Double	**3**	pr	450.00	1,350		
084110	*ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS*						
	Glazed aluminum entrance doors including frame and hardware; double	**1**	pr	8,200.00	8,200		
	Glazed aluminum entrance doors including frame and hardware; single	**3**	pr	4,100.00	12,300		
084110	*ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS*						
	Overhead door 8' x 12'	**2**	ea	5,760.00	11,520		
	Overhead door 14' x 14'	**1**	ea	11,760.00	11,760		
	SUBTOTAL					$48,289	
	TOTAL - EXTERIOR CLOSURE						**$91,774**
B30	***ROOFING***						
B3010	**ROOF COVERINGS**						
	See Special Construction						
	SUBTOTAL						
B3020	**ROOF OPENINGS**						
	Smoke hatch	**2**	ea	10,000.00	20,000		
	SUBTOTAL					$20,000	
	TOTAL - ROOFING						**$20,000**
C10	***INTERIOR CONSTRUCTION***						
C1010	**PARTITIONS**						
040001	*MASONRY*						
	8" CMU	**1,470**	sf	24.00	35,280		
	6" CMU	**1,200**	sf	22.00	26,400		

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	CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
		PRE-ENGINEERED METAL BUILDING						
211	*050001*	*MISCELLANEOUS METALS*						
212		Seismic clips to CMU	**45**	ea	130.00	5,850		
213		Miscellaneous metals to CMU	**1,515**	sf	1.50	2,273		
214								
215	*061000*	*ROUGH CARPENTRY*						
216		Rough blocking	**2,944**	lf	6.00	17,664		
217								
218	*070001*	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
219		Miscellaneous sealants at partitions	**43,885**	sf	0.50	21,943		
220								
221	*080002*	*GLASS AND GLAZING*						
222		Borrowed lights - glazing	**210**	sf	35.00	7,350		
223								
224	*081110*	*HOLLOW METAL DOOR FRAMES*						
225		Borrowed light frames	**210**	sf	30.00	6,300		
226								
227	*092900*	*GYPSUM BOARD ASSEMBLIES*						
228		Standard - 3 5/8" metal stud w/ 2 layers 5/8" b/s; acoustic batt insulation.	**15,450**	sf	11.50	177,675		
229		Corridor - 2 layers 3-5/8" metal stud w/ 1 layer 5/8" both sides, mineral wool insulation in both studs (corridor side -impact resistant GWB)	**7,890**	sf	18.00	142,020		
230		Auditorium	**9,075**	sf	18.00	163,350		
231		Proscenium	**1,800**	sf	15.00	27,000		
232		Plumbing chase	**400**	sf	16.00	6,400		
233		Shaft- 2 1/2"C-H stud w/ 1" shaft liner panel one side and 2 layer 5/8" gwb on the other side	**6,600**	sf	10.25	67,650		
234		Miscellaneous drywall	**28,703**	gsf	2.00	57,406		
235								
236	*102226*	*OPERABLE PARTITIONS*						
237		Cage	**360**	sf	15.00	5,400		
238		SUBTOTAL					769,961	
239								
240	**C1020**	**INTERIOR DOORS**						
241								
242	*061000*	*ROUGH CARPENTRY*						
243		Wood blocking at openings	**694**	lf	4.00	2,776		
244								
245	*070001*	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
246		Backer rod & double sealant	**694**	lf	5.00	3,470		
247								
248	*081110*	*HOLLOW METAL DOOR FRAMES*						
249		Hollow metal Frames, single	**21**	ea	450.00	9,450		
250		Hollow metal Frames, double	**16**	ea	600.00	9,600		
251								
252	*081400*	*WOOD DOORS*						
253		Wood door	**53**	ea	500.00	26,500		
254								
255	*083110*	*ACCESS DOORS AND FRAMES*						
256		Access doors	**1**	ls	1,500.00	1,500		
257								
258	*084110*	*ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS*						
259		Glazed aluminum doors including frame and hardware, single door fire rated	**1**	ea	4,000.00	4,000		
260								

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PSR Estimate - OPTIONS 1D, 1E + 2B

GFA 28,703

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PRE-ENGINEERED METAL BUILDING						
087100	*DOOR HARDWARE*						
	Hardware to doors	**53**	set	825.00	43,725		
	Acoustical Gasketing	**1**	ls	5,000.00	5,000		
090007	*PAINTING*						
	Finish doors and frames	**53**	ea	160.00	8,480		
	SUBTOTAL					114,501	
C1030	**SPECIALTIES / MILLWORK**						
055000	*MISCELLANEOUS METALS*						
	Miscellaneous metals throughout building	**28,703**	gsf	1.00	28,703		
061000	*ROUGH CARPENTRY*						
	Backer panels in electrical closets	**1**	ls	1,500.00	1,500		
	Wood blocking at interiors	**28,703**	gsf	0.50	14,352		
064020	*INTERIOR ARCHITECTURAL WOODWORK*						
	Window sill	**65**	lf	45.00	2,925		
	Auditorium/Music wood paneling/trim/acoustic panels	**1**	ls	300,000.00	300,000		
070001	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
	Miscellaneous sealants throughout building	**28,703**	sf	1.15	33,008		
101100	*VISUAL DISPLAY SURFACES*						
	Tack Board/Markerboard	**28,703**	gsf	1.50	43,055		
101400	*SIGNAGE*						
	Room Signs	**38**	loc	120.00	4,560		
102110	*TOILET COMPARTMENTS*						
	ADA	**2**	ea	1,600.00	3,200		
	Standard	**4**	ea	1,200.00	4,800		
102800	*TOILET ACCESSORIES*						
	Gang bathroom	**2**	rms	3,000.00	6,000		
	Single bathroom	**2**	rms	900.00	1,800		
	Custodian work room accessories	**1**	rms	1,500.00	1,500		
104400	*FIRE PROTECTION SPECIALTIES*						
	Fire extinguisher cabinets	**10**	ea	350.00	3,500		
105113	*LOCKERS*						
	Lockers at Construction Craft	**24**	opn	240.00	5,760		
	SUBTOTAL					454,663	
	TOTAL - INTERIOR CONSTRUCTION						**$1,339,125**
C20	***STAIRCASES***						
C2010	**STAIR CONSTRUCTION**						
	No Work in this section						

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GFA 28,703

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PRE-ENGINEERED METAL BUILDING						
	SUBTOTAL						
C2020	**STAIR FINISHES**						
	No Work in this section						
	SUBTOTAL						
	TOTAL - STAIRCASES						
C30	***INTERIOR FINISHES***						
C3010	**WALL FINISHES**						
064020	*INTERIOR ARCHITECTURAL WOODWORK*						
	FRP at Kitchen storage	**2,070**	sf	8.00	16,560		
090002	*TILE*						
	Ceramic tile at corridors, 6' high	**3,180**	sf	22.00	69,960		
	Ceramic tile at bathrooms	**495**	sf	22.00	10,890		
090007	*PAINTING*						
	Paint to walls	**107,175**	sf	0.90	96,458		
	SUBTOTAL					193,868	
C3020	**FLOOR FINISHES**						
033000	*CONCRETE*						
	Polished Concrete	**6,510**	sf	12.00	78,120		
090002	*TILE*						
	Ceramic mosaic tile to bathrooms	**480**	sf	22.00	10,560		
	Quarry tile	**4,525**	sf	24.00	108,600		
	Ceramic tile base	**170**	lf	20.00	3,400		
	Quarry tile base	**670**	lf	22.00	14,740		
090005	*RESILIENT FLOORS*						
	VCT	**310**	sf	3.90	1,209		
	Rubber Base	**7,145**	lf	2.80	20,006		
	Static control resilient flooring	**90**	sf	6.00	540		
096810	*TILE CARPETING*						
	Carpet tile	**200**	sf	6.22	1,244		
	Broadloom carpet at auditorium	**4,760**	sf	4.22	20,087		
090007	*PAINTING*						
	Epoxy painted concrete	**6,840**	sf	2.00	13,680		
096430	*WOOD FLOORING*						
	Laminated stage flooring	**2,210**	sf	24.00	53,040		
	SUBTOTAL					325,226	
C3030	**CEILING FINISHES**						

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GFA 28,703

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
PRE-ENGINEERED METAL BUILDING							
090003	*ACOUSTICAL TILE*						
	ACT 2 x 2, 2 x 4	**310**	sf	6.00	1,860		
	ACT, washable	**4,525**	sf	6.50	29,413		
	Ceiling finishes; premium for auditorium	**1**	ls	250,000.00	250,000		
092900	*GYPSUM BOARD ASSEMBLIES*						
	GWB ceilings in toilet rooms	**480**	sf	14.00	6,720		
	GWB soffits, allow	**1**	ls	50,000.00	50,000		
090007	*PAINTING*						
	Paint GWB ceilings	**480**	sf	3.00	1,440		
	Paint to exposed ceilings	**20,320**	sf	2.00	40,640		
	SUBTOTAL					380,073	
	TOTAL - INTERIOR FINISHES						**$899,167**
D10	***CONVEYING SYSTEMS***						
D1010	**ELEVATOR**						
	SUBTOTAL						
	TOTAL - CONVEYING SYSTEMS						
D20	***PLUMBING***						
D20	**PLUMBING, GENERALLY**						
	Equipment						
	Plumbing equipment	**28,703**	sf	1.00	28,703		
	Plumbing Fixtures & Specialties						
	Water closet	**8**	ea	1,200.00	9,600		
	Lavatory	**6**	ea	975.00	5,850		
	Miscellaneous plumbing fixtures	**28,703**	sf	0.50	14,352		
	Domestic Water Type L Copper Pipe						
	Domestic water pipe with fittings & hangers	**28,703**	sf	2.50	71,758		
	Domestic water pipe insulation	**28,703**	sf	1.50	43,055		
	Sanitary Waste And Vent Pipe w/ Hangers						
	Sanitary waste pipe with fittings & hangers	**28,703**	sf	2.25	64,582		
	Storm Drainage, Hubless Cast Iron Pipe						
	Storm water pipe with fittings & hangers	**28,703**	sf	1.25	35,879		
	Pipe insulation on horizontal runs	**28,703**	sf	0.20	5,741		
	Gas And Fuel Distribution Pipe						
	Gas pipe with fittings & hangers	**28,703**	sf	0.50	14,352		
	Miscellaneous						
	Coordination & BIM	**1**	ls	8,800.00	8,800		
	Coring, sleeves & fire stopping	**1**	ls	5,000.00	5,000		
	Commissioning support	**1**	ls	4,300.00	4,300		
	Testing and sterilization	**1**	ls	3,000.00	3,000		
	Fees & permits	**1**	ls	2,900.00	2,900		
	SUBTOTAL					317,872	

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GFA 28,703

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PRE-ENGINEERED METAL BUILDING						
	TOTAL - PLUMBING						**$317,872**
	D30 HVAC						
D30	**HVAC, GENERALLY**						
	HVAC Equipment						
	HVAC equipment	**28,703**	sf	1.50	43,055		
	Pumps						
	Pumps	**28,703**	sf	0.25	7,176		
	Air distribution						
	Air distribution equipment	**28,703**	sf	10.00	287,030		
	Exhaust fans	**28,703**	sf	0.75	21,527		
	Sheet metal & Accessories						
	Sheet metal & accessories	**22,000**	lbs	9.50	209,000		
	Duct insulation	**13,200**	sf	4.00	52,800		
	Piping						
	Hot Water Piping						
	Hot water piping with fittings & hangers	**28,703**	sf	3.50	100,461		
	Chilled Water Piping						
	Chilled water piping with fittings & hangers	**28,703**	sf	1.00	28,703		
	Refrigerant Piping						
	Refrigerant piping with fittings & hangers	**28,703**	sf	0.15	4,305		
	Condensate Drain Piping						
	Condensate drain piping with fittings & hangers	**28,703**	sf	0.25	7,176		
	Piping Insulation						
	Piping insulation	**28,703**	sf	2.00	57,406		
	Automatic Temperature Controls						
	Automatic temperature controls DDC	**28,703**	sf	5.00	143,515		
	Balancing						
	System testing & balancing	**28,703**	sf	0.50	14,352		
	Miscellaneous						
	Coordination & BIM	**1**	ls	32,000.00	32,000		
	Commissioning support	**1**	ls	6,000.00	6,000		
	Coring, sleeves & fire stopping	**1**	ls	5,000.00	5,000		
	Equipment start-up and inspection	**1**	ls	1,000.00	1,000		
	Rigging & equipment rental	**1**	ls	15,000.00	15,000		
	Vibration & seismic restraints	**1**	ls	10,000.00	10,000		
	SUBTOTAL					1,045,506	
	TOTAL - HVAC						**$1,045,506**
	D40 FIRE PROTECTION						
D40	**FIRE PROTECTION, GENERALLY**						
	Equipment & valves	**28,703**	sf	0.75	21,527		
	Sprinkler heads	**220**	ea	75.00	16,500		
	Distribution piping with fittings & hangers	**1,800**	lf	22.00	39,600		
	Main sprinkler piping and standpipes	**900**	lf	26.00	23,400		
	Standpipes with fittings & hangers	**250**	lf	36.00	9,000		
	Miscellaneous						

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GFA 28,703

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PRE-ENGINEERED METAL BUILDING						
	Coordination & BIM	1	ls	3,300.00	3,300		
	Hydraulic calculations	1	ls	3,000.00	3,000		
	Coring, sleeves & fire stopping	1	ls	2,500.00	2,500		
	Shop drawings	1	ls	2,000.00	2,000		
	Commissioning of system	1	ls	5,000.00	5,000		
	Fees & permits	1	ls	1,000.00	1,000		
	SUBTOTAL					126,827	
	TOTAL - FIRE PROTECTION						**$126,827**
D50	***ELECTRICAL***						
D5010	**SERVICE & DISTRIBUTION**						
	Gear & Distribution						
	Normal Power						
	2000A Normal power gear and distribution including feeders	**28,703**	gsf	3.00	86,109		
	Auto receptacle control (50%)	**28,703**	gsf	0.20	5,741		
	Emergency power						
	500kW generator in WP sound attenuated enclosure	1	ea	225,000.00	225,000		
	Emergency power ATS; panelboards and feeders	**28,703**	gsf	2.50	71,758		
	Equipment Wiring						
	Equipment wiring	**28,703**	gsf	1.75	50,230		
	SUBTOTAL					438,838	
D5020	**LIGHTING & POWER**						
	Lighting & Branch Power						
	Allowance for lighting fixtures and installation	**28,703**	gsf	5.00	143,515		
	Lighting controls						
	Lighting controls system	**28,703**	gsf	1.00	28,703		
	Branch Devices						
	Branch devices	**28,703**	gsf	0.50	14,352		
	Lighting and Branch Circuitry						
	Lighting and branch circuitry	**28,703**	gsf	4.50	129,164		
	SUBTOTAL					315,734	
D5030	**COMMUNICATION & SECURITY SYSTEMS**						
	Fire alarm						
	Fire Alarm system	**28,703**	gsf	2.00	57,406		
	Bi-Directional Amplification system	**28,703**	gsf	0.50	14,352		
	Tel/Data						
	Network switches & phone system				By owner		
	Rough-in with conduit and back boxes	**28,703**	gsf	1.20	34,444		
	IPTV	1	ls	75,000.00	75,000		
	Wireless allow	1	ls	30,000.00	30,000		
	Devices and cabling	**28,703**	gsf	1.50	43,055		
	Assistive Listening System						
	ASL system	**28,703**	gsf	0.50	14,352		
	Public Address/Clock System (proprietary)						
	PA System	**28,703**	gsf	1.50	43,055		
	Security System (proprietary)						

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GFA 28,703

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PRE-ENGINEERED METAL BUILDING						
	Access control	**28,703**	gsf	1.00	28,703		
	Intrusion	**28,703**	gsf	1.00	28,703		
	CCTV	**28,703**	gsf	1.00	28,703		
	Audio Visual System						
	Auditorium:						
	AV auditorium, allow	**1**	ls	150,000.00	150,000		
	Stage audio, video and sound, allow	**1**	ls	132,800.00	132,800		
	AV rough in	**1**	ls	20,000.00	20,000		
	Band/Chorus:						
	Band/chorus recording systems	**2**	ea	7,500.00	15,000		
	Band room audio system, microphones etc	**1**	ls	25,000.00	25,000		
	Rough-in, allow	**1**	ls	5,000.00	5,000		
	Chorus room audio system, microphones etc	**1**	ls	25,000.00	25,000		
	AV rough in	**1**	ls	5,000.00	5,000		
	Digital signage:						
	Digital signage display costs (proprietary)	**1**	ls	100,000.00	100,000		
	AV rough in	**1**	ls	10,000.00	10,000		
	Performance:						
	AV Performance, allow	**1**	ls	75,000.00	75,000		
	AV rough in	**1**	ls	5,000.00	5,000		
	Performance Lighting and Dimming System						
	Stage dimming system	**1**	ls	82,750.00	82,750		
	Stage fixture budget	**1**	ls	85,000.00	85,000		
	Stage audio, video and sound	**1**	ls	132,800.00	132,800		
	Stage rigging & curtains	**1**	ls		See Equipment		
	Power to motorized positions & controller, allow	**1**	ls	2,500.00	2,500		
	Installation	**1**	ls	65,000.00	65,000		
	SUBTOTAL					1,333,623	
D5040	**OTHER ELECTRICAL SYSTEMS**						
	Temp power and lights	**28,703**	gsf	0.40	11,481		
	PV system empty conduits	**1**	ls	5,000.00	5,000		
	Lightning protection	**28,703**	gsf	0.45	12,916		
	Identification	**1**	ls	2,500.00	2,500		
	Seismic restraints	**1**	ls	5,000.00	5,000		
	Demo/make safe				NIC		
	Fees & Permits	**1**	ls	20,000.00	20,000		
	SUBTOTAL					56,897	
	TOTAL - ELECTRICAL						**$2,145,092**
E10	***EQUIPMENT***						
E10	**EQUIPMENT, GENERALLY**						
110000	*EQUIPMENT*						
	Allowance for loading dock equipment	**1**	ls	10,000.00	10,000		
115213	*PROJECTION SCREENS*						
	Projection screen; stage proscenium	**1**	ea	15,000.00	15,000		
116100	*THEATRICAL EQUIPMENT*						

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PRE-ENGINEERED METAL BUILDING						
	Theater & stage equipment including stage curtains & rigging	**1**	ls	350,000.00	350,000		
	Stage dimming, control system, theatrical fixtures				w/ electrical		
	Auditorium AV system				w/ electrical		
	Auditorium seating	**750**	seats	350.00	262,500		
	Chorus track, curtain, & grid	**1**	ls	25,000.00	25,000		
	SUBTOTAL					662,500	
	TOTAL - EQUIPMENT						**$662,500**
E20	***FURNISHINGS***						
E2010	**FIXED FURNISHINGS**						
122100	*WINDOW TREATMENT*						
	Roller shades, manual	**400**	sf	7.00	2,800		
123000	*CASEWORK*						
	Makeup/Dressing						
	TW 36"	**4**	ea	1,600.00	6,400		
	P'lam counter	**12**	lf	200.00	2,400		
	Custodial Breakroom						
	Base cabinet/plam countertop	**8**	lf	375.00	3,000		
	Wall cabinets	**8**	lf	220.00	1,760		
	Construction						
	TW 36"	**4**	ea	1,600.00	6,400		
	Open shelving	**14**	lf	200.00	2,800		
	SUBTOTAL					25,560	
E2020	**MOVABLE FURNISHINGS**						
	All movable furnishings to be provided and installed by owner						
	SUBTOTAL					NIC	
	TOTAL - FURNISHINGS						**$25,560**
F10	***SPECIAL CONSTRUCTION***						
F10	**SPECIAL CONSTRUCTION**						
	Pre-engineered metal building	**28,703**	sf	70.00	2,009,210		
	SUBTOTAL					2,009,210	
	TOTAL - SPECIAL CONSTRUCTION						**$2,009,210**
F20	***SELECTIVE BUILDING DEMOLITION***						
F2010	**BUILDING ELEMENTS DEMOLITION**						
	See main summary for demolition of existing buildings						
	SUBTOTAL						
F2020	**HAZARDOUS COMPONENTS ABATEMENT**						

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	PRE-ENGINEERED METAL BUILDING						
624	Removal of Asbestos Containing Materials in existing building - Included in Summary						
625	SUBTOTAL						
626							
	TOTAL - SELECTIVE BUILDING DEMOLITION						

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14-Dec-17

Schematic Design Estimate

GFA 84,475

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
EXISTING ATHLETIC BUILDING - RENOVATION							
	GROSS FLOOR AREA CALCULATION						
	First Floor	67,014					
	Second Floor	17,461					
	TOTAL GROSS FLOOR AREA (GFA)				**84,475**	***sf***	
A10	***FOUNDATIONS***						
A1010	**STANDARD FOUNDATIONS**						
	Tie in at new building	**1**	ls	25,000.00	25,000		
	SUBTOTAL					25,000	
A1020	**SPECIAL FOUNDATIONS**						
	No Work in this section						
	SUBTOTAL						
A1030	**LOWEST FLOOR CONSTRUCTION**						
	Miscellaneous						
	New elevator pit	**1**	ls	50,000.00	50,000		
	Cut and patch slab to tie in existing utilities	**67,014**	sf	2.00	134,028		
	SUBTOTAL					184,028	
	TOTAL - FOUNDATIONS						**$209,028**
A20	***BASEMENT CONSTRUCTION***						
A2010	**BASEMENT EXCAVATION**						
	No Work in this section						
	SUBTOTAL						
A2020	**BASEMENT WALLS**						
	No Work in this section						
	SUBTOTAL						
	TOTAL - BASEMENT CONSTRUCTION						
B10	***SUPERSTRUCTURE***						
B1010	**FLOOR CONSTRUCTION**						
	Tie in at new building	**1**	ls	20,000.00	20,000		
	SUBTOTAL					20,000	
B1020	**ROOF CONSTRUCTION**						
	Miscellaneous						
	Miscellaneous repair	**1**	ls	25,000.00	25,000		
	SUBTOTAL					25,000	
	TOTAL - SUPERSTRUCTURE						**$45,000**
B20	***EXTERIOR CLOSURE***						
B2010	**EXTERIOR WALLS**	*66,120*	*sf*		-		

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Schematic Design Estimate

GFA 84,475

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
EXISTING ATHLETIC BUILDING - RENOVATION							
040001	*MASONRY*						
	Existing brick - allow to clean, some repoint/repair	**760**	sf	35.00	26,600		
	Allowance to patch and repair existing exterior asbestos panels	**33,060**	sf	10.00	330,600		
	Allowance to attach architectural screening attached to existing exterior wall	**5,000**	sf	55.00	275,000		
090007	*PAINTING*						
	Paint to existing siding	**33,060**	sf	3.00	99,180		
	SUBTOTAL					731,380	
B2020	**WINDOWS**	*1,955*	*sf*				
061000	*ROUGH CARPENTRY*						
	Wood blocking at openings	**585**	lf	14.00	8,190		
070001	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
	Backer rod & double sealant	**585**	lf	9.00	5,265		
084413	*CURTAIN WALL SYSTEMS*						
	Curtainwall	**1,955**	sf	115.00	224,825		
089000	*LOUVERS*						
	Louvers	**65**	sf	55.00	3,575		
	SUBTOTAL					241,855	
B2030	**EXTERIOR DOORS**						
061000	*ROUGH CARPENTRY*						
	Wood blocking at openings	**240**	lf	4.00	960		
079200	*JOINT SEALANTS*						
	Backer rod & double sealant	**240**	lf	9.00	2,160		
084110	*ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS*						
	Aluminum entrance doors w/ vision panel including frame and hardware; double	**12**	pr	4,000.00	48,000		
	SUBTOTAL					51,120	
	TOTAL - EXTERIOR CLOSURE						**$1,024,355**
B30	***ROOFING***						
B3010	**ROOF COVERINGS**						
061000	*ROUGH CARPENTRY*						
	Rough blocking at roofing	**5,175**	lf	8.00	41,400		
070002	*ROOFING AND FLASHING*						
	Flat roof						
	White PVC Roofing system	**67,014**	sf	15.50	1,038,717		
	Premium for tapered roof insulation	**10,052**	sf	3.50	35,182		

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	EXISTING ATHLETIC BUILDING - RENOVATION						
	Miscellaneous Roofing						
	Factory fabricated fascia trim roof edge	**1,725**	lf	25.00	43,125		
	Air/Vapor barrier at roof edges	**1,725**	lf	8.00	13,800		
	Membrane roof walkway pads	**1**	ls	10,000.00	10,000		
	SUBTOTAL					1,182,224	
B3020	**ROOF OPENINGS**						
	SUBTOTAL						
	TOTAL - ROOFING						**$1,182,224**
C10	***INTERIOR CONSTRUCTION***						
C1010	**PARTITIONS**						
040001	*MASONRY*						
	8" CMU	**12,628**	sf	24.00	303,072		
	6" CMU	**1,960**	sf	22.00	43,120		
050001	*MISCELLANEOUS METALS*						
	Seismic clips to CMU	**245**	ea	130.00	31,850		
	Miscellaneous metals to CMU	**12,873**	sf	1.50	19,310		
	Seismic upgrades/shear walls	**84,475**	gsf	6.00	506,850		
061000	*ROUGH CARPENTRY*						
	Rough blocking	**311**	lf	6.00	1,866		
070001	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
	Miscellaneous sealants at partitions	**18,942**	sf	0.50	9,471		
080002	*GLASS AND GLAZING*						
	Interior storefronts/glazing etc.	**2,500**	sf	65.00	162,500		
	Replace existing interior storefronts/glazing etc.	**1,000**	sf	70.00	70,000		
092900	*GYPSUM BOARD ASSEMBLIES*						
	Standard - 3 5/8" metal stud w/ 2 layers 5/8" b/s; acoustic batt insulation.	**364**	sf	11.50	4,186		
	Corridor - 2 layers 3-5/8" metal stud w/ 1 layer 5/8" both sides, mineral wool insulation in both studs (corridor side -impact resistant GWB)	**3,990**	sf	18.00	71,820		
	SUBTOTAL					1,224,045	
C1020	**INTERIOR DOORS**						
061000	*ROUGH CARPENTRY*						
	Wood blocking at openings	**1,509**	lf	4.00	6,036		
070001	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
	Backer rod & double sealant	**1,509**	lf	5.00	7,545		
081110	*HOLLOW METAL DOOR FRAMES*						
	Hollow metal Frames, single	**17**	ea	450.00	7,650		
	Hollow metal Frames, double	**61**	ea	600.00	36,600		
	Premium for SS doors at pool	**1**	ls	10,000.00	10,000		

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	EXISTING ATHLETIC BUILDING - RENOVATION						
081400	*WOOD DOORS*						
	Wood door	**139**	ea	500.00	69,500		
083110	*ACCESS DOORS AND FRAMES*						
	Access doors	**1**	ls	1,500.00	1,500		
087100	*DOOR HARDWARE*						
	Hardware to doors	**139**	set	825.00	114,675		
	Acoustical Gasketing	**1**	ls	5,000.00	5,000		
090007	*PAINTING*						
	Finish doors and frames	**139**	ea	160.00	22,240		
	SUBTOTAL					280,746	
C1030	**SPECIALTIES / MILLWORK**						
055000	*MISCELLANEOUS METALS*						
	Rail support for elevator cabs	**1**	loc	3,000.00	3,000		
	Miscellaneous metals throughout building	**84,475**	gsf	1.50	126,713		
061000	*ROUGH CARPENTRY*						
	Backer panels in electrical closets	**1**	ls	1,500.00	1,500		
	Wood blocking at interiors	**84,475**	gsf	0.50	42,238		
064020	*INTERIOR ARCHITECTURAL WOODWORK*						
	Window sill	**195**	lf	45.00	8,775		
	Architectural woodwork	**1**	ls	50,000.00	50,000		
070001	*WATERPROOFING, DAMPPROOFING AND CAULKING*						
	Miscellaneous sealants throughout building	**84,475**	sf	1.15	97,146		
101100	*VISUAL DISPLAY SURFACES*						
	Tack Board/Markerboard	**84,475**	gsf	1.50	126,713		
101400	*SIGNAGE*						
	Room Signs	**78**	loc	120.00	9,360		
	Graphics allowance; interior + exterior	**1**	ls	25,000.00	25,000		
102110	*TOILET COMPARTMENTS*						
	ADA	**11**	ea	1,600.00	17,600		
	Standard	**35**	ea	1,200.00	42,000		
102800	*TOILET ACCESSORIES*						
	Gang bathroom	**12**	rms	3,000.00	36,000		
	Single bathroom	**3**	rms	900.00	2,700		
104400	*FIRE PROTECTION SPECIALTIES*						
	Fire extinguisher cabinets	**28**	ea	350.00	9,800		
105113	*LOCKERS*						
	Athletic lockers	**277**	opn	240.00	66,480		
	Lockers two tier	**1,710**	opn	220.00	376,200		
	SUBTOTAL					1,041,225	

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	EXISTING ATHLETIC BUILDING - RENOVATION						
	TOTAL - INTERIOR CONSTRUCTION						**$2,546,016**
	C20 STAIRCASES						
C2010	**STAIR CONSTRUCTION**						
055000	*MISCELLANEOUS METALS*						
	Code upgrades to existing stairs	**2**	flts	8,500.00	17,000		
	Allowance for new stair; complete	**1**	ls	150,000.00	150,000		
	SUBTOTAL					167,000	
C2020	**STAIR FINISHES**						
090005	*RESILIENT FLOORS*						
	Rubber treads to stair	**264**	lfr	22.00	5,808		
	Rubber to stair landing	**200**	sf	14.00	2,800		
090007	*PAINTING*						
	High performance coating to stairs including all railings etc.	**2**	flt	3,500.00	7,000		
	SUBTOTAL					15,608	
	TOTAL - STAIRCASES						**$182,608**
	C30 INTERIOR FINISHES						
C3010	**WALL FINISHES**						
090002	*TILE*						
	Ceramic tile at corridors, 6' high - new wall only	**1,710**	sf	20.00	34,200		
	Ceramic tile at bathrooms/showers	**11,910**	sf	22.00	262,020		
098413	*SOUND ABSORBING PANELS*						
	Allowance for acoustic wall panels	**1**	ls	50,000.00	50,000		
090007	*PAINTING*						
	Paint to existing walls	**84,475**	gsf	2.50	211,188		
	SUBTOTAL					557,408	
C3020	**FLOOR FINISHES**						
090002	*TILE*						
	Ceramic mosaic tile to bathrooms/shower	**5,175**	sf	22.00	113,850		
	Ceramic tile base	**2,280**	lf	20.00	45,600		
090005	*RESILIENT FLOORS*						
	VCT	**14,716**	sf	3.90	57,392		
	Sheet linoleum	**1,460**	sf	7.00	10,220		
	Rubber flooring	**25,050**	sf	12.00	300,600		
	Rubber Base	**1**	ls	25,000.00	25,000		
096460	*WOOD ATHLETIC FLOORING*						

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EXISTING ATHLETIC BUILDING - RENOVATION							
	Synthetic sports athletic floor at gym	**25,490**	sf	14.00	356,860		
	Vented wood base	**950**	lf	8.00	7,600		
	Laminated floor at dance	**1,870**	sf	24.00	44,880		
	SUBTOTAL					962,002	
C3030	**CEILING FINISHES**						
090003	*ACOUSTICAL TILE*						
	ACT 2 x 2, 2 x 4	**41,876**	sf	4.50	188,442		
092900	*GYPSUM BOARD ASSEMBLIES*						
	GWB ceilings in toilet rooms	**5,175**	sf	14.00	72,450		
090007	*PAINTING*						
	Paint GWB ceilings	**5,175**	sf	1.50	7,763		
	Paint to exposed ceilings at gym and pool;	**33,200**	sf	3.00	99,600		
	Staging	**1**	ls	25,000.00	25,000		
	SUBTOTAL					393,255	
	TOTAL - INTERIOR FINISHES						**$1,912,665**
D10	***CONVEYING SYSTEMS***						
D1010	**ELEVATOR**						
	Passenger elevator, 2 stop, 1 opening; 3500 lbs; 120 fpm	**1**	ea	90,000.00	90,000		
	Premium for elevator in existing building	**1**	ls	30,000.00	30,000		
	6 x 4 x 3/8 angle to elevator pit	**30**	lf	25.00	750		
	Pit ladders	**1**	ea	650.00	650		
	Sill angles	**30**	lf	25.00	750		
	SUBTOTAL					122,150	
	TOTAL - CONVEYING SYSTEMS						**$122,150**
D20	***PLUMBING***						
D20	**PLUMBING, GENERALLY**						
	Equipment						
	Gas fired domestic HW heater 800,000 BTUH	**2**	ea	32,000.00	64,000		
	Plumbing equipment	**84,475**	sf	1.50	126,713		
	Plumbing Fixtures & Specialties						
	Water closet	**17**	ea	1,200.00	20,400		
	Lavatory	**19**	ea	975.00	18,525		
	Urinal	**12**	ea	1,400.00	16,800		
	Miscellaneous plumbing fixtures	**84,475**	sf	0.50	42,238		
	Domestic Water Type L Copper Pipe						
	Domestic water pipe with fittings & hangers	**84,475**	sf	2.50	211,188		
	Domestic water pipe insulation	**84,475**	sf	1.50	126,713		
	Sanitary Waste And Vent Pipe w/ Hangers						
	Sanitary waste pipe with fittings & hangers	**84,475**	sf	2.25	190,069		
	Kitchen waste pipe with fittings & hangers	**84,475**	sf	0.30	25,343		

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	EXISTING ATHLETIC BUILDING - RENOVATION						
	Storm Drainage, Hubless Cast Iron Pipe						
	Storm water pipe with fittings & hangers	**84,475**	sf	1.25	105,594		
	Pipe insulation on horizontal runs	**84,475**	sf	0.20	16,895		
	Gas And Fuel Distribution Pipe						
	Gas pipe with fittings & hangers	**84,475**	sf	0.50	42,238		
	Miscellaneous						
	Coordination & BIM	**1**	ls	30,000.00	30,000		
	Coring, sleeves & fire stopping	**1**	ls	7,000.00	7,000		
	Commissioning support	**1**	ls	17,000.00	17,000		
	Testing and sterilization	**1**	ls	6,000.00	6,000		
	Fees & permits	**1**	ls	10,000.00	10,000		
	SUBTOTAL					1,076,716	
	TOTAL - PLUMBING						**$1,076,716**
D30	***HVAC***						
D30	**HVAC, GENERALLY**						
	HVAC Equipment						
	Gas fired HW boiler 3300 MBH	**1**	ea	50,000.00	50,000		
	HVAC equipment	**84,475**	sf	1.50	126,713		
	Pumps						
	Pumps	**84,475**	sf	0.25	21,119		
	Air distribution						
	Pool dehumidification unit	**1**	ls	225,000.00	225,000		
	Air distribution equipment	**84,475**	sf	8.00	675,800		
	Exhaust fans	**84,475**	sf	0.35	29,566		
	Sheet metal & Accessories						
	Sheet metal & accessories	**64,000**	lbs	9.50	608,000		
	Stainless steel duct & accessories	**3,000**	lbs	16.00	48,000		
	Duct insulation	**38,400**	sf	4.00	153,600		
	Piping						
	Hot Water Piping						
	Hot water piping with fittings & hangers	**84,475**	sf	3.50	295,663		
	Chilled Water Piping						
	Chilled water piping with fittings & hangers	**84,475**	sf	1.00	84,475		
	Refrigerant Piping						
	Refrigerant piping with fittings & hangers	**84,475**	sf	0.15	12,671		
	Condensate Drain Piping						
	Condensate drain piping with fittings & hangers	**84,475**	sf	0.25	21,119		
	Piping Insulation						
	Piping insulation	**84,475**	sf	2.00	168,950		
	Automatic Temperature Controls						
	Automatic temperature controls DDC	**84,475**	sf	5.00	422,375		
	Balancing						
	System testing & balancing	**84,475**	sf	0.50	42,238		
	Miscellaneous						
	Coordination & BIM	**1**	ls	80,000.00	80,000		
	Commissioning support	**1**	ls	20,000.00	20,000		
	Coring, sleeves & fire stopping	**1**	ls	15,000.00	15,000		
	Equipment start-up and inspection	**1**	ls	2,000.00	2,000		

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	EXISTING ATHLETIC BUILDING - RENOVATION						
	Rigging & equipment rental	**1**	ls	30,000.00	30,000		
	Vibration & seismic restraints	**1**	ls	25,000.00	25,000		
	SUBTOTAL					3,157,289	
	TOTAL - HVAC						**$3,157,289**
D40	***FIRE PROTECTION***						
D40	**FIRE PROTECTION, GENERALLY**						
	Equipment & valves	**84,475**	sf	0.75	63,356		
	Sprinkler heads	**650**	ea	75.00	48,750		
	Distribution piping with fittings & hangers	**5,200**	lf	22.00	114,400		
	Main sprinkler piping and standpipes	**2,600**	lf	26.00	67,600		
	Standpipes with fittings & hangers	**700**	lf	36.00	25,200		
	Miscellaneous						
	Coordination & BIM	**1**	ls	10,000.00	10,000		
	Hydraulic calculations	**1**	ls	4,000.00	4,000		
	Coring, sleeves & fire stopping	**1**	ls	8,000.00	8,000		
	Shop drawings	**1**	ls	2,500.00	2,500		
	Commissioning of system	**1**	ls	5,000.00	5,000		
	Fees & permits	**1**	ls	3,200.00	3,200		
	SUBTOTAL					352,006	
	TOTAL - FIRE PROTECTION						**$352,006**
D50	***ELECTRICAL***						
D5010	**SERVICE & DISTRIBUTION**						
	Gear & Distribution						
	Normal Power						
	2000A Normal power gear and distribution including feeders	**84,475**	gsf	3.00	253,425		
	Auto receptacle control (50%)	**84,475**	gsf	0.05	4,224		
	Emergency power						
	300kW generator in WP sound attenuated enclosure	**1**	ea	135,000.00	135,000		
	Emergency power ATS; panelboards and feeders	**84,475**	gsf	2.50	211,188		
	Equipment Wiring						
	Equipment wiring	**84,475**	gsf	1.25	105,594		
	Natatorium equipment feeds and connections	**1**	ls	35,000.00	35,000		
	SUBTOTAL					744,431	
D5020	**LIGHTING & POWER**						
	Lighting & Branch Power						
	Allowance for lighting fixtures and installation	**84,475**	gsf	4.00	337,900		
	Lighting controls						
	Lighting controls system	**84,475**	gsf	0.75	63,356		
	Branch Devices						
	Branch devices	**84,475**	gsf	0.20	16,895		
	Lighting and Branch Circuitry						
	Lighting and branch circuitry	**84,475**	gsf	4.00	337,900		

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	EXISTING ATHLETIC BUILDING - RENOVATION						
	SUBTOTAL					756,051	
D5030	**COMMUNICATION & SECURITY SYSTEMS**						
	Fire alarm						
	Fire Alarm system	**84,475**	gsf	2.00	168,950		
	Bi-Directional Amplification system	**84,475**	gsf	0.50	42,238		
	Tel/Data						
	Network switches & phone system				By owner		
	Rough-in with conduit and back boxes	**84,475**	gsf	0.75	63,356		
	Devices and cabling	**84,475**	gsf	1.00	84,475		
	IPTV	**1**	ls	25,000.00	25,000		
	Wireless allow	**1**	ls	65,000.00	65,000		
	Assistive Listening System						
	ASL system	**84,475**	gsf	0.50	42,238		
	Public Address/Clock System (proprietary)						
	PA System	**84,475**	gsf	1.50	126,713		
	Security System (proprietary)						
	Access control	**84,475**	gsf	0.50	42,238		
	Intrusion	**84,475**	gsf	0.50	42,238		
	CCTV	**84,475**	gsf	0.50	42,238		
	Audio Visual System						
	Digital signage:						
	Digital signage display costs (proprietary) allow	**1**	ls	75,000.00	75,000		
	Rough-in, allow	**1**	ls	5,000.00	5,000		
	Gymnasium:						
	AV Gym allow	**1**	ls	40,000.00	40,000		
	AV rough in	**1**	ls	8,000.00	8,000		
	SUBTOTAL					872,684	
D5040	**OTHER ELECTRICAL SYSTEMS**						
	Temp power and lights	**84,475**	gsf	0.40	33,790		
	PV system empty conduits	**1**	ls	7,500.00	7,500		
	Lightning protection	**84,475**	gsf	0.45	38,014		
	Identification	**1**	ls	1,500.00	1,500		
	Seismic restraints	**1**	ls	2,000.00	2,000		
	Demo/make safe	**84,475**	gsf	0.45	38,014		
	Fees & Permits	**1**	ls	27,000.00	27,000		
	SUBTOTAL					147,818	
	TOTAL - ELECTRICAL						**$2,520,984**
E10	***EQUIPMENT***						
E10	**EQUIPMENT, GENERALLY**						
110000	*EQUIPMENT*						
	Front loading automatic washer	**1**	ls	1,080.00	1,080		
	Front loading electric dryer	**1**	ls	1,104.00	1,104		
	Refrigerator w/ ice making kit	**1**	ls	840.00	840		
	Ice cube machine	**1**	ls	3,000.00	3,000		
115213	*PROJECTION SCREENS*						

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	EXISTING ATHLETIC BUILDING - RENOVATION						
	Projection screen; gym	**2**	ea	15,000.00	30,000		
116600	*ATHLETIC EQUIPMENT*						
	Mat hoist	**1**	ea	8,000.00	8,000		
	Scoreboard and shot clock	**1**	ea	15,000.00	15,000		
	Volleyball sleeves	**10**	ea	500.00	5,000		
	Gym wall pads	**5,700**	sf	11.00	62,700		
	Basketball backstops; retractable; glass	**8**	ea	11,000.00	88,000		
	Gymnasium dividing net	**9,936**	sf	18.00	178,848		
	Motorized assisted telescoping bleachers - Pool	**400**	seat	140.00	56,000		
	Motorized assisted telescoping bleachers - Fieldhouse	**2,500**	seat	140.00	350,000		
	Folding panel partition (electrically operated)	**2,700**	sf	65.00	175,500		
	SUBTOTAL					975,072	
	TOTAL - EQUIPMENT						**$975,072**
E20	***FURNISHINGS***						
E2010	**FIXED FURNISHINGS**						
122100	*WINDOW TREATMENT*						
	Roller shades, manual	**1,955**	sf	7.00	13,685		
123000	*CASEWORK*						
	Typical Classroom						
	TW 36"	**12**	ea	1,600.00	19,200		
	Base cabinet/plam countertop	**36**	lf	375.00	13,500		
	Wall cabinets	**36**	lf	220.00	7,920		
	Training room						
	Base cabinet w/ Plam counter tops	**15**	lf	420.00	6,300		
	Coaches Conference Room						
	Base cabinet w/ Plam counter tops	**10**	lf	420.00	4,200		
	SUBTOTAL					64,805	
E2020	**MOVABLE FURNISHINGS**						
	All movable furnishings to be provided and installed by owner						
	SUBTOTAL					NIC	
	TOTAL - FURNISHINGS						**$64,805**
F10	***SPECIAL CONSTRUCTION***						
F10	**SPECIAL CONSTRUCTION**						
	Allowance for new exterior closure at connection between athletic building and demolished core spaces	**1**	ls	125,000.00	125,000		
	Pool filtration, pump, piping equipment	**1**	ls	750,000.00	750,000		
	New tile to pool deck	**3,340**	sf	24.00	80,160		
	New tile to pool floor and walls	**4,560**	sf	28.00	127,680		
	SUBTOTAL					1,082,840	

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EXISTING ATHLETIC BUILDING - RENOVATION							
	TOTAL - SPECIAL CONSTRUCTION						**$1,082,840**
	F20 SELECTIVE BUILDING DEMOLITION						
F2010	**BUILDING ELEMENTS DEMOLITION**						
	Demo entrance porch	**750**	sf	15.00	11,250		
	Remove existing windows / storefront	**1,955**	sf	8.00	15,640		
	Remove existing exterior double doors	**12**	ea	200.00	2,400		
	Remove existing roofing	**67,014**	sf	1.50	100,521		
	Demolish interiors - finishes, casework, lockers, specialties	**84,475**	sf	5.00	422,375		
	Temporary protection and cleaning	**1**	ls	50,000.00	50,000		
	Miscellaneous demolition	**84,475**	gsf	2.00	168,950		
	SUBTOTAL					771,136	
F2020	**HAZARDOUS COMPONENTS ABATEMENT**						
	See summary				-		
	SUBTOTAL					-	
	TOTAL - SELECTIVE BUILDING DEMOLITION						**$771,136**

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SITEWORK							
	G SITEWORK						
G10	**SITE PREPARATION & DEMOLITION**						
024113	*SELECTIVE SITE DEMOLITION*						
	Site construction fence/barricades	**5,000**	lf	12.00	60,000		
	Construction gates	**2**	loc	3,000.00	6,000		
	Remove and dispose existing pavement	**400,000**	sf	1.00	400,000		
	Tree removal	**1**	ls	20,000.00	20,000		
	Sawcut existing pavement	**1,720**	lf	8.00	13,760		
	Remove and salvage brick pavers	**520**	sf	100.00	52,000		
	Remove and salvage memorial and clock tower as well as paving and benches	**1**	ls	50,000.00	50,000		
	Remove CLF	**2,280**	lf	5.00	11,400		
	Remove and reset fence	**260**	lf	25.00	6,500		
	Remove gas line	**2,220**	lf	25.00	55,500		
	Remove water line	**3,600**	lf	25.00	90,000		
	Remove sewer line	**3,600**	lf	40.00	144,000		
	Remove drainage	**1**	ls	40,000.00	40,000		
	Cut and cap utilities	**12**	loc	1,000.00	12,000		
	Miscellaneous demolition	**1**	ls	40,000.00	40,000		
312000	*EARTH MOVING*						
	Temporary parking and roadway/phasing allowance	**1**	ls	100,000.00	100,000		
	Site Earthwork						
	Construction entrances/wheel washes (allowance)	**2**	loc	12,000.00	24,000		
	Strip topsoil, store on site for reuse	**29,259**	cy	6.00	175,554		
	Cut/fill; AV 2ft over site; assume balanced site	**88,148**	cy	7.00	617,036		
	Urban fill allowance	**1**	ls	400,000.00	400,000		
	Fine grading	**132,222**	sy	2.30	304,111		
	Silt fence/erosion control (allowance)	**4,650**	lf	14.00	65,100		
	Erosion Control monitoring & maintenance	**1**	ls	30,000.00	30,000		
	Rock removal allowance	**1**	ls	300,000.00	300,000		
	Layout, mobilization	**1**	ls	100,000.00	100,000		
	Hazardous Waste Remediation						
	Dispose/treat contaminated soils/water				NIC		
	SUBTOTAL					3,116,961	
G20	**SITE IMPROVEMENTS**						
	ASPHALT PAVING						
	Bituminous concrete paving - Road/Parking	*204,740*	*sf*		-		
	gravel base; 12" thick	**7,583**	cy	36.00	272,988		
	bituminous concrete; 4" thick	**22,749**	sy	24.00	545,976		
	Bituminous concrete paving - Road/Parking	*136,000*	*sf*		-		
	gravel base; 12" thick	**5,037**	cy	36.00	181,332		
	bituminous concrete; 4" thick w/ Geogrid	**15,111**	sy	26.00	392,886		
	Bituminous concrete paving - Pedestrian Paving	*42,200*	*sf*		-		
	gravel base; 8" thick	**1,047**	cy	36.00	37,692		
	bituminous concrete; 3" thick	**4,689**	sy	28.00	131,292		
	Bituminous concrete paving - Tennis Courts	*50,660*	*sf*		-		
	gravel base; 8" thick	**1,257**	cy	36.00	45,252		
	bituminous concrete; 3" thick	**5,629**	sy	45.00	253,305		

PM&C

Durfee High School
New School and Renovation
Fall River, MA

14-Dec-17

Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITEWORK							
	CURBING						
	Granite curbs; 6" x 18"	**16,350**	lf	35.00	572,250		
	CONCRETE PAVING						
	Vehicular Concrete	*17,400*	*sf*				
	gravel base; 12" thick	**644**	cy	36.00	23,184		
	concrete; 8" thick, broom finish	**17,400**	sf	9.00	156,600		
	Concrete Walkway	*56,200*	*sf*				
	gravel base; 8" thick	**1,395**	cy	36.00	50,220		
	concrete; 5" thick, broom finish	**56,200**	sf	7.50	421,500		
	Stairs and Ramps						
	Concrete to stair treads	**1,435**	lfr	190.00	272,650		
	Ramps - gravel base; 12" thick	**109**	cy	40.00	4,360		
	Ramps - concrete paving; 6" thick	**2,930**	sf	16.00	46,880		
	UNIT PAVING						
	Granite paver emblem	**6**	ea	100.00	600		
	Unit Paver, Type B - brick, 4" x 8" x 2-3/4"						
	gravel base; 12" thick	**183**	cy	40.00	7,320		
	sand; 3/4" thick	**11**	cy	32.00	352		
	bituminous concrete; 2" thick	**4,950**	sf	2.50	12,375		
	brick paver	**4,950**	sf	30.00	148,500		
	Unit Paver, Type C - concrete paver, 8" x 8"						
	gravel base; 12" thick	**1,262**	cy	40.00	50,480		
	sand; 3/4" thick	**76**	cy	32.00	2,432		
	bituminous concrete; 2" thick	**34,085**	sf	2.50	85,213		
	concrete paver	**34,085**	sf	14.00	477,190		
	Unit Paver, Type D - concrete paver, 4" x 16" x 4" or 4" x 18" x 3"						
	gravel base; 12" thick	**139**	cy	40.00	5,560		
	sand; 3/4" thick	**8**	cy	32.00	256		
	bituminous concrete; 2" thick	**3,745**	sf	2.50	9,363		
	concrete paver	**3,745**	sf	18.00	67,410		
	PAVEMENT MARKINGS						
	Road markings	**1**	ls	20,000.00	20,000		
	PLAYGROUND PROTECTIVE SURFACING						
	gravel base; 8" thick	**64**	cy	36.00	2,304		
	Play surface	**2,575**	sf	18.00	46,350		
	TRAFFIC SIGNS						
	New traffic signs	**50**	ea	350.00	17,500		
	Primary site sign	**2**	ea	20,000.00	40,000		
	SITE WALLS						
	Strip footings to concrete retaining wall						
	Excavation	**115**	cy	15.00	1,725		
	Store on site for reuse	**115**	cy	8.00	920		
	Backfill with selected material	**93**	cy	12.00	1,116		
	Formwork	**186**	sf	14.00	2,604		
	Re-bar	**620**	lbs	1.20	744		
	Concrete material; 3,000 psi	**22**	cy	132.00	2,904		
	Placing concrete	**22**	cy	55.00	1,210		
	Walls						

PM&C

Durfee High School
New School and Renovation
Fall River, MA

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Schematic Design Estimate

	CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
		SITEWORK						
109		Formwork	**744**	sf	19.00	14,136		
110		Re-bar	**4,650**	lbs.	1.20	5,580		
111		Concrete material; 4,000 psi	**36**	cy	132.00	4,752		
112		Placing concrete	**36**	cy	55.00	1,980		
113		Strip footings to stone veneer seat wall; 3'-0" x 1'-0"						
114		Excavation	**661**	cy	15.00	9,915		
115		Store on site for reuse	**661**	cy	8.00	5,288		
116		Backfill with selected material	**601**	cy	12.00	7,212		
117		Formwork	**1,020**	sf	14.00	14,280		
118		Re-bar	**5,100**	lbs	1.20	6,120		
119		Concrete material; 3,000 psi	**60**	cy	132.00	7,920		
120		Placing concrete	**60**	cy	55.00	3,300		
121		Walls						
122		2 rows 8" CMU, reinforced	**1,275**	sf	50.00	63,750		
123		Stone facing	**2,550**	sf	65.00	165,750		
124		wall cap, 2' wide	**510**	lf	140.00	71,400		
125		Strip footings to granite seat wall; 3'-0" x 1'-0"						
126		Excavation	**220**	cy	15.00	3,300		
127		Store on site for reuse	**220**	cy	8.00	1,760		
128		Backfill with selected material	**200**	cy	12.00	2,400		
129		Formwork	**340**	sf	14.00	4,760		
130		Re-bar	**1,700**	lbs	1.20	2,040		
131		Concrete material; 3,000 psi	**20**	cy	132.00	2,640		
132		Placing concrete	**20**	cy	55.00	1,100		
133		Walls						
134		2 rows 8" CMU, reinforced	**425**	sf	50.00	21,250		
135		Granite facing	**850**	sf	65.00	55,250		
136		granite cap, 2' wide	**170**	lf	190.00	32,300		
137		Segmental Retaining Walls						
138		Retaining wall, various heights	**26,002**	sf	45.00	1,170,090		
139								
140		*RAILINGS/FENCES*						
141		Green trellis fence, 10' high	**80**	lf	140.00	11,200		
142		Black vinyl chainlink fence, 6'	**1,870**	lf	60.00	112,200		
143		Black vinyl chainlink fence, 42"	**1,230**	lf	45.00	55,350		
144		Black vinyl chainlink fence w/ wind stopper, 12'	**570**	lf	90.00	51,300		
145		Ramp handrail	**610**	lf	8.00	4,880		
146		Guardrail	**280**	lf	190.00	53,200		
147								
148		*FLAGPOLES*						
149		Flagpole, 30'	**1**	ls	6,500.00	6,500		
150								
151		*PLAY AREA*						
152		Play structure at Courtyard 1, allow	**1**	ls	75,000.00	75,000		
153		Fibar wood mulch	**510**	sf	13.00	6,630		
154		Play sand	**860**	sf	3.00	2,580		
155		Wood steppers	**8**	ea	50.00	400		
156		Art panel	**2**	ea	500.00	1,000		
157		Boulder scramble	**2**	loc	5,000.00	10,000		
158								
159	*323000*	*SITE STONEWORK*						
160		Granite to stair treads	**617**	lfr	280.00	172,760		
161		2' x 2' granite seat blocks	**18**	ea	600.00	10,800		

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Schematic Design Estimate

	CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	SITEWORK							
162		Granite band	**1,020**	lf	80.00	81,600		
163								
164		*SITE IMPROVEMENTS*						
165		"History of Fall River" installations at Main Entry Plaza and Courtyard	**2**	loc	100,000.00	200,000		
166		Allowance for miscelaneous repairs to existing sports stadium; ADA access to press box, bleachers etc.)	**1**	ls	110,000.00	110,000		
167		Ornamental benches	**19**	ea	3,000.00	57,000		
168		Bollards at entry	**25**	ea	950.00	23,750		
169		Bollards at generator/transformer	**50**	ea	600.00	30,000		
170		Bicycle racks	**2**	ea	1,000.00	2,000		
171		Trash/recycling	**24**	ea	800.00	19,200		
172		Outdoor dining table	**15**	ea	3,000.00	45,000		
173		Wood communal table, 10'	**8**	ea	3,800.00	30,400		
174		Raised wood planters	**5**	ea	2,000.00	10,000		
175		Granite planters	**2**	ea	3,500.00	7,000		
176		Wood bridge, 30'	**4**	ea	5,000.00	20,000		
177		Landscape boulder clusters	**56**	ea	250.00	14,000		
178		Wood decking	**580**	sf	28.00	16,240		
179		Wood trellis structure	**1,100**	sf	60.00	66,000		
180		Scoreboard, 15'	**1**	ea	24,000.00	24,000		
181		Portable bleacher, 27'	**4**	ea	10,000.00	40,000		
182		Athletic bench	**8**	ea	1,500.00	12,000		
183		Baseball dugout	**2**	ea	12,000.00	24,000		
184		Softball dugout	**8**	ea	12,000.00	96,000		
185		Overhead pressbox	**2**	ea	25,000.00	50,000		
186		20' ball stopper netting	**300**	lf	140.00	42,000		
187		30' backstop	**315**	lf	280.00	88,200		
188		Removable outfield fence, 6'	**685**	lf	65.00	44,525		
189		Storage unit, 12' x 15'	**4**	ea	11,000.00	44,000		
190		Greenhouse	**1**	ea	15,000.00	15,000		
191		Design change to front entry	**(1)**	ls	200,000.00	(200,000)		
192								
193	*328400*	*PLANTING IRRIGATION*						
194		Irrigation	**113,896**	sf	1.50	170,844		
195								
196	*329200*	*TURF AND GRASSES*						
197		Topsoil, new	**8,437**	cy	50.00	421,850		
198		Mulch	**1**	ls	100,000.00	100,000		
199		Seed	**113,896**	sf	0.25	28,474		
200		Sod	**113,896**	sf	0.75	85,422		
201								
202	*329300*	*PLANTS*						
203		Planting, allow	**1**	ls	300,000.00	300,000		
204		SUBTOTAL					8,783,373	
205								
206	**G30**	**CIVIL MECHANICAL UTILITIES**						
207								
208		*WATER UTILITIES*						
209		CDLI, 20"	**375**	lf	250.00	93,750		
210		CDLI, 8"	**3,970**	lf	90.00	357,300		
211		CDLI, 6"	**676**	lf	70.00	47,320		
212		Gate valve, 8"	**1**	loc	800.00	800		
213		Gate valve, 6"	**3**	loc	600.00	1,800		
214		Fire hydrant	**14**	loc	2,600.00	36,400		
215		Tee, 8" x 20" x 20"	**3**	loc	750.00	2,250		

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Durfee High School
New School and Renovation
Fall River, MA

14-Dec-17

Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	SITEWORK						
	Tee, 8" x 8" x 8"	**1**	loc	750.00	750		
	Tee, 6" x 8" x 8"	**7**	loc	750.00	5,250		
	Connect to existing 20" service	**2**	loc	20,000.00	40,000		
	Connect to existing 8" service	**2**	loc	5,000.00	10,000		
	SANITARY SEWERAGE UTILITIES						
	Sanitary sewer						
	8" SDR 35 PVC	**2,660**	lf	65.00	172,900		
	SMH	**11**	ea	4,500.00	49,500		
	Connect to existing sewer service	**1**	loc	10,000.00	10,000		
	Connect to existing manhole	**2**	loc	2,800.00	5,600		
	Core into existing manhole	**4**	loc	950.00	3,800		
	Grease/oil separator	**1**	ea	14,000.00	14,000		
	Water/oil separator	**1**	ea	10,000.00	10,000		
	STORM DRAINAGE UTILITIES						
	Storm water						
	36" RCP	**20**	lf	180.00	3,600		
	32" RCP	**125**	lf	150.00	18,750		
	30" RCP	**585**	lf	130.00	76,050		
	24" RCP	**2,875**	lf	110.00	316,250		
	18"RCP	**2,365**	lf	90.00	212,850		
	12" RCP	**8,550**	lf	75.00	641,250		
	Trench drain	**245**	lf	110.00	26,950		
	Connect to existing line	**2**	loc	2,500.00	5,000		
	OCS	**6**	ea	16,000.00	96,000		
	Manhole	**74**	loc	4,800.00	355,200		
	Catch basins	**50**	loc	4,000.00	200,000		
	Area drains	**52**	loc	1,600.00	83,200		
	Flared end section	**6**	loc	1,200.00	7,200		
	Hydrodynamic separator	**2**	loc	18,000.00	36,000		
	Bioretention	**22,900**	sf	10.00	229,000		
	Swale	**190**	lf	55.00	10,450		
	Tree box filter	**51**	loc	5,000.00	255,000		
	Underground concrete vault detention system 1 - 60' x 60' x 3.5'	**1**	ls	180,000.00	180,000		
	Underground concrete vault detention system 2 - 150' x 90' x 4'	**1**	ls	675,000.00	675,000		
	Gas service						
	Allowance for E&B trench for new gas main, pipe and install by utilities	**2,600**	lf	22.00	57,200		
	Gas Meter				NIC		
	SUBTOTAL					4,346,370	
G40	**ELECTRICAL UTILITIES**						
	Power						
	Utility company backcharges				NIC		
	Riser pole	**3**	ea	2,500.00	7,500		
	Manhole, allow	**3**	ea	7,500.00	22,500		
	Primary ductbank, empty						
	Ductbank 2-4" primary concrete encased, allow	**600**	lf	75.00	45,000		
	Pad mount transformer	**3**	ea	By Utility	NIC		
	Transformer pad	**3**	ea	2,250.00	6,750		
	Secondary 5000A ductbank, allow	**80**	lf	1,000.00	80,000		
	Secondary 2000A ductbank, allow (x2 loc)	**160**	lf	400.00	64,000		
	Generator				In interior		

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Durfee High School
New School and Renovation
Fall River, MA

14-Dec-17

Schematic Design Estimate

	CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
	SITEWORK							
270		Generator pad	**3**	ea	2,200.00	6,600		
271		Generator ductbank, allow	**200**	lf	250.00	50,000		
272		Fire Pump ductbank, allow	**100**	lf	150.00	15,000		
273		Fire alarm conduit (if required)	**100**	lf	20.00	2,000		
274		Communications						
275		Riser pole	**2**	ea	2,250.00	by utility		
276		Low voltage manhole, allow	**2**	ea	7,500.00	15,000		
277		Ductbank, allow 4-4" (x2 loc)	**600**	lf	120.00	72,000		
278		Site Lighting						
279		Site lighting allowance	**1**	ls	200,000.00	200,000		
280		Misc						
281		Refeed existing football stadium, allow	**1**	ls	50,000.00	50,000		
282		Refeed existing concession stands, allow	**1**	ls	25,000.00	25,000		
283		Ductbank, allow 4-4" (x2 loc)	**600**	lf	120.00	72,000		
284		CCTV allowance	**1**	ls	100,000.00	100,000		
285		SUBTOTAL					833,350	
286								
287		**TOTAL - SITE DEVELOPMENT**						***$17,080,054***

A.M. Fogarty & Assoc., Inc.
175 Derby St., Suite 5, Hingham, MA 02043
TEL: (781) 749-7272 • FAX: (781) 740-2652
ptim@amfogarty.com
"Construction Cost Consultants"

Schematic Cost Estimate
Durfee High School
Fall River, MA

6-Dec-17

Anticipated Bid Date: Winter 2019

Drawings Dated: Nov. 20 , 2017

Designer: Ai3

Estimator: A. M. Fogarty & Associates, Inc.

NEW ADDITION				$124,259,745
SITEWORK				$18,780,771
RENOVATION				$16,408,546
BUILDING DEMOLITION	383,687	GSF	$7.50	$2,877,653
HAZARDOUS WASTE REMOVAL				
Performing Arts Bldg ($155,000)				NIC
Athletic Building				$520,000
Academic Core Bldg				$2,035,000

TOTAL DIRECT COST				$164,881,715
Chapter 149a design/bid:				
DESIGN CONTINGENCY		10%		$16,488,171
ESCALATION (Winter 2019)		4.5%		$8,161,645
CM CONTINGENCY		1.5%		$2,842,973
GENERAL CONDITIONS	42	MOS	$145,000	$6,090,000
GENERAL REQUIREMNTS		3.0%		$5,953,935
BUILDING PERMIT		WAIVED		
P&P BOND		0.85%		$1,737,557
GENERAL LIABILITY INSURANCE		1.35%		$2,783,106
FEE		2.5%		$5,223,478

TOTAL CONSTRUCTION COST				$214,162,579
COST PER S.F.				$427.19

PROJECT:	Durfee High School	NO. OF SQ. FT.:	416,855
LOCATION:	Fall River, MA	COST PER SQ. FT.:	$347.38
CLIENT:	Leftfield, LLC		
DATE:	06-Dec-17		

NEW CONSTRUCTION

No.: 17059

SUMMARY

	TOTAL	PERCENT OF PROJECT	COST PER SF
A. SUBSTRUCTURE			
A10 - FOUNDATIONS			
A1010 STANDARD FOUNDATIONS	6,378,827	4%	15.30
A1020 SPECIAL FOUNDATIONS	0	0%	0.00
A1030 SLAB ON GRADE	2,848,860	2%	6.83
A20 - BASEMENT CONSTRUCTION			
A2010 BASEMENT EXCAVATION	0	0%	0.00
A2020 BASEMENT WALLS	0	0%	0.00
B. SHELL			
B10 - SUPERSTRUCTURE			
B1010 FLOOR CONSTRUCTION	9,920,407	7%	23.80
B1020 ROOF CONSTRUCTION	5,536,886	4%	13.28
B20 - EXTERIOR ENCLOSURE			
B2010 EXTERIOR WALLS	13,407,884	9%	32.16
B2020 EXTERIOR WINDOWS	5,900,120	4%	14.15
B2030 EXTERIOR DOORS	401,898	0%	0.96
B30 - ROOFING			
B3010 ROOF COVERINGS	3,590,334	2%	8.61
B3020 ROOF OPENINGS	201,650	0%	0.48
C. INTERIORS			
C10 - INTERIOR CONSTRUCTION			
C1010 PARTITIONS	11,739,350	8%	28.16
C1020 INTERIOR DOORS	1,946,220	1%	4.67
C1030 FITTINGS	3,843,796	3%	9.22
C20 - STAIRS			
C2010 STAIR CONSTRUCTION	759,000	1%	1.82
C2020 STAIR FINISHES	240,239	0%	0.58
C30 - INTERIOR FINISHES			
C3010 WALL FINISHES	2,306,458	2%	5.53
C3020 FLOOR FINISHES	3,372,082	2%	8.09
C3030 CEILING FINISHES	2,977,178	2%	7.14
D. SERVICES			
D10 - CONVEYING			
D1010 ELEVATORS & LIFTS	321,074	0%	0.77
D20 - PLUMBING			
D2010 PLUMBING	5,963,195	4%	14.31

Durfee High School - New Construction - Schematic Design	TOTAL	PERCENT OF PROJECT	COST PER SF
D30 - HVAC			
D3010 HVAC	15,840,490	11%	38.00
D40 - FIRE PROTECTION			
D4010 SPRINKLERS	1,980,061	1%	4.75
D4020 STANDPIPES	0	0%	0.00
D4030 FIRE PROTECTION SPECIALTIES	0	0%	0.00
D4090 OTHER FIRE PROTECTION SYSTEMS	0	0%	0.00
D50 - ELECTRICAL			
D5010 ELECTRICAL SERVICE & DISTRIBUTION	4,037,538	3%	9.69
D5020 LIGHTING & BRANCH WIRING	3,960,123	3%	9.50
D5030 COMMUNICATION & SECURITY	10,112,835	7%	24.26
D5090 OTHER ELECTRICAL SYSTEMS	170,000	0%	0.41
E. EQUIPMENT & FURNISHINGS			
E10 - EQUIPMENT			
E1010 COMMERCIAL EQUIPMENT	1,492,890	1%	3.58
E1020 INSTITUTIONAL EQUIPMENT	0	0%	0.00
E1030 VEHICULAR EQUIPMENT	0	0%	0.00
E1090 OTHER EQUIPMENT	1,732,350	1%	4.16
E20 - FURNISHINGS			
E 2010 FIXED FURNISHINGS	3,278,003	2%	7.86
E2020 MOVABLE FURNISHINGS	0	0%	0.00
F. SPECIAL CONSTRUCTION & DEMOLITION			
F10 - SPECIAL CONSTRUCTION			
F1010 SPECIAL STRUCTURES	1,765,725	1%	4.24
F20 - SELECTIVE BUILDING DEMOLITION			
F2010 BUILDING ELEMENTS DEMOLITION	0	0%	0.00
F2020 HAZARDOUS COMPONENTS ABATEMENT	0	0%	0.00
G. BUILDING SITEWORK			
G10 - SITE PREPARATION			
G1010 SITE CLEARING	1,406,355	1%	3.37
G1020 SITE DEMOLITION & RELOCATIONS	0	0%	0.00
G1030 SITE EARTHWORK	1,904,701	1%	4.57
G1040 HAZARDOUS WASTE REMEDIATION	0	0%	0.00
G20 - SITE IMPROVEMENTS			
G2010 ROADWAYS	2,524,374	2%	6.06
G2020 PARKING LOTS	0	0%	0.00
G2030 PEDESTRIAN PAVING	1,513,382	1%	3.63
G2040 SITE DEVELOPMENT	5,255,844	4%	12.61
G2050 LANDSCAPING	1,629,868	1%	3.91

Durfee High School - New Construction - Schematic Design	TOTAL	PERCENT OF PROJECT	COST PER SF
G30 - SITE MECHANICAL UTILITIES			
G3010 WATER SUPPLY	668,810	0%	1.60
G3020 SANITARY SEWER	290,118	0%	0.70
G3030 STORM SEWER	2,743,183	2%	6.58
G3040 HEATING DISTRIBUTION	0	0%	0.00
G3050 COOLING DISTRIBUTION	0	0%	0.00
G3060 FUEL DISTRIBUTION	119,136	0%	0.29
G3090 OTHER SITE MECHANICAL UTILITIES	0	0%	0.00
G40 - SITE ELECTRICAL UTILITIES			
G4010 ELECTRICAL DISTRIBUTION	475,000	0%	1.14
G4020 SITE LIGHTING	250,000	0%	0.60
G4030 SITE COMMUNICATIONS & SECURITY	0	0%	0.00
G4090 OTHER SITE ELECTRICAL UTILITIES	0	0%	0.00
G90 - OTHER SITE CONSTRUCTION			
G9090 OTHER SITE SYSTEMS	0	0%	0.00
	---	---	---
TOTAL DIRECT COST	144,806,241	100%	347.38

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

A. SUBSTRUCTURE

A10 - FOUNDATIONS

A1010 STANDARD FOUNDATIONS

033000 CAST IN PLACE CONCRETE

Perm Column Footing - (9' x 9' x 24" 247 ea):				
4,000 psi, NW, (incl. placement)	1,482	CY	230.00	340,860
Formwork	17,784	SFCA	10.00	177,840
Rebar	111,150	LBS	1.25	138,938
**unit cost $443.75*				
Int Column Footing - (10' x 10' x 24" 243ea):				
4,000 psi, NW, (incl. placement)	1,800	CY	230.00	414,000
Formwork	19,440	SFCA	10.00	194,400
Rebar	135,000	LBS	1.25	168,750
**unit cost $431.75*				
Pre-Eng. Column Footing - (6' x 6' x 24" 109ea):				
4,000 psi, NW, (incl. placement)	291	CY	230.00	66,930
Formwork	5,232	SFCA	10.00	52,320
Rebar	21,825	LBS	1.25	27,281
**unit cost $503.54*				
Perim Wall Footing 1' x 3' (2,140 LF):				
4,000 psi, NW, (incl. placement)	238	CY	230.00	54,740
Formwork	4,280	SFCA	7.00	29,960
Rebar	11,900	LBS	1.25	14,875
**unit cost $418.38*				
Foundation Perim. Wall 15"avg x 4' deep (4,212 lf):				
4,000 psi, NW, (incl. placement)	780	CY	218.00	170,040
Formwork	33,696	SFCA	16.25	547,560
Brick Shelf	3,800	LF	14.50	55,100
Reinforcing steel	117,000	LBS	1.20	140,400
**unit cost $1,170.64*				
Aud Int. Wall Footing - (1'x3'- 140 lf):				
4,000 psi, NW, (incl. placement)	16	CY	230.00	3,680
Formwork	280	SFCA	7.00	1,960
Rebar	800	LBS	1.25	1,000
**unit cost $415.00*				

Aud. Int. Found. Wall (1' x4' avg - 140 lf):

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
4,000 psi, NW, (incl. placement)	21	CY	230.00	4,830
Formwork	1,120	SFCA	7.00	7,840
Rebar	1,050	LBS	1.25	1,313
**unit cost $665.83*				
Grade Beam @ Brace Frame - (2'x2'6" - 800 lf):				
4,000 psi, NW, (incl. placement)	148	CY	230.00	34,040
Formwork	4,800	SFCA	17.00	81,600
Rebar	14,800	LBS	1.25	18,500
**unit cost $906.35*				
Concrete Allowance	400	CY	850.00	340,000
Pilaster and Piers	350	CY	1,100.00	385,000
Exterior col ftg/pier	50	EA	1,500.00	75,000
Mechanical pads - allow	1	LS	15,000.00	15,000
24" Elevator mat	12	CY	650.00	7,800
Elev sump pit	2	EA	850.00	1,700
12" Elevator pit wall	12	CY	1,100.00	13,200
Setting Anchor Bolt	600	LOC	100.00	60,000
Plate Grouting	600	LOC	125.00	75,000
072100 INSULATION				
2" Rigid ext. found. insul - 4 'd	16,848	SF	3.35	56,441
071000 DAMPPROOF., WATERPROOF. & CAULKING*				
Foundation dampproofing - 4' d	16,848	SF	2.10	35,381
Elev. pit waterproofing	2	EA	4,250.00	8,500
310000 EARTHWORK				
Remove Unsuitable Soil:				
Excavate Unsuitable - Avg 8'	51,965	CY	11.00	571,615
Excavate Unsuitable - Slope 1/1	4,992	CY	11.00	54,912
Process and Clean Spoil	56,957	CY	10.00	569,570
Recompact Spoil	59,957	CY	12.75	764,452
Allow For supply Gravel - 20%	12,000	CY	22.00	264,000
Temp Shoring Allowance at Aud	1	LS	30,000.00	30,000
Fill to raise grade	5,500	CY	22.00	121,000
Foundation excavation	9,500	CY	12.00	114,000
Foundation backfill (supply)	4,500	CY	15.00	67,500

				6,378,827

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
A1030 SLAB ON GRADE				
310000 EARTHWORK				
8" Gravel base - SOG	4,211	CY	34.25	144,219
Excavate plumbing trenches	1	LS	110,000.00	110,000
North Wing:				
Underslab Drain	59,573	SF	1.25	74,466
Geo Tech Fabric	59,753	SF	0.90	53,778
Perm Drain	4,500	LF	36.50	164,250
033000 CAST IN PLACE CONCRETE				
5" Slab on Grade - Typ:				
4,000 psi, NW, (incl. placement)	2,632	CY	235.00	618,463
Barrier One Admix	2,632	CY	65.00	171,064
6x6 W2.9 X W2.9	170,538	SF	1.74	296,736
Control Joint	11,400	LF	2.60	29,640
Depressed slab edge	400	LF	5.50	2,200
Trowel Finish	170,538	SF	2.25	383,711
*unit cost $8.81				
072100 INSULATION				
2" Rigid Slab Insul.	170,538	SF	3.25	554,249
072616 BELOW GRADE VAPOR RETARDER				
Stegro vapor barrier (15 mil)	170,538	SF	0.90	153,484
Loading Dock Ramp and Stair Structure (1 LOC):				
Dock,stair & ramp foundation	56	CY	850.00	47,600
Loading dock slab	700	SF	7.50	5,250
Ramp Pavement	300	SF	7.50	2,250
Cast stair	22	LFT	125.00	2,750
Excavate and backfill	1	LS	3,000.00	3,000
Guard rail	130	LF	225.00	29,250
Dock bumpers	1	LS	2,500.00	2,500

				2,848,860
TOTAL A10 FOUNDATIONS				9,227,687

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
B. SHELL				
B10 - SUPERSTRUCTURE				
B1010 FLOOR CONSTRUCTION				
051200 STRUCTURAL STEEL				
Floor Frame 13lbs/sf (246,317 SF):				
HSS Beam - 1 lbs/sf	123.15850	TONS	3,960.00	487,708
Wide Flange Beam - 9 lbs/sf	1108.42650	TONS	3,730.00	4,134,431
HSS Column - 2 lbs /sf	246.31700	TONS	3,975.00	979,110
HSS Brace Frame - 1 lbs /sf	123.15850	TONS	4,130.00	508,645
Shear stud (10/100sf)	24,630	EA	5.50	135,465
Auditorium:				
Seating Platform steel and concrete Premium	2,625	SF	35.00	91,875
Glu Lam and Wood Beam:				
Atrium - 2 nd Floor	3,800	SF	55.00	209,000
Atrium - 3 rd Floor	3,800	SF	55.00	209,000
TOTAL STEEL WEIGHT	1,601.1	TONS		
033000 CAST IN PLACE CONCRETE				
4 1/2" LW Deck fill	246,317	SF	7.35	1,810,430
053100 STEEL DECKING				
2" x 18 Ga. Comp Deck	246,317	SF	3.15	775,899
078120 FIREPROOFING				
Spray on Fireproofing - beam column	246,317	SF	2.35	578,845

				9,920,407
B1020 ROOF CONSTRUCTION				
051200 STRUCTURAL STEEL				

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Flat Roof Frame 13lbs/sf (128,445 SF):				
HSS Beam - 3 lbs/sf	64.22250	TONS	3,875.00	248,862
Wide Flange Beam - 9 lbs/sf	578.00250	TONS	3,610.00	2,086,589
HSS Column - 2 lbs /sf	128.44500	TONS	3,875.00	497,724
HSS Brace Frame - 1 lbs /sf	64.22250	TONS	4,130.00	265,239
Atrium Roof Frame 8lbs/sf (6264 SF):				
HSS Beam - 3 lbs/sf	9.3960	TONS	3,875.00	36,410
Wide Flange Beam - 3 lbs/sf	9.3960	TONS	3,610.00	33,920
HSS Column - 2 lbs /sf	6.2640	TONS	3,875.00	24,273
Sloped Roof Frame 13lbs/sf (33822 SF):				
HSS Beam - 3 lbs/sf	16.9110	TONS	3,875.00	65,530
Wide Flange Beam - 9 lbs/sf	152.1990	TONS	3,875.00	589,771
HSS Column - 2 lbs /sf	33.8220	TONS	3,875.00	131,060
HSS Brace Frame - 1 lbs /sf	16.9110	TONS	4,130.00	69,842
Mechanical and Low Roof 2 lbs/sf				
Wide Flange Beam - 9 lbs/sf	10	TONS	3,875.00	38,750
Clock Tower Framing	1	LS	125,000.00	125,000
Planetarium framing	1	LS	20,000.00	20,000
Allow:				
Galv. TS roof screen support (130 # / 100 LF)	12	TONS	4,100.00	49,200
Galv Roof Dunnage	25	TONS	4,200.00	105,000
033000 CAST IN PLACE CONCRETE				
4 1/2" NW deck fill F-2 (mech area)	10,000	SF	4.35	43,500
053100 STEEL DECKING				
1 1/2" x 18 Ga Typ. roof deck	162,267	SF	2.75	446,234
3" x 18 Ga roof deck - atrium	6,264	SF	7.30	45,727
061000 ROUGH CARPENTRY				
Decorative Beam:				
Atrium Roof	6,264	SF	55.00	344,520
078120 FIREPROOFING				
Spray on Fireproofing - beam column	128,445	SF	2.10	269,735

				5,536,886

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
TOTAL B10 SUPERSTRUCTURE	1,090	TONS		15,457,293

B20 - EXTERIOR ENCLOSURE

B2010 EXTERIOR WALLS

GSF Exterior 163,299 sf

040001 MASONRY*

Masonry Veneer Building:				
Modular brick veneer	92,500	SF	31.75	2,936,875
Granite Watertable veneer	15,272	SF	65.00	992,680
Add For Brick Column Detail	115	EA	500.00	57,500
Building Precast :				
Precast water table cap	1,033	LF	75.00	77,475
Precast floor band	234	LF	64.00	14,976
Precast window lintel	3,166	LF	68.00	215,288
Precast window sill/band	2,592	LF	64.00	165,888
Precast window lintel - radial	253	LF	95.00	24,035
Precast Window Surround (16 EA)	384	LF	75.00	28,800
Canopy col base	50	EA	1,500.00	75,000
S.S. Masonry flashing	25,000	LF	18.50	462,500
Staging	163,299	SF	3.00	489,897

054000 COLD FORMED METAL FRAMING

Typical wall:				
10" x 16 Ga. stud @ typ wall (per outline spec)	130,000	SF	12.20	1,586,000
2" Nailable rigid insul	130,000	SF	4.75	617,500
GFRC Tim:				
4" gfrc back-up	31,058	SF	5.00	155,290
Bldg Soffit:				
4" gfrc back-up	7,200	SF	5.00	36,000
2" Nailable rigid insul	7,200	SF	4.75	34,200

050001 MISCELLANEOUS & ORNAMENTAL IRON*

Galv Loose lintel	420	LF	34.00	14,280
Misc. Ex Metals	1	LS	50,000.00	50,000
GFRC Specialties:				
Fiberglass Clock Tower	1	LS	175,000.00	175,000

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
GFRP:				
Roof Cornice	4,122	LF	145.00	597,690
Entablature and Architrave	13,985	SF	75.00	1,048,875
Column Face	8,829	SF	75.00	662,175
Banding	252	LF	75.00	18,900
Brick Column Capitol	115	EA	900.00	103,500
Brick column base	115	EA	1,100.00	126,500
Soffit Panel	7,200	SF	75.00	540,000
GFRC window surround	384	LF	55.00	21,120
071000 DAMPPROOF., WATERPROOF. & CAULKING*				
Exterior Sealant	1	LS	125,000.00	125,000
071326 AIR & VAPOR BARRIERS				
Adhered air & vapor barrier - wall :				
Typical wall	130,000	SF	8.00	1,040,000
Soffit bldg overhang	7,200	SF	8.00	57,600
072100 INSULATION				
Typ Exterior Wall:				
R-12 Spray foam at stud	130,000	SF	3.30	429,000
Roof Screen	1,000	SF	55.00	55,000
092116 GYPSUM WALLBOARD				
1 lyr 5/8" gyp. at ext.	115,000	SF	2.50	287,500
101400 IDENTIFYING DEVICES				
16" Alum bldg mtd letter (1LOC)	16	EA	365.00	5,840
109000 MISCELLANEOUS SPECIALTIES				
Clock Mechanism	1	LS	30,000.00	30,000
Misc. Specialties	1	LS	50,000.00	50,000

				13,407,884

B2020 EXTERIOR WINDOWS

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
061000 ROUGH CARPENTRY				
P.T. - perim blocking 2x8	24,000	LF	6.25	150,000
071326 AIR & VAPOR BARRIERS				
Flex flashing - perim	24,000	LF	8.00	192,000
071000 DAMPPROOF., WATERPROOF. & CAULKING*				
Exterior sealants - perim.	24,000	LF	9.00	216,000
080001 METAL WINDOWS*				
7 1/2" Curtain Wall - bldg	17,863	SF	115.00	2,054,245
7 1/2" Curtain Wall - connector	3,505	SF	115.00	403,075
Aluminum Storefront/Window - bldg	29,013	SF	90.00	2,611,170
Aluminum Storefront/Window - per engineered	457	SF	90.00	41,130
Aluminum Sun shading Devices	1	LS	100,000.00	100,000
Security Glazing Film - ALLOW:				
Select First Floor	500	SF	75.00	37,500
Exterior Wall Mock-up	1	LS	45,000.00	45,000
109000 MISCELLANEOUS SPECIALTIES				
Misc Alum louvers -allow	1	LS	50,000.00	50,000

				5,900,120

B2030 EXTERIOR DOORS

061000 ROUGH CARPENTRY				
P.T. - perim blocking HM open	145	LF	8.00	1,160
071000 DAMPPROOF., WATERPROOF. & CAULKING*				
Exterior sealants - perim. HM open	145	LF	7.50	1,088
080001 METAL WINDOWS*				
8' Alum. Doors (Incl. Hardware):				

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Main entry - dbl	30	PR	8,100.00	243,000
Classroom - dbl	2	PR	8,100.00	16,200
TV Wait Entrance - sgl	1	EA	4,250.00	4,250
ECC Entry - sgl	1	EA	4,250.00	4,250
081113 HOLLOW METALWORK				
Insulated HM Doors and Frame:				
Receiving - sgl	1	EA	825.00	825
Shop - sgl	2	EA	825.00	1,650
Receiving/Theater - dbl	4	EA	1,650.00	6,600
OH door @ Glazed Tech.	2	EA	14,000.00	28,000
OH door @ Receiving	1	EA	5,500.00	5,500
OH door @ Shop	2	EA	6,800.00	13,600
087100 DOOR HARDWARE				
Auto opener:				
Main entry	8	LOC	7,600.00	60,800
Ext HM Door HDW SET:				
Receiving - sgl	1	EA	1,200.00	1,200
Shop - sgl	2	EA	1,200.00	2,400
Receiving/Theater - dbl	4	EA	2,500.00	10,000
090007 PAINTING*				
Paint HM door & Frame - sgl	3	EA	125.00	375
Paint HM door & Frame - dbl	4	EA	250.00	1,000

				401,898
TOTAL B20 - EXTERIOR ENCLOSURE				19,709,902

B30 - ROOFING

B3010 ROOF COVERINGS

061000 ROUGH CARPENTRY

Roof Blocking @:				
Perimeter	9,620	LF	15.00	144,300
Equip and opening blocking	1	LS	30,000.00	30,000

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
070002 ROOFING AND FLASHING*				
Membrane Roof				
Typ - PVC roof w/ 7" rigid insul	134,709	SF	14.50	1,953,281
1/2" Gyp prot. bd w/glass mat facing	134,709	SF	1.48	199,369
Poly vapor barrier	134,709	SF	0.85	114,503
Walkway pads -allow	20,000	SF	5.25	105,000
Membrane flashing	134,709	SF	0.75	101,032
Aluminum Flashing:				
Base flashing	823	LF	28.00	23,044
Eave flashing	8,500	LF	20.00	170,000
Alum coping at connector	217	LF	20.00	4,340
Sloped Roof :				
Asphalt Shingle	33,882	SF	7.50	254,115
Asphalt Shingle - bell tower	1,000	SF	22.00	22,000
6" Nailable Rigid Insul	33,882	SF	7.75	262,586
Ice and water shield	33,882	SF	3.85	130,446
Protection board w/ adhered FT air and vapor ba	33,882	SF	0.85	28,800
Alum Gutter	450	LF	48.00	21,600
Alum Downspout	720	LF	36.00	25,920

				3,590,334
B3020 ROOF OPENINGS				
083323 SPECIAL DOORS				
Elevator vent	2	EA	1,200.00	2,400
Roof Hatch	5	EA	4,850.00	24,250
Smoke Hatch	2	EA	12,500.00	25,000
Planetarium Access Roof dome	1	LS	150,000.00	150,000

				201,650
TOTAL B30 ROOFING				3,791,984

C. INTERIORS

C10 - INTERIOR CONSTRUCTION

C1010 PARTITIONS

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
CMU Partition	45,000	SF	21.00	945,000
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Masonry Metal	45,000	SF	2.00	90,000
Operable and Grill Supports	1	LS	50,000.00	50,000
Expansion joints	1	LS	75,000.00	75,000
061000 ROUGH CARPENTRY				
Interior blocking	416,855	GSF	0.50	208,428
Interior Staging and Lifts	1	LS	150,000.00	150,000
Misc. rough carpentry	416,855	GSF	0.50	208,428
072100 INSULATION				
Firestopping	416,855	GSF	0.72	300,136
071000 DAMPPROOF., WATERPROOF. & CAULKING*				
Joint sealants	416,855	GSF	0.85	354,327
083323 SPECIAL DOORS				
Access panels	1	LS	200,000.00	200,000
080001 METAL WINDOWS*				
Aluminum Storefront Frame, Glass & Glazing:				
Vestibule - 10'	765	SF	86.00	65,790
Teacher Area - 7'	83	SF	86.00	7,138
Student Commons - 7'	1,480	SF	86.00	127,280
SPED -7'	52	SF	86.00	4,472
Shop - 7'	223	SF	86.00	19,178
Science Lab -7'	106	SF	86.00	9,116
Robotics - 7'	64	SF	86.00	5,504
Nurse - 7'	107	SF	86.00	9,202
Media/Cyber café - 7'	742	SF	86.00	63,812
Maker Space - 7'	70	SF	86.00	6,020
Home Ec - 7'	54	SF	86.00	4,644
Group Seminar - 7'	146	SF	86.00	12,556
Culinary Arts - 7'	245	SF	86.00	21,070
Cosmo Wait - 7'	250	SF	86.00	21,500
Café - 7'	226	SF	86.00	19,436
Art Rm - 7'	202	SF	86.00	17,372

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Admin - 7'	980	SF	86.00	84,280
Admin @ Entry - 7'	1,464	SF	86.00	125,904
Stair Enclosure:				
Stair Dbl Door	9	EA	4,200.00	37,800
Interior window	360	SF	110.00	39,600
Aluminum Curtainwall:				
Entries - 2 story mostly	4,000	SF	100.00	400,000
Café - 14'	4,613	SF	100.00	461,300
Frameless Sliding Glass Door:				
Conference Room (8 ea)	531	SF	95.00	50,445
Classroom (78 ea)	5478	SF	95.00	520,410
Nano Wall:				
Culinary Art - 8'	398	SF	175.00	69,650
Art Rm - 8'	488	SF	175.00	85,400
Operable Glass wall - campus store	180	SF	165.00	29,700
092116 GYPSUM WALLBOARD				
Drywall Partitions :				
2 hr Mech Rm and Shaft	3,286	SF	16.00	52,576
2 hr Stair	8,000	SF	16.25	130,000
Auditorium Chase	3,500	SF	15.00	52,500
Auditorium - 2 hr	8,500	SF	21.00	178,500
Auditorium - Interior	8,500	SF	14.50	123,250
Auditorium low wall	1,500	SF	11.00	16,500
Typical Chase	6,453	SF	9.50	61,304
Corridor	164,166	SF	15.00	2,462,490
Demising Classroom	118,351	SF	12.50	1,479,388
Elevator shaft	3,185	SF	16.25	51,756
Typical Interior	69,040	SF	11.00	759,440
Acoustical - Music Rm	11,230	SF	22.00	247,060
Furr and Gyp Ext of Pre-engineered bldg	16,500	SF	9.50	156,750
Criedit CMU Part	-45,000	SF	10.00	-450,000
Interior Partition allowance	416,855	SF	2.50	1,042,138
Load, Distribute and Misc.	416,855	SF	0.50	208,428
Abuse resistant GWB premium	200,000	SF	0.95	190,000

109000 MISCELLANEOUS SPECIALTIES

Operable Partition

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
ROTC - 9'	276	SF	125.00	34,500
Maker Space - 9'	343	SF	125.00	42,875

				11,739,350

C1020 INTERIOR DOORS

081113 HOLLOW METALWORK

Int. HM Frame 7'H:				
Single Door	511	EA	285.00	145,635
Double Door	51	EA	305.00	15,555
Door Sidelight (12 ea)	252	SF	46.00	11,592
Classroom Sidelight	6,058	SF	46.00	278,668
Interior HM Windows - 4' high:				
TV Studio	102	SF	46.00	4,692
Music Office	52	SF	46.00	2,392
Kitchen	28	SF	46.00	1,288
Graphic Arts	104	SF	46.00	4,784
ECC	42	SF	46.00	1,932
Digital Lab	53	SF	46.00	2,438
Control Booth	48	SF	46.00	2,208
Aud Ticket Office	12	SF	46.00	552
Architectural Design	54	SF	46.00	2,484

081416 WOOD AND PLASTIC DOORS

SC Wood Door - Prefinished 7'H:				
Admin - sgl	110	EA	650.00	71,500
Auditorium - dbl	7	EA	1,500.00	10,500
Bathroom - sgl	62	EA	520.00	32,240
Classroom - sgl	189	EA	650.00	122,850
Classroom - dbl	1	EA	1,300.00	1,300
Corridor - dbl	21	EA	1,800.00	37,800
Control booth - sgl	1	EA	800.00	800
Kitchen - sgl	24	EA	520.00	12,480
Kitchen -dbl	5	EA	1,250.00	6,250
Media - dbl	2	EA	1,500.00	3,000
Media - sgl	13	EA	750.00	9,750
MEP - sgl	36	EA	550.00	19,800
MEP - dbl	3	EA	1,100.00	3,300
Music rm - sgl	7	EA	720.00	5,040
Music rm - dbl	4	EA	1,475.00	5,900
Prep - sgl	37	EA	550.00	20,350

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Shop - sgl	9	EA	550.00	4,950
Stair - sgl	5	EA	750.00	3,750
Stair - dbl	2	EA	1,550.00	3,100
Storage - sgl	10	EA	465.00	4,650
Storage - dbl	6	EA	930.00	5,580
TV Studio - sgl	8	EA	800.00	6,400
080002 GLASS AND GLAZING*				
Sidelight:				
Door Sidelight (12 ea)	252	SF	42.00	10,584
Classroom Sidelight	6,058	SF	42.00	254,436
HM Frame Glazing:				
TV Studio	102	SF	75.00	7,650
Music Office	52	SF	75.00	3,900
Kitchen	28	SF	40.00	1,120
Graphic Arts	104	SF	40.00	4,160
ECC	42	SF	40.00	1,680
Digital Lab	53	SF	40.00	2,120
Control Booth	48	SF	75.00	3,600
Aud Ticket Office	12	SF	65.00	780
Architectural Design	54	SF	40.00	2,160
087100 DOOR HARDWARE				
Interior Door Finish Hardware Set::				
Auditorium - dbl	7	EA	750.00	5,250
Bathroom - sgl	62	EA	750.00	46,500
Classroom - sgl	189	EA	800.00	151,200
Classroom - dbl	1	EA	850.00	850
Corridor - dbl	21	EA	1,100.00	23,100
Control booth - sgl	1	EA	3,500.00	3,500
Kitchen - sgl	24	EA	3,500.00	84,000
Kitchen -dbl	5	EA	1,200.00	6,000
Media - dbl	2	EA	1,900.00	3,800
Media - sgl	13	EA	2,500.00	32,500
MEP - sgl	36	EA	550.00	19,800
MEP - dbl	3	EA	900.00	2,700
Music rm - dbl	4	EA	1,100.00	4,400
Prep - sgl	37	EA	1,600.00	59,200
Shop - sgl	9	EA	550.00	4,950
Stair - sgl	5	EA	2,200.00	11,000
Stair - dbl	2	EA	3,500.00	7,000
Storage - sgl	10	EA	450.00	4,500
Storage - dbl	6	EA	600.00	3,600
TV Studio - sgl	8	EA	1,500.00	12,000

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Music Rm - sgl Premium	7	EA	1,500.00	10,500
080001 METAL WINDOWS*				
7' Aluminum (Frame, Door, Glass, Glazing and Hdw):				
8' Vest - dbl	11	PR	7,850.00	86,350
Admin - sgl	6	EA	2,850.00	17,100
Café - dbl	10	PR	7,850.00	78,500
083323 SPECIAL DOORS				
Kitchen / servery	100	SF	110.00	11,000
Overhead Doors:				
Shop	3	EA	7,500.00	22,500
Science Room	1	EA	7,500.00	7,500
Kitchen	1	EA	7,500.00	7,500
090007 PAINTING*				
Single Door	511	EA	100.00	51,100
Double Door	51	EA	150.00	7,650
Sidelight and Transom Frame	495	SF	6.00	2,970

				1,946,220
C1030 FITTINGS				
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Floor Opening Guard railing:				
Second Floor	387	LF	375.00	145,125
Third Floor	357	LF	375.00	133,875
Auditorium:				
HVAC Metal grille - allow	1	LS	10,000.00	10,000
Supplemental framing @ clouds	1	LS	25,000.00	25,000
Balcony Railing	50	LF	175.00	8,750
Guard rail @ Side isle	80	LF	200.00	16,000
Guard rail @ cast aisle stair	44	LF	225.00	9,900
Low wall mtl rail supports	50	LF	140.00	7,000
Stage equip. & curtain supports	1	LS	50,000.00	50,000
OT/PT equip support	1	LS	25,000.00	25,000
Gyp equip supports	1	LS	10,000.00	10,000

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Platform equip. supports	1	LS	15,000.00	15,000
Misc. metals	416,855	GSF	1.00	416,855
Large Group Seminar:				
Terraced Floor Structure	1,440	SF	45.00	64,800
Side Railing	50	LF	300.00	15,000
PL Lecture Desk top and vanity	240	LF	350.00	84,000
Fixed stair	96	EA	275.00	26,400
062000 FINISH CARPENTRY				
Utility & closet shelving	1	LS	50,000.00	50,000
Solid surface window sill/apron	4,429	LF	46.00	203,734
Auditorium Wood Trim:				
Main entry dr surround	2	EA	5,000.00	10,000
Control rm window surround	1	EA	2,000.00	2,000
Wainscot/stage front wall panel	700	SF	65.00	45,500
Proscenium trim/boxed col	1,200	SF	65.00	78,000
Low wall cap 18"	100	LF	65.00	6,500
Misc. running trim	1	LS	50,000.00	50,000
Wall Panel & Trim :				
Auditorium	4,500	SF	55.00	247,500
Entry and Lobbies:				
Allow for panel and Millwork	1	LS	150,000.00	150,000
Fabric Wrapped Acoustical Panels - Allow:				
Music Rm	1,000	SF	32.00	32,000
Music practice rm	300	SF	32.00	9,600
Media center	1,000	SF	32.00	32,000
Commons	2,000	SF	36.00	72,000
Solid Surface Counter/Casework - Allow:				
Recycling center - café	75	LF	400.00	30,000
Recycling center - corridor (8 EA)	80	LF	400.00	32,000
Media Center:				
Library circulation desk	40	LF	1,050.00	42,000
Library comp desk (4 EA)	64	LF	350.00	22,400
Mic Running Trim	1	LS	25,000.00	25,000
Administration:				
Administration office desk - front	24	LF	800.00	19,200

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Administration mail box w/base cab	15	LF	800.00	12,000
Administration mail box w/ctr	15	LF	900.00	13,500
102113 COMPARTMENTS & CUBICLES				
Bathroom Toilet Partitions:				
Std. partition	50	EA	1,400.00	70,000
HC partition	26	EA	1,600.00	41,600
Urinal screen	6	EA	310.00	1,860
102813 TOILET ACCESSORIES				
Furnish & Install Toilet Rm Accessories:				
Elec hand dryer -	88	EA	950.00	83,600
Waste receptacle -allow	88	EA	250.00	22,000
Tilt mirror @ wall hung lav	116	EA	225.00	26,100
Grab bars	178	EA	95.00	16,910
San. prod. dispenser	45	EA	85.00	3,825
San. prod. disposal	65	EA	60.00	3,900
Coat hook -allow	146	EA	22.00	3,212
Diaper changing sta - health office	1	EA	550.00	550
Janitor shelf	6	EA	200.00	1,200
*soap and paper accessories by others				
101100 MARKERBOARDS & TACKBOARDS				
Markert board				
Marker Board	27,300	SF	18.50	505,050
Tack board	6,000	SF	14.50	87,000
Display Case	1	LS	75,000.00	75,000
109000 MISCELLANEOUS SPECIALTIES				
Type 1 staff locker(12"wx15" sgl tier)	40	EA	260.00	10,400
Kitchen corner guards	1	LS	15,000.00	15,000
Fire extinguisher and cab - allow	150	EA	550.00	82,500
AED cabinets	30	EA	750.00	22,500
Cubicle curtain track w/ curtain	10	EA	1,325.00	13,250
*Includes Sections 102600 & 105113				
CMU Locker Base:				
Custodial	50	LF	44.00	2,200
101400 IDENTIFYING DEVICES				

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Allow:				
Building directory	1	EA	5,000.00	5,000
Dedication plaque	1	EA	3,500.00	3,500
School branding and Signage	1	LS	500,000.00	500,000

				3,843,796
TOTAL C10 - INTERIOR CONSTRUCTION				17,529,366

C20 - STAIRS

C2010 STAIR CONSTRUCTION

050001 MISCELLANEOUS & ORNAMENTAL IRON*

Stair #1	2	FLTS	75,000.00	150,000
Stair #2	2	FLTS	45,000.00	90,000
Stair #3	2	FLTS	35,000.00	70,000
Stair #4	2	FLTS	45,000.00	90,000
Stair #5	2	FLTS	45,000.00	90,000
Stair #6	2	FLTS	45,000.00	90,000
Stair #7	2	FLTS	45,000.00	90,000
Roof access ladder	4	EA	6,500.00	26,000

033000 CAST IN PLACE CONCRETE

Conc stair pan fill (14 FLT):				
Metal pan stair treads and risers	14	EA	4,500.00	63,000

				759,000

C2020 STAIR FINISHES

090005 RESILIENT FLOORING*

Stair Hall:				
Rubber treads and risers	2,834	FLTS	14.50	41,093
Rubber tile landing	2,913	SF	12.00	34,956

TERRAZZO

Precast Terrazzo Tread	294	LF	135.00	39,690

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Epoxy Terrazzo	300	SF	65.00	19,500
090007 PAINTING*				
Paint stair (NIC SS rails)	14	FLTS	7,500.00	105,000

				240,239
TOTAL C20 - STAIRS				999,239
C30 - INTERIOR FINISHES				
C3010 WALL FINISHES				
0410000 INIT MASONRY				
Brick Veneer at Atrium	3,714	SF	35.00	129,990
Int Precast trim	3	LOC	3,000.00	9,000
090002 TILE*				
Ceramic Wall Tile:				
Corridor wall tile	40,000	SF	21.00	840,000
Bathroom - Wet wall - 9'	8,063	SF	21.00	169,323
Corridor - 3'		N/A		
Kitchen/Servery - 9'	13,552	SF	21.00	284,592
FRP - Kitchen Storage	2,000	SF	9.50	19,000
090007 PAINTING*				
Interior painting- walls	416,855	GSF	2.05	854,553
Vinyl wall covering		NIC		

				2,306,458
C3020 FLOOR FINISHES				
033000 CAST IN PLACE CONCRETE				
Polish & Industrial sealer concrete	9,152	SF	4.00	36,608
Painted Concrete Floor	11,505	SF	2.00	23,010

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
090002 TILE*				
Ceramic Tile:				
Toilet room floor tile	12,843	SF	24.25	311,443
Ceramic Wall Base	2,907	LF	6.25	18,169
Tile Threshold	1	LS	25,000.00	25,000
Waterproofing - upper floors	7,151	SF	8.50	60,784
Porcelain Large Format Tile:				
Administration Area	576	SF	21.00	12,096
Kitchen/Servery	13,835	SF	21.00	290,535
PT Base	2,800	LF	11.50	32,200
090005 RESILIENT FLOORING*				
VCT:				
Corridor	64,297	SF	4.00	257,188
Classroom	126,942	SF	4.00	507,768
LST:				
Corridor	34,696	SF	7.75	268,894
Classroom	15,531	SF	7.75	120,365
Rubber Floor:				
Classroom	6,075	SF	12.00	72,900
Stair Hall		see stairs		
Anti Static Tile Floor:				
IDF/MDF	2,344	SF	12.50	29,300
Laminate Flooring				
Stage	2,690	SF	15.00	40,350
SSV - Sheet Vinyl				
Classroom	52,185	SF	8.00	417,480
Premium Resilient Adhesive	304,760	SF	1.00	304,760
Rubber base and Accessories	416,855	GSF	0.50	208,428
096800 CARPET				
Seminar	4,686	SF	5.00	23,430
Auditorium (mix of wsf/cpt/pt)	6,135	SF	6.00	36,810
Admin	38,624	SF	5.00	193,120
Premium Carpet Adhesive	49,445	SF	1.00	49,445

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
124813 MATS				
Walk off mat	2,000	SF	16.00	32,000

				3,372,082
C3030 CEILING FINISHES				
092116 GYPSUM WALLBOARD				
Gyp Ceiling:				
Gyp Ceiling	15,000	SF	11.25	168,750
Gyp Soffit and Frame	416,855	SF	0.50	208,428
090003 ACOUSTICAL TILE*				
ACT 2 x 2	300,000	SF	5.25	1,575,000
ACT Premium	75,000	SF	12.00	900,000
Sound reflector (2 EA)	750	SF	100.00	75,000
090007 PAINTING*				
Paint gyp ceiling	50,000	SF	1.00	50,000

				2,977,178
TOTAL C30 - INTERIOR FINISHES				8,655,717
D. SERVICES				
D10 - CONVEYING				
D1010 ELEVATORS & LIFTS				
140001 ELEVATORS & LIFTS*				
Elev #1	3	STOP	51,500.00	154,500
Elev #2	3	STOP	51,500.00	154,500
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Elev. framing	2	EA	3,000.00	6,000

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Elev. pit ladder	2	EA	1,537.00	3,074
Elev. sump grate	2	EA	1,500.00	3,000

				321,074
TOTAL D10 - CONVEYING				321,074

D20 - PLUMBING

D2010 PLUMBING

220001 PLUMBING*

Fixtures:				
P1 - Water closet	58	EA	1,875.00	108,750
P1A - Water closet ADA	89	EA	1,875.00	166,875
P2A - Lav	116	EA	1,345.00	156,020
P3 - Urinal	28	EA	1,650.00	46,200
P4 - Drinking Fountain (hi lo w/ bottle fill)	12	EA	4,800.00	57,600
P5 - Mop sink	6	EA	1,375.00	8,250
P6 - Sink	42	EA	1,700.00	71,400
P8 - Science sink	189	EA	1,900.00	359,100
P9 - Art room sink basin	5	EA	1,950.00	9,750
P-11 Laundry Connection box	3	LS	1,200.00	3,600
P-12 - Eye wash	18	EA	2,300.00	41,400
Fixture Rough-in	560	EA	250.00	140,000
Auto Sensor (hard wire):				
Flush valve	174	EA	550.00	95,700
Lav Sensor	115	EA	495.00	56,925
Domestic Electric Water Heater	1	LS	250,000.00	250,000
Kitchen equipment hookup	1	LS	175,000.00	175,000
Int. grease interceptor	5	EA	6,500.00	32,500
Roof/Storm Drain System				
Roof Drain and Piping	120	EA	3,900.00	468,000
Sanitary System				
Underground D/W/V Pipe:				
2"	600	LF	30.75	18,450
4"	3,200	LF	44.00	140,800
8"	850	LF	95.00	80,750
FCO	45	EA	425.00	19,125

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Floor Sink	8	EA	3,000.00	24,000
FD	45	EA	650.00	29,250
Above Ground D/W/V Pipe:				
2"-4"	20,500	LF	45.00	922,500
FD	40	EA	650.00	26,000
5,000 gal, PC Grease Trap	1	LS	22,500.00	22,500
Gas Oil Separator at Garage	1	LS	20,000.00	20,000
Copper Pipe:				
3/4"- 6"	33,000	LF	45.00	1,485,000
1" Pipe Insul.:				
3/4"-4"	33,000	LF	8.75	288,750
Elev Sump Pump	2	EA	3,500.00	7,000
Acid Neutralization	1	LS	45,000.00	45,000
Gas Pipe:				
Boiler Connections	150	LF	55.00	8,250
Generator Connection (not inc site)	250	LF	55.00	13,750
Science Room	5,500	LF	40.00	220,000
Shut off and valves	1	LS	50,000.00	50,000
Underground Water Service:				
Sub metering	1	LS	20,000.00	20,000
Water service BFP and meter rough in	1	LS	25,000.00	25,000
Test , permit misc gc	1	LS	150,000.00	150,000
General Requirement Temp Gas Piping	1	LS	100,000.00	100,000
*Excludes rain water harvest				

				5,963,195
TOTAL D20 - PLUMBING	$14.31	/SF		5,963,195

D30 - HVAC

D3010 HVAC

230001 HVAC*

HVAC	416,855	SF	38.00	15,840,490

				15,840,490

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
TOTAL D30 - HVAC	$38.00	/sf		15,840,490

D40 - FIRE PROTECTION

D4010 SPRINKLERS

210001 FIRE SUPPRESSION*

Sprinkler System	416,855	GSF	4.75	1,980,061
Fire Pump		NIC		

				1,980,061

TOTAL D40 - FIRE PROTECTION	$4.75	/sf		1,980,061

D50 - ELECTRICAL

D5010 ELECTRICAL SERVICE & DISTRIBUTION

260001 ELECTRICAL*

Service, Panels and Feeders	416,855	SF	5.00	2,084,275
500 kw Emergency Power	1	EA	265,000.00	265,000
General Power Devices	416,855	SF	2.30	958,767
Mechanical Wiring	416,855	SF	1.75	729,496

				4,037,538

D5020 LIGHTING & BRANCH WIRING

Interior Lighting	416,855	SF	7.50	3,126,413
Lighting Control	416,855	SF	2.00	833,710

				3,960,123

D5030 COMMUNICATION & SECURITY

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Tele/data/security/clock:				
Rough-in only	416,855	SF	1.50	625,283
Communication and AVA Allowance	416,855	SF	20.00	8,337,100
Fire Alarm	416,855	SF	2.40	1,000,452
BDA	1	LS	150,000.00	150,000

				10,112,835
D5090 OTHER ELECTRICAL SYSTEMS				
Lightning Protection	1	LS	120,000.00	120,000
PV Rough-in only	1	LS	50,000.00	50,000

				170,000
TOTAL D50 - ELECTRICAL	$43.85	/sf		18,280,495

E. EQUIPMENT & FURNISHINGS

E10 - EQUIPMENT

E1010 COMMERCIAL EQUIPMENT

114000 FOOD SERVICE EQUIPMENT

Kitchen & Servery equipment & casework :				
Ground Floor	1	LS	713,055.00	713,055
Upper Floor	1	LS	210,700.00	210,700
Culinary program	1	LS	569,135.00	569,135
*Email 11/30/17				

				1,492,890

E1090 OTHER EQUIPMENT

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
113100 APPLIANCES				
Custodial				
Washer	1	EA	1,500.00	1,500
Dryer	1	EA	1,500.00	1,500
Break Rm Kitchen Appliances	1	LS	3,000.00	3,000
Staff Lunch & Teacher Work Rm(3 EA):				
Refrigerator 18 CF	3	EA	1,400.00	4,200
Dishwasher	3	EA	950.00	2,850
Microwave	3	EA	500.00	1,500
Classroom (8 EA):				
Refrigerator 18 CF	8	EA	1,400.00	11,200
Cooktop	8	EA	750.00	6,000
Range Hood	8	EA	325.00	2,600
Dishwasher	8	EA	950.00	7,600
Microwave	8	EA	500.00	4,000
Main Office:				
Under counter refrigerator	2	EA	1,200.00	2,400
Microwave	2	EA	650.00	1,300
Medical Office :				
Refrigerator 18 CF	2	EA	1,400.00	2,800
Under counter icemaker	2	EA	1,200.00	2,400
115700 EQUIPMENT				
Planetarium	1	LS	150,000.00	150,000
Fred TV	1	LS	250,000.00	250,000
Shop and Tech Equipment	1	LS	250,000.00	250,000
Science Room	19	EA	10,000.00	190,000
Science Prep Room	8	EA	7,500.00	60,000
Large Group Seminar	1	LS	75,000.00	75,000
Art Room	1	LS	15,000.00	15,000
116100 THEATRE EQUIPMENT				
Stage Rigging and Curtains	1	LS	350,000.00	350,000
Choral Riser	1	LS	55,000.00	55,000
Auditorium seat	750	EA	310.00	232,500
115213 PROJECTION SCREENS				

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Projection screen - elec op	2	EA	25,000.00	50,000
119000 MISC. EQUIPMENT				
Metal storage shelving		NIC		
Library equipment		NIC		

				1,732,350
TOTAL E10 - EQUIPMENT				3,225,240
E20 - FURNISHINGS				
E 2010 FIXED FURNISHINGS				
Architectural Casework	416,855	GSF	7.00	2,917,985
122413 ROLLER SHADES				
Ext Meco Shade - Manual:				
Alum Storefront	29,470	SF	7.75	228,393
Ext Meco Shade - Elec:				
Assume 25% of Curtainwall	4,465	SF	25.00	111,625
Int blinds wind, sl and storefront	1	LS	20,000.00	20,000

				3,278,003
E2020 MOVABLE FURNISHINGS		NIC		

				0
TOTAL E20 - FURNISHINGS				3,278,003
F. SPECIAL CONSTRUCTION & DEMOLITION				
F10 - SPECIAL CONSTRUCTION				
F1010 SPECIAL STRUCTURES				
131500 PRE-ENGINEERED STRUCTURE				

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Pre-engineered Building -INC WALL AND RO	27,165	GSF	65.00	1,765,725

				1,765,725
TOTAL F10 - SPECIAL CONSTRUCTION				1,765,725

F20 - SELECTIVE BUILDING DEMOLITION

F2010 BUILDING ELEMENTS DEMOLITION See Grand Summary

0

F2020 HAZARDOUS COMPONENTS ABATEMENT See Grand Summary

0

TOTAL F20 - SELECTIVE BUILDING DEMOLITION 0

G. BUILDING SITEWORK

G10 - SITE PREPARATION

G1010 SITE CLEARING

311000 SITE PREPARATION & CLEARING

Remove Existing:				
Softball backstop & fencing	1	LOC	5,000.00	5,000
Baseball backstop & fencing (prot filed)	1	LOC	5,000.00	5,000
Art. Turf & baseball batting cages	2	LOC	2,500.00	5,000
Wood shed 8'x8'	1	EA	2,500.00	2,500
Stl storage container - soft ball filed	1	EA	2,500.00	2,500
Tennis court paving	58,073	SF	1.10	63,880
Tennis court fence & gates	1,446	LF	5.00	7,230
Seat wall	239	LF	45.00	10,755
Bituminous drive & curbing-allow	260,000	SF	1.00	260,000
Bituminous walk-allow	34,000	SF	0.95	32,300
Concrete ramps and stoops - allow	5,000	SF	3.00	15,000
Elsbree St concrete side walk	6,150	LF	3.00	18,450

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Elsbree St curb	1,025	LF	15.00	15,375
Chain link fence-allow	1,000	LF	5.00	5,000
Equip & enclosure (875 sf)	1	LOC	3,000.00	3,000
Parking lot light	1	LS	25,000.00	25,000
Parking & traffic signs	1	EA	3,000.00	3,000
Salvage Existing:				
Clock Tower - relocate bells	1	LS	20,000.00	20,000
Brick pavers - allow	1	LS	5,000.00	5,000
Memorial items - allow	1	LS	5,000.00	5,000
Remove & reset fence (1 loc)	133	LF	30.00	3,990
Construction entrance and staging	2	EA	10,000.00	20,000
Construction fence	7,000	LF	12.00	84,000
Temporary Protection Logistics	1	LS	50,000.00	50,000
Erosion control	4,600	LF	4.50	20,700
Drain inlet protection - allow	40	EA	50.00	2,000
Erosion control maintenance	1	LS	30,000.00	30,000
Protection:				
Tree protection	1	LS	5,000.00	5,000
Temporary Drive	1	LS	50,000.00	50,000
Remove Utilities:				
Cut & cap site utilities	1	LS	50,000.00	50,000
Remove SMH Utility structure	10	EA	425.00	4,250
Remove sanitary	2,805	LF	40.00	112,200
Remove water line	3,607	LF	25.00	90,175
Remove gas line	2,261	LF	25.00	56,525
Remove catch basin/drain manhole -allow	1	LS	10,000.00	10,000
Remove Drain line -allow	1	LS	40,000.00	40,000
Remove trees	1	LS	25,000.00	25,000
Remove shrubs	1	LS	20,000.00	20,000
Clear & grub	1	LS	20,000.00	20,000
Sawcut pavement	1,600	LF	3.50	5,600
Misc. site preparation	1,319,500	SF	0.15	197,925

				1,406,355

G1020 SITE DEMOLITION & RELOCATIONS W /SITE PREP

0

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
G1030 SITE EARTHWORK				
310000 EARTHWORK				
Site Cut and Fill to Rough Grade:				
Strip and Dispose Top Soil-6"	18,500	CY	12.50	231,250
Site Cut	25,000	CY	9.00	225,000
Site Fill - reuse	25,000	CY	9.00	225,000
Site fill - supply	25,000	CY	18.00	450,000
Site Rough Grading	146,609	SY	2.30	337,201
Layout, Mobilization, Supervision	1	LS	75,000.00	75,000
Fill allowance at Demo'd Bldg	2,500	CY	18.50	46,250
Ledge Removal - Allowance:				
Ledge removal - open	1,500	CY	85.00	127,500
Ledge removal - trench	1,500	CY	125.00	187,500

				1,904,701
G1040 HAZARDOUS WASTE REMEDIATION		NIC		

				0
TOTAL G10 - SITE PREPARATION				3,311,056
G20 - SITE IMPROVEMENTS				
G2010 ROADWAYS				
321000 PAVING AND CURBING				
Bituminous Pavement (2" Wear & 2 1/2" Base):				
Bit Pavement	37,751	SY	27.50	1,038,153
12" Gravel base @ bit drive	12,584	CY	31.00	390,104
Vehicular Concrete Pavement:				
8" Concrete pavement	13,694	SF	10.50	143,787
8" Gravel base @ conc. pavement	507	CY	31.00	15,717
Site Curbing:				

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Granite curb - straight	12,507	LF	41.00	512,787
Granite curb - radial	2,327	LF	45.50	105,879
Elsbree Street Curbing:				
Granite curb - straight	853	LF	41.00	34,973
Misc. Paving:				
Raised unit paver A @ crosswalk	2,615	SF	45.00	117,675
Parking striping - epoxy resin	1	LS	15,000.00	15,000
Pavement patch @ entry/ parking tie	650	LF	100.00	65,000
Pavement patch @Elsbree St curb	853	LF	100.00	85,300
Pavement patch @ utility		W /utility		

				2,524,374

G2020 PARKING LOTS

*Included with G2010

0

G2030 PEDESTRIAN PAVING

321000 PAVING AND CURBING

Bituminous Walks:				
Bituminous ped walk (2" bind/1" top)	4,800	SY	23.20	111,360
8" Gravel @ bit walk	1,072	CY	28.00	30,016
Ramped Concrete Walk (1 loc):				
Reinforced edge concrete walk w/ broom fin	2,448	SF	7.75	18,972
8" Gravel @ conc walk	61	CY	28.00	1,708
Concrete Walks:				
Sidewalk 4" concrete - broom fin	4,514	SF	7.50	33,855
Site 4" Concrete - broom fin	42,840	SF	7.50	321,300
8" Gravel @ conc walk	1,169	CY	28.00	32,732
Concrete Walk - Exposed Aggregate:		NIC		
Unit Pavement(NIC Main Entrance):				
Unit Paver A		w/G2010		
Unit Paver B - pedestrian zone		N/A		
Unit Paver C - pedestrian zone	24,557	SF	21.00	515,697

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Unit Paver D - café plaza	3,441	SF	21.00	72,261
2'W Granite paving band	82	SF	75.00	6,150
3'W Granite paving band	318	SF	75.00	23,850
4" Concrete sub base	28,398	SF	7.25	205,886
8" Gravel @ unit pavers	705	CY	33.00	23,265
Garden Area -Stone dust sys	1,180	SF	4.00	4,720
HC tactile paver	25	EA	365.00	9,125
Sidewalk grate (3 loc)	130	SF	150.00	19,500
Grass paver - sys allow	1	LS	50,000.00	50,000
Granite landscape curb	733	LF	45.00	32,985

				1,513,382

G2040 SITE DEVELOPMENT

323100 SITE IMPROVEMENTS

Plaza Main Entrance Ramp and Stair Structure (1 LOC):				
Excavate and Backfill stair & ramp	1	LS	15,000.00	15,000
Granite seat wall-complete	55	LF	550.00	30,250
Granite planter wall-complete	169	LF	550.00	92,950
Stone veneer seat wall-complete	308	LF	500.00	154,000
Cast conc stair tread	608	LFT	110.00	66,880
Granite stair tread paver	608	LFT	185.00	112,480
Granite memorial paver - accent	6	EA	2,000.00	12,000
2'W Granite paving band	1,822	SF	75.00	136,650
Unit Paver B - pedestrian zone	4,726	SF	40.00	189,040
Unit Paver C - pedestrian zone	642	SF	40.00	25,680
4" Concrete sub base	5,368	SF	5.25	28,182
8" Gravel @ unit pavers	133	CY	33.00	4,389
Ornament guard railing	83	LF	225.00	18,675
Simplify Design	-1	LS	200,000.00	-200,000
Exist. Gym Building Entrance Stair Structure (7 LOC)		REMAIN		
Segmental Retaining Walls (Re-Con Large Block):				
2'W - 4' ave HT (316 LF)	1,264	SF	48.00	60,672
3'W - 4'-8 ' ave HT (2,292 LF)	14,333	SF	48.00	687,984
3'W - 10'-20' HT (1,072 LF)	13,800	SF	48.00	662,400
Improved BB field 3'w (per L1.1, 487 lf)	1,461	SF	48.00	70,128
Concrete Retaining Wall -CIP:				
Lot #44 prop line	60	LF	700.00	42,000
Stone veneer seat wall - complete	457	LF	550.00	251,350

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Fencing (All Chain Link Black Vinyl):				
Match existing-allow	1	LS	25,000.00	25,000
Timber Guardrail		N/A		
Ornamental blk stl fence		N/A		
Guardrail - top of mod blk wall	280	LF	175.00	49,000
4' Wood fence @ garden	102	LF	65.00	6,630
6' CL Fence - top of mod blk wall	1,086	LF	48.00	52,128
6' CL Fence	972	LF	44.00	42,768
10' green trellis fence	80	LF	300.00	24,000
Vehicular gate (CL alum. cant slide gate)	2	EA	4,000.00	8,000
Guard rail	600	LF	145.00	87,000
Gates @ 6' CL Fence:				
6' CL Fence - 18' w dbl	2	EA	4,500.00	9,000
6' CL Fence - 12'w dbl	1	EA	3,500.00	3,500
6' CL Fence - 8' w dbl	1	EA	3,200.00	3,200
*Tennis courts and ball field fencing above				
Existing Baseball Field Improvements(1 LOC):				
30' Baseball backstop	1	EA	25,000.00	25,000
Press box	1	EA	25,000.00	25,000
8' Chain link fence	160	LF	48.00	7,680
SGL gate @ 8' Chain link fence	2	EA	1,200.00	2,400
42" H Welded wire fence @ ret wall	338	LF	55.00	18,590
Bench, mound and amenities	1	LS	4,000.00	4,000
Baseball dugout	2	EA	3,500.00	7,000
27' Portable Bleacher on conc. pad	2	EA	20,000.00	40,000
Scoreboard		EXISTING		
Protect & maintain infield & outfield	1	LS	7500	7,500
Existing Softball Field Improvements(1 LOC):				
Protect & maintain infield & outfield	1	LS	7500	7,500
New Multipurpose Field:				
30' Softball backstop	1	EA	25,000.00	25,000
Press box	1	EA	25,000.00	25,000
8' Chain link fence	338	LF	48.00	16,224
SGL gate @ 8' Chain link fence	2	EA	1,200.00	2,400
6' Removable outfield fence	353	LF	15.00	5,295
Ball stopper netting 20' h	293	LF	30.00	8,790
Bench, mound and amenities	1	LS	4,000.00	4,000
36' Softball dugout	2	EA	12,500.00	25,000
27' Portable Bleacher on conc. pad	2	EA	20,000.00	40,000
15' Scoreboard	1	EA	50,000.00	50,000
Sod		landscape		

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Synthetic turf		N/A		
Field irrigation - cooling		N/A		
Perm Concrete curb		N/A		
Tennis Court:				
4" Bit Pavement and Pnt Surface	49,200	SF	4.00	196,800
8" Gravel base	1,221	CY	24.00	29,304
12' CL Fence - black vinyl	1,300	LF	52.00	67,600
Windscreen	15,600	SF	1.00	15,600
Tennis court gate - sgl	4	EA	900.00	3,600
Tennis court gate - dbl	2	EA	1,800.00	3,600
Tennis court net and post	8	EA	2,900.00	23,200
Tennis court benches	8	EA	1,300.00	10,400
Bollard @ equip pad	50	EA	1,050.00	52,500
Decorative bollard	25	EA	2,000.00	50,000
Relocate donor bench	14	EA	750.00	10,500
Ornamental bench 6' stl w/back	8	EA	3,000.00	24,000
6'W wood trellis struct (1 loc)	156	GSF	50.00	7,800
Greenhouse (20'x8' - 1 loc)	160	GSF	150.00	24,000
Raised planter bed (8'x4')	5	EA	350.00	1,750
Storage shed 12'x15' - multipurpose	3	EA	22,000.00	66,000
Storage shed 12'x15' - tennis	2	EA	22,000.00	44,000
Bike loop	37	EA	450.00	16,650
Vehicle charging sta	24	EA	1,250.00	30,000
Vehicle charging sta- sign	24	EA	175.00	4,200
Prefab ticket booth	3	EA	3,000.00	9,000
Placed boulder	104	EA	150.00	15,600
Granite block seat 2'x2'	21	EA	250.00	5,250
Entrance site sign -allow	1	LS	30,000.00	30,000
Parking /traffic signage	1	LS	5,000.00	5,000
30' flag pole - main entry	2	EA	8,500.00	17,000
30' flag pole - multi purpose field	1	EA	8,500.00	8,500
BLDG Egress Trash Receptacle	22	EA	1,500.00	33,000
Athletic filed Trash Receptacle	20	EA	1,500.00	30,000
Picnic table - 10 '	7	EA	3,000.00	21,000
Dinning table w/seats	7	EA	3,000.00	21,000
Exist stadium track & field improvements		NIC		
Exist concessions improvements		NIC		
Electronic school zone signals		NIC		
Exist. stadium bleacher ADA improvement	1	LS	10,000.00	10,000
Exist syn turf field improvements		NIC		
Misc site improvements	1	LS	25,000.00	25,000
Court yard site improvements (2 loc)	49,067	GSF	25.00	1,226,675

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				5,255,844
G2050 LANDSCAPING				
329000 PLANTING				
L1.0 Planting Plan 1:				
Large deciduous	27	EA	1,000.00	27,000
Large coniferous	11	EA	800.00	8,800
Rain gardens	332	SF	5.00	1,660
LP1.1 Planting Plan 2:				
Large deciduous	16	EA	1,000.00	16,000
Large coniferous	1	EA	800.00	800
LP1.2 Planting Plan 3:				
Large deciduous	57	EA	1,000.00	57,000
Deciduous ornamental	3	EA	800.00	2,400
Large coniferous	31	EA	800.00	24,800
Small coniferous	26	EA	600.00	15,600
Shrub areas	11,494	SF	5.00	57,470
LP1.3 Planting Plan 3 (Noted on Plan 4):				
Large deciduous	95	EA	1,000.00	95,000
Deciduous ornamental	23	EA	800.00	18,400
Large coniferous	13	EA	800.00	10,400
Shrub areas	16,886	SF	5.00	84,430
LP1.2 Planting Plan 3:				
Rain gardens	10,913	SF	5.00	54,565
LP1.3 Planting Plan 3 (Noted on Plan 4):				
Rain gardens	6,236	SF	5.00	31,180
Planting Adjustment	-1	LS	200,000.00	-200,000
Sod - athletic field	113,896	SF	0.95	108,201
Rake seed & fert - Lawn	407,913	SF	0.30	122,374
Soil @ Rain gardens (17,149 SF)	2,540	CY	75.00	190,500
12" Soil @ plant bed	7,040	CY	52.00	366,080
6" Loam @ Lawn	7,554	CY	52.00	392,808
3" Mulch - allowance	1,760	CY	65.00	114,400
Planting Maintenance	1	LS	30,000.00	30,000
Irrigation system		NIC		
*Excludes existing softball and baseball fields				

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				1,629,868
TOTAL G20 - SITE IMPROVEMENTS				10,923,468

G30 - SITE MECHANICAL UTILITIES

G3010 WATER SUPPLY

330000 UTILITIES

Concession BLDG:				
Dom service	14	LF	75.00	1,050
Fire service	18	LF	95.00	1,710
Dom gate valve	1	EA	1,200.00	1,200
Fire gate valve	1	EA	1,350.00	1,350
8" Main	4,264	LF	92.00	392,288
8" Exist BLD conn	41	LF	92.00	3,772
8" Main gate valve	10	EA	1,650.00	16,500
6" New BLDG Dom service	70	LF	84.00	5,880
8" New BLDG Fire service	65	LF	92.00	5,980
6" Dom gate valve	1	EA	1,150.00	1,150
8" Fire gate valve	1	EA	1,350.00	1,350
8" Site Connection	1	LOC	5,000.00	5,000
20" Site Connection	2	LOC	10,000.00	20,000
20" Site isolation valve	1	EA	24,000.00	24,000
20" St Connection	2	LOC	25,000.00	50,000
Hydrant	14	EA	2,450.00	34,300
6" Hydrant Lateral	520	LF	84.00	43,680
6" Hydrant Gate valve	14	EA	1,400.00	19,600
Temporary Construction Water Service	1	LS	30,000.00	30,000
Street cut & patch	2	LOC	5,000.00	10,000

				668,810

G3020 SANITARY SEWER

330000 UTILITIES

Grease trap		BY Plumbing		
Oil & gas sep		BY Plumbing		
8" PVC main	2,631	LF	78.00	205,218
Site conn exist sanitary manhole	4	EA	4,100.00	16,400
ST conn exist sanitary manhole	2	EA	4,100.00	8,200
Sanitary manhole	13	EA	4,100.00	53,300

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Concrete Encasement		NIC		
Street cut & patch	2	LOC	3,500.00	7,000

				290,118

G3030 STORM SEWER

330000 UTILITIES

Court Yard:				
Drain Manhole	3	EA	4,200.00	12,600
Area Drain	49	EA	2,600.00	127,400
12" RCP	648	LF	64.00	41,472
18" RCP	117	LF	76.00	8,892
Site Drainage :				
Catch basin	45	EA	4,200.00	189,000
Drain Manhole	72	EA	4,200.00	302,400
Area Drain	49	EA	2,600.00	127,400
Flared End Structure and rip rap	6	LOC	5,000.00	30,000
Hydrodynamic sep	2	EA	12,500.00	25,000
Overflow	3	EA	4,800.00	14,400
Outlet Control Structure	3	EA	6,500.00	19,500
ST connect to existing DMH	1	EA	5,000.00	5,000
Exist DMH site Connect to existing	1	EA	5,000.00	5,000
New DMH site Connect to existing	1	EA	5,000.00	5,000
Connect to existing sie drain line	1	LOC	2,500.00	2,500
Tennis court trench catch basin	2	EA	7,500.00	15,000
Tennis court trench drain	236	LF	135.00	31,860
Loading dock trench drain	24	LF	135.00	3,240
Underground Concrete Vault:				
Sys #1 60x60x3.5	3,600	SF	48.00	172,800
Sys #2 150x90x4	13,500	SF	48.00	648,000
Rain Garden	carried w/ landscaping			
Piping and Trenching:				
6" Rain Garden Connection	500	LF	44.00	22,000
Roof drain line conn	15	LOC	1,500.00	22,500
12" RCP roof drain line unless noted	1,251	LF	62.00	77,562
Track drain line conn	3	LOC	2,500.00	7,500
12" RCP track drain line unless noted	113	LF	62.00	7,006
12" RCP unless noted	7,791	LF	62.00	483,042
18" RCP	1,274	LF	68.00	86,632
24" RCP	2,817	LF	75.00	211,275

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
30" RCP	297	LF	86.00	25,542
36" RCP	56	LF	110.00	6,160
Street cut & patch	1	LOC	7,500.00	7,500

				2,743,183

G3060 FUEL DISTRIBUTION

330000 UTILITIES

Gas Service:				
Gas Pipe		By utility		
Trench excavation & backfill	2,594	LF	44.00	114,136
Service Meter Pad	1	EA	5,000.00	5,000
Street cut & patch		by others		

				119,136

G3090 OTHER SITE MECHANICAL UTILITIES

	0
TOTAL G30 - SITE MECHANICAL UTILITIES	3,821,247

G40 - SITE ELECTRICAL UTILITIES

G4010 ELECTRICAL DISTRIBUTION

330000 UTILITIES

Primary and Secondary Ductbank	1	LS	300,000.00	300,000
Site Security	1	LS	100,000.00	100,000
Refeed fields	1	LS	75,000.00	75,000

				475,000

G4020 SITE LIGHTING

Durfee High School - New Construction - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
260001 ELECTRICAL*				
Site Lighting	1	LS	250,000.00	250,000

				250,000
TOTAL G40 - SITE ELECTRICAL UTILITIES				725,000

PROJECT:	Durfee High School	NO. OF SQ. FT.:	84,475
LOCATION:	Fall River, MA	COST PER SQ. FT.:	$194.24
CLIENT:	Leftfield, LLC		
DATE:	06-Dec-17		

RENOVATION

No.: 17059

SUMMARY

	TOTAL	PERCENT OF PROJECT	COST PER SF
A. SUBSTRUCTURE			
A10 - FOUNDATIONS			
A1010 STANDARD FOUNDATIONS	71,100	0%	0.84
A1020 SPECIAL FOUNDATIONS	0	0%	0.00
A1030 SLAB ON GRADE	237,500	1%	2.81
A20 - BASEMENT CONSTRUCTION			
A2010 BASEMENT EXCAVATION	0	0%	0.00
A2020 BASEMENT WALLS	0	0%	0.00
B. SHELL			
B10 - SUPERSTRUCTURE			
B1010 FLOOR CONSTRUCTION	70,000	0%	0.83
B1020 ROOF CONSTRUCTION	41,000	0%	0.49
B20 - EXTERIOR ENCLOSURE			
B2010 EXTERIOR WALLS	191,752	1%	2.27
B2020 EXTERIOR WINDOWS	261,563	2%	3.10
B2030 EXTERIOR DOORS	122,768	1%	1.45
B30 - ROOFING			
B3010 ROOF COVERINGS	1,420,428	9%	16.81
B3020 ROOF OPENINGS	11,500	0%	0.14
C. INTERIORS			
C10 - INTERIOR CONSTRUCTION			
C1010 PARTITIONS	655,251	4%	7.76
C1020 INTERIOR DOORS	239,450	1%	2.83
C1030 FITTINGS	1,358,125	8%	16.08
C20 - STAIRS			
C2010 STAIR CONSTRUCTION	120,500	1%	1.43
C2020 STAIR FINISHES	25,000	0%	0.30
C30 - INTERIOR FINISHES			
C3010 WALL FINISHES	477,454	3%	5.65
C3020 FLOOR FINISHES	1,129,723	7%	13.37
C3030 CEILING FINISHES	327,316	2%	3.87
D. SERVICES			
D10 - CONVEYING			
D1010 ELEVATORS & LIFTS	116,037	1%	1.37
D20 - PLUMBING			
D2010 PLUMBING	1,140,413	7%	13.50

Durfee High School - Renovation - Schematic Design	TOTAL	PERCENT OF PROJECT	COST PER SF
D30 - HVAC			
D3010 HVAC	2,872,150	18%	34.00
D40 - FIRE PROTECTION			
D4010 SPRINKLERS	380,138	2%	4.50
D4020 STANDPIPES	0	0%	0.00
D4030 FIRE PROTECTION SPECIALTIES	0	0%	0.00
D4090 OTHER FIRE PROTECTION SYSTEMS	0	0%	0.00
D50 - ELECTRICAL			
D5010 ELECTRICAL SERVICE & DISTRIBUTION	764,499	5%	9.05
D5020 LIGHTING & BRANCH WIRING	802,513	5%	9.50
D5030 COMMUNICATION & SECURITY	337,900	2%	4.00
D5090 OTHER ELECTRICAL SYSTEMS	257,740	2%	3.05
E. EQUIPMENT & FURNISHINGS			
E10 - EQUIPMENT			
E1010 COMMERCIAL EQUIPMENT	0	0%	0.00
E1020 INSTITUTIONAL EQUIPMENT	0	0%	0.00
E1030 VEHICULAR EQUIPMENT	0	0%	0.00
E1090 OTHER EQUIPMENT	767,210	5%	9.08
E20 - FURNISHINGS			
E 2010 FIXED FURNISHINGS	23,719	0%	0.28
E2020 MOVABLE FURNISHINGS	0	0%	0.00
F. SPECIAL CONSTRUCTION & DEMOLITION			
F10 - SPECIAL CONSTRUCTION			
F1010 SPECIAL STRUCTURES	1,500,000	9%	17.76
F20 - SELECTIVE BUILDING DEMOLITION			
F2010 BUILDING ELEMENTS DEMOLITION	685,800	4%	8.12
F2020 HAZARDOUS COMPONENTS ABATEMENT	0	0%	0.00
G. BUILDING SITEWORK			
G10 - SITE PREPARATION			
G1010 SITE CLEARING	0	0%	0.00
G1020 SITE DEMOLITION & RELOCATIONS	0	0%	0.00
G1030 SITE EARTHWORK	0	0%	0.00
G1040 HAZARDOUS WASTE REMEDIATION	0	0%	0.00
G20 - SITE IMPROVEMENTS			
G2010 ROADWAYS	0	0%	0.00
G2020 PARKING LOTS	0	0%	0.00
G2030 PEDESTRIAN PAVING	0	0%	0.00
G2040 SITE DEVELOPMENT	0	0%	0.00
G2050 LANDSCAPING	0	0%	0.00

Durfee High School - Renovation - Schematic Design	TOTAL	PERCENT OF PROJECT	COST PER SF
G30 - SITE MECHANICAL UTILITIES			
G3010 WATER SUPPLY	0	0%	0.00
G3020 SANITARY SEWER	0	0%	0.00
G3030 STORM SEWER	0	0%	0.00
G3040 HEATING DISTRIBUTION	0	0%	0.00
G3050 COOLING DISTRIBUTION	0	0%	0.00
G3060 FUEL DISTRIBUTION	0	0%	0.00
G3090 OTHER SITE MECHANICAL UTILITIES	0	0%	0.00
G40 - SITE ELECTRICAL UTILITIES			
G4010 ELECTRICAL DISTRIBUTION	0	0%	0.00
G4020 SITE LIGHTING	0	0%	0.00
G4030 SITE COMMUNICATIONS & SECURITY	0	0%	0.00
G4090 OTHER SITE ELECTRICAL UTILITIES	0	0%	0.00
G90 - OTHER SITE CONSTRUCTION			
G9090 OTHER SITE SYSTEMS	0	0%	0.00
	---	---	---
TOTAL DIRECT COST	16,408,546	100%	194.24

Durfee High School - Renovation - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
A. SUBSTRUCTURE				
A10 - FOUNDATIONS				
A1010 STANDARD FOUNDATIONS				
033000 CAST IN PLACE CONCRETE				
Egress stoop repairs	7	FLT	1,500.00	10,500
Exposed fnd repairs	1	LS	25,000.00	25,000
Mechanical pads	1	LS	5,000.00	5,000
24" Elevator mat (Exc undrpinning)	6	CY	650.00	3,900
Elev sump pit	1	EA	850.00	850
12" Elevator pit wall	6	CY	1,100.00	6,600
* Complete Pool Restoration is included w/ F10				
071000 DAMPPROOF., WATERPROOF. & CAULKING*				
Exist found.dampproofing/waterproofing		NIC		
Elev. pit waterproofing	1	LS	4,250.00	4,250
310000 EARTHWORK				
Excavate elev pit	1	LS	15,000.00	15,000
Underpinning		NIC		

				71,100
A1030 SLAB ON GRADE				
310000 EARTHWORK				
Excavate plumbing trenches	1	LS	40,000.00	40,000
033000 CAST IN PLACE CONCRETE				
Infill Slab on Grade@:				
New elevator	300	SF	25.00	7,500
Plumbing trench	7,500	SF	22.00	165,000
Misc slab patching	1	LS	25,000.00	25,000

Durfee High School - Renovation - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				237,500
TOTAL A10 FOUNDATIONS				308,600

A20 - BASEMENT CONSTRUCTION

A2010 BASEMENT EXCAVATION

Exist basement mech rm repairs		N/A		

				0
TOTAL A20 - BASEMENT CONSTRUCTION				0

B. SHELL

B10 - SUPERSTRUCTURE

B1010 FLOOR CONSTRUCTION

051200 STRUCTURAL STEEL

Infill Floor Frame - Complete @:				
Abandoned mech shafts - allow	1	LS	50,000.00	50,000
Cut & frame New Opening - Complete @:				
New elevator - allow	1	LOC	5,000.00	5,000
New mech shafts - allow	1	LOC	15,000.00	15,000
Reinforce floor frame		NIC		
Seismic floor reinforcing		NIC		

078120 FIREPROOFING

Spray on Fireproofing - beam column		NIC		

				70,000

B1020 ROOF CONSTRUCTION

Durfee High School - Renovation - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
051200 STRUCTURAL STEEL				
Infill Floor Frame - Complete @:				
Mech shafts - complete	1	LS	10,000.00	10,000
Cut & frame New Opening - Complete @:				
New Mech shafts - allow	1	LS	10,000.00	10,000
Allow:				
Reinforce roof frame		NIC		
Seismic roof reinforcing		NIC		
Galv. TS roof screen support		N/A		
Galv Roof Dunnage	5.00	TONS	4,200.00	21,000
053100 STEEL DECKING				
Roof deck replacement -allowance		NIC		
078120 FIREPROOFING				
Spray on Fireproofing - beam column		NIC		

				41,000
TOTAL B10 SUPERSTRUCTURE				111,000

B20 - EXTERIOR ENCLOSURE

B2010 EXTERIOR WALLS

GSF Exterior 36,320 SF

040001 MASONRY*				
Performing Arts BLD infill @ conn rem'l	1	LS	20,000.00	20,000
Masonry Veneer Building W elev:				
Clean 100%	970	SF	5.00	4,850
Repair /repoint 10%	97	SF	30.00	2,910
054000 COLD FORMED METAL FRAMING				
Infill wall Frame - Complete @:				
Connector	2	LVL	5,000.00	10,000

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Cut & Frame New Wall Opening - Complete @:				
Full ht gym CW (20'x31'6")	1	LOC	10,000.00	10,000
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Misc. Ex Metals	1	LS	5,000.00	5,000
071000 DAMPPROOF., WATERPROOF. & CAULKING*				
Exterior Sealants - allow	1	LS	7,500.00	7,500
071326 AIR & VAPOR BARRIERS				
Adhered air & vapor barrier - wall :				
Perim window & dr open	1,042	LF	8.00	8,336
072100 INSULATION				
Reinsulated Exterior Wall:		NIC		
074000 WALL PANELS & TRIM				
Existing Siding and wall Trim to Remain (33,173 SF):				
New siding - allow %		TBD		
Repair existing siding - allow %		TBD		
Paint existing siding - 100%	33,173	SF	3.50	116,106
Ext Soffit (2 LOC) :				
Replace soffit frame & panel -complete	282	SF	25.00	7,050
New Mech Roof Screen		NIC		
101400 IDENTIFYING DEVICES		W/ADDITION		

				191,752
B2020 EXTERIOR WINDOWS				
061000 ROUGH CARPENTRY				
P.T. - perim blocking 2x8	686	LF	5.65	3,876
071326 AIR & VAPOR BARRIERS				

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Flex flashing - perim	686	LF	8.00	5,488
071000 DAMPPROOF., WATERPROOF. & CAULKING*				
Exterior sealants - perim.	686	LF	9.00	6,174
080001 METAL WINDOWS*				
Curtain Wall - replacement (8 loc)	1,287	SF	115.00	148,005
Curtain Wall - new opening (1 loc)	630	SF	115.00	72,450
Aluminum Storefront- replacement (4 loc)	225	SF	90.00	20,250
Translucent panels		w / B2010		
Horizontal Sun Shade -allowance		NIC		
109000 MISCELLANEOUS SPECIALTIES				
N. elev alum louvers replacement (1 loc)	56	SF	95.00	5,320

				261,563
B2030 EXTERIOR DOORS				
061000 ROUGH CARPENTRY				
P.T. - perim blocking open	356	LF	8.00	2,848
071000 DAMPPROOF., WATERPROOF. & CAULKING*				
Exterior sealants - perim. open	356	LF	7.50	2,670
080001 METAL WINDOWS*				
Replace Alum. Doors (Incl. Hardware):				
Gym Egress - dbl	4	PR	8,100.00	32,400
Pool Egress - dbl	2	PR	8,100.00	16,200
Locker Rm Egress - dbl	2	PR	8,100.00	16,200
Corridor Egress - dbl	1	EA	8,100.00	8,100
Allow Stair #9 Egress - dbl	1	EA	8,100.00	8,100
Roof access - sgl	1	EA	3,850.00	3,850
Roof access - dbl	4	EA	8,100.00	32,400
081113 HOLLOW METALWORK		N/A		
087100 DOOR HARDWARE				

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Ext HM Door HDW SET:				
Auto opener		N/A		
*Hardware is included with 080001				

				122,768
TOTAL B20 - EXTERIOR ENCLOSURE				576,082

B30 - ROOFING

B3010 ROOF COVERINGS

061000 ROUGH CARPENTRY

Replace Roof Blocking @:				
Base flashing	732	LF	15.50	11,346
Perimeter coping	1,814	LF	15.50	28,117
Misc. equip	1	LS	10,000.00	10,000

070002 ROOFING AND FLASHING*

Remove Existing (Non Haz Mat):				
Membrane roof sys	67,296	SF	1.45	97,579
Base flashing	732	LF	5.00	3,660
Perimeter coping	1,814	LF	5.00	9,070
Misc. equip	1	LS	10,000.00	10,000
Flat Roof:				
PVC Roofing w/ 7" rigid insul	67,296	SF	14.50	975,792
1/2" Gyp prot. bd w/glass mat facing	67,296	SF	1.48	99,598
Walkway pads -allow	5,000	SF	5.25	26,250
Membrane flashing	67,296	SF	0.75	50,472
Aluminum Flashing:				
Base flashing	732	LF	28.00	20,496
Coping and fascia	1,814	LF	32.00	58,048
Misc. flashing - allow	1	LS	20,000.00	20,000

				1,420,428

B3020 ROOF OPENINGS

Durfee High School - Renovation - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
070002 ROOFING AND FLASHING*				
Entry canopies		N/A		
Elevator vent	1	EA	1,500.00	1,500
Roof Hatch		N/A		
Misc roof accessories	1	LS	10,000.00	10,000

				11,500
TOTAL B30 ROOFING				1,431,928

C. INTERIORS

C10 - INTERIOR CONSTRUCTION

C1010 PARTITIONS

050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Expansion joints		W/ADDITION		
061000 ROUGH CARPENTRY				
Interior blocking	84,475	GSF	0.50	42,238
Interior Staging and Lifts	1	LS	25,000.00	25,000
Misc. rough carpentry	84,475	GSF	0.50	42,238
072100 INSULATION				
Firestopping	84,475	GSF	0.72	60,822
071000 DAMPPROOF., WATERPROOF. & CAULKING*				
Joint sealants	84,475	GSF	0.85	71,804
081113 HOLLOW METALWORK				
Misc. int HM windows, sidelites & transoms	750	SF	44.00	33,000
083323 SPECIAL DOORS				
Access panels	1	LS	10,000.00	10,000

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
080002 GLASS AND GLAZING*				
Glass & Glazing @ H.M Windows, Sidelites and Transoms :				
Misc. int HM windows, sidelites & transoms	750	SF	38.00	28,500
090007 PAINTING*				
Paint window/sidelight & transom	750	SF	5.00	3,750
092116 GYPSUM WALLBOARD				
Interior Drywall Partition - 25%	84,475	SF	4.00	337,900

				655,251
C1020 INTERIOR DOORS				
081113 HOLLOW METALWORK				
New Int. HM Frame 7'H:				
Single Door	16	EA	285.00	4,560
Double Door	68	EA	305.00	20,740
Misc Window , sidelite & transom		W/C1010		
081416 WOOD AND PLASTIC DOORS				
New Interior Door, Glass & Glazing:				
Toilet, SHW & Locker room - sgl	17	EA	550.00	9,350
Classroom - sgl	10	EA	750.00	7,500
Class connector - sgl	5	EA	550.00	2,750
Corridor - dbl	6	EA	1,500.00	9,000
Fit gym - sgl	1	EA	675.00	675
Dance/fit gym - dbl	3	EA	1,500.00	4,500
Gym - sgl	1	EA	750.00	750
Gym - dbl	2	EA	1,500.00	3,000
Pool - sgl	1	EA	750.00	750
Admin - sgl	13	EA	675.00	8,775
MEP - sgl	2	EA	500.00	1,000
Stair - sgl	9	EA	750.00	6,750
Stair - dbl	1	EA	1,500.00	1,500
Storage - sgl	9	EA	500.00	4,500
Storage - dbl	4	EA	1,000.00	4,000
080002 GLASS AND GLAZING*		W /Unit Cost		

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
087100 DOOR HARDWARE				
Interior Door Finish Hardware Set::				
Toilet, SHW & Locker room - sgl	17	EA	750.00	12,750
Classroom - sgl	10	EA	850.00	8,500
Class connector - sgl	5	EA	550.00	2,750
Corridor - dbl	6	EA	3,500.00	21,000
Fit gym - sgl	1	EA	1,000.00	1,000
Dance/fit gym - dbl	3	EA	1,500.00	4,500
Gym - sgl	1	EA	1,500.00	1,500
Gym - dbl	2	EA	3,500.00	7,000
Pool - sgl	1	EA	2,000.00	2,000
Admin - sgl	13	EA	750.00	9,750
MEP - sgl	2	EA	500.00	1,000
Stair - sgl	9	EA	2,500.00	22,500
Stair - dbl	1	EA	4,000.00	4,000
Storage - sgl	9	EA	500.00	4,500
Storage - dbl	4	EA	900.00	3,600
080001 METAL WINDOWS*				
Aluminum (Frame, Door, Glass, Glazing and Hdw):				
Gym - dbl	3	PR	7,800.00	23,400
Pool - dbl	1	PR	7,800.00	7,800
083323 SPECIAL DOORS		N/A		
090007 PAINTING*				
Interior Painting:				
Single HM Door Frame	16	EA	100.00	1,600
Double HM Door Frame	68	EA	150.00	10,200

				239,450
C1030 FITTINGS				
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Ext. guardrail replacement @egress(7 loc)	100	LF	225.00	22,500
Pool equip supports	1	LS	15,000.00	15,000
Fitness equip supports	1	LS	15,000.00	15,000

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Gym equip. supports	1	LS	15,000.00	15,000
Misc. metals	84,475	GSF	1.00	84,475
062000 FINISH CARPENTRY				
Misc wd trim & wall panels	1	LS	50,000.00	50,000
Casework Allowance:				
Fitness Room #1 & #2	1	LS	15,000.00	15,000
Dance room	1	LS	10,000.00	10,000
Health Class /Planning room	6	EA	15,000.00	90,000
PE Administration small office	13	EA	10,000.00	130,000
Laundry rm	2	EA	5,000.00	10,000
Display cases	1	LS	50,000.00	50,000
Misc casework	1	LS	25,000.00	25,000
102113 COMPARTMENTS & CUBICLES				
Changing partition		NIC		
Toilet Partitions -Allow:				
Std. partition - student	24	EA	1,400.00	33,600
HC partition - student	10	EA	1,600.00	16,000
HC partition- admin.	3	EA	1,600.00	4,800
Urinal screen - student	15	EA	310.00	4,650
Shower Partition -Allow:				
HC Stall - admin.	3	EA	3,200.00	9,600
HC Stall - student	10	EA	3,200.00	32,000
Reg Stall -student	38	EA	1,950.00	74,100
102813 TOILET ACCESSORIES				
Furnish & Install Toilet Rm Accessories:				
Elec hand dryer	23	EA	950.00	21,850
Towel dispenser/waste receptacle	23	EA	250.00	5,750
Tilt mirror @ wall hung lav	39	EA	225.00	8,775
Soap dispenser	39	EA	45.00	1,755
Grab bars	26	EA	95.00	2,470
San. prod. dispenser	5	EA	85.00	425
San. prod. disposal	37	EA	60.00	2,220
Coat hook @ toilet part	37	EA	22.00	814
STD Shower accessories	38	EA	400.00	15,200
ADA shower accessories	13	EA	700.00	9,100
Diaper changing sta	2	EA	550.00	1,100

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Janitor shelf	4	EA	200.00	800
Misc., locker rm accessories	1	LS	2,500.00	2,500
101100 MARKERBOARDS & TACKBOARDS				
Marker Boards :				
Health Classroom (6 EA)	576	SF	18.00	10,368
Admin Area (13 EA)	312	SF	18.00	5,616
Misc. marker boards	250	SF	18.00	4,500
Tack boards:				
Health Classroom (6 EA)	384	SF	14.50	5,568
Admin Area (13 EA)	208	SF	14.50	3,016
Misc. tack boards	125	SF	14.50	1,813
Fitness rm mirror	250	SF	40.00	10,000
Dance rm mirror	250	SF	40.00	10,000
109000 MISCELLANEOUS SPECIALTIES				
Allow:				
Team locker (2'3" w)	276	EA	265.00	73,140
Student PE locker (1' w)	1,072	EA	265.00	284,080
PE staff locker (1'w)	20	EA	265.00	5,300
Fire extinguisher and cab	10	EA	550.00	5,500
AED cabinets	2	EA	750.00	1,500
Locker Rm Bench:				
Straight Bench - 1'w	370	LF	110.00	40,700
HC Bench - 2'w	82	LF	200.00	16,400
CMU Locker Base:				
Team locker (2-3"w)	600	LF	45.00	27,000
Student PE locker (1'w)	1,072	LF	45.00	48,240
PE staff locker (1'w)	20	LF	45.00	900
Misc. Specialties	1	LS	25,000.00	25,000
101400 IDENTIFYING DEVICES				
Allow:				
Building directory		W / Addition		
Dedication plaque		W / Addition		
School branding and Signage		W / Addition		

Durfee High School - Renovation - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
				1,358,125
TOTAL C10 - INTERIOR CONSTRUCTION				2,252,825

C20 - STAIRS

C2010 STAIR CONSTRUCTION

050001 MISCELLANEOUS & ORNAMENTAL IRON*

12' H Stairhall Upgrade:				
Stair #8	1	FLTS	7,500.00	7,500
Stair #9	1	FLTS	7,500.00	7,500
Stair #10	1	FLTS	7,500.00	7,500
Stair #11	1	FLTS	7,500.00	7,500
Stair #12	1	FLTS	7,500.00	7,500
Basement Stair		N/A		
Roof Stair		N/A		
New Stair	1	LS	75,000.00	75,000
Replace Int roof access ladder	1	EA	3,500.00	3,500
Replace Ext roof access ladder	1	EA	4,500.00	4,500

				120,500

C2020 STAIR FINISHES

090005 RESILIENT FLOORING*

12' Replace Stair Hall Finish:				
Stair #8	1	FLTS	2,500.00	2,500
Stair #9	1	FLTS	2,500.00	2,500
Stair #10	1	FLTS	2,500.00	2,500
Stair #11	1	FLTS	2,500.00	2,500
Stair #12	1	FLTS	2,500.00	2,500

090007 PAINTING*

Paint exist stair & rails	5	FLTS	2,500.00	12,500

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL

				25,000
TOTAL C20 - STAIRS				145,500

C30 - INTERIOR FINISHES

C3010 WALL FINISHES

090002 TILE*

7'H Ceramic Wall Tile:				
FT 101- 105 Multi user toilet rm		N/A		
Multi user PE toilet rm (2 EA)	840	SF	21.00	17,640
Multi user team toilet rm (2 EA)	840	SF	21.00	17,640
Multi user pool shw rm (2 EA)	3,000	SF	21.00	63,000
Multi user team shw rm (2 EA)	2,000	SF	21.00	42,000
Multi user PE shw rm (2 EA)	2,000	SF	21.00	42,000
Staff toilet / shw rm (3 EA)	1,200	SF	21.00	25,200
Corridor		NIC		
Stair hall		NIC		

062000 FINISH CARPENTRY

Tectum Wall Panel:				
Gymnasium	2,200	SF	19.00	41,800
Fitness rm # 1 & #2	500	SF	19.00	9,500
Dance studio	500	SF	19.00	9,500
Fabric Wrapped Acoustical Panels - Allow:				
Corridors	1,000	SF	36.00	36,000

090007 PAINTING*

Prep & Interior painting- walls	84,475	GSF	2.05	173,174
Vinyl wall covering		NIC		

				477,454

C3020 FLOOR FINISHES

033000 CAST IN PLACE CONCRETE

Clean & seal concrete N/A

090002 TILE*

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Ceramic Tile:				
Shower rm multiuser (6 EA)	2,200	SF	24.25	53,350
Toilet rm multiuser (8 EA)	2,500	SF	24.25	60,625
Staff toilet/shower rm (3 EA)	650	SF	24.25	15,763
Marble Threshold	17	EA	90.00	1,530
*Pool Restoration including tile is included w/ F10				
090005 RESILIENT FLOORING*				
Linoleum Sheet:				
Lobby	1,315	SF	7.75	10,191
VCT:				
Health Classroom	4,330	SF	4.50	19,485
Storage	5,000	SF	4.50	22,500
Mech & elec rm	250	SF	4.50	1,125
Balance	3372	SF	4.50	15,174
Rubber Floor:				
Fitness rm # 1 & #2	3,500	SF	12.00	42,000
Corridor	8,000	SF	12.00	96,000
Stair Hall	2,500	SF	12.00	30,000
Locker rm	13,200	SF	12.00	158,400
Admin	3,400	SF	12.00	40,800
Floor prep	41,495	SF	1.50	62,243
Premium Resilient Adhesive	41,495	SF	1.00	41,495
Rubber base and Accessories	50,217	GSF	0.75	37,663
095000 WOOD & ATHLETIC FLOOR				
Gym urethane athletic flooring	25,832	SF	13.50	348,732
Gym wall base	700	LF	2.50	1,750
Dance studio Lam Wd FLR	1,900	SF	15.00	28,500
Dance studio wall base	174	LF	4.60	800
Floor prep	27,732	SF	1.50	41,598
096800 CARPET		N/A		

				1,129,723

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DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
C3030 CEILING FINISHES				
092116 GYPSUM WALLBOARD				
Gyp Ceiling:				
2 Hr. gyp ceiling - mech & elec		NIC		
Misc Gyp Soffit	84,475	SF	0.50	42,238
*Balance of ceiling systems w/090003 & 090007				
090003 ACOUSTICAL TILE*				
Allow:				
ACT -1	15,215	SF	5.25	79,879
ACT -2	9,330	SF	5.25	48,983
MR ACT		N/A		
ACT - 3 Fitness rm	3,500	SF	5.50	19,250
ACT Premium	1	LS	10,000.00	10,000
090007 PAINTING*				
Paint exposed structure :				
Gym	25,832	SF	2.25	58,122
Pool	6,576	SF	2.25	14,796
Dance studio	1,900	SF	2.25	4,275
Balance	22,122	SF	2.25	49,775

				327,316
TOTAL C30 - INTERIOR FINISHES				1,934,493
D. SERVICES				
D10 - CONVEYING				
D1010 ELEVATORS & LIFTS				
140001 ELEVATORS & LIFTS*				
Elev #3	2	STOP	55,000.00	110,000
050001 MISCELLANEOUS & ORNAMENTAL IRON*				
Elev. framing	1	EA	3,000.00	3,000

Durfee High School - Renovation - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Elev. pit ladder	1	EA	1,537.00	1,537
Elev. sump grate	1	EA	1,500.00	1,500

				116,037
TOTAL D10 - CONVEYING				116,037

D20 - PLUMBING

D2010 PLUMBING

220001 PLUMBING*

Plumbing	84,475	SF	13.50	1,140,413

				1,140,413
TOTAL D20 - PLUMBING	/SF			1,140,413

D30 - HVAC

D3010 HVAC

230001 HVAC*

HVAC	84,475	SF	34.00	2,872,150

				2,872,150
TOTAL D30 - HVAC	/sf			2,872,150

D40 - FIRE PROTECTION

D4010 SPRINKLERS

210001 FIRE SUPPRESSION*

Durfee High School - Renovation - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Sprinkler System	84,475	GSF	4.50	380,138
Fire Pump		w/ addition		

				380,138
TOTAL D40 - FIRE PROTECTION		/sf		380,138

D50 - ELECTRICAL

D5010 ELECTRICAL SERVICE & DISTRIBUTION

260001 ELECTRICAL*

Service, Panels and Feeders	84,475	SF	5.00	422,375
General Power Devices	84,475	SF	2.30	194,293
Mechanical Wiring	84,475	SF	1.75	147,831

				764,499

D5020 LIGHTING & BRANCH WIRING

Interior Lighting	84,475	SF	7.50	633,563
Lighting Control	84,475	SF	2.00	168,950

				802,513

D5030 COMMUNICATION & SECURITY

Tele/data/security/clock:				
Rough-in only	84,475	SF	1.50	126,713
Communication and AVA Allowance	84,475	SF	2.50	211,188

				337,900

D5090 OTHER ELECTRICAL SYSTEMS

Fire Alarm	84,475	SF	2.40	202,740

Durfee High School - Renovation - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
BDA	1	LS	25,000.00	25,000
Lightning Protection	1	LS	30,000.00	30,000

				257,740
TOTAL D50 - ELECTRICAL	$25.60	/sf		2,162,651

E. EQUIPMENT & FURNISHINGS

E10 - EQUIPMENT

E1010 COMMERCIAL EQUIPMENT N/A

				0

E1090 OTHER EQUIPMENT

113100 APPLIANCES

Laundry Room (2 loc)-Allow:				
Washer	4	EA	1,500.00	6,000
Dryer	4	EA	1,500.00	6,000
Staff Work Rm (2 EA)-Allow :				
Refrigerator	2	EA	1,400.00	2,800
Microwave	2	EA	500.00	1,000

116600 ATHLETIC & SPORTS EQUIPMENT

Replace Main Gym Equipment-Allow:				
Basketball backstops - electric	10	EA	9,500.00	95,000
Wall padding - 7' H	2,000	SF	17.00	34,000
Motorized gym divider curtain(5 loc 31'H)	13,020	SF	18.00	234,360
Volley ball court equip.	4	PR	700.00	2,800
Scoreboard		w/ equipment		
Bleachers	1	LS	200,000.00	200,000
Replace Fitness Gym Equipment-Allow:				
Operable partition 11'H	300	SF	115.00	34,500
Fitness equip		w/ equipment		

Durfee High School - Renovation - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
Replace Pool Equipment-Allow:				
Bleachers	2	EA	75,000.00	150,000
Lift	W /Pool Allowance			
Trainers Room -allow :				
Ice maker - under counter	1	EA	750.00	750
115213 PROJECTION SCREENS		N/A		
119000 MISC. EQUIPMENT				
Metal storage shelving		NIC		

				767,210
TOTAL E10 - EQUIPMENT				767,210
E20 - FURNISHINGS				
E 2010 FIXED FURNISHINGS				
122413 ROLLER SHADES				
Ext Meco Shade - Manual:				
Alum Storefront	225	SF	7.75	1,744
Ext Meco Shade - Elec:				
Assume 25% of Curtainwall	479	SF	25.00	11,975
Int blinds wind, sl and storefront	1	LS	10,000.00	10,000

				23,719
E2020 MOVABLE FURNISHINGS		NIC		

				0
TOTAL E20 - FURNISHINGS				23,719

F. SPECIAL CONSTRUCTION & DEMOLITION

Durfee High School - Renovation - Schematic Design 12/6/2017

DESCRIPTION	QUANTITY	UNIT	UNIT COST	TOTAL
F10 - SPECIAL CONSTRUCTION				
F1010 SPECIAL STRUCTURES				
Pool tile & equip replacement	1	LS	1,500,000.00	1,500,000

				1,500,000
TOTAL F10 - SPECIAL CONSTRUCTION				1,500,000
F20 - SELECTIVE BUILDING DEMOLITION				
F2010 BUILDING ELEMENTS DEMOLITION				
Performing Arts BLD selective demo @ conn re	1	LS	10,000.00	10,000
Interior Building Demolition	84,475	GSF	8.00	675,800

				685,800
F2020 HAZARDOUS COMPONENTS ABATEMENT	See Grand Summary			

				0
TOTAL F20 - SELECTIVE BUILDING DEMOLITION				685,800

G. BUILDING SITEWORK W/SITE ESTIMATE

COST ESTIMATE COMPARISON

OPM's Construction Cost Estimate

7/15/10

COST ESTIMATE COMPARISON SPREADSHEET (UNIFORMAT)

B.M.C Durfee High School - New Construction

Estimated Construction Start Date: April 2019			6/29/2017			1/3/2018			XXXX			XXXX			XXXX			XXXX		
Division #		Description	Preferred Schematic			Project Scope & Budget			Project Funding Agreement			Design Development			60% CD			100% CD		
			GSF	Total Cost	Unit Cost	GSF	Total Cost	Unit Cost	GSF	Total Cost	Unit Cost	GSF	Total Cost	Unit Cost	GSF	Total Cost	Unit Cost	GSF	Total Cost	Unit Cost
A		Substructure	501,330	$4,735,310	$9.45	501,330	$10,040,225	$20.03			#DIV/0!			#DIV/0!			#DIV/0!			#DIV/0!
B		Shell	501,330	$33,780,370	$67.38	501,330	$40,325,500	$80.44	0	$0	#DIV/0!	0	$0	#DIV/0!	0	$0	#DIV/0!	0	0	#DIV/0!
	B10	Superstructure	501,330	$12,158,426	$24.25	501,330	$15,066,451	$30.05	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
	B20	Exterior Enclosure	501,330	$16,286,713	$32.49	501,330	$20,698,812	$41.29	0		#DIV/0!	0	$0	#DIV/0!	0	$0	#DIV/0!	0	0	#DIV/0!
		B2010 Exterior Walls	501,330		$0.00	501,330	$14,359,108	$28.64	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
		B2020 Exterior Windows	501,330		$0.00	501,330	$5,914,292	$11.80	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
		B2030 Exterior Doors	501,330		$0.00	501,330	$425,412	$0.85	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
	B30	Roofing	501,330	$5,335,231	$10.64	501,330	$4,560,237	$9.10	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
C		Interiors	501,330	$36,035,873	$71.88	501,330	$31,441,176	$62.72	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
D		Services	501,330	$44,120,669	$88.01	501,330	$50,040,273	$99.82	0	$0	#DIV/0!	0	$0	#DIV/0!	0	$0	#DIV/0!	0	0	#DIV/0!
	D10	Conveying	501,330	$162,150	$0.32	501,330	$394,300	$0.79	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
	D20	Plumbing	501,330	$7,018,620	$14.00	501,330	$6,886,573	$13.74	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
	D30	HVAC	501,330	$17,045,220	$34.00	501,330	$19,355,818	$38.61	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
	D40	Fire Protection	501,330	$2,005,320	$4.00	501,330	$2,193,247	$4.37	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
	D50	Electrical	501,330	$17,889,359	$35.68	501,330	$21,210,335	$42.31	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
E		Furnishings & Fixed Equipment	501,330	$7,666,318	$15.29	501,330	$7,297,448	$14.56	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
		Building Subtotal	**501,330**	**$126,338,540**	**$252**	**501,330**	**$139,144,622**	**$278**	**0**	**$0**	**#DIV/0!**	**0**	**$0**	**#DIV/0!**	**0**	**$0**	**#DIV/0!**	**0**	**0**	**#DIV/0!**
F		Special Construction & Demo	501,330	$12,868,935	$25.67	501,330	$8,528,465	$17.01	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
G		Other Site Construction	501,330	$10,978,328	$21.90	501,330	$17,080,054	$34.07	0	$0	#DIV/0!	0	$0	#DIV/0!	0	$0	#DIV/0!	0	0	#DIV/0!
	G10	Site Preparation	501,330		$0.00	501,330	$3,116,961	$6.22	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
	G20	Site Improvements	501,330		$0.00	501,330	$8,783,373	$17.52	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
	G30	Mechanical Utilities	501,330		$0.00	501,330	$4,346,370	$8.67	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
	G40	Electrical Utilities	501,330		$0.00	501,330	$833,350	$1.66	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!	0		#DIV/0!
		Subtotal	**501,330**	**$150,185,803**	**$300**	**501,330**	**$164,753,141**	**$329**	**0**	**$0**	**#DIV/0!**	**0**	**$0**	**#DIV/0!**	**0**	**$0**	**#DIV/0!**	**0**	**0**	**#DIV/0!**
Z		Mark-Ups	501,330	$37,870,851	25.2%	501,330	$42,224,994	25.6%	0	$0	#DIV/0!	0	#REF!	#REF!	0	#REF!	#REF!	0	#REF!	#REF!
Z		Design & Pricing Contingency	501,330	$18,022,296	12.0%	501,330	$16,475,314	10.0%	0		#DIV/0!	0	#REF!	#REF!	0	#REF!	#REF!	0	#REF!	#REF!
Z		Insurance	501,330	$2,303,850	1.5%	501,330	$2,358,029	1.4%	0		#DIV/0!	0	#REF!	#REF!	0	#REF!	#REF!	0	#REF!	#REF!
Z		Bonds	501,330	$1,594,973	4.2%	501,330	$1,697,781	4.0%	0		#DIV/0!	0	#REF!	#REF!	0	#REF!	#REF!	0	#REF!	#REF!
Z		General Conditions & Reqs.	501,330	$10,633,155	7.1%	501,330	$14,148,176	8.6%	0		#DIV/0!	0	#REF!	#REF!	0	#REF!	#REF!	0	#REF!	#REF!
Z		GMP Contingency	501,330		0.0%	501,330	$2,829,635	1.7%	0		#DIV/0!	0	#REF!	#REF!	0	#REF!	#REF!	0	#REF!	#REF!
Z		CM Fee	501,330	$5,316,577	3.5%	501,330	$4,716,059	2.9%	0		#DIV/0!	0	#REF!	#REF!	0	#REF!	#REF!	0	#REF!	#REF!
		Construction Subtotal	**501,330**	**$188,056,654**	**$375**	**501,330**	**$206,978,135**	**$413**	**0**	**$0**	**#DIV/0!**	**0**	**#REF!**	**#REF!**	**0**	**#REF!**	**#REF!**	**0**	**#REF!**	**#REF!**
Z		Escalation to Construction Mid-Point	501,330	$9,011,148	6.0%	501,330	$7,413,891	4.5%	0	$0	#DIV/0!	0	#REF!	#REF!	0	#REF!	#REF!	0	#REF!	#REF!
		Total Addition Cost	**501,330**	**$197,067,802**		**501,330**	**$214,392,026**		**0**	**$0**		**0**	**#REF!**		**0**	**#REF!**		**0**	**#REF!**	
		$/GSF		**$393**			**$428**			**#DIV/0!**			**#REF!**			**#REF!**			**#REF!**	

		Alternates																		
		1																		
		2																		
		3																		
		4																		

MSBA TEMPLATE (UNIFORMAT), REVISED 5-13-2010

COST ESTIMATE RECONCILIATION

OPM's Construction Cost Estimate

LEFTFIELD
THE RIGHT CHOICE IN PROJECT MANAGEMENT

BMC Durfee High School: Fall River, MA

Schematic Design Cost Estimate Reconciliation — **12/15/2017**

		GSF 501,330		GSF 501,330			
		ARCH Estimator (PM & C)		OPM Estimator (A.M. Fogarty)		Variance (PM&C - A.M. Fogarty)	
		Total Amount	Cost/SF	Total Amount	Cost/SF	Total Amount	Cost/SF
A10	FOUNDATIONS	$ 10,040,225	$ 20.03	$ 9,536,287	$ 19.02	$ 503,938	$ 1.01
A20	BASEMENT CONSTRUCTION	$ -	$ -	$ -	$ -	$ -	$ -
B10	STRUCTURE	$ 15,066,451	$ 30.05	$ 15,568,293	$ 31.05	$ (501,842)	$ (1.00)
B20	EXTERIOR CLOSURE	$ 20,698,812	$ 41.29	$ 20,285,985	$ 40.46	$ 412,827	$ 0.82
B30	ROOFING	$ 4,560,237	$ 9.10	$ 5,223,912	$ 10.42	$ (663,675)	$ (1.32)
C10	INTERIOR CONSTRUCTION	$ 20,205,272	$ 40.30	$ 19,782,192	$ 39.46	$ 423,080	$ 0.84
C20	STAIRCASES	$ 1,007,076	$ 2.01	$ 1,144,739	$ 2.28	$ (137,663)	$ (0.27)
C30	INTERIOR FINISHES	$ 10,228,828	$ 20.40	$ 10,590,211	$ 21.12	$ (361,383)	$ (0.72)
D10	VERTICAL MOVEMENT	$ 394,300	$ 0.79	$ 437,111	$ 0.87	$ (42,811)	$ (0.09)
D20	PLUMBING	$ 6,886,573	$ 13.74	$ 7,103,608	$ 14.17	$ (217,035)	$ (0.43)
D30	HVAC	$ 19,355,818	$ 38.61	$ 18,712,640	$ 37.33	$ 643,178	$ 1.28
D40	FIRE PROTECTION	$ 2,193,247	$ 4.37	$ 2,360,199	$ 4.71	$ (166,952)	$ (0.33)
D50	ELECTRICAL	$ 21,210,335	$ 42.31	$ 20,443,148	$ 40.78	$ 767,187	$ 1.53
E10	EQUIPMENT	$ 3,932,462	$ 7.84	$ 3,992,450	$ 7.96	$ (59,988)	$ (0.12)
E20	FURNISHINGS	$ 3,364,986	$ 6.71	$ 3,301,722	$ 6.59	$ 63,264	$ 0.13
F10	SPECIAL CONSTRUCTION	$ 3,092,050	$ 6.17	$ 1,500,000	$ 2.99	$ 1,592,050	$ 3.18
F20	DEMOLITION/SELECTIVE DEMOLITION/HAZMAT	$ 5,436,415	$ 10.84	$ 6,118,453	$ 12.20	$ (682,038)	$ (1.36)
G10	SITE PREPARATION	$ 3,116,961	$ 6.22	$ 3,311,056	$ 6.60	$ (194,095)	$ (0.39)
G20	SITE IMPROVEMENTS	$ 8,783,373	$ 17.52	$ 10,923,468	$ 21.79	$ (2,140,095)	$ (4.27)
G30	SITE MECHANICAL UTILITIES	$ 4,346,370	$ 8.67	$ 3,821,241	$ 7.62	$ 525,129	$ 1.05
G40	SITE ELECTRICAL UTILITIES	$ 833,350	$ 1.66	$ 725,000	$ 1.45	$ 108,350	$ 0.22
TOTAL CONSTRUCTION COSTS	0.08%	$ 164,753,141	$ 328.63	$ 164,881,715	$ 328.89	$ (128,574)	$ (0.26)
	Design & Estimating Contingency (10% - 10%)	$ 16,475,314	$ 32.86	$ 16,488,171	$ 32.89	$ (12,857)	$ (0.03)
	General Conditions (5% - 42 Mos.)	$ 9,432,117	$ 18.81	$ 6,090,000	$ 12.15	$ 3,342,117	$ 6.67
	General Requirements (2.5% - 3%)	$ 4,716,059	$ 3.39	$ 5,953,935	$ 11.88	$ (1,237,876)	$ (8.49)
	Insurances (1.25% - 1.35%)	$ 2,358,029	$ 4.70	$ 2,783,106	$ 5.55	$ (425,077)	$ (0.85)
	Bonds (0.90% - 0.85%)	$ 1,697,781	$ 3.39	$ 1,737,557	$ 3.47	$ (39,776)	$ (0.08)
	CM Fee (Overhead & Profit) (2.5% - 2.5%)	$ 4,716,059	$ 9.41	$ 5,223,478	$ 10.42	$ (507,419)	$ (1.01)
	CM GMP Contingency (1.5% - 1.5%)	$ 2,829,635	$ 5.64	$ 2,842,973	$ 5.67	$ (13,338)	$ (0.03)
	Escalation (4.5% - 4.5%)	$ 7,413,891	$ 14.79	$ 8,161,645	$ 16.28	$ (747,754)	$ (1.49)
TOTAL ESTIMATED COSTS	0.11%	$ 214,392,026	$ 427.65	$ 214,162,579	$ 427.19	$ 229,447	$ 0.46
Construction Budget (As shown in PSR)		$ 197,067,802	$ 393.09	$ 197,067,802	$ 393.09	$ -	$ -
Variance from MSBA PSR Submission		$ 17,324,224	$ 34.56	$ 17,094,777	$ 34.10	$ 229,447	$ 0.46

PROJECT DIRECTORY

Updated Project Work Plan

Durfee High School Project- Fall River, MA **PROJECT DIRECTORY**

City of Fall River

City Hall:	One Government Center Fall River, Massachusetts 02722 Tel: (508) 324-2600	
City Council:	City Hall, 2nd Floor Tel: (508) 324-2233	Colleen A. Taylor - Secretary Email: city_council@fallriverma.org
Mayor		
Jasiel F. Correia II	Tel: (508) 324-2600	Email: Mayor@fallriverschools.org
City Councilors		
Richard Cabeceiras	Tel: (774) 488-0631	Email: RichC@fallriverma.org
Joseph D. Camara	Tel: (508) 674-4361	Email: city_council@fallriverma.org
Steven A Camara	Tel: (508) 678-1463	Email: steve@stevecamara.com
Pam Laliberte-Lebeau	Tel: (508) 367-6819	Email: Pam.Laliberte-Lebeau@fallriverma.org
Stephen R. Long	Tel: (508) 717-1683	Email: city_council@fallriverma.org
Raymond A Mitchell	Tel: (508) 679-6070	Email: city_council@fallriverma.org
Linda M. Pereira, Vice President	Tel: (508) 965-8266	Email: lindamp55@gmail.com
Cliff Ponte	Tel: (508) 567-8604	Email: CliffPonteJr@gmail.com
Council President		
Shawn E. Cadime	Tel: (774) 930-6142	Email:scadime.citycouncil@gmail.com
Chris Gallagher *Director of Building & Grounds*	Tel: (508) 922-6715	Email: cgallagher@fallriverma.org
Mary Sahady *Diector of Financial Services*	Tel: (508) 324-2260	Email: msahady@fallriverma.org
Vacant *Treasurer*	Tel: (781) 586-6907	Email: treasurers@fallriverma.org
Rhonda Pinnell *Purchasing Agent*	Tel: (774) 301-4901	Email: rpinnell@fallriverha.org

School Department

Fall River Public Schools:	Fall River Public Schools Adminstration Building 417 Rock Street Fall River, MA 02720 Tel: (508) 675-8420	
Dr. Matthew Malone *Superintendent of Schools*	Tel: (508) 675-8420 Ext 53705	Email: mmalone@fallriverschools.org
Becky Caron *Administrative Assistant Superintendent's Office*	Tel: (508) 675-8420 Ext 53702	Email:bcaron@fallriverschools.org
Ken Pacheco *Chief Operating Officer*	Tel: (508) 675-8420 Ext 53704	Email: kenpacheco@fallriverschools.org
Matt Desmairis *Principal Durfee High School*	Tel: (774) 644-1016	Email: mdesmairis@fallriverschools.org
Shayna Morgan *Operations Durfee High School*	Tel: (774) 201-9400	Email: smorgan@fallriverschools.org

Durfee High School Project- Fall River, MA — PROJECT DIRECTORY

Massachusetts School Building Authority (MSBA)

40 Broad Street, Suite 500 Boston, MA 02109	Tel: (617) 720-4466 Fax: (617) 720-5260	Website: www.massschoolbuildings.org
Christopher Alles *Project Manager*	Tel: (617) 720-4466	Email: Chris.Alles@MassSchoolBuildings.org
Brian Lynch *Project Coordinator*	Tel: (617) 720-4466	Email: Brian.Lynch@massschoolbuildings.org
Joseph Buckley, PE *Chief Engineer*	Tel: (617) 720-4466	Email: joseph.buckley@massschoolbuildings.org
Kristine McAndrews *ProPay Assistance*	Tel: (617) 720-4466	Email: Kristine.McAndrews@MassSchoolBuildings.o

School Building Committee (SBC)

Voting Members:

Jasiel F. Correia II	Tel: (508) 324-2600	Email: Mayor@fallriverschools.org
Cathy Ann Viveiros	Tel: ()	Email: cviveiros@fallriverma.org
Rhonda Pinnell	Tel: (774) 301-4901	Email: rpinnell@fallriverma.org
Tim McCoy	Tel: (774) 301-4901	Email: tim.mccoy@fallriverha.org
Chris Gallagher	Tel: (508) 922-6715	Email: cgallagher@fallriverma.org
Carole Fiola	Tel: (617) 722-2460	Email: carole.fiola@mahouse.gov
Mathew Malone	Tel: (508) 675-8423	Email: mmalone@fallriverschools.org
Ken Pacheco	Tel: (508) 989-2160	Email: kenpacheco@fallriverschools.org
Joseph Camara	Tel: (508) 810-1167	Email: joeicecam@aol.com
Mark Costa	Tel: ()	Email: markcosta@fallriverschools.org
Ed Costar	Tel: (508) 642-8756	Email: ecostar@fallriverschools.org
Maria Pontes	Tel: (774) 644-1016	Email: mpontes@fallriverschools.org
Melissa Fogarty	Tel: (774) 201-9400	Email: mfogarty@fallriverschools.org
Michael Costa	Tel: (508) 801-0466	Email: mikecosta@fallriverschools.org
Gary Bigelow	Tel: (508) 558-5134	Email: gbigelow@fallriverschools.org
Nick Christ	Tel: (508) 678-7641	Email: nchrist@baycoast.com
Michael Keane	Tel: (508) 673-0038	Email: mkeane@civitech.com
Brantley Hunsinger	Tel: (508) 989-2864	Email: btech@aol.com

Non-Voting Members:

Lauren Correa	Tel: (774) 319-8482	Email: lauren.correa@comcast.net
Catarina Pereira	Tel: ()	Email: catarinap2019@gmail.com
Jensen Riley	Tel: ()	Email: jensenriley10@gmail.com

Durfee High School Project- Fall River, MA — PROJECT DIRECTORY

Owner's Project Manager

LeftField, LLC 225 Franklin Street, 26th Floor Boston, MA 02110	Tel: (617) 737-6400 Fax: (617) 217-2001	Website: www.LeftFieldpm.com
Jim Rogers *Principal in Charge*	Tel: (617) 737-6400 Cell: (617) 593-0661	Email: jrogers@leftfieldpm.com
Lynn Stapleton *Project Director*	Tel: (617) 737-6400 Cell: (508) 269-0457	Email: lstapleton@leftfieldpm.com
Adam Keane *Project Manager*	Tel: (617) 737-6400 Cell: (617) 593-9539	Email: akeane@leftfieldpm.com
Paul Gransaull *Assistant Project Manager*	Tel: (617) 737-6400 Cell: (617) 294-4944	Email: pgransaull@leftfieldpm.com

Owner's Project Manager's Consultants

Cost Estimating:

A.M. Fogarty 20 Downer Avenue Hingham, MA 02043	Tel: (781) 740-8007	
Peter Timothy *President*		Email: ptim@amfogarty.com

Architect

Ai3 Architects LLC 526 Boston Post Road Wayland, MA 01778	Tel: (508) 358-0790 Fax: (508) 358-0791	Website: www.ai3architects.com
Scott Dunlap *Principal*	Tel: (508) 358-0790 Cell: (508) 498-6744	Email: dunlap@ai3architects.com
Troy Randall *Principal*	Tel: (508) 498-6741 Cell: (617) 947-8576	Email: randall@ai3architects.com

Architect's Consultants

Educational Planning:

New Vista Designs for Learning 32 Sheridan Street, Suite 2 Jamaica Plain, MA 02130	Tel: (617) 733-0847	Website: www.newvistadesign.net
David Stephen *Principal*	Tel: (617) 412-7444	Email: david@newvistadesign.net

Geotechnical Engineers:

Lahlaf Geotechnical Consulting Inc. 100 Chelmsford Road, Suite 2 Billerica, MA 01862	Tel: (978) 330-5912 Fax: (978) 330-5056	Website: www.LGCinc.net
Majid Lahlaf *Principal*	Tel: (781) 771-1933	Email: majid.lahlaf@LGCinc.net

Durfee High School Project- Fall River, MA — PROJECT DIRECTORY

Environmental Permitting/Geo-Environmental Engi

PARE Corporation
8 Blackstone Valley Place
Lincoln, RI 02865
Tel: (401) 334-4100
Fax: (401) 334-4108
Website: www.parecorp.com

Briscoe Lang
Principal Environmental Scientist - Environmental Permitting; Geo-Environmental Engineering
Tel: (401) 334-4100
Email: blang@parecorp.com

Civil Engineering:

PARE Corporation
10 Lincoln Road, Suite 120
Foxboro, MA 02035
Tel: (508) 543-1755
Fax: (508) 543-1881
Website: www.parecorp.com

Andrew Chagnon
Vice President
Tel: (774) 280-01633
Email: achagnon@parecorp.com

Landscape Architecture:

Birchwood Design Group
150 Chestnut St., 4th Floor
Providence, RI 02903
Tel: (401) 383-4950
Fax: N/A
Website: www.birchwooddesigngroup.com

Arthur Eddy
Principal
Tel: (617) 896-4532
Email: aeddy@birchwooddesigngroup.com

Structural Engineering:

Engineers Design Group
350 Main Street, #29
Malden, MA 02148
Tel: (781)-396-9007
Fax: (781)- 396-9008
Website: www.edginc.com

Mehul Dhuruv
Senior Structural Engineer
Tel: (781)-396-9007
Email: mdhuruv@edginc.com

HVAC/Electrical/Lighting/Plumbing/Fire Protection/Data& Communications/Technology/Security:

Griffith & Vary, Inc.
12 Kendrick Road
Wareham, MA 02571
Tel: (508) 295-0050
Fax: (508) 295-0003
Website: www.griffithandvary.com

Wayne Mattson
Principal / HVAC, Plumbing, Fire Protection
Tel: (508) 295-0050
Email: wmattson@griffithandvary.com

Robert Bravo
Principal Electrical/Lighting
Tel: (508) 295-0050
Email: rbravo@griffithandvary.com

Data & Communications/Technology/Security:

Ai3 Architects LLC
526 Boston Post Road
Wayland, MA 01778
Tel: (508) 358-0790
Fax: (508) 358-0791
Website: www.ai3architects.com

John Jordan
IT Director
Tel: (508) 498-8744
Cell:
Email: john@ai3architects.com

Durfee High School Project- Fall River, MA — PROJECT DIRECTORY

Hazardous Materials:

Universal Environmental Consultants
12 Brewster Road
Framingham, MA 01702
Tel: `
Fax: (508) 628-5488
Website: N/A

Ammar Dieb
Principal
Tel: (617) 984-9772
Email: adieb@uec-env.com

Cost Estimating:

PM&C
20 Downer Avenue
Hingham, MA 02043
Tel: (781) 740-8007
Website: www.pmc-ma.com

Peter Bradley
President
Email: peterbradley@pmc-ma.com

Theatrical:

Barbizon Lighting Co.
3 Draper Street
Woburn, MA 01801
Tel: (781) 935-3920
Fax: (781) 935-9273
Website: www.barbizon.com

Scott Stipetic
Senior Systems Integrator
Tel: (561) 307-0618
Email: stipetic@barbizon.com

Acoustical:

Acentech Inc.
33 Moulton Street
Cambridge, MA 02138
Tel: (617) 499-8000
Fax: (617) 499-8074
Website: www.acentech.com

Ioana Pieleanu
Senior Consultant
Tel: (617) 499-8000
Email: ipieleanu@acentech.com

Specifications:

Wil-Spec LLC
15 Post Office Square
Lynnfield, MA 01940
Tel: (781) 598-6789
Fax: (781) 598-8765
Website: www.wil-spec.com

Robb Wilkinson
Principal
Tel: (781) 598-6789
Fax: (781) 598-8765
Email: robb@wil-spec.com

Sustainable/Green Design/Renewable Energy Consultant/Energy Modeling:

Andelman & Lelek Engineering, Inc.
1408 Providence Highway
Norwood, MA 02062
Tel: (781) 769-8773
Fax: (781) 769-8944
Website: www.andelmanlelek.com

Magda Lelek
Principal
Tel: (781) 769-8773
Email: magda@andelmanlelek.com

Durfee High School Project- Fall River, MA — PROJECT DIRECTORY

Code:

Cosentini Associates, Inc. 101 Federal Street, Suite 600 Boston, MA 02110	Tel: (617) 748-7800 Fax: (617) 748-7801	Website: www.cosentini.com
Rockwood Edwards PE *Vice President*	Tel: (617) 748-7800	Email: redwards@cosentini.com

Security:

TSG Solutions 300 Congress Street Quincy, MA 02169	Tel: (866) 817-5817 Fax: (802) 861-1303	Website: www.margolishealy.com
Matthew Williams *Senior Security Consultant*	Tel: (857) 202-0320	Email: m.williams@tsgsinc.com

COMMUNICATIONS & DOCUMENT CONTROL PROCEDURES / ROLES & RESPONSIBILITIES

Updated Project Work Plan

B.M.C. DURFEE HIGH SCHOOL

FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

MSBA GRANT-FUNDED SCHOOL CONSTRUCTION PROJECTS

January 3, 2018

LEFTFIELD PROJECT MANAGEMENT, LLC

LEFTFIELD

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B.M.C. DURFEE HIGH SCHOOL - FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

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2	Project Directory
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B.M.C. DURFEE HIGH SCHOOL - FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

OVERVIEW

As the Owner's Project Manager, **LeftField** provides coordination among all parties to ensure that everyone is kept informed and involved. Clear communication and documentation is critical to facilitate project collaboration, team work and ultimately project success. Therefore, protocols and standards have been developed and will be adhered to in support of this goal.

Establishing protocols and standards will enable the team to efficiently and effectively meet all project goals and will streamline construction of the new B.M.C. Durfee High School. These guidelines will allow the project to be delivered on time and within budget.

As required per Section 8.1.1 of the *Contract for Owner's Project Management Services* , the intent of this Communication and Document Protocol Manual is to establish responsibilities and procedures for all communication and documentation that will be issued throughout the course of the project from the Design Development Phase through the Bidding, Construction and Close-Out Phases. Documentation that will be issued includes schedules, reports, meeting minutes, construction logs and distribution lists for all forms of documentation.

SCHEDULES

There are several types of schedules that will be prepared and maintained throughout the project including, but not limited to, the Master Project Schedule, the Milestones Schedule, the Schedule of Values, the overall Construction Schedule and the Three-Week Look Ahead Schedule. Dependent upon the type of schedule, the appropriate responsible party will be identified and tasked with preparing and maintaining the schedule throughout the project as required. Distinct distribution lists will be established for each schedule type.

REPORTS

There are many different reports that will be issued during the course of the project including, but not limited to: Monthly Progress Reports; Weekly/Daily Field Reports; Field Observation Reports; and Punch Lists. Monthly Reports will be issued throughout the design and construction timeframe and will include a list of meetings held, milestones reached for that month and anticipated meetings and milestones for the upcoming month. This report will also include an updated Budget Report, Cash Flow Reports, Project Schedule, Change/Potential Change Log, Progress Photographs and Meeting Minutes for the month. Weekly Field Reports will be issued during construction and will include information from daily field reports.

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B.M.C. DURFEE HIGH SCHOOL - FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

OVERVIEW (continued)

MEETING MINUTES

A variety of meetings will be held throughout the Project and will range from School Building Committee Meetings to Design Development Meetings, Pre-Construction Meetings to Construction Progress Meetings. For all meetings, meeting minutes will be prepared and distributed. For each meeting type, standards will be established (if not already established) regarding the required attendance, the party responsible for recording the minutes, the format of the minutes and the distribution of the minutes. LF - SBC and Construction Meetings; Ai3 - Design Meetings; CM - Contruction Meetings

LOGS

To effectively track all documentation issued on behalf of the Project, there will be many types of logs that will be prepared, maintained and distributed. There will be logs for Construction Drawings, Construction Sketches, Addenda, Requests for Information (RFI), Architect's Supplemental Information (ASI), Request for Proposals (RFP), Construction Change Directives (CCD), Submittals, Proposed Change Orders (PCO), Change Orders (CO) and a Finish Schedule.

For all of the logs noted, there will be an established protocol in terms of the responsible party, how often the logs are issued and to whom the logs are distributed.

Included in this Manual is a Project Directory established thus far to include the B.M.C. Durfee High School Building Committee, LeftField (Owner's Project Manager), Ai3 Architects (Designer) and TBD (Construction Manager at-Risk). This directory will be updated throughout the project when additional participants are added to the project.

Also included is a Project Roles and Responsibilities Matrix which outlines the various tasks throughout the different stages of the project. For each task listed, the degree of involvement for the responsible parties is identified by the following: Lead (L), Support (S), Review and/or input (R).

Extracted from the Project Roles and Responsibilities Matrix described above, are the items which pertain to the various types of documents that will be issued throughout the project, including schedules, reports, meeting minutes and logs. A detailed narrative follows the Responsibility Matrix.

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B.M.C. DURFEE HIGH SCHOOL - FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

PROJECT DIRECTORY

School Building Committee /Owner			
Tim McCoy	FRHA Purchasing Agent	(774) 301-4901	tim.mccoy@fallriverha.org
Chris Gallagher	City Director of Buildings & Grounds	(508) 922-6715	cgallagher@fallriverma.org
Carole Fiola	State Representative	(617) 722-2460	carole.fiola@mahouse.gov
Mathew Malone, Ph.D.	Superintendent of Schools	(508) 675-8423	mmalone@fallriverschools.org
Ken Pacheco	FRPS Chief of Operations, SBC Co-Chair	(508) 989-2160	kenpacheco@fallriverschools.org
Joseph Camara	City Councilor, SBC Co-Chair	(508) 810-1167	joeicecam@aol.com
Mark Costa	School Committee, Vice - Chair		markcosta@fallriverschools.org
Ed Costar	School Committee	(508) 642-8756	ecostar@fallriverschools.org
Maria Pontes	Former Durfee HS Principal	(774) 644-1016	mpontes@fallriverschools.org
Melissa Fogarty	Director of Operations, Durfee HS	(774) 201-9400	mfogarty@fallriverschools.org
Michael Costa	Teacher, Durfee HS	(508) 801-0466	mikecosta@fallriverschools.org
Gary Bigelow	Teacher, Durfee HS	(508) 558-5134	gbigelow@fallriverschools.org
Nick Christ	Baycoast Bank, CEO	(508) 678-7641	nchrist@baycoast.com
Michael Keane	Civictect Architects, Owner	(508) 673-0038	mkeane@civitech.com
Brantley Hunsinger	B-Tech Construction, Owner	(508) 989-2864	btech@aol.com
Non-Voting Members			
Jasiel F. Correia II	Mayor, City of Fall River	(508) 324-2600	Mayor@fallriverschools.org
Cathy Ann Viveiros	City Administrator		cviveiros@fallriverma.org
Rhonda Pinnell	City Purchasing Agent, MCPPO	(774) 301-4901	rpinnell@fallriverma.org
Lauren Correa	Student, Durfee HS	(774) 319-8482	lauren.correa@comcast.net
Catarina Pereira	Student, Durfee HS		catarinap2019@gmail.com
Jensen Riley	Student, Durfee HS		jensenriley10@gmail.com

Leftfield Project Management, LLC		(617) 737-6400	
Jim Rogers	President	(617) 593-0661	JRogers@leftfieldpm.com
Lynn Stapleton	Project Director	(508) 269-0457	LStapleton@leftfieldpm.com
Adam Keane	Project Manager	(617) 593-9539	AKeane@leftfieldpm.com
Paul Gransaul	Assistant Project Manager	(617) 293-4944	PGransaull@leftfieldpm.com
TBD	On Site Field Representative		

Ai3 Architects, LLC		(508) 358-0790	
Scott Dunlap	Principal	(508) 358-0790	dunlap@ai3architects.com
Troy Randall	Principal	(508) 498-6741	randall@ai3architects.com
Craig Olsen	Senior Associate	(508) 358-0790	olsen@ai3architects.com
Jonathan Quell	Architect	(508) 358-0790	quell@ai3architects.com
Kristen Baker	Office Manager	(508) 358-0790	baker@ai3architects.com

CM - TBD			

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B.M.C. DURFEE HIGH SCHOOL - FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

PROJECT ROLES/RESPONSIBILITIES MATRIX

L	= Lead	Provides information during process and final issuance of document or recommendation
S	= Support	Provides information during process or otherwise supports Lead role
R	= Review/Input	Provides interim opinion and final review

	ACTIVITY	Ai3	LF	CxA	CM	SBC	MSBA
PHASE 1: PROBLEM IDENTIFICATION							
a	Statement of Interest					**L**	R
b	Facilities Master Plan					**L**	R
c	Design and Education Program					**L**	R
d	Budget Statement for Educational Objectives					**L**	R
e	Form School Building Advisory Committee					**L**	R
f	Initial Compliance Certification					**L**	R
PHASE 2: PROBLEM VERIFICATION							
a	Facility and Maintenance Assessment					S	**L**
b	Enrollment Projections					S	**L**
PHASE 3: OPM SELECTION/FEASIBILITY STUDY/SCHEMATIC DESIGN							
a	Pre-Study Review Meeting					S	**L**
b	Procure OPM					**L**	S
c	Procure Designer/Feasibility		S			**L**	R
d	Designer Selection Panel		S			S	**L**
e	Review Design & Education Program	S	S			**L**	R
f	Feasibility Study	**L**	S			R	R
PHASE 4: EXECUTE PROJECT FUNDING AGREEMENT							
a	Project Scope & Budget Conference	S	S			R	**L**
b	Project Scope & Budget Agreement		S			R	**L**
PHASE 5: OPM CONTRACT ADMINISTRATION							
a	Project Controls - Total Project Cost	S	**L**			S	R
b	Meetings with Owner, MSBA & Community	S	**L**		S	S	R
c	Progress Reports (Monthly)		**L**			R	R
d	Communication and Document Control	S	**L**		S	R	R

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B.M.C. DURFEE HIGH SCHOOL - FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

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	ACTIVITY	Ai3	LF	CxA	CM	SBC	MSBA
e	Review All Project Invoices		L			S	R
f	Review Designer's Contract Compliance		L			S	R
g	Submit Pro-Pay Application		L			S	S
PHASE 6: IMPLEMENTATION							
	Final Design						
a	Procure Designer for Final Design		S			L	S
b	Designer Selection Panel (if change)		S			S	L
c	Negotiate Final Design Contract		S			L	S
d	Assign Commissioning Agent	R	R			R	L
e	Design Development	L	S	S	S	S	
f	Procure Construction Manager	S	S			L	R
g	Design Coordination Meetings	L	S		S	S	R
h	Value Engineering (Schematic, 60% and 90%)	S	L	S	S	S	R
i	60% Construction Documents	L	S	S	S	R	R
j	Procure CM at risk (if applicable)	S	S			L	R
k	Negotiate CM contract (if applicable)		S			L	R
l	90% Construction Documents	L	S	S	S	S	R
m	Bid Documents	L	S	S	S	S	R
	Bidding Services						
a	Prequalification of Contractors	S	L		S	S	
b	Pre-Bid Meetings/Site Visit	S	L		S	S	
c	Issuance of Addenda	L	S		S	R	
d	Response to Technical Inquiries	L	S		S	R	
e	Bid Tabulations	S	L		L	R	R
f	Bid Evaluations	S	L		L	R	
g	Award Recommendations	S	L		L	S	R

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	ACTIVITY	Ai3	LF	CxA	CM	SBC	MSBA
h	Pre-Award Conference	S	L		L	S	
	Construction						
	Meetings						
a	Pre-Construction Conference	S	L	R	S	R	
b	Progress Meetings	S	L	R	S	R	
	Project Controls						
a	Scheduling/Work Plan/SOV/Coordination	S	S		L	R	R
b	Construction Meetings (weekly)	S	S		L	S	
c	Cost Estimates/Budgeting/Cash flows		L			R	R
d	Site Observation - Daily Log		L			R	
e	Weekly Progress Reports (Field Observation Reports)	L	S		R	R	
	Record Drawings						
a	As-Built Drawing Preparation	R	R		L	R	
b	Review As-Built Drawings (Weekly)	S	R		L	R	
c	Record Drawing Approval	L	R			R	
	Construction Contract Administration						
a	MBE/WBE Monitoring Compliance	S	L		S	R	R
b	Review Contractor Payment Requisitions	L	S		S	R	R
c	Contractor Evaluations - 50%	S	L		S	S	R
d	Change Order Development	S	S		L	R	
e	Change Order Review and Approval	S	L		S	R	R
f	Claims Processing	S	L		S	S	R
	Resident Inspection						
a	Survey	S	S		L	R	
b	Construction Observation	S	L	S	S	R	
c	LSP Services/Support	S	S		L	R	

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B.M.C. DURFEE HIGH SCHOOL - FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

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	ACTIVITY	Ai3	LF	CxA	CM	SBC	MSBA
d	Independent Quality Assurance	S	**L**	S	S	R	
e	Environmental Compliance	S	S		**L**	R	
	Document Interpretation/Submittals						
a	Specifications for Submittals	**L**	S	S	S	R	
	Testing & Commissioning						
a	Develop Testing Specifications	**L**	S	S	S	R	
b	Functional Test Performance	R	S	**L**	**L**	R	
c	In-Shop Test Witnessing	R	**L**	S	S	R	
d	Operation & Maintenance Manual Review	**L**	S	S	S	R	
e	Commissioning	S	S	**L**	S	S	S
	Contracts Closeout						
a	Punch List	**L**	S	S	**L**	S	
b	Certificate of Occupancy	S	S	S	**L**	S	
c	Contractor Evaluations - Final	S	**L**		S	S	
d	Warranty Consultation (From Date of Final Acceptance of Project)	S	**L**		S	S	
e	Designer Evaluation		**L**		S	S	
f	OPM Evaluation	S			S	**L**	S
g	Record Set for Owner	R	R		**L**		

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B.M.C. DURFEE HIGH SCHOOL - FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

DOCUMENT CONTROL: DETAIL

L	=	Lead
S	=	Support
R	=	Review/Input

	ACTIVITY	Ai3	LF	CxA	CM	SBC	MSBA
CONTRACT ADMINISTRATION							
a	**Project Controls - Total Project Cost**	S	**L**		S	R	R

LeftField (LF) manages the project budget. LF tracks all project costs including hard and soft costs, all project commitments, expenditures to-date including any projections of additional costs or budget transfers that may be needed. LF reviews all invoices for the project.

b	**Meetings with Owner, MSBA & Community**	S	**L**		S	S	S

LF and Ai3 will meet on a monthly basis with the School Building Committee. LF will prepare and distribute electronically the agenda and previous meeting minutes for the monthly meeting 2 days in advance of each meeting. The Agenda will include authorization of the minutes from the month prior as the first order of business, which will require a motion and a vote by the Committee. In accoAi3nce with the Open Meeting Law, all additional items requiring discussion and/or a vote by the Committee will be included on the agenda that will be posted 48 hours prior to the meeting.

LF, Ai3 and the Construction Manager will meet every other week in a Design/Construction Coordination Meeting. SBC members are invited to attend these meeting. Subcommittes comprised of SBC members, users, administration and/or community members will be established for selected design topics in order to make efficient, comprehensive design decisions. LF will prepare the agenda for each meeting with input from Ai3 and City/District. Ai3 will prepare meeting minutes within one week of the meeting date. The meeting minutes will be distributed to all members of the School Building Committee.

LF will attend all meetings with the MSBA. Ai3 will attend meetings with the MSBA if informed by LF or the MSBA that their review/input is required.

When required, LF and/or Ai3, CM will attend meetings with the Community, user groups and regulatory authorities.

LF will maintain a binder(s), chronologically ordered, that documents all School Building Committee meetings. LF will provide the documents electronically to be made available on the City/District's website for convenience.

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B.M.C. DURFEE HIGH SCHOOL - FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

DOCUMENT CONTROL: DETAIL

L	= Lead
S	= Support
R	= Review/Input

	ACTIVITY	Ai3	LF	CxA	CM	SBC	MSBA
c	**Progress Reports (Monthly)**		**L**			R	R

LF will issue Monthly Progress Reports to the MSBA and the Owner throughout the Design Development, Construction Documents, Bidding, Construction and Close-Out Phases of the project.

Throughout the Schematic Design and Design Development phases, these reports will include Tasks Completed, Project Budget Update, One-Month Look Ahead and a Project Schedule. This Monthly Progress Report will be issued electronically and will be distributed to the MSBA and the School Building Committee.

Once construction commences, the report will be reformatted to include an Executive Summary, Master Project Schedule, Total Project Budget, Meeting Minutes and Supplemental Information including project photographs. Copies of the Monthly Report will be issued to the MSBA and the School Building Committee and a copy will be uploaded on the B.M.C. Durfee High School Project website.

d	**Document Control**	S	**L**		S	R	

Throughout the project, LF will maintain a systematic filing system for all project documents issued to date.

All construction document logs including ASIs, RFPs, CCDs, RFIs, Submittals, PCOs and COs shall be monitored and maintained by the Construction Manager. All logs will be distributed by the Construction Manager for Review at weekly job meetings. The particular software in which the data will be tracked will be reviewed and determined at the Pre-Construction Conference.

LF will maintain an independent PCO/CO/Risk Log to track these changes in relation to the Total Project Budget.

e	**Review all Project Invoices**	S	**L**			S	R

As part of managing the Total Project Budget, LF will review all project invoices on behalf of the Owner. Once paid, the Owner will submit invoices to the MSBA Pro-Pay system. LF will review and sign hard copies of the Pro-Pay Monthly Submissions. LF will verify that the Pro-Pay submittals are consistent with the Total Project Budget Reports that LF maintains.

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B.M.C. DURFEE HIGH SCHOOL - FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

DOCUMENT CONTROL: DETAIL

L	=	Lead
S	=	Support
R	=	Review/Input

	ACTIVITY	Ai3	LF	CxA	CM	SBC	MSBA
	IMPLEMENTATION						
	Bidding Services						
a	**Issuance of Addenda**	L	S		S	R	

Ai3 will prepare and issue addenda as required during the bidding period. Ai3 will maintain and update an Addenda Log to track all addenda issued.

	Construction						
	Project Controls						
a	**Scheduling/Work Plan/SOV/Coordination**	S	S		L	R	R

LF will maintain a detailed Baseline Master Project Schedule throughout the duration of the project. This document will serve as the Project Control against which all Project progress will be measured and will be updated throughout the duration of the Project. Any major revisions made to the Project Schedule shall be submitted to the Owner for approval.

LF, Ai3 and the Owner shall review the Construction Schedule and Work Plan which is prepared monthly by the Construction Manager. LF will review this Schedule in terms of monitoring the timeliness of the of submittal requirements. If there is any slippage in the Schedule, LF will require the Construction Manager to submit a Schedule Recovery Plan.

LF shall review the Schedule of Values prepared by the Construction Manager at the beginning of construction which will be compared against the final estimate.

The Construction Manager shall coordinate all aspects of construction to ensure that all building systems have been coordinated and are in sync with the Project Schedule.

LEFTFIELD
THE RIGHT CHOICE IN PROJECT MANAGEMENT

B.M.C. DURFEE HIGH SCHOOL - FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

DOCUMENT CONTROL: DETAIL

L	= Lead
S	= Support
R	= Review/Input

	ACTIVITY	Ai3	LF	CxA	CM	SBC	MSBA
b	**Construction Meetings (weekly)**	S	S		**L**	S	

Prior to each job meeting, LF and Ai3 will meet on site to review current issues.

The Construction Manager will meet on site, weekly, with Ai3, LF and (1) or (2) members of the School Building Committee, as designated by the SBC. When required, Design Consultants and the Construction Manager's Subconsultants will be asked to attend the meeting. The Construction Manager will prepare and maintain a Three-Week Look Ahead throughout the construction process. The meetings will be structured to commence with review of the Three-Week Look Ahead, followed by review of RFI and Submittal Logs. The status of previous issues will then be addressed, followed by new business and Proposed Change Orders/Change Orders.

LF will prepare the construction job meeting minutes and distribute copies of meeting minutes electronically at least 24 hours prior to the next job meeting. The minutes will record items by date, action, responsibility and status.

c	**Cost Estimates/Budgeting/Cash Flows**	S	**L**		S	R	R

As noted in "Project Controls - Total Project Cost" above, LF will manage the Project Budget throughout the entire project. Cost estimates will be prepared during Design Development as well as at 60% Construction Documents. A review estimate will be prepared at the 90% Construction Documents Phase. LF will coordinate reconciliation of the Construction Manager's Cost Estimates with the Designer's Cost Estimates at completion of each phase and notify the Owner of any variances. During construction, JLA will work with the Construction Manager to ensure that the Project stays within budget.

d	**Site Observation - Daily Log**		**L**		S	R	R

A LF Project Representative shall keep a Daily Log containing site conditions and construction activities as outlined in the Contract for Owner's Project Management Services, Article 8.6.5.1.

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	ACTIVITY	Ai3	LF	CxA	CM	SBC	MSBA
e	**Weekly Progress Reports (Field Observation Reports)**	**L**	S		R	R	

Ai3 shall prepare Weekly Progress Reports (Field Observation Reports) which will be submitted to LF and the Owner. This report will summarize the progress achieved and a concise description of issues.

	Record Drawings						
a	**As-Built Drawing Preparation**	S	R		**L**	R	

As-Build Drawings will be reviewed weekly on site for conformance with actual construction. The Construction Manager shall submit to Ai3 As-Built Drawings prior to issuance of the Certificate of Substantial Completion.

	Construction Contract Administration						
a	**Contractor Payment Requisitions**	S	**L**		S	S	

The Construction Manager will submit to Ai3 and LF a Pencil Payment Requisition by the third business day of each month for work completed in the preceding month. Ai3 and LF will review and the Construction Manager will modify the Requisition based on changes requested. A final Requisition will then be submitted to Ai3 and LF for certification on the Requisition schedule established during the Pre-Construction Meeting. Within 15 days of the Architect's Certification, the Requisition will be paid by the City.

b	**Change Order Processing**	S	S		**L**	R	

The Construction Manager shall prepare a Proposed Change Order/Change Order Log as well as "works-in progress" cost schedules for review at the weekly job meeting.

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	ACTIVITY	Ai3	LF	CxA	CM	SBC	MSBA
c	**Change Order Review and Approval**	S	**L**		S	R	R

Ai3 will coordinate the COR review with LF. Ai3 will review and determine whether a Proposed Change Order (PCO) is within the scope of the Contract Documents or is indeed a change. PCOs that are legitimate changes will be reviewed on a regular basis and collected into Change Orders that are signed by the Construction Manager, Ai3, LF and the Owner. No payments for PCOs will be made until a signed Change Order is prepared and executed. In addition to the PCO/CO Log, which is prepared and maintained by the Construction Manager, LF will maintain a separate log to track these documents in relation to the Total Project Budget.

	Documentation Interpretation/Submittals						
a	**Specification for Submittals**	**L**	S	R	S	R	

The specifics of submittal processing will be determined in the Project Specifications and reviewed at the Pre-Construction Conference. Items to be reviewed are the logistics of submittal distribution, submittal format (hard copy and/or electronic) and number of days required for review. The Construction Manager will provide a Submittals Log at each job meeting with the items that require immediate attention identified.

Ai3 shall prepare, maintain and update logs for all submittals including, but not limited to, Addenda, ASI, RFP, CCD and Submittals. The CM will maintain these logs as well.

	Contracts Close-Out						
a	**Punch list**	**L**	S	S	**L**	S	

Once Substantial Completion is achieved, the Construction Manager will prepare a Punch List of all outstanding items to be completed. This list will be comprehensive including items from all trades within the contract scope including civil/site, landscape, architecture, structural, MEP & FP, Communications & Technology, Food Service, etc. Ai3 will review this list and coordinate a Punch List process with the design team. Ai3 and LF will establish a process to track completed items and items which remain open. Ai3 shall reserve the right to deem whether or not to proceed in a particular space given the scope of work pending completion.

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COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

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	ACTIVITY	Ai3	LF	CxA	CM	SBC	MSBA
b	**Contractor Evaluations**	S	**L**		S	S	

Ai3 and LF shall assist the Owner with providing written Contractor Evaluations required of the Owner at approximately 50% and at the final completion of the Construction Phase.

c	**Record Set for Owner**	R	R		**L**	R	

Two (2) suitably bound copies of all original design and quantity calculations, including those pertinent to Change Orders and Shop Drawings if applicable, shall be given to the Owner at the conclusion of the Owner-Contractor Agreement.

One (1) disk, or multiple disks, shall be prepared by the Construction Manager and given to the Owner consisting of a complete set of Record Drawings and all Project Document Logs including Addenda, RFIs, ASIs, RFPs, CCDs, PCOs, CO, Submittals and a Finish Schedule.

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B.M.C. DURFEE HIGH SCHOOL - FALL RIVER, MA

COMMUNICATION AND DOCUMENT CONTROL PROTOCOL

ABBREVIATIONS

Ai3	Ai3 Architects, LLC
ASI	Architect's Supplemental Instructions
CCD	Construction Change Directive
CO	Change Order
CxA	Commissioning Agent
Cx	Commissioning
CM	Construction Manager
CMR	Construction Manager at-Risk
LF	LeftField Project Management
L	Lead
LSP	Licensed Site Professional
MSBA	Massachusetts School Building Authority
OPM	Owner's Project Manager
PCO	Proposed Change Order
R	Review/Input
RFI	Request for Information
RFP	Request for Proposal
S	Support
SBC	School Building Committee
SOV	Schedule of Values

BMC Durfee High School: Fall River, MA
Module 4- Schematic Design
Work Plan
Ai3 Architects, LLC
June 30, 2017

DRAFT

Item	Task	Description	Responsibility									Start Date	Finish Date
Schematic Design (Module 4)			Ai3	LF	Owner	LGCI	PARE	G&V	EDG	Wil-Spec	UEC		
Schematic Design Submittal Requirements												6/30/2017	1/3/2018
1.0	Table of Contents		x										
2.0	Introduction	Brief overview of process undertaken to advance the preferred solution through SD.	x	x									12/20/2017
2.1	Summary	Brief summary of the preferred solution approved by the MSBA's Board of Directors.	x										
2.2	Overview of Process	Overview of the process undertaken locally to educate the community including key community outreach activities, committee meetings, key votes and decisions.	x										
2.3	Total Project Budget	District's total project budget for project and steps necessary to obtain funding by district.		x									
2.4	Description of Project	Updated description of the project of the project including grades to be served, size of the site, gross square feet of the proposed building (including gross square feet of both new construction and renovated areas), total project budget, list of alternates (if none, indicated as such), construction delivery methodology.	x										
2.5	Visual Aids	Visual aids that may be suitable for presentation, including site plans, floor plans, and elevations. Also submit electronically as separate files.	x										
2.6	PSR Review & Response	Copy of the MSBA Preferred Schematic Report review and corresponding District response.	x										
2.7	Digital Files	Separate electronic files of the Visual Aids identified above for potential incorporation into Board presentation.	x										
3.0	Final Design Program		x				x					6/30/2017	12/20/2017
3.1	Architectural Characteristics	General & Specific architectural characteristics desired.	x										
3.2	Educational Space Summary	Two (2) signed copies of Educational Space Summary that reflects current design (11x17). Delineate all spaces and square footage within the current school building, all spaces and square footage planned in new/replacement/renovated areas of proposed school building, and MSBA's guidelines that are unadulterated and based on the agreed upon design enrollment. If educational space summary is different than that submitted as part of PSR, include separate narrative description of all changes and identify reasons for changes. Provide space measurement analysis and Designer certification for the design verifying that the sum of all programmed floor areas plus all other floor areas equal the gross floor area of the Final Design Program.	x										
3.3	Summary of how Project supports Districts Ed Program	Narrative describing how the proposed project supports each component of the District's educational program.	x										
3.4	Instructional Technology	Existing and Proposed Instructional Technology.	x										
3.5	Functional Relationships	Functional Relationships and Critical Adjacencies that informed the basis of design.	x										
3.6	Security and Visual Access Requirements	Confirmation that persons responsible for implementation of District's emergency procedures and responding emergency agency representatives have been consulted in planning process and associated requirements have been included in project; identification of security related items; verification that safety and security issues have been reviewed and are in accordance with District's procedures (main entrance design, classroom lockset hardware, classroom/instruction spaces visibility, alternative entry locations); confirm optimal surveillance of building and site.	x										
3.7	Site Development Requirements	Provide a description of the total number of parking spaces, how they are distributed, and how the quantities were derived.	x				x						
3.8	Specific Features of the School	Desired visual or aesthetic focal point or features of the school.	x										
4.0	Traffic Analysis	Provide evaluation of existing traffic patterns, areas likely to be impacted by project, congestion and safety concerns, critical traffic issues to be addressed, anticipated changes in traffic volume/patterns; confirm findings and recommendations are accounted for in site plans, project budget, and project schedule; describe offsite work resulting from project and indicate if work is to be performed by District as part of project or separately. If no traffic analysis is required (no existing traffic issues and project will not impact existing conditions), provide written description of assessment and analysis used to make this determination.	x	x			x					9/18/2017	10/17/2017
5.0	Environmental & Existing Building Assessment	Describe the additional site and building assessments that quantified the presence of unsuitable materials and scope of remediation efforts. Identify the estimated costs of the results of the testing in the cost estimate.					x				x	6/30/2017	11/20/2017
6.0	Geotechnical & Geo-environmental Analysis	Describe the additional geotechnical analysis as may be required to establish soil conditions, remediation requirements and appropriate foundation requirements. Identify the estimated costs of the results of the testing in the cost estimate.				x	x					6/30/2017	9/1/2017
7.0	Code Analysis	Identify and determine the impact of all applicable federal, state, regional, and local codes, reulations, and ordinances, including a listing of permitting and other regulatory filing requirements.	x				x					11/20/2017	12/20/2017
8.0	Utility Analysis & Soils Analysis	Determine the availability and capacity of all required building utilities. Provide soils analysis and preliminary design for on-site septic/sewage treatment facilities, if required.	x			x	x					6/30/2017	9/1/2017
9.0	Massing Study	Analysis of the building's integration into its surroundings and neighborhood with drawings, photos, or models	x									6/30/2017	9/1/2017
10.0	Narrative Building Systems Description	Describe basic information relative to the following:	x					x	x			9/1/2017	11/1/2017
10.1	Sustainable Design	Sustainable Design Elements	x										
10.2	Building Structure	Building Structure							x				
10.3	Plumbing	Plumbing (Provide Life Cycle Cost analysis pursuant to criteria of M.G.L. c. 149, § 44(m)						x					
10.4	HVAC	HVAC (Provide Life Cycle Cost analysis pursuant to criteria of M.G.L. c. 149, § 44(m)						x					
10.5	Fire Protection	Fire Protection (verify adequate water capacity for new system and confirm if a fire pump will be required)						x					
10.6	Electrical	Electrical (including power, lighting, communications, fire alarm, video/CATV, Security/ Surveillance)						x					
10.7	Technology	Information Technology	x										
11.0	Sustainable Building Design Guideline Documents	Refer to the MSBA website for MSBA's current Sustainable Design Guidelines.	x									11/1/2017	12/20/2017
11.1	Sustainable Building Design Guideline Scorecard	Completed Sustainable Building Design Guideline scorecard from the Designer showing the attempted credits to be included in the final design.	x										
11.2	Designer Certification	Signed letter from the Designer including the following statement: "This is an acknowledgment that the _____ School District has identified a goal of __% additional reimbursement from the MSBA High Efficiency Green School Program. As their Designer, I have submitted a completed ____ scorecard showing all prerequisites and ____ attempted points, which will meet that goal. The scope of work for this project will include the construction elements and performance tasks to achieve that goal, and all subsequent documents, including but not limited to, specifications, drawings, and cost estimates will match the scope of work indicated in the submitted scorecard."	x										
12.0	Compliance with ADA and MAAB	Analysis of the design's compliance with the Americans with Disabilities Act (ADA) and the Massachusetts Architectural Access Board (MAAB) requirements.	x									11/20/2017	12/20/2017
13.0	Room Data Sheets	Utility requirements; acoustic and lighting requirements; security features; surface material performance requirements; bulletin case, writing board, and tack board requirements; wall maps, projection screens, chart rails, and other fixed teaching aids together with utilities, communications and control features, and teacher demonstration areas; environmental requirements; safety and health features, gas, compressed air, water, and automatic shut-off to specialized equipment; note where automatic shutoff to specialized equipment is required; audio-visual, television access, and public address requirements as well as computer equipment and stations; equipment, furnishings, and casework; internal areas and support spaces needed; special graphics, colors, textures, and shapes; provisions for storage of staff and/or student garments and personal property; area needed for display of sutdent projects and large and small project storage; any other requirement that may be unique to the activity setting.	x										11/20/2017
14.0	Proposed Construction Methodology	Describe the criteria and analysis used by the OPM, in conjunction with the Designer, to compare the construction delivery methods for the proposed project. Include the relative advantages and disadvantages associated with each of the methods and describe the key items that led to the District's selection. If the District elected to proceed with the CM-at-Risk method, indicate when the application to proceed with the CM-at-Risk method is to be submitted to the Office of the Inspector General and anticipated notice to proceed issued by the Office of the Inspector General. Confirm that the cost estimates, proposed project schedule, estimated reimbursement rate, and total project budget spreadsheet reflect the selected construction delivery method.		x									11/20/2017
15.0	Anticipated Reimbursement Rate & Incentive Points	Provide Chart showing District's anticipated reimbursement rate with incentive points as identified in Appendix 4E.		x									12/20/2017
16.0	Total Project Budget	Complete Total Project Budget spreadsheet (see Appendix 4F) to as much detail as the drawings and specifications permit, as required by the contract. Provide a summary of the cost reconciliation between the cost estimate of the Designer's and the OPM's estimates, as applicable. Identify separate costs for: Existing Building Demolition, In Building Hazardous material abatement, Abatement of asbestos containing floor material, Abatement of Hazardous materials located outside of the building, Site costs, Off-site costs, and Alternates.		x									12/20/2017
17.0	Designers Construction Cost Estimate	Uniformat II, Level 3 format. Aggregated unit rates and quantities for each item. CSI MasterSpec format to Summary Level.	x									11/20/2017	12/20/2017
18.0	OPM Construction Cost Estimate	Uniformat II, Level 3 format. Aggregated unit rates and quantities for each item. CSI MasterSpec format to Summary Level.		x								11/20/2017	12/20/2017
19.0	Project Work Plan	Updated project work plan indicating changes or expansions associated with the following:	x	x								6/30/2017	7/30/2017
19.1	Project Directory		x	x									
19.2	Roles and Responsibilities												
19.3	Communications and Document Control Procedures												
19.4	Designer's Work Plan		x	x									
19.5	Project Schedule	The OPM shall provide a schedule in the form of a Gantt Chart of the duration of all tasks, activities, and phases of the design and construction processes against the progression of time from Feasibility Study through design, construction, substantial completion, occupancy, final completion, and project close-out. Dependencies between activities and tasks shall be delineated. Individual tasks and activities shall be rolled up to the major project milestones. Highlight priority actions and activities that may have a major impact on the schedule. The project schedule must allow adequate time for document review by the Owner and the Authority.		x									12/20/2017
20.0	Local Actions & Approvals			x	x							12/20/2014	1/3/2018
20.1	SBC Meeting Minutes	Certified copy of School Building Committee Meeting Minutes from meetings at which SD submittals were approved for submission to MSBA. Meeting Minutes must include specific language of the vote and the results of the vote, stating the number of SBC Members who voted in favor of submittal to the MSBA, the number of opposed, and the number of abstentions.		x									
20.2	SBC Presentation & Notices	List School Building Committee meeting dates, agendas, describe materials presented, and specific stakeholders in attendance, what materials were available for public review and where these materials may be viewed.		x									
20.3	Public Meeting Announcements	Provide similar information above for informational or public meetings/presentations in addition to SBC meetings.		x									
20.4	Signed Certification	Signed "Local Actions and Approvals Certification" (Appendix 4G) on District letterhead.		x	x								
21.0	Schematic Design Project Manual	Bound, 8.5"x11".	x							x		6/30/2017	11/20/2017
21.1	Project Manual	Project Manual to define scope of construction & establish the quality of materials, finishes, products, equipment and workmanship, special or unique conditions of construction.	x							x			
21.2	Proprietary Items	Provide list of all proprietary items with an explanation of each item, how it is in the public interest that proprietary items are selected over non-proprietary equivalent items.	x	x	x					x		10/1/2017	11/20/2017
21.3	Proprietary Item Certification	Provide certification that local authorization for the use of proprietary items has complied with all state laws and local regulations, policies, and guidelines.	x	x	x					x		10/1/2017	11/20/2017
22.0	Schematic Design Drawings	Bound, 18"x24" drawings.	x				x					6/30/2017	11/20/2017
22.01	Site & Civil	**Siiting analysis & content, traffic and access, topographical and utility recognition**					x						
22.02	Site & Civil	**Site Development Plan (min. scale 1"=40'-0")**					x						
22.03	Site & Civil	•Property lines with bearings and distances					x						
22.04	Site & Civil	•Building Setbacks					x						
22.05	Site & Civil	•Site Acreage					x						
22.06	Site & Civil	•Wetlands information					x						
22.07	Site & Civil	•Proposed and existing topography					x						
22.08	Site & Civil	•Proposed and existing buildings and site features					x						
22.09	Site & Civil	•Ground floor elevations for all buildings					x						
22.10	Site & Civil	•Proposed and existing utilities and utility connections					x						
22.11	Site & Civil	•Emergency Equipment access					x						
22.12	Site & Civil	•Future areas of expansion					x						
# 22.13	Architectural	**Schematic Building Floor Plans of all floors and roof at a min. scale of 1/16"=1'-0"**	x										
# 22.14	Architectural	•Gross SF of each floor and net SF of each space	x										
# 22.15	Architectural	•Response to functional requirements of program	x										
# 22.16	Architectural	•Response to major and minor access and circulation	x										
# 22.17	Architectural	**Room Data Sheets**	x										
22.18	Architectural	•Utility requirements-Number of electrical outlets needed and locations	x										
22.19	Architectural	•Security features - lockdown hardware, concealment and escape options, operable shades or blinds, hardening materials, ventilation controls, alarm and communication systems interface as applicable to the occupancy	x										
22.20	Architectural	•Acoustic and lighting requirements	x										
22.21	Architectural	•Surface material performance for floors, walls and ceilings, mounting height specific for size of students	x										
22.22	Architectural	•Bulletin case, writing board and tack board requirements	x										
22.23	Architectural	•Wall maps, projection screens, chart rails, and other fixed teaching aids together with utilities, communications and control features and note teacher demonstration areas if required.	x										
22.24	Architectural	•Environmental requirements such as special ventilation & exhaust, natural lighting, special heating & heat control	x										
22.25	Architectural	•Safety & health features, gas, compressed air and water, automatic shutoff, emergency eye wash, fume hoods, ventilation in shops and/or labs	x										
22.26	Architectural	•Note where instructor controls gas, compressed air and water,	x										
22.27	Architectural	•Note where automatic shutoff to specialized equipment is required i.e., saws, lathes, etc.	x										
22.28	Architectural	•Audio-visual, television access and public access requirements, computer equipment & stations.	x										
22.29	Architectural	•Equipment furnishings and casework	x										
22.30	Architectural	•Internal areas and support spaces needed, general storage requirements for each space	x										
22.31	Architectural	•Special graphics, colors, textures and shapes. (SPED and Primary Classrooms)	x										
22.32	Architectural	•Storage for Staff and/or student garment and personal property	x										
22.33	Architectural	•Display for student projects; Storage for large and small student projects	x										
22.34	Architectural	**Interior elevations of typical general classroom , and Science Classrooms/Labs.**	x										
22.35	Architectural	**Schematic exterior building elevations for all sides, indicate all exterior finishes and fenestration.**	x										
22.36	Architectural	Schematic exterior building elevations for all sides, indicate all exterior finishes and fenestration.	x										
23.0	Schematic Design Module 4 Submittals		x	x	x								1/3/2018
23.1	DESE Submittal	DESE Submittal following Appendix 4B: Cover Letter, SPED Delivery Methodology letter (include Current Program, Proposed Program, Specialized Programs), Signed Educational Space Summary, Floor Plans, SPED Adjacency Table.	x	x	x							11/1/2017	12/1/2017
		OPM to submit three (3) complete hard copies and one (1) electronic copy on a CD to the MSBA.											
		Also to be included within the tabbed SD submittal binder as a removable "stand alone" submittal.											
		Shall NOT be submitted directly to the DESE (MSBA will forward).											
23.2	Cost Estimate Submittals	**Schematic Design Submittal Notification Template (Appendix 4C)** Minimum 10 days prior to MSBA Submittal: Submit Cost Estimates (OPM & Designer), Estimated Project Cost, District's Project Budget, Confirmation of District's and Consultants Submittal Date to MSBA, Total Project Budget Submittal	x	x									12/20/2017
23.3	MSBA Staff Review	Submit Schematic Design for MSBA Staff Review		x								1/3/2018	2/7/2018
23.4	Facilities Assessment Subcommittee Review	Facilities Assessment Subcommittee review by MSBA		x									
23.5	Project Scope & Budget Conference	MSBA directed meeting with OPM, Architect, and District		x									
23.6	MSBA Board Approval	MSBA Board of Director's meeting to approve Schematic Design											

PROJECT SCHEDULE

Updated Project Work Plan

The Preliminary Project Schedule for the BMC Durfee High School has been updated to reflect the timeline and milestone dates required to get to the planned March 6, 2018 Election for public vote on funding for the new school. The School Committee voted on November 21, 2017 to support the project and request that the City Council take all necessary measures to establish an Election date. The City Council will take action on the School Committee's vote at their January 16, 2018 City Council Meeting and has tentatively planned to set the Election date for March 6, 2018. Notice of the Election is scheduled to be posted on January 17, 2018. Once MSBA has approved of the vote language, ballots will be printed and absentee ballots will be made available on February 12, 2018, three weeks in advance of the Election.

With the use of a Construction Management (CM) at Risk construction delivery method, the dates for procurement of a CM firm have been revised to indicate award to a CM firm at the end of April 2018. The procurement process will begin immediately after a positive City vote to allow for CM input during the design process and to allow for early packages which are anticipated for late summer 2018. To achieve this goal, it will require that Ai3 be authorized to proceed with design development as soon as there is an agreement/approval on the Project Scope and Budget and the Public Election renders a positive vote.

The current schedule for the BMC Durfee High School is targeting an August 23, 2021 School Opening date. Demolition of the existing school and the remainder of the renovations and site work will to extend beyond August 23, 2021 and likely through summer 2022. Earlier completion of the work that will take place during the 2021/2022 school year will be targeted. Once the CM is on board, we will begin discussions on how we can complete the project earlier than outlined.

In addition to the Project Schedule, a Meetings and Milestones Schedule is included to indicate the meetings and milestone activities which have occurred over the course of the project. The dates, meetings, activities and agendas including the locations and attendee groups have been recorded. This schedule provides an overview of the objectives and goals accomplished and the process followed to meet these project milestones.

LEFTFIELD
THE RIGHT CHOICE IN PROJECT MANAGEMENT

Durfee High School - Fall River, MA

January 3, 2018

Meeting and Milestone Schedule

	Meeting Date & Time			Meeting and Agenda	Room	Resp./Attendees
√	Tues	09/20/16		Submit Draft Designer RFS to MSBA for Review		LF
√	Thurs	09/29/16	4:30 PM	**Durfee HS Building Committee Meeting No. 1** OPM Introductions, Establish Working Groups/Sub-Committees, Review Designer RFS, DSP Process	Durfee HS-Library	SBC/LF
√	Thurs	10/06/16		Designer RFS Advertised in Central Register and Local Paper		LF
√	Tues	10/11/16		Designer RFS Approval from MSBA		MSBA
√	Tues	10/18/16	10:00 AM	Designer RFS Briefing and Tour of Existing Building		LF/PMS, City, SBC Reps
√	Thurs	10/20/16	4:30 PM	**Durfee HS Building Committee Meeting No. 2** Review RFS status and DSP member selection	Durfee HS-Library	SBC/LF
√	Wed	10/26/16	2:00 PM	Designer RFS Due	One Government Center, Room 321	City
√	Weds	10/26/16		Distribute Proposals to Reviewers	Various	LF
√	Thurs	11/03/16		Submit Designer Proposal/DSP Packages to MSBA	MSBA	LF
√	Thurs	11/17/16	3:30 PM	Process Meeting w/Local DSP Reps Explanation of DSP Selection Process	Durfee HS-Library	LF/Local DSP Reps
√	Thurs	11/17/16	4:30 PM	**Durfee HS Building Committee Meeting No. 3** Status of Designer Evaluation Process; Preliminary Design Program Review	Durfee HS-Library	SBC/ LF
√	Tues	11/22/16	8:30 AM	**MSBA Designer Selection Panel (DSP) Meeting**	MSBA	MSBA/DSP, Local DSP Reps, LF
√	Thurs	12/08/16	4:30 PM	**Durfee HS Building Committee Meeting No. 4** Status of Designer Evaluation Process; Preliminary Design Program Review	Durfee HS-Library	SBC/LF
√	Tues	12/20/16	10:00 AM	**MSBA DSP Interviews**	MSBA	MSBA/DSP, Local DSP Reps, LF
√	Thurs	12/29/16		Designer Contract Submitted for Execution		LF/Ai3, City
√	Weds	01/04/17	9:00 AM	Preliminary Building Walkthrough of Durfee HS	Durfee HS	LF/Ai3, District, City
√	Mon	01/09/17	9:00 AM	Preliminary Review of Building Systems at Durfee HS	Durfee HS	LF/Ai3 & S, MEP, FP Consultants,

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Durfee High School - Fall River, MA

January 3, 2018

Meeting and Milestone Schedule

	Meeting Date & Time			Meeting and Agenda	Room	Resp./Attendees
√	Thurs	01/12/17	9:00 AM	Preliminary Site Walkthrough at Durfee HS	Durfee HS	LF/City, Ai3 & Civil, Landscape
√	Thurs	01/12/17	3:30 PM	**Pre-Visioning Educational Meeting**	Principal's Conference Room	Ai3/LF, City, District
√	Thurs	01/12/17	4:30 PM	**Durfee HS Building Committee Meeting No. 5** Designer Kick-off Meeting	Durfee HS-Library	SBC/City, District, LF, Ai3
√	Thurs	01/19/17	2:00 PM	**Chapter 74 Programming Meeting**	Durfee-Principal's Conference Room	District/LF, Ai3, Teachers
√	Thurs	01/19/17	3:00 PM	**Educational Visioning Session No. 1** (Education Program Sub-Committee)	Durfee HS-Library	New Vista Design/ Subcommittee,
√	Mon	01/23/17	9:00 AM	Hazardous Materials Survey & Testing	Durfee HS	LF/Universal Environmental
√	Tues	01/24/17	10:00 AM	**Site Selection Meeting No. 1** - (Site Selection Sub-Committee)	Durfee HS-Library	Sub-Committee/ LF, Ai3, PARE
√	Thurs	01/26/17	9:00 AM	Phase 1 Environmental Site Assessment Field Work	Durfee HS	LF, PARE
√	Mon	01/30/17	2:00 PM	**Chapter 74 Follow-up Meeting**	Durfee-Principal's Conference Room	District/LF, City, School Staff
√	Tues	01/31/17	9:00 AM	Surveyors establishing Control Points	Durfee HS	LF, PARE
√	Wed	01/31/17	3:00 PM	**Educational Visioning Session No. 2** (Education Program Sub-Committee)	Durfee HS-Library	New Vista Design/ Sub-Committee,
√	Mon	02/06/17	2:00 PM	**Chapter 74 Follow-up Meeting**	Durfee-Principal's Conference Room	District/LF, City, School Staff
√	Mon	02/13/17	10:00 AM	**MSBA Kick-Off Meeting**	Conference Call	MSBA/District, City, LF, Ai3
√	Mon	02/13/17	1:00 PM	**Durfee Security and Technology Meeting**	Durfee HS-Library	Ai3/LF, City, School and District
√	Weds	02/15/17	4:30 PM	**Durfee HS Building Committee Meeting No. 6** PDP Review,Community Engagement, Site Selection, Finance Sub Committee	Durfee HS-Library	SBC/City, District, LF, Ai3
√	Weds	02/16/17	5:30 PM	**Site Selection Meeting No. 2** - (Site Selection Sub-Committee)	Durfee HS-Library	Sub-Committee/LF,
√	Mon	02/27/17	4:30 PM	**Site Selection Meeting No. 3** - (Site Selection Sub-Committee)	Durfee HS-Library	Sub-Committee/ LF, Ai3, PARE
√	Tues	02/28/17	3:00 PM	**Educational Visioning Session No. 3** (Education Program Sub-Committee)	Durfee HS-Library	New Vista Design/ Sub-Committee,
√	Thurs	03/02/17	1:30 PM	**Educational Planning Meeting**- Space Planning	Durfee-Principal's Conference Room	Sub-Committee/ LF, Ai3, School,

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Durfee High School - Fall River, MA

January 3, 2018

Meeting and Milestone Schedule

	Meeting Date & Time			Meeting and Agenda	Room	Resp./Attendees
√	Mon	03/06/17	9:00 AM	**Finance Meeting with Mayor**	Mayor's Office	Mayor/City, Dsitrict, LF, Ai3
√	Weds	03/09/17	4:30 PM	**Durfee HS Building Committee Meeting No. 7** PDP Review, Community Engagement, Site Selection, Finance Sub-Committee	Durfee HS-Library	SBC/City, District, LF, Ai3
√	Mon	03/27/17	3:00 PM	**Educational Visioning Session No. 4** (Education Program Sub-Committee)	Durfee HS-Library	New Vista Design/ Sub-Committee,
√	Mon	04/03/17	3:00 PM	PDP Submission Coordination Meeting	Conference Call	LF, Ai3
√	Tues	04/11/17	1:30 PM	**Finance Meeting #1**	Kuss School-Conference Room	Mayor/City, District, LF, Ai3,
√	Thurs	04/13/17	4:30 PM	**Durfee HS Building Committee Meeting No. 8** Vote to submit PDP, Community Engagement, Finance Sub-Committee	Durfee HS-Library	SBC/City, District, LF, Ai3
√	Thurs	04/20/17	8:00 AM	**Submission of PDP to MSBA**	MSBA	Ai3, LF and City
√	Thurs	05/03/17	6:00 PM	**Public Forum #1**- Building Existing Conditions, Site Selection, MSBA Process	Durfee-Auditorium	City/LF, Ai3, Public
√	Fri	05/05/17	2:00 PM	**Site Options Review Meeting**	Durfee HS-Library	Ai3/LF, City, School, Sub-
√	Thurs	05/11/17	4:30 PM	**Durfee HS Building Committee Meeting No. 9** Vote to submit PDP, Community Engagement, Finance Sub-Committee	Durfee HS-Library	SBC/City, District, LF, Ai3
√	Tues	05/16/17	10:00 AM	**Finance Meeting #2**	Durfee HS-Parent's Center	Mayor/City, LF, Ai3
√	Fri	05/26/17	1:00 PM	Preferred Option Review Meeting	Durfee HS-Library	Ai3/LF, School, City
√	Weds	05/31/17	10:00 AM	Estimating Meeting	Ai3's Office	Ai3/LF, Estimators
√	Thurs	06/15/17	4:30 PM	**Durfee HS Building Committee Meeting No. 10** Vote to approve PSR Submission	Durfee HS-Library	SBC/City, District, LF, Ai3
√	Thurs	06/15/17	6:00 PM	**Public Forum #2**- Review of MSBA Process and Preferred Option	Durfee-Auditorium	City/LF, Ai3, Public
√	Thurs	06/29/17	1:00 PM	**Preferred Schematic Report Submitted to MSBA**	MSBA	LF and Ai3
√	Weds	07/05/17	9:00 AM	Site Review of Uncharted Utilities with DPW	Durfee HS	LF/PARE, DPW
√	Mon	07/10/17	7:00 AM	Borings and Geotech Began on Site	Durfee HS	LF/Lahlaf

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Durfee High School - Fall River, MA

January 3, 2018

Meeting and Milestone Schedule

	Meeting Date & Time			Meeting and Agenda	Room	Resp./Attendees
√	Thurs	07/13/17	4:30 PM	**Durfee HS Building Committee Meeting No. 11** to Review FAS Meeting Presentation	Durfee HS-Library	SBC/City, District, LF, Ai3
√	Mon	07/24/17	10:00 AM	Conference Call with MSBA to Discuss Expectations of FAS	Conference Call	MSBA/City, District, LF, Ai3
√	Tues	07/25/17	10:00 AM	Pre-Facilities Assessment Subcommittee Meeting	Durfee HS	LF/City, District, Ai3
√	Thurs	07/27/17	10:00 AM	**Facilities Assessment Subcommittee Meeting**	MSBA	MSBA/City, District, LF, Ai3
√	Thurs	08/02/17	1:00 PM	MSBA Provided PSR Review Comments	MSBA	MSBA
√	Thurs	09/14/17	4:30 PM	**Durfee HS Building Committee Meeting No. 12** to Review Bells Committee Plans	Durfee HS-Library	SBC/City, District, LF, Ai3
√	Weds	08/16/17	10:00 AM	**Programming Meeting** with Principal and Deans	Durfee HS-Library	Ai3/District, LF
√	Fri	08/18/17	1:00 PM	PSR Comments Submitted to MSBA		MSBA/LF, Ai3, City
√	Weds	08/23/17	10:00 AM	**MSBA Board Meeting** to Approve the Durfee High School's Preferred Schematic	MSBA	MSBA/Ai3, LF, City, District
√	Mon	09/11/17	9:00AM	**Programming Meeting w**ith Principal, Admin, Security, Guidance, Nurse, and SPED	Durfee HS-Library	Ai3/District, School, LF
√	Mon	09/11/17	9:00AM	**Programming Meeting** - Security and Technology	Durfee HS-Library	Ai3/District, School, LF
√	Mon	09/11/17	5:30 PM	**School Committee Meeting** - Presentation of Project	Morton School, Fall River	District/City, LF, Ai3
√	Weds	09/13/17	9:00 AM	**Programming Meeting** with Principal, Admin, Observatory, Art, Music, Visual Communications, Auditorium and FRED TV	Durfee HS	Ai3/District, School, LF
√	Weds	09/13/17	9:00AM	**Site Design Meeting** to Discuss Parking, Bus and Car Pick up and Drop Off, Deliveries, and Emergency Vehicle Access	Durfee HS	PARE/District, City, LF, Ai3
√	Thurs	09/14/17	4:30 PM	**Durfee HS Building Committee Meeting No. 13** to Review Upodate on Schematic Design	Durfee HS-Library	SBC/City, District, LF, Ai3
√	Mon	09/18/17	9:00 AM	**Programming Meeting** with Principal, Environmental Science and Tech, Engineering, Culinary Arts, Tradewinds, Cosmetology, Early Ed and Health Care Assisting	Durfee HS	Ai3/District, School, LF
√	Tues	09/19/17	9:00 AM	**Programming Meeting** with Principal, Construction Craft, Set Design, ROTC, Custodial/Maintenance, PE/Athletics and Library/Media Center	Durfee HS	Ai3/District, School, LF

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Durfee High School - Fall River, MA

January 3, 2018

Meeting and Milestone Schedule

	Meeting Date & Time			Meeting and Agenda	Room	Resp./Attendees
√	Mon	10/04/17	8:00 AM	**Site Electrical Meeting** with National Grid	Durfee HS	City/LF, National Grid
√	Thurs	10/12/17	8:00 AM	**Fall River Office of Economic Development Meeting** - Presentation on the new Durfee	FROED Office	City/LF, Ai3, FROED
√	Thurs	10/12/17	10:00 AM	**Security and Technology Meeting**	Durfee HS-Library	Ai3/District, City, LF
√	Thurs	10/12/17	4:30 PM	**Durfee HS Building Committee Meeting No. 14** to Review Update on Schematic Design	Durfee HS-Library	SBC/City, District, LF, Ai3
√	Thurs	10/12/17	6:00 PM	**Public Forum #3**- Review of Latest Design and Update on the Durfee Bells	Durfee-Auditorium	City/LF, Ai3, Public
√	Tues	10/17/17	9:00 AM	**Programming Meeting** - Round Two to Discuss Class Offices and Seminar Rooms	Durfee HS-Library	Ai3/District, School, LF
√	Fri	10/20/17	9:00 AM	**Programming Meeting** - Round Two to Discuss Art and Music	Durfee HS-Library	Ai3/District, School, LF
√	Weds	10/25/17	9:00 AM	**Programming Meeting** - Round Two to Discuss Foodservice Including Cafeteria, Culinary Program,	Durfee HS-Library	Ai3/District, School, LF
√	Mon	11/06/17	8:00 AM	**Sewer and Water Meeting** with the DPW	Water Department, City	PARE/City, LF, DPW
√	Thurs	11/09/17	9:00 AM	**Building MEP Systems Meeting**	Durfee HS-Library	G&V/City, School, LF, Ai3
√	Thurs	11/09/17	10:00 AM	**Security and Technology Meeting**	Durfee HS-Library	City, LF, Ai3
√	Thurs	11/09/17	3:00 PM	**Bells Committee Meeting** - Presentation of Relocation of Durfee Bells	Durfee HS-Library	Ai3/City, LF, Public
√	Thurs	11/09/17	4:30 PM	**Durfee HS Building Committee Meeting No. 15** to Review Update on Schematic Design	Durfee HS-Library	SBC/City, District, LF, Ai3
√	Tues	11/14/17	10:00 AM	Schematic Design Estimating Briefing and Documents to Estimators	Ai3	Ai3/LF, PM&C, AM Fogarty
√	Thurs	11/16/17	10:00 AM	**Finance Meeting #3** with Mayor	Mayor's Office	Mayor/City, LF, Ai3
√	Tues	11/21/17	6:00 PM	**School Committee Meeting** - Project Update Presentation and Vote to Request for City Council	Kuss School-Auditorium	District/City, LF, Ai3, SC, Public
√	Thurs	12/14/17	9:00 AM	**Cost Reconciliation Meeting**	Ai3's Office	Ai3/LF, PM&C, AM Fogarty
√	Thurs	12/14/17	12:00 PM	Submit Project Notification Form to Massachusetts Historical Commission	Ai3	Ai3/LF, City
√	Fri	12/15/17	9:00 AM	**Finance Meeting #4** with Mayor	Mayor's Office	City, LF, Ai3
√	Thurs	12/19/17	4:30 PM	**Durfee HS Building Committee Meeting No. 16** to Vote on Submission of Schematic Design	Durfee HS-Library	SBC/City, District, LF, Ai3

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Durfee High School - Fall River, MA

January 3, 2018

Meeting and Milestone Schedule

	Meeting Date & Time			Meeting and Agenda	Room	Resp./Attendees
√	Wed	12/20/17	12:00 PM	Submitted Schematic Design Notification to MSBA	MSBA	LF
√	Wed	12/20/17	12:00 PM	Submitted CM At Risk Application to Inspector General's Office	IG	LF/City, Ai3, SBC
√	Wed	01/03/17	12:00 PM	**Submit Schematic Design Submission to MSBA**	MSBA	LF, Ai3
				MILESTONES SCHEDULE		
		01/12/17 -	**06/29/17**	**Feasibility Study Phase**		
		06/30/17 -	**01/03/18**	**Schematic Design Phase**		
		01/03/18		**Submit Schematic Design**		
		01/25/17	**TBD**	**Project Scope & Budget Meeting**		
		02/14/18		**MSBA Board Meeting** Approval of Schematic Design/Project Scope & Budget		
		03/06/18		**City Approval / Debt Exclusion Vote**		
		04/01/18 -	**09/01/18**	**Design Development**		
		09/01/18 -	**10/01/18**	**Bid Enabling Work**		
		09/01/18 -	**01/01/19**	**60% Construction Documents**		
		01/01/19 -	**02/01/19**	**Bid Early Bid Package**		
		01/01/19 -	**03/01/19**	**90% Construction Documents**		
		03/01/19 -	**05/01/19**	**100% Construction Documents**		
		10/01/18 -	**06/01/21**	**Construction**		
		06/01/21 -	**TBD**	**Demolition/Site Construction**		

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FALL RIVER - BMC DURFEE HIGH SCHOOL
PRELIMINARY PROJECT SCHEDULE
Feasibility Study: Schematic Design Submission - January 3, 2018

ID	Task Name	Start	Finish
1	**Eligibility Period**	Wed 1/14/15	Thu 11/19/15
2	MSBA Invitation to Eligibility Period	Wed 1/14/15	Wed 1/14/15
3	City Appropriation of Funds for Feasibility Study	Wed 10/28/15	Wed 10/28/15
4	Study Enrollment Certification	Wed 10/28/15	Wed 10/28/15
5	MSBA Invitation to Conduct Feasibility Study	Wed 11/18/15	Wed 11/18/15
6	Execution of Feasibility Study Agreement	Thu 11/19/15	Thu 11/19/15
7	OPM Selection	Tue 2/2/16	Tue 9/20/16
8	OPM RFS Process	Tue 2/2/16	Tue 4/5/16
9	OPM RFS Advertisement Appears	Wed 4/13/16	Wed 4/20/16
10	OPM Proposals Due	Tue 5/10/16	Tue 5/10/16
11	OPM Proposals Review, Interviews, Ranking & Submital to MSBA	Wed 5/11/16	Wed 8/10/16
12	MSBA OPM Panel Presentation	Mon 9/12/16	Mon 9/12/16
13	MSBA Approval of OPM	Tue 9/13/16	Tue 9/13/16
14	Execute OPM Contract	Tue 9/13/16	Tue 9/20/16
15	Designer Selection	Wed 9/14/16	Mon 2/13/17
16	Prepare & Submit Draft Designer RFS to MSBA	Wed 9/14/16	Tue 9/20/16
17	MSBA Designer RFS Review Period	Wed 9/21/16	Tue 10/4/16
18	SBC Kick-Of Meeting	Thu 9/29/16	Thu 9/29/16
19	Designer RFS Advertisement Appears	Thu 10/6/16	Wed 10/12/16
20	Vote on Local Representatives for DSP	Thu 10/20/16	Thu 10/20/16
21	Designer Proposals Due	Wed 10/26/16	Wed 10/26/16
22	Review Designer Proposals and Check References	Thu 10/27/16	Wed 11/2/16
23	Submit DSP Materials to DSP	Thu 11/3/16	Thu 11/3/16
24	Designer Selection Panel (DSP) Meeting	Tue 11/22/16	Tue 11/22/16
25	DSP Interviews	Tue 12/20/16	Tue 12/20/16
26	Negotiate and Approve Designer Contract & Send to MSBA	Fri 12/30/16	Fri 1/20/17
27	MSBA Project Kick-Off Meeting	Mon 2/13/17	Mon 2/13/17
28	Preliminary Design Program (PDP)	Thu 1/12/17	Fri 6/2/17
29	Designer Project Kick-Off Meeting	Thu 1/12/17	Thu 1/12/17
30	Develop Preliminary Design Program	Thu 1/12/17	Wed 4/12/17
31	Submit Chapter 74 Programming Submission (10 weeks prior to PDP Submission)	Fri 2/24/17	Fri 2/24/17
32	SBC Vote to Submit PDP	Thu 4/13/17	Thu 4/13/17
33	Submit PDP Submission to MSBA (10 weeks prior to PSR)	Thu 4/20/17	Thu 4/20/17
34	MSBA PDP Review Period	Thu 4/20/17	Thu 5/11/17
35	Respond to MSBA PDP Review Comments	Fri 5/12/17	Fri 6/2/17
36	Preferred Schematic Report (PSR)	Fri 4/21/17	Wed 8/23/17
37	Develop Preferred Schematic Schematic Report	Fri 4/21/17	Wed 6/7/17
38	SBC Vote to Submit PSR	Thu 6/15/17	Thu 6/15/17
39	Submit PSR Submission to MSBA	Thu 6/29/17	Thu 6/29/17
40	MSBA PSR Review Period	Fri 6/30/17	Wed 8/2/17
41	Respond to MSBA PSR Review Comments	Thu 8/3/17	Wed 8/16/17
42	Facilities Assessment Subcommittee (FAS) Presentation	Thu 7/27/17	Thu 7/27/17
43	Address FAS Comments	Fri 7/28/17	Wed 8/16/17
44	MSBA Board Vote on PSR & Approval to Move to Schematic Design	Wed 8/23/17	Wed 8/23/17
45	Schematic Design (SD)	Wed 8/23/17	Wed 1/3/18
46	Develop Schematic Design Submission	Wed 8/23/17	Tue 12/19/17
47	Prepare, Review and Submit Project Notification to Massachusetts Historical Commission	Mon 11/13/17	Fri 12/15/17
48	MSBA Schematic Design Notification	Wed 12/20/17	Wed 12/20/17
49	SD Cost Estimates and Reconciliation	Mon 12/11/17	Tue 12/19/17
50	SBC Vote to Approve SD Submission to MSBA	Tue 12/19/17	Tue 12/19/17
51	Submit SD Submission to MSBA	Wed 1/3/18	Wed 1/3/18

Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | Baseline | Slippage

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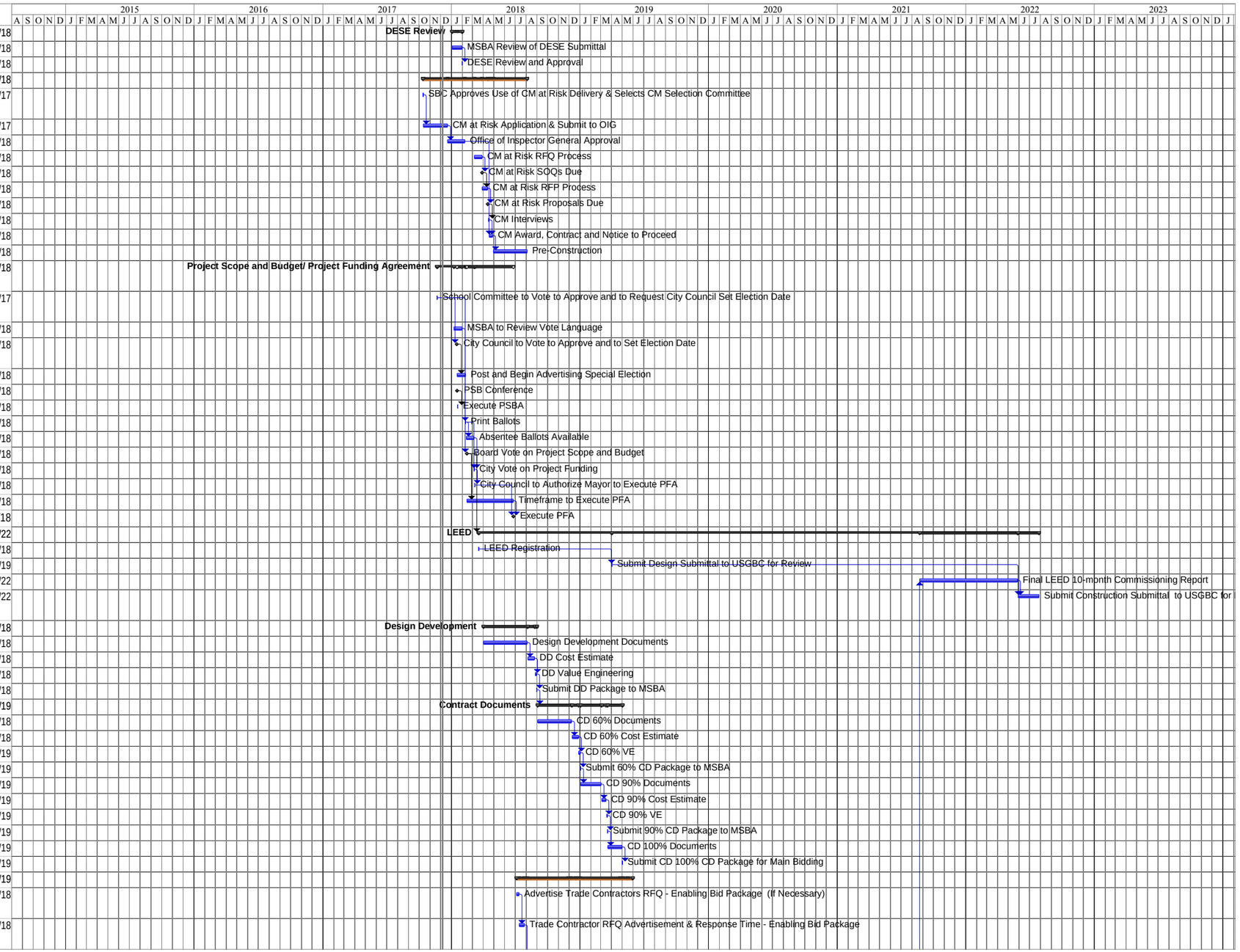
FALL RIVER - BMC DURFEE HIGH SCHOOL
PRELIMINARY PROJECT SCHEDULE
Feasibility Study: Schematic Design Submission - January 3, 2018

ID	Task Name	Start	Finish
52	DESE Review	Wed 1/3/18	Wed 1/31/18
53	MSBA Review of DESE Submittal	Wed 1/3/18	Tue 1/30/18
54	DESE Review and Approval	Wed 1/31/18	Wed 1/31/18
55	CM at Risk Procurement (if Selected)	Thu 10/12/17	Fri 8/3/18
56	SBC Approves Use of CM at Risk Delivery & Selects CM Selection Committee	Thu 10/12/17	Thu 10/12/17
57	CM at Risk Application & Submit to OIG	Fri 10/13/17	Wed 12/20/17
58	Office of Inspector General Approval	Thu 12/21/17	Wed 2/7/18
59	CM at Risk RFQ Process	Wed 3/7/18	Wed 3/28/18
60	CM at Risk SOQs Due	Wed 3/28/18	Wed 3/28/18
61	CM at Risk RFP Process	Thu 3/29/18	Fri 4/13/18
62	CM at Risk Proposals Due	Fri 4/13/18	Fri 4/13/18
63	CM Interviews	Mon 4/16/18	Tue 4/17/18
64	CM Award, Contract and Notice to Proceed	Wed 4/18/18	Fri 4/27/18
65	Pre-Construction	Mon 4/30/18	Fri 8/3/18
66	Project Scope and Budget/ Project Funding Agreement	Tue 11/21/17	Mon 6/25/18
67	School Committee to Vote to Approve and to Request City Council Set Election Date	Tue 11/21/17	Tue 11/21/17
68	MSBA to Review Vote Language	Mon 1/8/18	Tue 1/30/18
69	City Council to Vote to Approve and to Set Election Date	Tue 1/16/18	Tue 1/16/18
70	Post and Begin Advertising Special Election	Wed 1/17/18	Fri 2/9/18
71	PSB Conference	Wed 1/17/18	Wed 1/17/18
72	Execute PSBA	Thu 1/18/18	Thu 1/18/18
73	Print Ballots	Fri 2/9/18	Fri 2/9/18
74	Absentee Ballots Available	Mon 2/12/18	Mon 3/5/18
75	Board Vote on Project Scope and Budget	Wed 2/14/18	Wed 2/14/18
76	City Vote on Project Funding	Tue 3/6/18	Tue 3/6/18
77	City Council to Authorize Mayor to Execute PFA	Thu 3/8/18	Thu 3/8/18
78	Timeframe to Execute PFA	Wed 2/14/18	Mon 6/25/18
79	Execute PFA	Mon 6/25/18	Mon 6/25/18
80	LEED	Mon 3/19/18	Wed 7/27/22
81	LEED Registration	Mon 3/19/18	Mon 3/19/18
82	Submit Design Submittal to USGBC for Review	Mon 4/1/19	Mon 4/1/19
83	Final LEED 10-month Commissioning Report	Mon 8/23/21	Fri 5/27/22
84	Submit Construction Submittal to USGBC for Review	Mon 5/30/22	Wed 7/27/22
85	Design Development	Mon 4/2/18	Fri 8/31/18
86	Design Development Documents	Mon 4/2/18	Fri 8/3/18
87	DD Cost Estimate	Mon 8/6/18	Fri 8/24/18
88	DD Value Engineering	Mon 8/27/18	Thu 8/30/18
89	Submit DD Package to MSBA	Fri 8/31/18	Fri 8/31/18
90	Contract Documents	Mon 9/3/18	Wed 5/1/19
91	CD 60% Documents	Mon 9/3/18	Fri 12/7/18
92	CD 60% Cost Estimate	Mon 12/10/18	Thu 12/27/18
93	CD 60% VE	Fri 12/28/18	Tue 1/1/19
94	Submit 60% CD Package to MSBA	Wed 1/2/19	Wed 1/2/19
95	CD 90% Documents	Thu 1/3/19	Fri 3/1/19
96	CD 90% Cost Estimate	Mon 3/4/19	Fri 3/15/19
97	CD 90% VE	Mon 3/18/19	Tue 3/19/19
98	Submit 90% CD Package to MSBA	Wed 3/20/19	Wed 3/20/19
99	CD 100% Documents	Thu 3/21/19	Tue 4/30/19
100	Submit CD 100% CD Package for Main Bidding	Wed 5/1/19	Wed 5/1/19
101	Trade Contractor Prequalification	Thu 7/5/18	Thu 5/30/19
102	Advertise Trade Contractors RFQ - Enabling Bid Package (If Necessary)	Thu 7/5/18	Wed 7/11/18
103	Trade Contractor RFQ Advertisement & Response Time - Enabling Bid Package	Thu 7/12/18	Thu 7/26/18



Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | Baseline | Slippage

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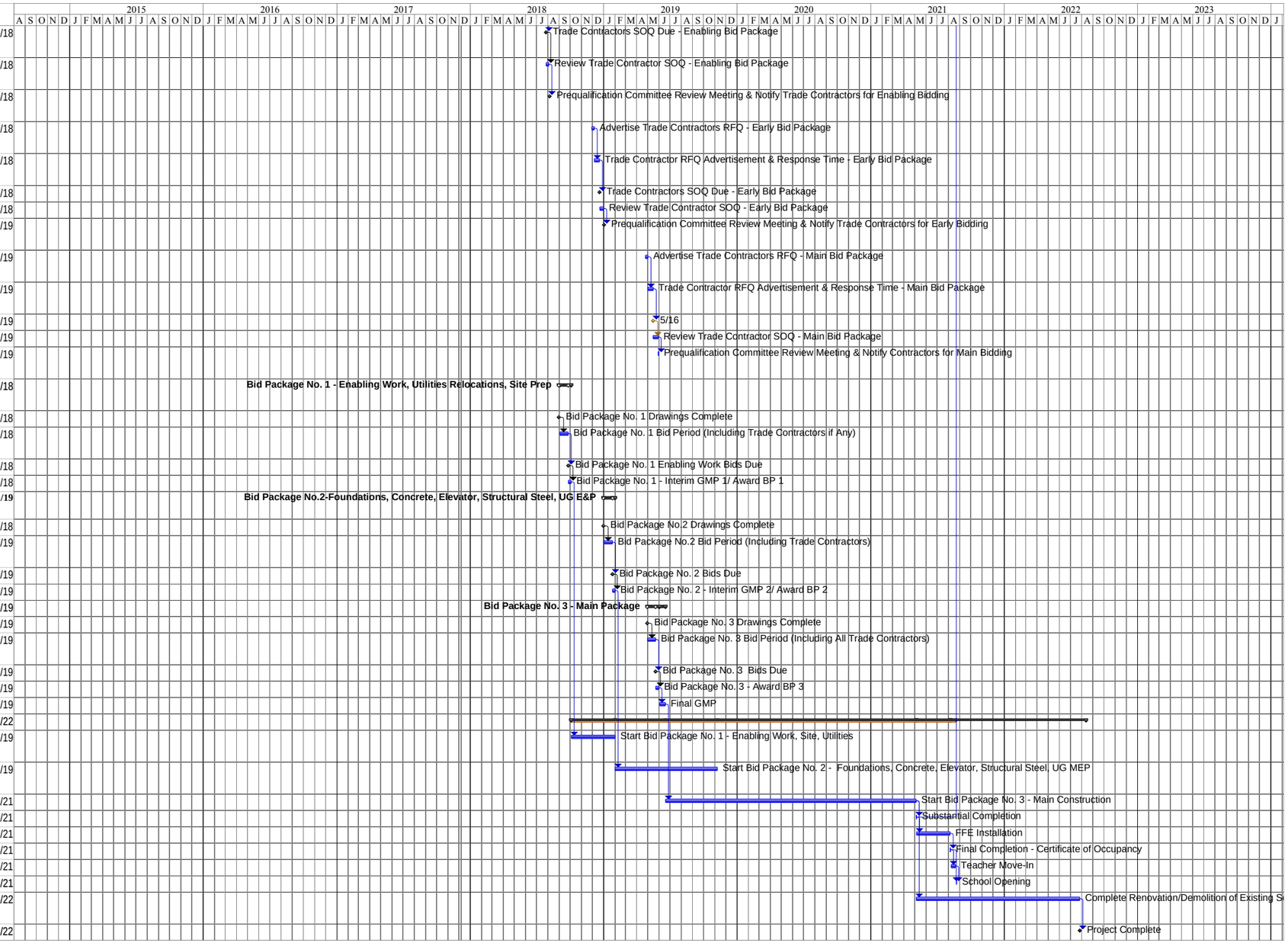
FALL RIVER - BMC DURFEE HIGH SCHOOL
PRELIMINARY PROJECT SCHEDULE
Feasibility Study: Schematic Design Submission - January 3, 2018

ID	Task Name	Start	Finish
104	Trade Contractors SOQ Due - Enabling Bid Package	Thu 7/26/18	Thu 7/26/18
105	Review Trade Contractor SOQ - Enabling Bid Package	Fri 7/27/18	Fri 8/3/18
106	Prequalification Committee Review Meeting & Notify Trade Contractors for Enabling Bidding	Mon 8/6/18	Mon 8/6/18
107	Advertise Trade Contractors RFQ - Early Bid Package	Thu 11/29/18	Wed 12/5/18
108	Trade Contractor RFQ Advertisement & Response Time - Early Bid Package	Thu 12/6/18	Thu 12/20/18
109	Trade Contractors SOQ Due - Early Bid Package	Thu 12/20/18	Thu 12/20/18
110	Review Trade Contractor SOQ - Early Bid Package	Fri 12/21/18	Mon 12/31/18
111	Prequalification Committee Review Meeting & Notify Trade Contractors for Early Bidding	Wed 1/2/19	Wed 1/2/19
112	Advertise Trade Contractors RFQ - Main Bid Package	Thu 4/25/19	Wed 5/1/19
113	Trade Contractor RFQ Advertisement & Response Time - Main Bid Package	Thu 5/2/19	Thu 5/16/19
114	Trade Contractors SOQ Due - Main Bid Package	Thu 5/16/19	Thu 5/16/19
115	Review Trade Contractor SOQ - Main Bid Package	Thu 5/16/19	Wed 5/29/19
116	Prequalification Committee Review Meeting & Notify Contractors for Main Bidding	Thu 5/30/19	Thu 5/30/19
117	Bid Package No. 1 - Enabling Work, Utilities Relocations, Site Prep	Fri 8/31/18	Wed 10/3/18
118	Bid Package No. 1 Drawings Complete	Fri 8/31/18	Fri 8/31/18
119	Bid Package No. 1 Bid Period (Including Trade Contractors if Any)	Mon 9/3/18	Tue 9/25/18
120	Bid Package No. 1 Enabling Work Bids Due	Tue 9/25/18	Tue 9/25/18
121	Bid Package No. 1 - Interim GMP 1/ Award BP 1	Wed 9/26/18	Wed 10/3/18
122	**Bid Package No.2-Foundations, Concrete, Elevator, Structural Steel, UG E&P**	**Mon 12/31/18**	**Thu 1/31/19**
123	Bid Package No.2 Drawings Complete	Mon 12/31/18	Mon 12/31/18
124	Bid Package No.2 Bid Period (Including Trade Contractors)	Wed 1/2/19	Thu 1/24/19
125	Bid Package No. 2 Bids Due	Thu 1/24/19	Thu 1/24/19
126	Bid Package No. 2 - Interim GMP 2/ Award BP 2	Fri 1/25/19	Thu 1/31/19
127	Bid Package No. 3 - Main Package	Tue 4/30/19	Tue 6/18/19
128	Bid Package No. 3 Drawings Complete	Tue 4/30/19	Tue 4/30/19
129	Bid Package No. 3 Bid Period (Including All Trade Contractors)	Wed 5/1/19	Wed 5/22/19
130	Bid Package No. 3 Bids Due	Wed 5/22/19	Wed 5/22/19
131	Bid Package No. 3 - Award BP 3	Thu 5/23/19	Fri 5/31/19
132	Final GMP	Mon 6/3/19	Tue 6/18/19
133	Construction	Thu 10/4/18	Fri 8/12/22
134	Start Bid Package No. 1 - Enabling Work, Site, Utilities	Thu 10/4/18	Thu 1/31/19
135	Start Bid Package No. 2 - Foundations, Concrete, Elevator, Structural Steel, UG MEP	Fri 2/1/19	Thu 11/7/19
136	Start Bid Package No. 3 - Main Construction	Wed 6/19/19	Tue 5/4/21
137	Substantial Completion	Wed 5/5/21	Wed 5/5/21
138	FFE Installation	Thu 5/6/21	Thu 8/5/21
139	Final Completion - Certificate of Occupancy	Fri 8/6/21	Fri 8/6/21
140	Teacher Move-In	Mon 8/9/21	Fri 8/20/21
141	School Opening	Mon 8/23/21	Mon 8/23/21
142	Complete Renovation/Demolition of Existing School/Site Work	Wed 5/5/21	Tue 7/26/22
143	Project Complete	Wed 7/27/22	Wed 7/27/22



Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start-only | Finish-only | Baseline | Slippage

Revised 11/28/12

LOCAL ACTIONS AND APPROVALS

The following local actions and approvals occurred during the Schematic Design Phase of the B.M.C. Durfee High School Project and are included in this Section:

- Local Actions and Approvals Certification Letter
- Official Vote to Submit Schematic Design Submission to MSBA Certification Letter
- Minutes of the November 13, 2017 School Committee Meeting on approval of the B.M.C. Durfee High School Schematic Design to request the City Council to take action on an election for a public vote for funding the project.
- Minutes of the December 14, 2017 School Committee Meeting on approval of the proprietary Items
- Minutes of the December 19, 2017 B.M.C. Durfee High School Building Committee Meeting on approval of the Schematic Design Submission and the Project Budget
- Module 4 Schematic Design Checklist

The minutes of the December 19, 2017 B.M.C. Durfee High School Building Committee Meeting indicating the results of the votes taken for approval of the Schematic Design Submission and the Project Budget will be officially approved at the next School Committee Meeting on January 8, 2018 where there will be a vote to approve the December 19, 2017 Meeting Minutes. Leftfield will then forward the January 8, 2018 School Committee Meeting Minutes to MSBA.

The following pages include the agenda and meeting minutes from public meetings listed below:

Durfee High School Building Committee Meeting #11
July 13, 2017

Durfee High School Building Committee Meeting #12
September 14, 2017

Durfee High School Building Committee Meeting #13
July 13, 2017

Durfee High School Building Committee Meeting #14
October 12, 2017

Durfee High School Building Committee Meeting #15
November 9, 2017

Durfee High School Building Committee Meeting #16
December 19, 2017

FALL RIVER PUBLIC SCHOOLS

Facilities & Operations

Matthew H. Malone, Ph.D.
Superintendent of Schools

Kenneth C. Pacheco
Chief Operations Officer

June 29, 2017

Mr. Brian Lynch
Project Coordinator
Massachusetts School Building Authority
40 Broad Street; Suite 500
Boston, MA 02109

RE: B.M.C. Durfee High School
Schematic Design Submission

Dear Brian:

The School Building Committee ("SBC") met and voted on December 19, 2017 to approve the Schematic Design Submission of the B.M.C. Durfee High School and to submit the Schematic Design Submission to the MSBA on or before January 3, 2018. The SBC voted unanimously, 9 in favor, 0 opposed and 0 abstained, to submit the presented Schematic Design documents.

By signing this Local Action Certification, I hereby certify that, to the best of my knowledge and belief, that the information supplied by the District is true, complete and accurate.

By: Ken Pacheco, Chief Operating Officer Fall River Public Schools
Title: B.M.C. Durfee High School Building Committee Co-Chair

December 29 2017

Date: December 20, 2017

417 Rock Street, Fall River, MA 02720 (t): 508 675-8420 (f): 508 675-8462

FALL RIVER PUBLIC SCHOOLS

Facilities & Operations

Matthew H. Malone, Ph.D.
Superintendent of Schools

Kenneth C. Pacheco
Chief Operations Officer

January 3, 2018

Ms. Diane Sullivan

Senior Capital Program Manager
40 Broad Street
Boston, Massachusetts 02109

Dear Ms. Sullivan:

The City of Fall River School Building Committee ("SBC") has completed its review of the Feasibility Study's Schematic Design Submission for the B.M.C. Durfee High School Project (the "Project"), and on December 19, 2017, the SBC voted to authorize the Owner's Project Manager to submit the Feasibility Study related materials to the MSBA for its consideration. A certified copy of the SBC Meeting Minutes, which includes the specific language of the vote and the number of votes in favor, opposed, and abstained, are attached in Local Actions and Approvals Section of the Schematic Design Submission.

Since the MSBA's Board of Directors invited the District to conduct a Feasibility Study on November 18, 2015, the SBC has held sixteen meetings regarding the proposed project, in compliance with the State's Open Meeting Law. These meetings include:

- SBC Meeting September 29, 2016 Durfee HS Library 4:30 PM
- SBC Meeting October 20, 2016 Durfee HS Library 4:30 PM
- SBC Meeting November 16, 2016 Durfee HS Library 4:30 PM
- SBC Meeting December 8, 2016 Durfee HS Library 4:30 PM
- SBC Meeting January 12, 2017 Durfee HS Library 4:30 PM
- SBC Meeting February 15, 2017 Durfee HS Library 4:30 PM
- SBC Meeting March 9, 2017 Durfee HS Library 4:30 PM
- SBC Meeting May 11, 2017 Durfee HS Library 4:30 PM
- SBC Meeting April 13, 2017 Durfee HS Library 4:30 PM
- SBC Meeting June 15, 2017 Durfee HS Library 4:30 PM
- SBC Meeting July 13, 2017 Durfee HS Library 4:30 PM
- SBC Meeting August 10, 2017 Durfee HS Library 4:30 PM
- SBC Meeting September 14, 2017 Durfee HS Library 4:30 PM
- SBC Meeting October 12, 2017 Durfee HS Library 4:30 PM
- SBC Meeting November 9, 2017 Durfee HS Library 4:30 PM
- SBC Meeting December 19, 2017 Durfee HS Library 4:30 PM

The agendas outlining the topics of discussion at each meeting, the meeting minutes and presentation materials are provided with the Meeting Minutes in Local Actions and Approvals Section of the Schematic Design Submission. All votes are recorded in the Meeting Minutes and all Meeting Minutes are posted on the Fall River Public Schools website for public review at http://www.fallriverschools.org/newdurfeehs.cfm.

417 Rock Street, Fall River, MA 02720 (t): 508 675-8420 (f): 508 675-8462

In addition to the SBC meetings listed above, the District held three public meetings, which were posted in compliance with the state Open Meeting Law, at which the Project was discussed. These meetings include:

▪ Public Forum	May 4, 2017	BMC Durfee High Auditorium 6:30 PM
▪ Public Forum	June 15, 2017	BMC Durfee High Auditorium 6:30 PM
▪ Public Forum	October 12, 2017	BMC Durfee High Auditorium 6:30 PM

To the best of my knowledge and belief, each of the meetings listed above complied with the requirements of the Open Meeting Law, M.G.L. c. 30A, §§ 18-25 and 940 CMR 29 *et seq.*

If you have any questions or require any additional information, please contact Lynn Stapleton, Owner's Project Manager, lstapleton@leftfieldpm.com, 508-269-0457.

By signing this Local Action and Approval Certification, I hereby certify that, to the best of my knowledge and belief, the information supplied by the District in this Certification is true, complete, and accurate.

By: Mayor Jasiel F. Correia II

Title: Chief Executive Officer

Date: 12/20/2017

By signing this Local Action and Approval Certification, I hereby certify that, to the best of my knowledge and belief, the information supplied by the District in this Certification is true, complete, and accurate.

By: Matthew H. Malone, Ph.D.

Title: Superintendent of Schools

Date: 12/20/2017

By signing this Local Action and Approval Certification, I hereby certify that, to the best of my knowledge and belief, the information supplied by the District in this Certification is true, complete, and accurate.

By: Mayor Jasiel F. Correia II

Title: Chair of the School Committee

Date: 12/20/2017

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B.M.C. DURFEE HIGH SCHOOL – Fall River, MA

SCHOOL BUILDING COMMITTEE MEETING NO. 11

Thursday, July 13, 2017 Durfee High School - Library 4:30 PM

Agenda

1. Administrative Actions
   - Vote to Approve the June 15, 2017 Meeting Minutes

2. Community Engagement
   - Facebook, Twittter, Website, Print Update
   - Next Steps to Garner Support

3. Preferred Schematic Report (PSR)
   - Preview Proposed Project Budget
   - Overview of Upcoming MSBA Facilities Assessment Subcommittee (FAS) Presentation
     - Establish Date for Pre-FAS Meeting

4. Schematic Design (SD)
   - Preparations for Schematic Design Phase
     - Update on Geotechnical/Geo-environmental
     - Site/Utilities/Flow Tests
     - SPED, CTVE, Departments (Layouts, Adjacencies, Relationships)
   - Establish Times for Focus Group/Subcommittee Meetings

5. Schedule Update
   - Review Project Schedule
   - Important Upcoming Milestone Dates
     - FAS Presentation (TBD - July 21 or July 27, 2017)
     - MSBA Board Vote on Approval of PSR on August 23, 2017
     - Schematic Design Timeline (August 24, 2017 – January 3, 2018)
     - Discuss Timing/Date for Public Forum No. 3

6. Budget Update
   - Review Total Project Budget

7. Other Business/Discussions

8. Next SBC Meeting
   - SBC Meeting August 10, 2017 4:30 PM Durfee HS Library

ADA Coordinator: Gary P. Howayeck, Esq. 508-324-2650
One Government Center – Fall River, MA 02722
TEL 508-324-220 – FAX 508-324-2211 – EMAIL city_clerks@fallriverma.org

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BMS Durfee High School – Fall River, MA	MEETING MINUTES

SCHOOL BUILDING COMMITTEE MEETING NO. 10	June 15, 2017
Location:	Durfee High School Library
Time:	4:30 PM

Attendees:

Name	Assoc.	Present
Jasiel F. Correia II	Mayor, City of Fall River	N
Cathy Ann Viveiros	City of Fall River, City Administrator	N
Rhonda Pinnell	City of Fall River, Purchasing Agent	N
Tim McCoy	City of Fall River, Purchasing Agent FRHA	N
Chris Gallagher	City of Fall River, Director of Building and Grounds	Y
Carole Fiola	Mass. State Rep.	Y
Matt Malone	Fall River School Dept, Superintendent of Schools	N
Ken Pacheco	Fall River School Dept., Co-Chair, Chief of Operations FRPS	Y
Joseph Camara	City Councilor and Co-Chair	N
Mark Costa	Fall River School Dept. School Committee, Vice Chair	N
Ed Costar	Fall River School Dept., School Committee	Y
Matthew Desmarais	Fall River School Dept., Durfee High Interim Principal	Y
Melissa Fogarty	Fall River School Dept., Operations Durfee High	N
Michael Costa	Fall River School Dept., Teacher at Durfee High	Y
Gary Bigelow	Fall River School Dept., Teacher at Durfee High	Y
Nick Christ	Baycoast Bank, CEO Baycoast Bank	Y
Michael Keane	Civitech Architects, Owner	N
Brantley Hunsinger	B-Tech Construction, Owner	N
Tammy Moutinho	Buildings and Grounds, Admin.	Y
Lauren Correa	Student	Y
Catarina Pereira	Student	Y
Jensen Riley	Student	N
Scott Dunlap	Ai3, Project Architect	Y
Troy Randall	Ai3, Project Architect	Y
Craig Olsen	Ai3, Project Architect	Y
Art Eddy	Birchwood Design Group	Y
Sally Cameron	ThreeC Strategy	Y
Jim Rogers	LeftField, Owner	N
Lynn Stapleton	LeftField, Project Executive	N
Adam Keane	LeftField, Project Manager	Y
Paul Gransaull	LeftField, Project Manager	Y

- Voting Members indicated in **bold**

BMC Durfee High School – School Building Committee Meeting No. 10

The School Building Committee Chair, K. Pacheco, called the meeting to order at 4:35 PM.

I. Approval of Meeting Minutes

1. The following motion and vote were made:

MOTION: C. Fiola moved, seconded by C. Gallagher, that the Durfee High School Building Committee approve the May 11, 2017 SBC Meeting Minutes.
Discussion: None.

The Durfee High School Building Committee voted to approve the May 11, 2017 SBC Meeting Minutes.
For: 8 – Oppose: 0 – Abstained: 0

II. Preferred Schematic Report (PSR)

2. T. Randall presented a PowerPoint overview of the Preferred Schematic Report and the six site layout and construction options contained in the report. He then went into detail on the "hybrid" scheme proposed for the preferred schematic, "Option IE", and explained the advantages of this option in terms of site layout, construction costs, massing, education delivery, etc. This option preserves the existing Athletics Building, the Football Stadium, Baseball Field, Practice Fields and the Performing Arts Building. The Performing Arts Building will be preserved for use by the community and will not be part of the High School Project. Discussions continued explaining the educational layout of the building, bus access, relocation of parking and athletic fields. After discussions, the SBC was asked to approve the Preferred Schematic Report and specifically the preferred options and associated probable costs.

The following motion and vote were made:

MOTION: K. Pacheco moved, seconded by N. Christ, that the Durfee High School Building Committee approve Option 1E as the preferred schematic option and associated probable costs and to approve the Preferred Schematic Report (PSR) Submission in whole for submission to the MSBA by the June 29 2017 submission deadline.
Discussion: None.

The Durfee High School Building Committee voted to approve Option 1E as the preferred schematic option and associated probable costs and to approve the Preferred Schematic Report (PSR) Submission in whole for submission to the MSBA by the June 29 2017 submission deadline.
For: 8 – Oppose: 0 – Abstained: 0

III. Community Engagement

3. S. Cameron's update noted that Community traction is developing and much positive feedback has been received via the Facebook page (227 members to date), the Twitter account (80 followers) and the Website, which has received over 700 visits to date.

4. S. Cameron received communication from a member of the Class of '87 that a time capsule had been buried in the area of the front entrance. C. Gallagher noted that the SBC would accommodate relocation of the capsule if it can be located.

5. A. Keane noted that the second Public Forum will be held at 6:30pm in the Auditorium following the conclusion of this meeting. Ai3 to present a PowerPoint presentation updating the Community on the Preferred Schematic and SBC efforts to date.

IV. Schedule Update

6. A. Keane noted that all efforts are currently focused on the PSR Submission date of 6/29/17.

V. Project Funding & Project Budget Update

7. The 5/31/17 Budget Status Report, attached to the minutes, was reviewed. The Feasibility Study Budget is 54% spent.

VI. Other Business/Discussion

8. None.

VII. Next Meetings

9. The next meeting of the full SBC is scheduled for July 13, 2017 at 4:30 PM in the Durfee High School Library.

VIII. Adjournment

10. The following motion and vote were made:

MOTION: K. Pacheco moved and C. Gallagher seconded, that the School Building Committee vote to adjourn the meeting at 5:20 PM.

Discussion: None.

The Durfee School Building Committee voted unanimously to adjourn the meeting at 5:20pm.
For: 8 – Oppose: 0 – Abstained: 0

These meeting minutes represent what is presumed to be a complete and accurate account of the items reviewed, discussed, directions given and conclusions drawn unless notification to the contrary is received by the next regular construction meeting. If no notification is received, these minutes will be deemed an accurate account of the meeting.

Prepared by,
Paul Gransaull
LeftField LLC

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BMC Durfee High School - Fall River, MA — **June 30, 2017**

Total Project Budget Status Report

ProPay Code	Description	Total Project Budget	Authorized Changes	Revised Total Budget	Total Committed	% Cmtd to Date	Actual Spent to Date	% Spent to Date	Balance To Spend	Comments
	FEASIBILITY STUDY AGREEMENT									
0001-0000	OPM Feasibility Study/Schematic Design	$ 280,000	$ 50,500	$ 330,500	$ 330,500	100%	$ 231,250	70%	$ 99,250	*FSA 1, 2
0002-0000	A&E Feasibility Study/Schematic Design	$ 570,000	$ 99,500	$ 669,500	$ 669,500	100%	$ 380,501	57%	$ 288,999	*FSA 1, 2
0003-0000	Environmental & Site	$ 120,000	$ (120,000)	$ -	$ -		$ -		$ -	*FSA 1, 2
0004-0000	Other	$ 30,000	$ (30,000)	$ -	$ -		$ -		$ -	*FSA 2
	SUB-TOTAL	$ 1,000,000	$ -	$ 1,000,000	$ 1,000,000	100%	$ 611,751	61%	$ 388,249	
	TOTAL PROJECT BUDGET	**$ 1,000,000**	**$ -**	**$ 1,000,000**	**$ 1,000,000**	**100%**	**$ 611,751**	**61%**	**$ 388,249**	

FUNDING SOURCES	Max w/ Conting.	Max w/o Conting.
Maximum State Share	$ 795,800	$ 795,800
Local Share *	$ 204,200	$ 204,200
SUB-TOTAL	$ 1,000,000	$ 1,000,000

Project Budget	Scope Items Excluded	Contingencies	Basis of Total Facilities Grant	Reimbursement Rate
$ 1,000,000	$ -	$ -	$ 1,000,000	79.58%

CONSTR. COST ESTIMATES	Date	Estimator	Amount	SF	Cost Per SF
Designer FS Cost Estimate	06/13/17	PM&C	$190,119,276	497,000	$382.53
Designer SD Cost Estimate					#DIV/0!
OPM SD Cost Estimate					#DIV/0!

Feasibility Study Agreement Budget Transfers:

FSA BRR 01 7/7/2016 Transfer $50,000 from Environmental & Site to OPM Feasibility Study/Schematic Design; transfer $20,000 from A/E Feasibility Study/Schematic Design to OPM Feasibility Study/Schematic Design. **APPROVED by MSBA 11/8/16**

FSA BRR 02 2/3/2017 Transfer $70,000 from Environmental & Site, transfer $30,000 from Other , and transfer $19,500 from OPM Feasibility Study/Schematic Design to to A/E Feasibility Study/Schematic Design to fulfill A/E Contract Requirements. **Circulated for Signatures**

Project Funding Agreement Budget Transfers:

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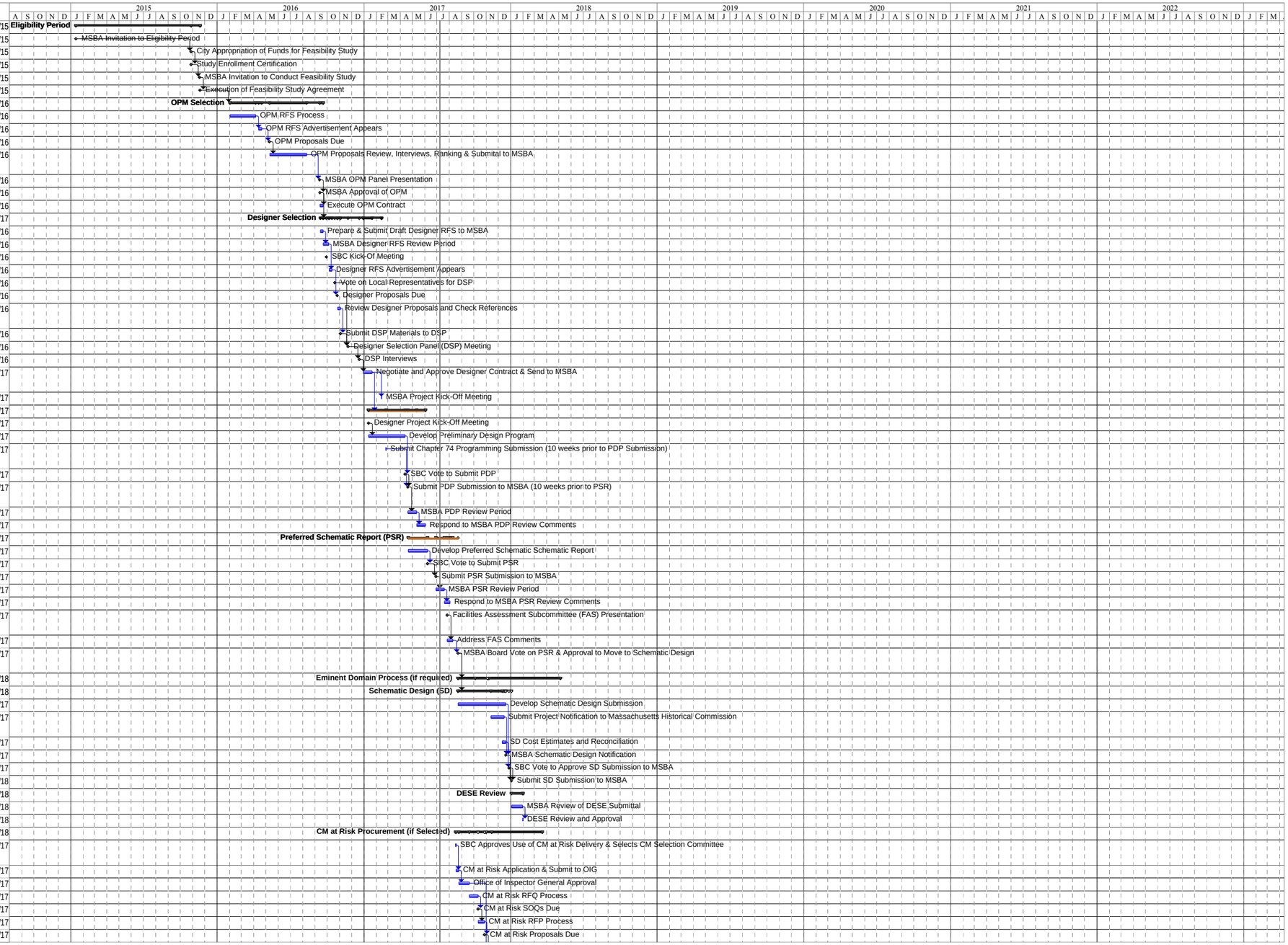
FALL RIVER - BMC DURFEE HIGH SCHOOL
PRELIMINARY PROJECT SCHEDULE
Feasibility Study Phase: Preferred Schematic Report - June 30, 2017

ID	Task Name	Start	Finish
1	Eligibility Period	Wed 1/14/15	Thu 11/19/15
2	MSBA Invitation to Eligibility Period	Wed 1/14/15	Wed 1/14/15
3	City Appropriation of Funds for Feasibility Study	Wed 10/28/15	Wed 10/28/15
4	Study Enrollment Certification	Wed 10/28/15	Wed 10/28/15
5	MSBA Invitation to Conduct Feasibility Study	Wed 11/18/15	Wed 11/18/15
6	Execution of Feasibility Study Agreement	Thu 11/19/15	Thu 11/19/15
7	OPM Selection	Tue 2/2/16	Tue 9/20/16
8	OPM RFS Process	Tue 2/2/16	Tue 4/5/16
9	OPM RFS Advertisement Appears	Wed 4/13/16	Wed 4/20/16
10	OPM Proposals Due	Tue 5/10/16	Tue 5/10/16
11	OPM Proposals Review, Interviews, Ranking & Submital to MSBA	Wed 5/11/16	Wed 8/10/16
12	MSBA OPM Panel Presentation	Mon 9/12/16	Mon 9/12/16
13	MSBA Approval of OPM	Tue 9/13/16	Tue 9/13/16
14	Execute OPM Contract	Tue 9/13/16	Tue 9/20/16
15	Designer Selection	Wed 9/14/16	Mon 2/13/17
16	Prepare & Submit Draft Designer RFS to MSBA	Wed 9/14/16	Tue 9/20/16
17	MSBA Designer RFS Review Period	Wed 9/21/16	Tue 10/4/16
18	SBC Kick-Of Meeting	Thu 9/29/16	Thu 9/29/16
19	Designer RFS Advertisement Appears	Thu 10/6/16	Wed 10/12/16
20	Vote on Local Representatives for DSP	Thu 10/20/16	Thu 10/20/16
21	Designer Proposals Due	Wed 10/26/16	Wed 10/26/16
22	Review Designer Proposals and Check References	Thu 10/27/16	Wed 11/2/16
23	Submit DSP Materials to DSP	Thu 11/3/16	Thu 11/3/16
24	Designer Selection Panel (DSP) Meeting	Tue 11/22/16	Tue 11/22/16
25	DSP Interviews	Tue 12/20/16	Tue 12/20/16
26	Negotiate and Approve Designer Contract & Send to MSBA	Fri 12/30/16	Fri 1/20/17
27	MSBA Project Kick-Off Meeting	Mon 2/13/17	Mon 2/13/17
28	Preliminary Design Program (PDP)	Thu 1/12/17	Fri 6/2/17
29	Designer Project Kick-Off Meeting	Thu 1/12/17	Thu 1/12/17
30	Develop Preliminary Design Program	Thu 1/12/17	Wed 4/12/17
31	Submit Chapter 74 Programming Submission (10 weeks prior to PDP Submission)	Fri 2/24/17	Fri 2/24/17
32	SBC Vote to Submit PDP	Thu 4/13/17	Thu 4/13/17
33	Submit PDP Submission to MSBA (10 weeks prior to PSR)	Thu 4/20/17	Thu 4/20/17
34	MSBA PDP Review Period	Thu 4/20/17	Thu 5/11/17
35	Respond to MSBA PDP Review Comments	Fri 5/12/17	Fri 6/2/17
36	Preferred Schematic Report (PSR)	Fri 4/21/17	Wed 8/23/17
37	Develop Preferred Schematic Schematic Report	Fri 4/21/17	Wed 6/7/17
38	SBC Vote to Submit PSR	Thu 6/8/17	Thu 6/8/17
39	Submit PSR Submission to MSBA	Thu 6/29/17	Thu 6/29/17
40	MSBA PSR Review Period	Thu 6/29/17	Wed 7/19/17
41	Respond to MSBA PSR Review Comments	Thu 7/20/17	Wed 8/2/17
42	Facilities Assessment Subcommittee (FAS) Presentation	Thu 7/27/17	Thu 7/27/17
43	Address FAS Comments	Thu 7/27/17	Wed 8/9/17
44	MSBA Board Vote on PSR & Approval to Move to Schematic Design	Wed 8/23/17	Wed 8/23/17
45	Eminent Domain Process (if required)	Wed 8/23/17	Fri 5/4/18
53	Schematic Design (SD)	Wed 8/23/17	Wed 1/3/18
54	Develop Schematic Design Submission	Wed 8/23/17	Tue 12/19/17
55	Submit Project Notification to Massachusetts Historical Commission	Mon 11/13/17	Fri 12/15/17
56	SD Cost Estimates and Reconciliation	Mon 12/11/17	Tue 12/19/17
57	MSBA Schematic Design Notification	Wed 12/20/17	Wed 12/20/17
58	SBC Vote to Approve SD Submission to MSBA	Thu 12/28/17	Thu 12/28/17
59	Submit SD Submission to MSBA	Wed 1/3/18	Wed 1/3/18
60	DESE Review	Wed 1/3/18	Wed 1/31/18
61	MSBA Review of DESE Submittal	Wed 1/3/18	Tue 1/30/18
62	DESE Review and Approval	Wed 1/31/18	Wed 1/31/18
63	CM at Risk Procurement (if Selected)	Thu 8/17/17	Tue 3/20/18
64	SBC Approves Use of CM at Risk Delivery & Selects CM Selection Committee	Thu 8/17/17	Thu 8/17/17
65	CM at Risk Application & Submit to OIG	Fri 8/18/17	Thu 8/24/17
66	Office of Inspector General Approval	Fri 8/25/17	Tue 9/19/17
67	CM at Risk RFQ Process	Wed 9/20/17	Wed 10/11/17
68	CM at Risk SOQs Due	Wed 10/11/17	Wed 10/11/17
69	CM at Risk RFP Process	Thu 10/12/17	Fri 10/27/17
70	CM at Risk Proposals Due	Fri 10/27/17	Fri 10/27/17



Inactive Task | Inactive Summary | Duration-only | Manual Summary | Finish-only | Baseline
Inactive Milestone | Manual Task | Manual Summary Rollup | Start-only | Slippage

Revised 11/28/12

Page 1

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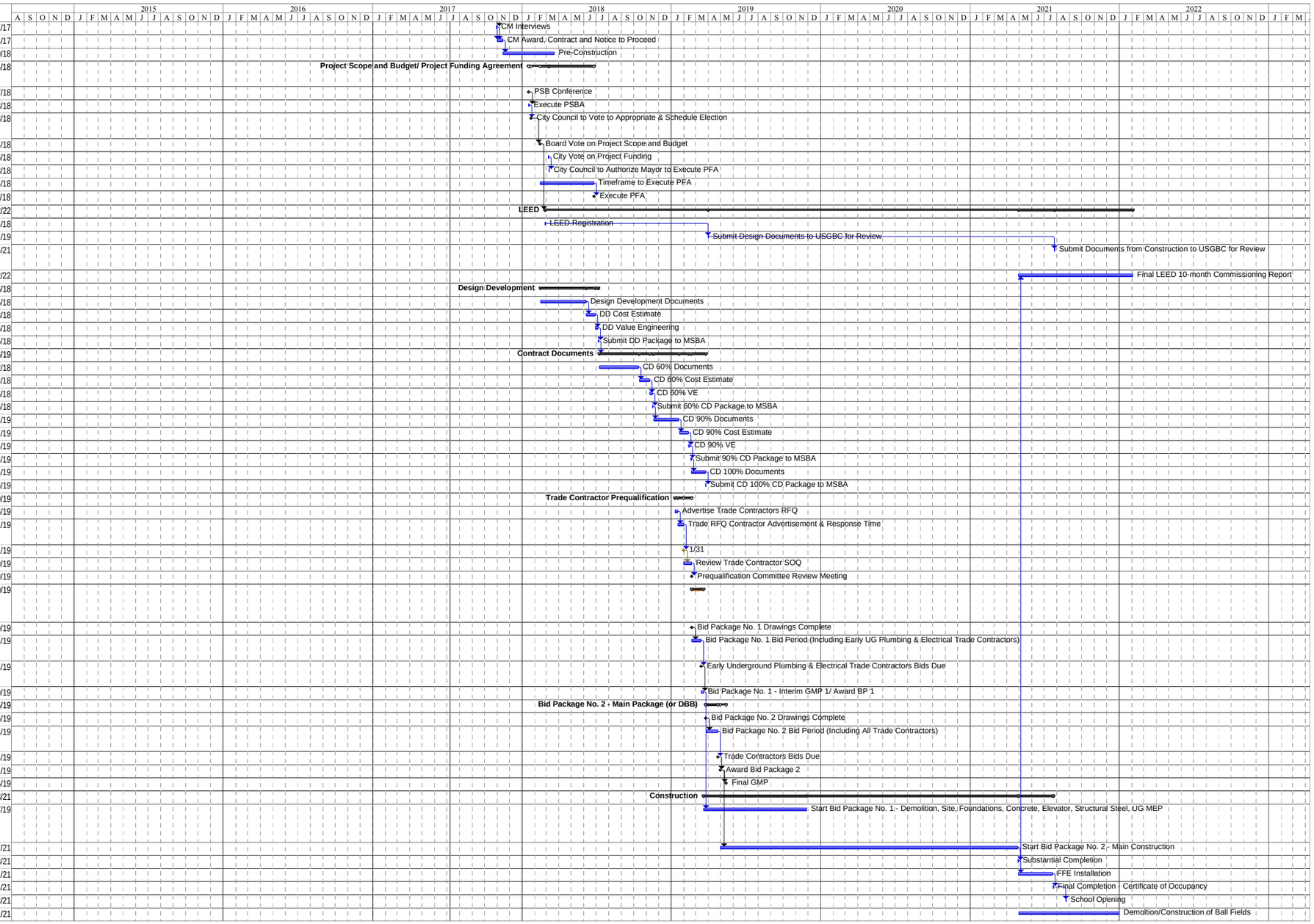
FALL RIVER - BMC DURFEE HIGH SCHOOL
PRELIMINARY PROJECT SCHEDULE
Feasibility Study Phase: Preferred Schematic Report - June 30, 2017

ID	Task Name	Start	Finish
71	CM Interviews	Mon 10/30/17	Tue 10/31/17
72	CM Award, Contract and Notice to Proceed	Wed 11/1/17	Tue 11/14/17
73	Pre-Construction	Wed 11/15/17	Tue 3/20/18
74	Project Scope and Budget/ Project Funding Agreement	Wed 1/17/18	Mon 6/25/18
75	PSB Conference	Wed 1/17/18	Wed 1/17/18
76	Execute PSBA	Wed 1/17/18	Thu 1/18/18
77	City Council to Vote to Appropriate & Schedule Election	Tue 1/23/18	Tue 1/23/18
78	Board Vote on Project Scope and Budget	Wed 2/14/18	Wed 2/14/18
79	City Vote on Project Funding	Tue 3/6/18	Tue 3/6/18
80	City Council to Authorize Mayor to Execute PFA	Thu 3/8/18	Thu 3/8/18
81	Timeframe to Execute PFA	Wed 2/14/18	Mon 6/25/18
82	Execute PFA	Mon 6/25/18	Mon 6/25/18
83	LEED	Mon 2/26/18	Wed 2/2/22
84	LEED Registration	Mon 2/26/18	Mon 2/26/18
85	Submit Design Documents to USGBC for Review	Mon 4/1/19	Mon 4/1/19
86	Submit Documents from Construction to USGBC for Review	Mon 7/26/21	Mon 7/26/21
87	Final LEED 10-month Commissioning Report	Thu 4/29/21	Wed 2/2/22
88	Design Development	Thu 2/15/18	Fri 7/6/18
89	Design Development Documents	Thu 2/15/18	Wed 6/6/18
90	DD Cost Estimate	Thu 6/7/18	Thu 6/28/18
91	DD Value Engineering	Fri 6/29/18	Thu 7/5/18
92	Submit DD Package to MSBA	Fri 7/6/18	Fri 7/6/18
93	Contract Documents	Mon 7/9/18	Tue 3/26/19
94	CD 60% Documents	Mon 7/9/18	Fri 10/12/18
95	CD 60% Cost Estimate	Mon 10/15/18	Thu 11/8/18
96	CD 60% VE	Fri 11/9/18	Thu 11/15/18
97	Submit 60% CD Package to MSBA	Fri 11/16/18	Fri 11/16/18
98	CD 90% Documents	Mon 11/19/18	Fri 1/18/19
99	CD 90% Cost Estimate	Mon 1/21/19	Mon 2/11/19
100	CD 90% VE	Tue 2/12/19	Fri 2/15/19
101	Submit 90% CD Package to MSBA	Mon 2/18/19	Mon 2/18/19
102	CD 100% Documents	Tue 2/19/19	Mon 3/25/19
103	Submit CD 100% CD Package to MSBA	Tue 3/26/19	Tue 3/26/19
104	Trade Contractor Prequalification	Thu 1/10/19	Tue 2/19/19
105	Advertise Trade Contractors RFQ	Thu 1/10/19	Wed 1/16/19
106	Trade RFQ Contractor Advertisement & Response Time	Thu 1/17/19	Thu 1/31/19
107	Trade Contractors SOQ Due	Thu 1/31/19	Thu 1/31/19
108	Review Trade Contractor SOQ	Thu 1/31/19	Tue 2/19/19
109	Prequalification Committee Review Meeting	Tue 2/19/19	Tue 2/19/19
110	Bid Package No.1-Site, Foundations, Concrete, Elevator, Structural Steel, UG Electrical & Plumbing	Wed 2/20/19	Wed 3/20/19
111	Bid Package No. 1 Drawings Complete	Wed 2/20/19	Wed 2/20/19
112	Bid Package No. 1 Bid Period (Including Early UG Plumbing & Electrical Trade Contractors)	Wed 2/20/19	Thu 3/14/19
113	Early Underground Plumbing & Electrical Trade Contractors Bids Due	Thu 3/14/19	Thu 3/14/19
114	Bid Package No. 1 - Interim GMP 1/ Award BP 1	Fri 3/15/19	Wed 3/20/19
115	Bid Package No. 2 - Main Package (or DBB)	Tue 3/26/19	Wed 5/15/19
116	Bid Package No. 2 Drawings Complete	Tue 3/26/19	Tue 3/26/19
117	Bid Package No. 2 Bid Period (Including All Trade Contractors)	Wed 3/27/19	Wed 4/24/19
118	Trade Contractors Bids Due	Wed 4/24/19	Wed 4/24/19
119	Award Bid Package 2	Wed 5/1/19	Wed 5/1/19
120	Final GMP	Wed 5/15/19	Wed 5/15/19
121	Construction	Thu 3/21/19	Fri 7/23/21
122	Start Bid Package No. 1 - Demolition, Site, Foundations, Concrete, Elevator, Structural Steel, UG MEP	Thu 3/21/19	Wed 11/27/19
123	Start Bid Package No. 2 - Main Construction	Wed 5/1/19	Tue 4/27/21
124	Substantial Completion	Wed 4/28/21	Wed 4/28/21
125	FFE Installation	Thu 4/29/21	Wed 7/21/21
126	Final Completion - Certificate of Occupancy	Fri 7/23/21	Fri 7/23/21
127	School Opening	Mon 8/23/21	Mon 8/23/21
128	Demoltion/Construction of Ball Fields	Fri 4/30/21	Fri 12/31/21



Inactive Task | Inactive Summary | Duration-only | Manual Summary | Finish-only | Baseline
Inactive Milestone | Manual Task | Manual Summary Rollup | Start-only | Slippage

Revised 11/28/12

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THE RIGHT CHOICE IN PROJECT MANAGEMENT

B.M.C. DURFEE HIGH SCHOOL – Fall River, MA

SCHOOL BUILDING COMMITTEE MEETING NO. 12

Thursday, August 10, 2017 Durfee High School - Library 4:30 PM

Agenda

1. Administrative Actions
   - Vote to Approve the July 13, 2017 Meeting Minutes
2. Community Engagement
   - Facebook, Twittter, Website, Print Update
   - Next Steps to Garner Support
3. Preferred Schematic Report (PSR)
   - Update on July 27, 2017 MSBA Facilities Assessment Subcommittee (FAS) Presentation
   - Update on PSR Comments to be Submitted to MSBA
4. Schematic Design (SD)
   - Schematic Design Phase Overview
     - SD Deliverables
     - Update on Geotechnical/Geo-environmental
     - Site/Utilities/Flow Tests
     - SPED, CTVE, Departments (Layouts, Adjacencies, Relationships)
   - Establish Times for Focus Group/Subcommittee Meetings
5. Schedule Update
   - Review Project Schedule
   - Important Upcoming Milestone Dates
     - MSBA Board Vote on Approval of PSR on August 23, 2017
     - Schematic Design Timeline (August 24, 2017 – January 3, 2018)
     - Discuss Timing/Date for Public Forum No. 3
6. Budget Update
   - Review Total Project Budget
7. Other Business/Discussions
8. Next SBC Meeting
   - SBC Meeting September 14, 2017 4:30 PM Durfee HS Library

ADA Coordinator: Gary P. Howayeck, Esq. 508-324-2650
One Government Center – Fall River, MA 02722
TEL 508-324-220 – FAX 508-324-2211 – EMAIL city_clerks@fallriverma.org

LEFTFIELD
THE RIGHT CHOICE IN PROJECT MANAGEMENT

BMS Durfee High School – Fall River, MA	MEETING MINUTES

SCHOOL BUILDING COMMITTEE MEETING NO. 11	July 13, 2017
Location:	Durfee High School Library
Time:	4:30 PM

Attendees:

Name	Assoc.	Present
Jasiel F. Correia II	Mayor, City of Fall River	N
Cathy Ann Viveiros	City of Fall River, City Administrator	N
Rhonda Pinnell	City of Fall River, Purchasing Agent	N
Tim McCoy	City of Fall River, Purchasing Agent FRHA	N
Chris Gallagher	City of Fall River, Director of Building and Grounds	Y
Carole Fiola	Mass. State Rep.	Y
Matt Malone	Fall River School Dept, Superintendent of Schools	N
Ken Pacheco	Fall River School Dept., Co-Chair, Chief of Operations FRPS	Y
Joseph Camara	City Councilor and Co-Chair	Y
Mark Costa	Fall River School Dept. School Committee, Vice Chair	N
Ed Costar	Fall River School Dept., School Committee	Y
Matthew Desmarais	Fall River School Dept., Durfee High Interim Principal	Y
Melissa Fogarty	Fall River School Dept., Operations Durfee High	N
Michael Costa	Fall River School Dept., Teacher at Durfee High	Y
Gary Bigelow	Fall River School Dept., Teacher at Durfee High	Y
Nick Christ	Baycoast Bank, CEO Baycoast Bank	N
Michael Keane	Civitech Architects, Owner	Y
Brantley Hunsinger	B-Tech Construction, Owner	N
Tammy Moutinho	Buildings and Grounds, Admin.	Y
Lauren Correa	Student	N
Catarina Pereira	Student	N
Jensen Riley	Student	N
Scott Dunlap	Ai3, Project Architect	Y
Troy Randall	Ai3, Project Architect	N
Craig Olsen	Ai3, Project Architect	Y
Sally Cameron	ThreeC Strategy	Y
Jim Rogers	LeftField, Owner	N
Lynn Stapleton	LeftField, Project Executive	N
Adam Keane	LeftField, Project Manager	Y
Paul Gransaull	LeftField, Project Manager	Y

- Voting Members indicated in **bold**

BMC Durfee High School – School Building Committee Meeting No. 11

The School Building Committee Chair, K. Pacheco, called the meeting to order at 4:35 PM.

I. Approval of Meeting Minutes

1. The following motion and vote were made:

   MOTION: C. Fiola moved, seconded by M. Costa, that the Durfee High School Building Committee approve the June 15 2017 SBC Meeting Minutes.
   Discussion: None.

   The Durfee High School Building Committee voted to approve the June 15, 2017 SBC Meeting Minutes.
   For: 8 – Oppose: 0 – Abstained: 0

II. Community Engagement

2. S. Cameron noted that a presentation of the design portion of the last SBC Meeting was posted on the Facebook site and on Twitter and received good responses from the community. Sally stated she is currently working on promotional material such as the "site graphic" to be posted in a public space in the city and an article with the Herald. The Chamber of Commerce is developing an "op-ed" piece on the Project for circulation via one of their publications. C. Fiola suggested that public spaces for presentation of the Project be considered such as, Shaws, Stop & Shop and CVS.

3. Mr. Donald Wood, a former faculty member at Durfee High, attended the meeting to voice some design comments. He commented that the building as depicted in the rendering appears too close to Ellsbree Street. J. Camara noted that the actual distance is approximately 60 feet from the curb. Mr. Wood inquired about the need for 3 floors. C. Olsen explained the vertical distribution and S. Dunlap detailed why three floors and not two were needed. Lastly, Mr. Wood, as a member of the "Bell Committee", expressed concern about the future location of the bell structure. Many members of the School Committee took turns expressing the respect they all have for the bells and the work the Bell Committee has performed over the past twenty years. Ai3 noted that they will study the tower location and design options for incorporating the bells and present to the SBC for future consideration.

III. Preferred Schematic Report (PSR)

4. S. Dunlap noted that the PSR was submitted to the MSBA on 6/29/17 and that there is a FAS presentation scheduled with the MSBA for the Durfee High School Project on 7/27/17. The SBC attendees will meet with Ai3 on 7/25/17 to review any last minute questions regarding the PSR.

IV. Schematic Design

5. S. Dunlap stated that Ai3 would like to advance the design from the PSR and will need to schedule Focus Meetings with the stakeholders to review layouts, adjacencies, spatial relationships, etc.

6. A. Keane noted that the geotechnical work is underway. There are a total of 27 borings and test pits to be explored. To date, 11 borings have been performed with rock and ledge encountered in some of the holes. The test pits are scheduled for the week of 7/17/17.

V. Schedule Update

7. A. Keane gave the following review of some milestone dates:
   - FAS Presentation – 7/27/17
   - MSBA Board vote on approval of the PSR – 8/23/17
   - Schematic Design timeline – 8/24/17 to 1/3/18
   - Public Forum #3 - tbd

VI. Project Funding & Project Budget Update

8. The 6/30/17 Budget Status Report was attached to the minutes; current expenditures are at 61% complete.

VII. Other Business/Discussion

9. There was no new business or other discussions.

VIII. Next Meetings

10. The next meeting of the full SBC is scheduled for August 10, 2017 at 4:30 PM in the Durfee High School Library.

IX. Adjournment

11. The following motion and vote were made:

    MOTION: C. Fiola moved and E. Costar seconded, that the School Building Committee vote to adjourn the meeting at 5:25 PM.
    Discussion: None.

    The Durfee School Building Committee voted unanimously to adjourn the meeting at 5:25pm.
    For: 9 – Oppose: 0 – Abstained: 0

These meeting minutes represent what is presumed to be a complete and accurate account of the items reviewed, discussed, directions given and conclusions drawn unless notification to the contrary is received by the next regular construction meeting. If no notification is received, these minutes will be deemed an accurate account of the meeting.

Prepared by,
Paul Gransaull
LeftField LLC

LEFTFIELD
THE RIGHT CHOICE IN PROJECT MANAGEMENT

BMC Durfee High School - Fall River, MA — **July 31, 2017**

Total Project Budget Status Report

ProPay Code	Description	Total Project Budget	Authorized Changes	Revised Total Budget	Total Committed	% Cmtd to Date	Actual Spent to Date	% Spent to Date	Balance To Spend	Comments
	FEASIBILITY STUDY AGREEMENT									
0001-0000	OPM Feasibility Study/Schematic Design	$ 280,000	$ 50,500	$ 330,500	$ 330,500	100%	$ 243,250	74%	$ 87,250	*FSA 1, 2
0002-0000	A&E Feasibility Study/Schematic Design	$ 570,000	$ 99,500	$ 669,500	$ 669,500	100%	$ 422,968	63%	$ 246,532	*FSA 1, 2
0003-0000	Environmental & Site	$ 120,000	$ (120,000)	$ -	$ -		$ -		$ -	*FSA 1, 2
0004-0000	Other	$ 30,000	$ (30,000)	$ -	$ -		$ -		$ -	*FSA 2
	SUB-TOTAL	$ 1,000,000	$ -	$ 1,000,000	$ 1,000,000	100%	$ 666,218	67%	$ 333,782	
	TOTAL PROJECT BUDGET	**$ 1,000,000**	**$ -**	**$ 1,000,000**	**$ 1,000,000**	**100%**	**$ 666,218**	**67%**	**$ 333,782**	

FUNDING SOURCES	Max w/ Conting.	Max w/o Conting.	Project Budget	Scope Items Excluded	Contingencies	Basis of Total Facilities Grant	Reimbursement Rate
Maximum State Share	$ 795,800	$ 795,800					
Local Share *	$ 204,200	$ 204,200					
SUB-TOTAL	$ 1,000,000	$ 1,000,000	$ 1,000,000	$ -	$ -	$ 1,000,000	79.58%

CONSTR. COST ESTIMATES	Date	Estimator	Amount	SF	Cost Per SF
Designer FS Cost Estimate	06/13/17	PM&C	$190,119,276	497,000	$382.53
Designer SD Cost Estimate					#DIV/0!
OPM SD Cost Estimate					#DIV/0!

Feasibility Study Agreement Budget Transfers:

FSA BRR 01 7/7/2016 — Transfer $50,000 from Environmental & Site to OPM Feasibility Study/Schematic Design; transfer $20,000 from A/E Feasibility Study/Schematic Design to OPM Feasibility Study/Schematic Design. **APPROVED by MSBA 11/8/16**

FSA BRR 02 2/3/2017 — Transfer $70,000 from Environmental & Site, transfer $30,000 from Other , and transfer $19,500 from OPM Feasibility Study/Schematic Design to to A/E Feasibility Study/Schematic Design to fulfill A/E Contract Requirements. **Circulated for Signatures**

Project Funding Agreement Budget Transfers:

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THE RIGHT CHOICE IN PROJECT MANAGEMENT

B.M.C. DURFEE HIGH SCHOOL – Fall River, MA

SCHOOL BUILDING COMMITTEE MEETING NO. 13

Thursday, September 14, 2017 Durfee High School - Library 4:30 PM

Agenda

1. Administrative Actions
   - Vote to Approve the August 10, 2017 Meeting Minutes

2. Community Engagement
   - Facebook, Twittter, Website, Print Update
   - Next Steps to Garner Support
   - Public Forum – Presentation Agenda

3. Schematic Design (SD)
   - MSBA Board Action - Approval of Preferred Schematic to Proceed to Schematic Design
   - Schematic Design Update
     - Recent Programming Meetings (Layouts, Adjacencies, Relationships)
     - Traffic Study
     - Durfee Bells
     - Presentation to School Committee
   - Review Times/Topics for Upcoming Programming Meetings
   - Design/Bid/Build versus Construction Management at Risk Construction Delivery Discussion

4. Schedule Update
   - Review Project Schedule
   - Develop Timeline and Milestones to get to Public Vote on Project Scope & Budget
   - Important Upcoming Milestone Dates
     - Schematic Design Timeline (August 24, 2017 – January 3, 2018)
     - Decision/Vote on Design/Bid/Build vs. CM at Risk – October 12, 2017
     - Public Forum No. 3 - October 12, 2017 at 6:30 PM

5. Budget Update
   - Review Total Project Budget

6. Other Business/Discussions

7. Next SBC Meeting
   - SBC Meeting October 12, 2017 4:30 PM Durfee HS Library

ADA Coordinator: Gary P. Howayeck, Esq. 508-324-2650
One Government Center – Fall River, MA 02722
TEL 508-324-220 – FAX 508-324-2211 – EMAIL city_clerks@fallriverma.org

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THE RIGHT CHOICE IN PROJECT MANAGEMENT

BMS Durfee High School – Fall River, MA	MEETING MINUTES

SCHOOL BUILDING COMMITTEE MEETING NO. 13	September 14, 2017
Location:	Durfee High School Library
Time:	4:30 PM

Attendees:

Name	Assoc.	Present
Jasiel F. Correia II	Mayor, City of Fall River	N
Cathy Ann Viveiros	City of Fall River, City Administrator	N
Rhonda Pinnell	City of Fall River, Purchasing Agent	N
Tim McCoy	City of Fall River, Purchasing Agent FRHA	N
Chris Gallagher	City of Fall River, Director of Building and Grounds	Y
Carole Fiola	Mass. State Rep.	N
Matt Malone	Fall River School Dept, Superintendent of Schools	N
Ken Pacheco	Fall River School Dept., Co-Chair, Chief of Operations FRPS	Y
Joseph Camara	City Councilor and Co-Chair	N
Mark Costa	Fall River School Dept. School Committee, Vice Chair	N
Ed Costar	Fall River School Dept., School Committee	Y
Matthew Desmarais	Fall River School Dept., Durfee High Interim Principal	Y
Melissa Fogarty	Fall River School Dept., Operations Durfee High	N
Michael Costa	Fall River School Dept., Teacher at Durfee High	Y
Gary Bigelow	Fall River School Dept., Teacher at Durfee High	N
Nick Christ	Baycoast Bank, CEO Baycoast Bank	N
Michael Keane	Civitech Architects, Owner	N
Brantley Hunsinger	B-Tech Construction, Owner	N
Tammy Moutinho	Buildings and Grounds, Admin.	Y
Lauren Correa	Student	N
Catarina Pereira	Student	N
Jensen Riley	Student	N
Scott Dunlap	Ai3, Project Architect	N
Troy Randall	Ai3, Project Architect	Y
Craig Olsen	Ai3, Project Architect	Y
Sally Cameron	ThreeC Strategy	Y
Jim Rogers	LeftField, Owner	N
Lynn Stapleton	LeftField, Project Executive	Y
Adam Keane	LeftField, Project Manager	Y
Paul Gransaull	LeftField, Project Manager	N

- Voting Members indicated in **bold**

The School Building Committee Chair, K. Pacheco, called the meeting to order at 4:35 PM.

I. Approval of Meeting Minutes

1. Because there was not a Quorum, the vote to approve the August 10, 2017 SBC Meeting minutes will be deferred to the next SBC Meeting scheduled for September 14, 2017.

   MOTION: None

   Discussion: None.

   Vote: None

II. Community Engagement

2. S. Cameron noted that the newest Durfee HS images have been updated to the Facebook and Twitter accounts. Together, they have received more than 35,000 views. Sally encouraged all members of the SBC to like the pages and to pass it on to friends and other colleagues.

3. Mr. Les Cory who is the President of the Durfee Bells Preservation Society attended the meeting to discuss the Durfee Bell Tower Monument that is presently erected near the tennis courts on the current High School site. The monument and these bells will need to be removed or relocated as part of the project.

   Les told the group of the great historic significance of the Bells which were relocated from the original Durfee High School on Rock Street. He described the bells and their present monument as "Hallowed Ground" to the people of Fall River. The process to move and protect the Durfee Bells took many individuals years to accomplish. All funding for the project was donated. Donors bought memorial bricks (913 total bricks) which make up a "Pathway of Memories". Additionally, memorial granite benches were also sold for donations.

   Les described the process of preserving and tuning the bells with great detail. Les also, described the process of the design and construction of the glass and steel tower that presently houses the bells. Les offered to lend the project his plans, specifications and other records in regards to the bells and tower. The Project Team gladly welcomed this offer.

   Troy Randall described the project's proposal to relocate and preserve the bells. The new Durfee High School will borrow some prominent architectural features from the Old Durfee High School. The most prominent of these features will be a new bell tower where the Old Durfee Bells will be featured. The electronic and manual chimes will also be relocated to the new Bell Tower. Lastly the "Pathway of Memories" and dedication benches will be relocated to the front of the building in front of the Bell Tower on Elsbree Street. Some renderings were shown of the building with the new Bell Tower which were well received by the group. The Project Team committed to keeping Les Cory and the Bulls Preservation Society up to date on all developments regarding this issue.

III. Preferred Schematic Report (PSR)

4. Troy Randall noted that the MSBA submitted their PSR Review Comments to the Project Team on 08/02/17. The Project Team will have until 08/18/17 to respond to the MSBA.

5. On 08/23/17, the MSBA Board of Directors will vote on the approval of the Preferred Schematic and the continuation of the project into Schematic Design.

IV. Schematic Design

6. Troy Randal stated that Ai3 would like to advance the design from the PSR and will need to schedule four initial Focus Meetings with the stakeholders to review layouts, adjacencies, spatial relationships, etc. These four, day long sessions will be scheduled for early to mid-September.

V. Schedule Update

7. A. Keane gave the following review of some milestone dates:

- MSBA Board Vote on Approval of the PSR – 8/23/17
- Programming Meetings (Day-long) #1-4 will be scheduled in September
- Schematic Design Timeline – 8/24/17 to 1/3/18
- Public Forum #3 – October 12, 2017

VI. Project Funding & Project Budget Update

8. The 7/31/17 Budget Status Report was attached to the minutes. Current expenditures are at 67% of the Feasibility Study budget.

VII. Other Business/Discussion

9. None.

VIII. Next Meetings

10. The next meeting of the full SBC is scheduled for September 14, 2017 at 4:30 PM in the Durfee High School Library.

11. The next Public Forum #3 is scheduled for October 12, 2017 at 6:30PM.

IX. Adjournment

12. Because there was not a Quorum, there was not a vote to adjourn. The meeting ended at 5:35PM.

MOTION: None

Discussion: None.

Vote: None

These meeting minutes represent what is presumed to be a complete and accurate account of the items reviewed, discussed, directions given and conclusions drawn unless notification to the contrary is received by the next regular construction meeting. If no notification is received, these minutes will be deemed an accurate account of the meeting.

Prepared by,
Adam Keane
LeftField LLC

BMC Durfee High School: Fall River, MA
Module 4- Schematic Design
Work Plan
Ai3 Architects, LLC
June 30, 2017

DRAFT

Item	Task	Description	Responsibility									Start Date	Finish Date
Schematic Design (Module 4)			Ai3	LF	Owner	LGCI	PARE	G&V	EDG	Wil-Spec	UEC		
Schematic Design Submittal Requirements												6/30/2017	1/3/2018
1.0	Table of Contents		x										
2.0	Introduction	Brief overview of process undertaken to advance the preferred solution through SD.	x	x									12/20/2017
2.1	Summary	Brief summary of the preferred solution approved by the MSBA's Board of Directors.	x										
2.2	Overview of Process	Overview of the process undertaken locally to educate the community including key community outreach activities, committee meetings, key votes and decisions.	x										
2.3	Total Project Budget	District's total project budget for project and steps necessary to obtain funding by district.		x									
2.4	Description of Project	Updated description of the project of the project including grades to be served, size of the site, gross square feet of the proposed building (including gross square feet of both new construction and renovated areas), total project budget, list of alternates (if none, indicated as such), construction delivery methodology.	x										
2.5	Visual Aids	Visual aids that may be suitable for presentation, including site plans, floor plans, and elevations. Also submit electronically as separate files.	x										
2.6	PSR Review & Response	Copy of the MSBA Preferred Schematic Report review and corresponding District response.	x										
2.7	Digital Files	Separate electronic files of the Visual Aids identified above for potential incorporation into Board presentation.	x										
3.0	Final Design Program		x				x					6/30/2017	12/20/2017
3.1	Architectural Characteristics	General & Specific architectural characteristics desired.	x										
3.2	Educational Space Summary	Two (2) signed copies of Educational Space Summary that reflects current design (11x17). Delineate all spaces and square footage within the current school building, all spaces and square footage planned in new/replacement/renovated areas of proposed school building, and MSBA's guidelines that are unadulterated and based on the agreed upon design enrollment. If educational space summary is different than that submitted as part of PSR, include separate narrative description of all changes and identify reasons for changes. Provide space measurement analysis and Designer certification for the design verifying that the sum of all programmed floor areas plus all other floor areas equal the gross floor area of the Final Design Program.	x										
3.3	Summary of how Project supports Districts Ed Program	Narrative describing how the proposed project supports each component of the District's educational program.	x										
3.4	Instructional Technology	Existing and Proposed Instructional Technology.	x										
3.5	Functional Relationships	Functional Relationships and Critical Adjacencies that informed the basis of design.	x										
3.6	Security and Visual Access Requirements	Confirmation that persons responsible for implementation of District's emergency procedures and responding emergency agency representatives have been consulted in planning process and associated requirements have been included in project; identification of security related items; verification that safety and security issues have been reviewed and are in accordance with District's procedures (main entrance design, classroom lockset hardware, classroom/instruction spaces visiblity, alternative entry locations); confirm optimal surveillance of building and site.	x										
3.7	Site Development Requirements	Provide a description of the total number of parking spaces, how they are distributed, and how the quantities were derived.	x				x						
3.8	Specific Features of the School	Desired visual or aesthetic focal point or features of the school.	x										
4.0	Traffic Analysis	Provide evaluation of existing traffic patterns, areas likely to be impacted by project, congestion and safety concerns, critical traffic issues to be addressed, anticipated changes in traffic volume/patterns; confirm findings and recommendations are accounted for in site plans, project budget, and project schedule; describe offsite work resulting from project and indicate if work is to be performed by District as part of project or separately. If no traffic analysis is required (no existing traffic issues and project will not impact existing conditions), provide written description of assessment and analysis used to make this determination.	x	x			x					9/18/2017	10/17/2017
5.0	Environmental & Existing Building Assessment	Describe the additional site and building assessments that quantified the presence of unsuitable materials and scope of remediation efforts. Identify the estimated costs of the results of the testing in the cost estimate.					x				x	6/30/2017	11/20/2017
6.0	Geotechnical & Geo-environmental Analysis	Describe the additional geotechnical analysis as may be required to establish soil conditions, remediation requirements and appropriate foundation requirements. Identify the estimated costs of the results of the testing in the cost estimate.				x	x					6/30/2017	9/1/2017
7.0	Code Analysis	Identify and determine the impact of all applicable federal, state, regional, and local codes, reulations, and ordinances, including a listing of permitting and other regulatory filing requirements.	x				x					11/20/2017	12/20/2017
8.0	Utility Analysis & Soils Analysis	Determine the availability and capacity of all required building utilities. Provide soils analysis and preliminary design for on-site septic/sewage treatment facilities, if required.	x			x	x					6/30/2017	9/1/2017
9.0	Massing Study	Analysis of the building's integration into its surroundings and neighborhood with drawings, photos, or models.	x									6/30/2017	9/1/2017
10.0	Narrative Building Systems Description	Describe basic information relative to the following:	x					x	x			9/1/2017	11/1/2017
10.1	Sustainable Design	Sustainable Design Elements	x										
10.2	Building Structure	Building Structure							x				
10.3	Plumbing	Plumbing (Provide Life Cycle Cost analysis pursuant to criteria of M.G.L. c. 149, § 44(m)						x					
10.4	HVAC	HVAC (Provide Life Cycle Cost analysis pursuant to criteria of M.G.L. c. 149, § 44(m)						x					
10.5	Fire Protection	Fire Protection (verify adequate water capacity for new system and confirm if a fire pump will be required)						x					
10.6	Electrical	Electrical (including power, lighting, communications, fire alarm, video/CATV, Security/ Surveillance)						x					
10.7	Technology	Information Technology	x										
11.0	Sustainable Building Design Guideline Documents	Refer to the MSBA website for MSBA's current Sustainable Design Guidelines.	x									11/1/2017	12/20/2017
11.1	Sustainable Building Design Guideline Scorecard	Completed Sustainable Building Design Guideline scorecard from the Designer showing the attempted credits to be included in the final design.	x										
11.2	Designer Certification	Signed letter from the Designer including the following statement: "This is an acknowledgment that the _____ School District has identified a goal of __% additional reimbursement from the MSBA High Efficiency Green School Program. As their Designer, I have submitted a completed _____ scorecard showing all prerequisites and ____ attempted points, which will meet that goal. The scope of work for this project will include the construction elements and performance tasks to achieve that goal, and all subsequent documents, including but not limited to, specifications, drawings, and cost estimates will match the scope of work indicated in the submitted scorecard."	x										
12.0	Compliance with ADA and MAAB	Analysis of the design's compliance with the Americans with Disabilities Act (ADA) and the Massachusetts Architectural Access Board (MAAB) requirements.	x									11/20/2017	12/20/2017
13.0	Room Data Sheets	Utility requirements; acoustic and lighting requirements; security features; surface material performance requirements; bulletin case, writing board, and tack board requirements; wall maps, projection screens, chart rails, and other fixed teaching aids together with utilities, communications and control features, and teacher demonstration areas; environmental requirements; safety and health features, gas, compressed air, water, and automatic shut-off to specialized equipment; note where automatic shutoff to specialized equipment is required; audio-visual, television access, and public address requirements as well as computer equipment and stations; equipment, furnishings, and casework; internal areas and support spaces needed; special graphics, colors, textures, and shapes; provisions for storage of staff and/or student garments and personal property; area needed for display of sutdent projects and large and small project storage; any other requirement that may be unique to the activity setting.	x										11/20/2017
14.0	Proposed Construction Methodology	Describe the criteria and analysis used by the OPM, in conjunction with the Designer, to compare the construction delivery methods for the proposed project. Include the relative advantages and disadvantages associated with each of the methods and describe the key items that led to the District's selection. If the District elected to proceed with the CM-at-Risk method, indicate when the application to proceed with the CM-at-Risk method is to be submitted to the Office of the Inspector General and anticipated notice to proceed issued by the Office of the Inspector General. Confirm that the cost estimates, proposed project schedule, estimated reimbursement rate, and total project budget spreadsheet reflect the selected construction delivery method.		x									11/20/2017
15.0	Anticipated Reimbursement Rate & Incentive Points	Provide Chart showing District's anticipated reimbursement rate with incentive points as identified in Appendix 4E.		x									12/20/2017
16.0	Total Project Budget	Complete Total Project Budget spreadsheet (see Appendix 4F) to as much detail as the drawings and specifications permit, as required by the contract. Provide a summary of the cost reconciliation between the cost estimate of the Designer's and the OPM's estimates, as applicable. Identify separate costs for: Existing Building Demolition, In Building Hazardous material abatement, Abatement of asbestos containing floor material, Abatement of Hazardous materials located outside of the building, Site costs, Off-site costs, and Alternates.		x									12/20/2017
17.0	Designers Construction Cost Estimate	Uniformat II, Level 3 format. Aggregated unit rates and quantities for each item. CSI MasterSpec format to Summary Level.	x									11/20/2017	12/20/2017
18.0	OPM Construction Cost Estimate	Uniformat II, Level 3 format. Aggregated unit rates and quantities for each item. CSI MasterSpec format to Summary Level.		x								11/20/2017	12/20/2017
19.0	Project Work Plan	Updated project work plan indicating changes or expansions associated with the following:	x	x								6/30/2017	7/30/2017
19.1	Project Directory		x	x									
19.2	Roles and Responsibilities												
19.3	Communications and Document Control Procedures												
19.4	Designer's Work Plan		x	x									
19.5	Project Schedule	The OPM shall provide a schedule in the form of a Gantt Chart of the duration of all tasks, activities, and phases of the design and construction processes against the progression of time from Feasibility Study through design, construction, substantial completion, occupancy, final completion, and project close-out. Dependencies between activities and tasks shall be delineated. Individual tasks and activities shall be rolled up to the major project milestones. Highlight priority actions and activities that may have a major impact on the schedule. The project schedule must allow adequate time for document review by the Owner and the Authority.		x									12/20/2017
20.0	Local Actions & Approvals			x	x							12/20/2014	1/3/2018
20.1	SBC Meeting Minutes	Certified copy of School Building Committee Meeting Minutes from meetings at which SD submittals were approved for submission to MSBA. Meeting Minutes must include specific language of the vote and the results of the vote, stating the number of SBC Members who voted in favor of submittal to the MSBA, the number of opposed, and the number of abstentions.		x									
20.2	SBC Presentation & Notices	List School Building Committee meeting dates, agendas, describe materials presented, and specific stakeholders in attendance, what materials were available for public review and where these materials may be viewed.		x									
20.3	Public Meeting Announcements	Provide similar information above for informational or public meetings/presentations in addition to SBC meetings.		x									
20.4	Signed Certification	Signed "Local Actions and Approvals Certification" (Appendix 4G) on District letterhead.		x	x								
21.0	Schematic Design Project Manual	Bound, 8.5"x11".	x							x		6/30/2017	11/20/2017
21.1	Project Manual	Project Manual to define scope of construction & establish the quality of materials, finishes, products, equipment and workmanship, special or unique conditions of construction.	x							x			
21.2	Proprietary Items	Provide list of all proprietary items with an explanation of each item, how it is in the public interest that proprietary items are selected over non-proprietary equivalent items.	x	x	x					x		10/1/2017	11/20/2017
21.3	Proprietary Item Certification	Provide certification that local authorization for the use of proprietary items has complied with all state laws and local regulations, policies, and guidelines.	x	x	x					x		10/1/2017	11/20/2017
22.0	Schematic Design Drawings	Bound, 18"x24" drawings.	x				x					6/30/2017	11/20/2017
22.01	Site & Civil	**Sitting analysis & content, traffic and access, topographical and utility recognition**					x						
22.02	Site & Civil	**Site Development Plan (min. scale 1"=40'-0")**					x						
22.03	Site & Civil	•Property lines with bearings and distances					x						
22.04	Site & Civil	•Building Setbacks					x						
22.05	Site & Civil	•Site Acreage					x						
22.06	Site & Civil	•Wetlands information					x						
22.07	Site & Civil	•Proposed and existing topography					x						
22.08	Site & Civil	•Proposed and existing buildings and site features					x						

Item	Task	Description	Responsibility									Start Date	Finish Date
22.09	Site & Civil	•Ground floor elevations for all buildings					x						
22.10	Site & Civil	•Proposed and existing utilities and utility connections					x						
22.11	Site & Civil	•Emergency Equipment access					x						
22.12	Site & Civil	•Future areas of expansion					x						
22.13	Architectural	**Schematic Building Floor Plans of all floors and roof at a min. scale of 1/16"=1'-0"**	x										
22.14	Architectural	•Gross SF of each floor and net SF of each space	x										
22.15	Architectural	•Response to functional requirements of program	x										
22.16	Architectural	•Response to major and minor access and circulation	x										
22.17	Architectural	**Room Data Sheets**	x										
22.18	Architectural	•Utility requirements-Number of electrical outlets needed and locations	x										
22.19	Architectural	•Security features - lockdown hardware, concealment and escape options, operable shades or blinds, hardening materials, ventilation controls, alarm and communication systems interface as applicable to the occupancy	x										
22.20	Architectural	•Acoustic and lighting requirements	x										
22.21	Architectural	•Surface material performance for floors, walls and ceilings, mounting height specific for size of students	x										
22.22	Architectural	•Bulletin case, writing board and tack board requirements	x										
22.23	Architectural	•Wall maps, projection screens, chart rails, and other fixed teaching aids together with utilities, communications and control features and note teacher demonstration areas if required.	x										
22.24	Architectural	•Environmental requirements such as special ventilation & exhaust, natural lighting, special heating & heat control	x										
22.25	Architectural	•Safety & health features, gas, compressed air and water, automatic shutoff, emergency eye wash, fume hoods, ventilation in shops and/or labs	x										
22.26	Architectural	•Note where instructor controls gas, compressed air and water,	x										
22.27	Architectural	•Note where automatic shutoff to specialized equipment is required i.e., saws, lathes, etc.	x										
22.28	Architectural	•Audio-visual, television access and public access requirements, computer equipment & stations.	x										
22.29	Architectural	•Equipment furnishings and casework	x										
22.30	Architectural	•Internal areas and support spaces needed, general storage requirements for each space	x										
22.31	Architectural	•Special graphics, colors, textures and shapes. (SPED and Primary Classrooms)	x										
22.32	Architectural	•Storage for Staff and/or student garment and personal property	x										
22.33	Architectural	•Display for student projects; Storage for large and small student projects	x										
22.34	Architectural	**Interior elevations of typical general classroom , and Science Classrooms/Labs.**	x										
22.35	Architectural	**Schematic exterior building elevations for all sides, indicate all exterior finishes and fenestration.**	x										
22.36	Architectural	Schematic exterior building elevations for all sides, indicate all exterior finishes and fenestration.	x										
23.0	Schematic Design Module 4 Submittals		x	x	x								1/3/2018
23.1	DESE Submittal	DESE Submittal following Appendix 4B: Cover Letter, SPED Delivery Methodology letter (include Current Program, Proposed Program, Specialized Programs), Signed Educational Space Summary, Floor Plans, SPED Adjacency Table.	x	x	x							11/1/2017	12/1/2017
		OPM to submit three (3) complete hard copies and one (1) electronic copy on a CD to the MSBA.											
		Also to be included within the tabbed SD submittal binder as a removable "stand alone" submittal.											
		Shall NOT be submitted directly to the DESE (MSBA will forward).											
23.2	Cost Estimate Submittals	**Schematic Design Submittal Notification Template (Appendix 4C)** Minimum 10 days prior to MSBA Submittal: Submit Cost Estimates (OPM & Designer), Estimated Project Cost, District's Project Budget, Confirmation of District's and Consultants Submittal Date to MSBA, Total Project Budget Submittal	x	x									12/20/2017
23.3	MSBA Staff Review	Submit Schematic Design for MSBA Staff Review		x								1/3/2018	2/7/2018
23.4	Facilities Assessment Subcommittee Review	Facilities Assessment Subcommittee review by MSBA		x									
23.5	Project Scope & Budget Conference	MSBA directed meeting with OPM, Architect, and District		x									
23.6	MSBA Board Approval	MSBA Board of Director's meeting to approve Schematic Design											

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BMC Durfee High School - Fall River, MA — **August 31, 2017**

Total Project Budget Status Report

ProPay Code	Description	Total Project Budget	Authorized Changes	Revised Total Budget	Total Committed	% Cmtd to Date	Actual Spent to Date	% Spent to Date	Balance To Spend	Comments
	FEASIBILITY STUDY AGREEMENT									
0001-0000	OPM Feasibility Study/Schematic Design	$ 280,000	$ 50,500	$ 330,500	$ 330,500	100%	$ 255,250	77%	$ 75,250	*FSA 1, 2
0002-0000	A&E Feasibility Study/Schematic Design	$ 570,000	$ 99,500	$ 669,500	$ 669,500	100%	$ 469,191	70%	$ 200,309	*FSA 1, 2
0003-0000	Environmental & Site	$ 120,000	$ (120,000)	$ -	$ -		$ -		$ -	*FSA 1, 2
0004-0000	Other	$ 30,000	$ (30,000)	$ -	$ -		$ -		$ -	*FSA 2
	SUB-TOTAL	$ 1,000,000	$ -	$ 1,000,000	$ 1,000,000	100%	$ 724,441	72%	$ 275,559	
	TOTAL PROJECT BUDGET	**$ 1,000,000**	**$ -**	**$ 1,000,000**	**$ 1,000,000**	**100%**	**$ 724,441**	**72%**	**$ 275,559**	

FUNDING SOURCES	Max w/ Conting.	Max w/o Conting.
Maximum State Share	$ 795,800	$ 795,800
Local Share *	$ 204,200	$ 204,200
SUB-TOTAL	$ 1,000,000	$ 1,000,000

Project Budget	Scope Items Excluded	Contingencies	Basis of Total Facilities Grant	Reimbursement Rate
$ 1,000,000	$ -	$ -	$ 1,000,000	79.58%

CONSTR. COST ESTIMATES	Date	Estimator	Amount	SF	Cost Per SF
Designer FS Cost Estimate	06/13/17	PM&C	$190,119,276	497,000	$382.53
Designer SD Cost Estimate					#DIV/0!
OPM SD Cost Estimate					#DIV/0!

Feasibility Study Agreement Budget Transfers:

FSA BRR 01 7/7/2016 Transfer $50,000 from Environmental & Site to OPM Feasibility Study/Schematic Design; transfer $20,000 from A/E Feasibility Study/Schematic Design to OPM Feasibility Study/Schematic Design. **APPROVED by MSBA 11/8/16**

FSA BRR 02 2/3/2017 Transfer $70,000 from Environmental & Site, transfer $30,000 from Other , and transfer $19,500 from OPM Feasibility Study/Schematic Design to to A/E Feasibility Study/Schematic Design to fulfill A/E Contract Requirements. **APPROVED by MSBA 8/10/17**

Project Funding Agreement Budget Transfers:

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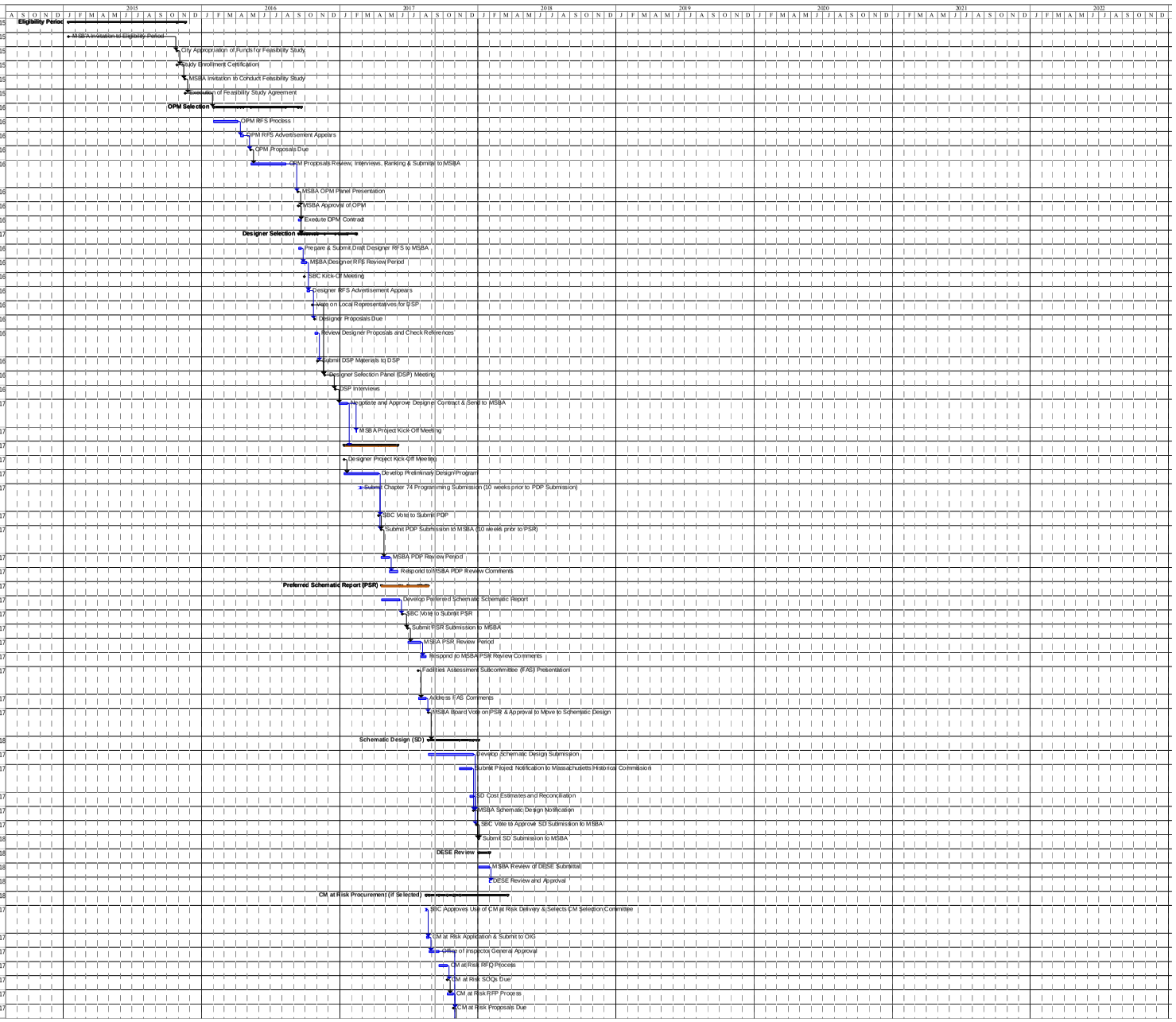
FALL RIVER - BMC DURFEE HIGH SCHOOL
PRELIMINARY PROJECT SCHEDULE
Feasibility Study: Schematic Design Phase - August 31, 2017

ID	Task Name	Start	Finish
1	Eligibility Period	Wed 1/14/15	Thu 11/19/15
2	MSBA Invitation to Eligibility Period	Wed 1/14/15	Wed 1/14/15
3	City Appropriation of Funds for Feasibility Study	Wed 10/28/15	Wed 10/28/15
4	Study Enrollment Certification	Wed 10/28/15	Wed 10/28/15
5	MSBA Invitation to Conduct Feasibility Study	Wed 11/18/15	Wed 11/18/15
6	Execution of Feasibility Study Agreement	Thu 11/19/15	Thu 11/19/15
7	OPM Selection	Tue 2/2/16	Tue 9/20/16
8	OPM RFS Process	Tue 2/2/16	Tue 4/5/16
9	OPM RFS Advertisement Appears	Wed 4/13/16	Wed 4/20/16
10	OPM Proposals Due	Tue 5/10/16	Tue 5/10/16
11	OPM Proposals Review, Interviews, Ranking & Submital to MSBA	Wed 5/11/16	Wed 8/10/16
12	MSBA OPM Panel Presentation	Mon 9/12/16	Mon 9/12/16
13	MSBA Approval of OPM	Tue 9/13/16	Tue 9/13/16
14	Execute OPM Contract	Tue 9/13/16	Tue 9/20/16
15	Designer Selection	Wed 9/14/16	Mon 2/13/17
16	Prepare & Submit Draft Designer RFS to MSBA	Wed 9/14/16	Tue 9/20/16
17	MSBA Designer RFS Review Period	Wed 9/21/16	Tue 10/4/16
18	SBC Kick-Of Meeting	Thu 9/29/16	Thu 9/29/16
19	Designer RFS Advertisement Appears	Thu 10/6/16	Wed 10/12/16
20	Vote on Local Representatives for DSP	Thu 10/20/16	Thu 10/20/16
21	Designer Proposals Due	Wed 10/26/16	Wed 10/26/16
22	Review Designer Proposals and Check References	Thu 10/27/16	Wed 11/2/16
23	Submit DSP Materials to DSP	Thu 11/3/16	Thu 11/3/16
24	Designer Selection Panel (DSP) Meeting	Tue 11/22/16	Tue 11/22/16
25	DSP Interviews	Tue 12/20/16	Tue 12/20/16
26	Negotiate and Approve Designer Contract & Send to MSBA	Fri 12/30/16	Fri 1/20/17
27	MSBA Project Kick-Off Meeting	Mon 2/13/17	Mon 2/13/17
28	Preliminary Design Program (PDP)	Thu 1/12/17	Fri 6/2/17
29	Designer Project Kick-Off Meeting	Thu 1/12/17	Thu 1/12/17
30	Develop Preliminary Design Program	Thu 1/12/17	Wed 4/12/17
31	Submit Chapter 74 Programming Submission (10 weeks prior to PDP Submission)	Fri 2/24/17	Fri 2/24/17
32	SBC Vote to Submit PDP	Thu 4/13/17	Thu 4/13/17
33	Submit PDP Submission to MSBA (10 weeks prior to PSR)	Thu 4/20/17	Thu 4/20/17
34	MSBA PDP Review Period	Thu 4/20/17	Thu 5/11/17
35	Respond to MSBA PDP Review Comments	Fri 5/12/17	Fri 6/2/17
36	Preferred Schematic Report (PSR)	Fri 4/21/17	Wed 8/23/17
37	Develop Preferred Schematic Schematic Report	Fri 4/21/17	Wed 6/7/17
38	SBC Vote to Submit PSR	Thu 6/15/17	Thu 6/15/17
39	Submit PSR Submission to MSBA	Thu 6/29/17	Thu 6/29/17
40	MSBA PSR Review Period	Fri 6/30/17	Wed 8/2/17
41	Respond to MSBA PSR Review Comments	Thu 8/3/17	Wed 8/16/17
42	Facilities Assessment Subcommittee (FAS) Presentation	Thu 7/27/17	Thu 7/27/17
43	Address FAS Comments	Fri 7/28/17	Wed 8/16/17
44	MSBA Board Vote on PSR & Approval to Move to Schematic Design	Wed 8/23/17	Wed 8/23/17
45	Schematic Design (SD)	Wed 8/23/17	Wed 1/3/18
46	Develop Schematic Design Submission	Wed 8/23/17	Tue 12/19/17
47	Submit Project Notification to Massachusetts Historical Commission	Mon 11/13/17	Fri 12/15/17
48	SD Cost Estimates and Reconciliation	Mon 12/11/17	Tue 12/19/17
49	MSBA Schematic Design Notification	Wed 12/20/17	Wed 12/20/17
50	SBC Vote to Approve SD Submission to MSBA	Thu 12/28/17	Thu 12/28/17
51	Submit SD Submission to MSBA	Wed 1/3/18	Wed 1/3/18
52	DESE Review	Wed 1/3/18	Wed 1/31/18
53	MSBA Review of DESE Submittal	Wed 1/3/18	Tue 1/30/18
54	DESE Review and Approval	Wed 1/31/18	Wed 1/31/18
55	CM at Risk Procurement (if Selected)	Thu 8/17/17	Tue 3/20/18
56	SBC Approves Use of CM at Risk Delivery & Selects CM Selection Committee	Thu 8/17/17	Thu 8/17/17
57	CM at Risk Application & Submit to OIG	Fri 8/18/17	Thu 8/24/17
58	Office of Inspector General Approval	Fri 8/25/17	Tue 9/19/17
59	CM at Risk RFQ Process	Wed 9/20/17	Wed 10/11/17
60	CM at Risk SOQs Due	Wed 10/11/17	Wed 10/11/17
61	CM at Risk RFP Process	Thu 10/12/17	Fri 10/27/17
62	CM at Risk Proposals Due	Fri 10/27/17	Fri 10/27/17



Critical Critical Progress Split Inactive Task Inactive Milestone Inactive Summary Manual Task Duration-only Manual Summary Rollup Manual Summary Start-only Finish-only External Tasks External Milestone Baseline Slippage

Revised 1/23/12

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Module 4 – Schematic Design | 850 | Ai3 Architects, LLC

BMC DURFEE HIGH SCHOOL

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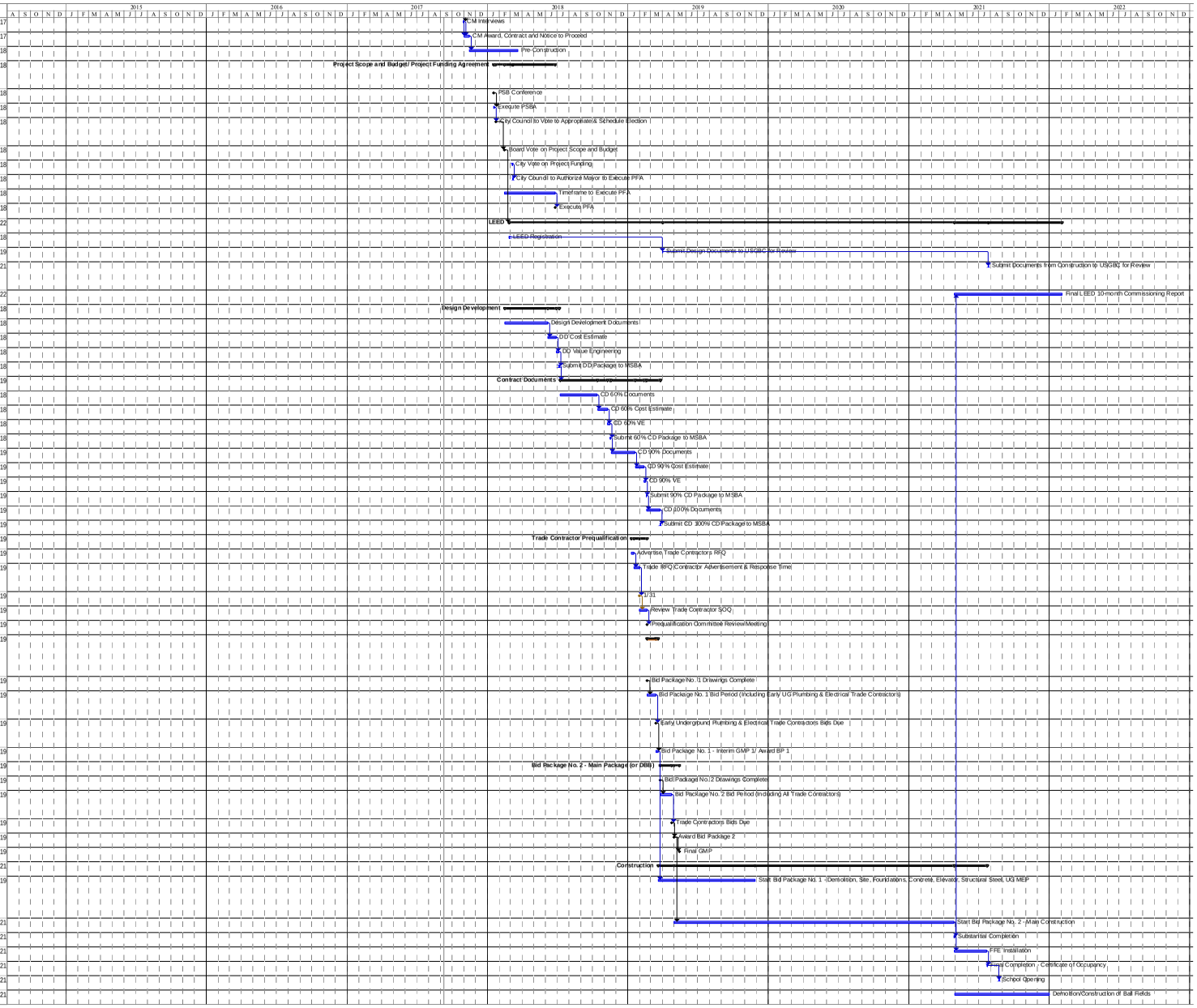
FALL RIVER - BMC DURFEE HIGH SCHOOL
PRELIMINARY PROJECT SCHEDULE
Feasibility Study: Schematic Design Phase - August 31, 2017

ID	Task Name	Start	Finish
63	CM Interviews	Mon 10/30/17	Tue 10/31/17
64	CM Award, Contract and Notice to Proceed	Wed 11/1/17	Tue 11/14/17
65	Pre-Construction	Wed 11/15/17	Tue 3/2/18
66	Project Scope and Budget/ Project Funding Agreement	Wed 1/17/18	Mon 6/25/18
67	PSB Conference	Wed 1/17/18	Wed 1/17/18
68	Execute PSBA	Wed 1/17/18	Thu 1/18/18
69	City Council to Vote to Appropriate & Schedule Election	Tue 1/23/18	Tue 1/23/18
70	Board Vote on Project Scope and Budget	Wed 2/14/18	Wed 2/14/18
71	City Vote on Project Funding	Tue 3/6/18	Tue 3/6/18
72	City Council to Authorize Mayor to Execute PFA	Thu 3/8/18	Thu 3/8/18
73	Timeframe to Execute PFA	Wed 2/14/18	Mon 6/25/18
74	Execute PFA	Mon 6/25/18	Mon 6/25/18
75	LEED	Mon 2/26/18	Wed 2/2/22
76	LEED Registration	Mon 2/26/18	Mon 2/26/18
77	Submit Design Documents to USGBC for Review	Mon 4/1/19	Mon 4/1/19
78	Submit Documents from Construction to USGBC for Review	Mon 7/26/21	Mon 7/26/21
79	Final LEED 10-month Commissioning Report	Thu 4/29/21	Wed 2/2/22
80	Design Development	Thu 2/15/18	Fri 7/6/18
81	Design Development Documents	Thu 2/15/18	Wed 6/6/18
82	DD Cost Estimate	Thu 6/7/18	Thu 6/28/18
83	DD Value Engineering	Fri 6/29/18	Thu 7/5/18
84	Submit DD Package to MSBA	Fri 7/6/18	Fri 7/6/18
85	Contract Documents	Mon 7/9/18	Tue 3/26/19
86	CD 60% Documents	Mon 7/9/18	Fri 10/12/18
87	CD 60% Cost Estimate	Mon 10/15/18	Thu 11/8/18
88	CD 60% VE	Fri 11/9/18	Thu 11/15/18
89	Submit 60% CD Package to MSBA	Fri 11/16/18	Fri 11/16/18
90	CD 90% Documents	Mon 11/19/18	Fri 1/18/19
91	CD 90% Cost Estimate	Mon 1/21/19	Mon 2/11/19
92	CD 90% VE	Tue 2/12/19	Fri 2/15/19
93	Submit 90% CD Package to MSBA	Mon 2/18/19	Mon 2/18/19
94	CD 100% Documents	Tue 2/19/19	Mon 3/25/19
95	Submit CD 100% CD Package to MSBA	Tue 3/26/19	Tue 3/26/19
96	Trade Contractor Prequalification	Thu 1/10/19	Tue 2/19/19
97	Advertise Trade Contractors RFQ	Thu 1/10/19	Wed 1/16/19
98	Trade RFQ Contractor Advertisement & Response Time	Thu 1/17/19	Thu 1/31/19
99	Trade Contractors SOQ Due	Thu 1/31/19	Thu 1/31/19
100	Review Trade Contractor SOQ	Thu 1/31/19	Tue 2/19/19
101	Prequalification Committee Review Meeting	Tue 2/19/19	Tue 2/19/19
102	Bid Package No. 1-Site, Foundations, Concrete, Elevator, Structural Steel, UG Electrical & Plumbing	Wed 2/20/19	Wed 3/20/19
103	Bid Package No. 1 Drawings Complete	Wed 2/20/19	Wed 2/20/19
104	Bid Package No. 1 Bid Period (Including Early UG Plumbing & Electrical Trade Contractors)	Wed 2/20/19	Thu 3/14/19
105	Early Underground Plumbing & Electrical Trade Contractors Bids Due	Thu 3/14/19	Thu 3/14/19
106	Bid Package No. 1 - Interim GMP 1/ Award BP 1	Fri 3/15/19	Wed 3/20/19
107	Bid Package No. 2 - Main Package (or DBB)	Tue 3/26/19	Wed 5/15/19
108	Bid Package No. 2 Drawings Complete	Tue 3/26/19	Tue 3/26/19
109	Bid Package No. 2 Bid Period (Including All Trade Contractors)	Wed 3/27/19	Wed 4/24/19
110	Trade Contractors Bids Due	Wed 4/24/19	Wed 4/24/19
111	Award Bid Package 2	Wed 5/1/19	Wed 5/1/19
112	Final GMP	Wed 5/15/19	Wed 5/15/19
113	Construction	Thu 3/21/19	Fri 7/23/21
114	Start Bid Package No. 1 - Demolition, Site, Foundations, Concrete, Elevator, Structural Steel, UG MEP	Thu 3/21/19	Wed 11/27/19
115	Start Bid Package No. 2 - Main Construction	Wed 5/1/19	Tue 4/27/21
116	Substantial Completion	Wed 4/28/21	Wed 4/28/21
117	FFE Installation	Thu 4/29/21	Wed 7/21/21
118	Final Completion - Certificate of Occupancy	Fri 7/23/21	Fri 7/23/21
119	School Opening	Mon 8/23/21	Mon 8/23/21
120	Demolition/Construction of Ball Fields	Fri 4/30/21	Fri 12/31/21



Inactive Task | Inactive Milestone | Inactive Summary | Manual Task | Duration-only | Manual Summary Rollup | Manual Summary | Start only | Finish only | Baseline | Slippage

Revised 11/28/12

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BMC DURFEE HIGH SCHOOL

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B.M.C. DURFEE HIGH SCHOOL – Fall River, MA

SCHOOL BUILDING COMMITTEE MEETING NO. 14

Thursday, October 12, 2017 Durfee High School - Library 4:30 PM

Agenda

1. Administrative Actions
   - Vote to Approve the September 14, 2017 Meeting Minutes

2. Community Engagement
   - Facebook, Twittter, Website, Print Update
   - Public Forum – Flyer

3. Schematic Design (SD)
   - Schematic Design Update
     - Recent Programming Meetings (Layouts, Adjacencies, Relationships)
     - Traffic Study
     - Durfee Bells
     - Update on Presentation to School Committee
   - Review Times/Topics for Upcoming Programming Meetings
   - Design/Bid/Build versus Construction Management at Risk Construction Delivery Discussion
     - Vote on Construction Delivery Method
     - Determine and Vote on Prequalification Committee

4. Schedule Update
   - Review Project Schedule
   - Review Timeline and Milestones to get to the Public Vote as Submitted to MSBA
   - Important Upcoming Milestone Dates
     - Schematic Design Timeline (August 24, 2017 – January 3, 2018)
     - Public Forum No. 3 - October 12, 2017 at 6:30 PM
     - Milestones to be Established based on Construction Delivery Method Selected
     - Submission to Massachusetts Historical Commission Project Notification – November 13, 2017
     - Notification of Schematic Design Submission Budget to MSBA – December 20, 2017

5. Budget Update
   - Review Total Project Budget

6. Other Business/Discussions

7. Next SBC Meeting
   - SBC Meeting November 9, 2017 4:30 PM Durfee HS Library

ADA Coordinator: Gary P. Howayeck, Esq. 508-324-2650
One Government Center – Fall River, MA 02722
TEL 508-324-220 – FAX 508-324-2211 – EMAIL city_clerks@fallriverma.org

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THE RIGHT CHOICE IN PROJECT MANAGEMENT

BMS Durfee High School – Fall River, MA	MEETING MINUTES

SCHOOL BUILDING COMMITTEE MEETING NO. 13	September 14, 2017
Location:	Durfee High School Library
Time:	4:30 PM

Attendees:

Name	Assoc.	Present
Jasiel F. Correia II	Mayor, City of Fall River	N
Cathy Ann Viveiros	City of Fall River, City Administrator	N
Rhonda Pinnell	City of Fall River, Purchasing Agent	N
Tim McCoy	City of Fall River, Purchasing Agent FRHA	N
Chris Gallagher	City of Fall River, Director of Building and Grounds	Y
Carole Fiola	Mass. State Rep.	Y
Matt Malone	Fall River School Dept, Superintendent of Schools	Y
Ken Pacheco	Fall River School Dept., Co-Chair, Chief of Operations FRPS	Y
Joseph Camara	City Councilor and Co-Chair	N
Mark Costa	Fall River School Dept. School Committee, Vice Chair	N
Ed Costar	Fall River School Dept., School Committee	Y
Matthew Desmarais	Fall River School Dept., Durfee High Interim Principal	Y
Shayna Morgan	Fall River School Dept., Director of Operations Durfee High	Y
Michael Costa	Fall River School Dept., Teacher at Durfee High	Y
Gary Bigelow	Fall River School Dept., Teacher at Durfee High	Y
Nick Christ	Baycoast Bank, CEO Baycoast Bank	Y
Michael Keane	Civitech Architects, Owner	N
Brantley Hunsinger	B-Tech Construction, Owner	N
Tammy Moutinho	Buildings and Grounds, Admin.	Y
Lauren Correa	Student	N
Catarina Pereira	Student	N
Jensen Riley	Student	N
Scott Dunlap	Ai3, Project Architect	N
Troy Randall	Ai3, Project Architect	Y
Craig Olsen	Ai3, Project Architect	Y
Sally Cameron	ThreeC Strategy	Y
Jim Rogers	LeftField, Owner	Y
Lynn Stapleton	LeftField, Project Executive	Y
Adam Keane	LeftField, Project Manager	Y
Paul Gransaull	LeftField, Project Manager	Y

- Voting Members indicated in **bold**

BMC Durfee High School – School Building Committee Meeting No. 13

The School Building Committee Chair, K. Pacheco, called the meeting to order at 4:39 PM.

I. Approval of Meeting Minutes

1. The following motions and votes were made:

MOTION: M. Desmarais moved, seconded by N. Christ, that the Durfee High School Building Committee approve the July 12, 2017 SBC Meeting Minutes.
Discussion: None.

The Durfee High School Building Committee voted to approve the July 12, 2017 SBC Meeting Minutes.
For: 9 – Oppose: 0 – Abstained: 0

MOTION: E. Costar moved, seconded by M. Desmarais, that the Durfee High School Building Committee approve the August 10, 2017 SBC Meeting Minutes.
Discussion: None.

The Durfee High School Building Committee voted to approve the August 10, 2017 SBC Meeting Minutes.
For: 9 – Oppose: 0 – Abstained: 0

II. Community Engagement

2. S. Cameron noted there is continued good response to the Facebook page. E. Costar stated that "Durfee Chimes", an alumnae group, is writing an article on the new school for their annual newsletter. He will provide the article for posting on the project's website.

3. A. Keane noted that the next Public Forum is scheduled for October 12, 2017 in the Durfee HS Auditorium from 6:30pm to 8:00pm. A notification flyer with the agenda will be circulated and officially posted. The flyer will also be posted on the project's website.

III. Schematic Design

4. An update on the MSBA comments on the Preferred Schematic Report and the MSBA Board approval of the preferred design was provided by A. Keane. After MSBA Board approval on August 23, 2017, the Project team began work on the Schematic Design (SD) Phase.

5. T. Randall stated that the SD Phase was underway and meetings will be scheduled to continue to gain insight for further development of the plans and site. The first of these meetings are scheduled for 9/18/17 and 9/19/17. Ai3 will meet with the Durfee staff to conduct detailed programming of each space. These meetings will continue through the SD Phase.

6. T. Randall noted that Ai3 is currently conducting a Traffic Study of the traffic flow, counts and times on the streets bordering the school property and the streets feeding in from the neighborhood. This information will be used to inform the site vehicular design, bus access, and student drop-off, etc.

7. At the last meeting, the presentation of the building design regarding the inclusion of the Durfee Bells was well received by Les Cory and the Durfee High School Historic Bells Committee but with concern about the money invested in the bell tower and the memory walk. It was noted that the memorial brick could be preserved and re-used at the new school's entrance plaza and that the bell tower could be relocated for a future use. The presentation of the design to the School Committee on 9/11/17 was also well received.

8. L. Stapleton noted that the Project's budget and notification of the project's SD Submission had to be submitted to MSBA two weeks in advance of the SD Submission which is December 20, 2017. Therefore, the SBC will need to take a vote before 12/20/17 to approve the SD Submission, specifically the budget and scope (Site Design, Building design, Floor Plans, Building Exterior, Space Programming, etc.) The SD budget sets the budget for the remainder of the project and is the budget from which MSBA establishes it participation in costs.

9. A. Eddy conducted a presentation on the landscape and building siting design to date. He noted that parking will increase from the current 870 spaces to the new 760 spaces and with the parking at the auditorium, there will be a combined total of approximately 1,200 new parking spaces on the site. He noted that the grade differential across the site will be addressed by the use of transitory landforms and terraces. The two courtyards within the new school will require programming input from both Faculty and Staff. It will be important to have an educational function to these courtyard spaces.

10. L. Stapleton stated that the SBC will need to select a construction delivery method (Design – Bid - Build or Construction Management at Risk) and then record their selection with a vote. A brief discussion ensued on the details of the two methods. LeftField will develop a list of the positives and negatives of each and circulate to the Committee before the next meeting on October 12, 2017 at which a vote will be requested.

IV. Schedule Update

11. A. Keane gave the following review of upcoming milestone dates:
    - Schematic Design timeline – 8/24/17 to 1/3/18
    - Public Forum #3 – 10/12/17
    - Public vote on funding – March 6, 2018

V. Project Funding & Project Budget Update

12. The Total Project Budget Status Report was reviewed and it was noted that the project had spent 72% of its budget with three months remaining in the SD Phase.

13. BRR #2 which establishes the budget we have been operating under was approved by the MSBA and the transfer will be entered into ProPay. This formalizes the established budget.

VI. Other Business/Discussion

14. None.

VII. Next Meetings

15. The next meeting of the full SBC is scheduled for October 12, 2017 at 4:30 PM in the Durfee High School Library.

VIII. Adjournment

16. The following motion and vote were made:

MOTION: E. Costar moved and M. Costa seconded, that the School Building Committee vote to adjourn the meeting at 5:55 PM.

The Durfee School Building Committee voted unanimously to adjourn the meeting at 5:55pm. For: 9 – Oppose: 0 – Abstained: 0

These meeting minutes represent what is presumed to be a complete and accurate account of the items reviewed, discussed, directions given and conclusions drawn unless notification to the contrary is received by the next regular construction meeting. If no notification is received, these minutes will be deemed an accurate account of the meeting.

Prepared by,
Paul Gransaull
LeftField LLC

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BMC DURFEE HIGH SCHOOL – Fall River, MA

CONSTRUCTON DELIVERY METHODS

SBC Meeting October 12, 2017

Design-Bid-Build (DBB) and Construction Manager at Risk (CMR) Advantages & Disadvantages

Design-Bid-Build (DBB):

Advantages

1. Lower Initial Price
2. Lump Sum Price set prior to construction start
3. Simpler, more streamlined approach
4. Can prequalify bidders to select qualified General Contractors
5. One single bid period after construction documents are 100% complete

Disadvantages

1. No choice in General Contractor; low bid selects
2. All modifications or changes result in change orders with no ability for flexibility within the lump sum bid price
3. The ability to bond a project of the estimated value limits General Contractors that have the bonding capacity to bid either based on their single project limit or considering their aggregate limit
4. Potential for joint ventures between companies bidding to acquire bonding (could be newly formed joint ventures with no track record of working together)
5. Does not allow for early bid packages which save a year in the construction timeline

Construction Manager at Risk (CMR):

Advantages

1. Typically higher initial cost but generally comparable in the long run once the ability to accelerate construction and the savings in escalation are factored
2. Larger pool of CMs with the bonding capacity which will result in more competition; ability to select CM and subcontractors based on qualifications and fee
3. Ability to work to the budget; open book accounting and greater ability to negotiate changes
4. Typically greater management of the process; CM comes on board during design and assists in the development of the construction documents; has working knowledge of the documents in advance of bidding; Project Team approach in all aspects
5. Earlier cohesive planning for occupied phasing; CM owns approach and logistics and can coordinate with A/E
6. CM is part of the bid process; Project Team works together to establish the Guaranteed Maximum Price (GMP)
7. Allows for early bid packages to accelerate construction schedule/completion; saving in escalation costs and earlier occupancy

Disadvantages

1. Multiple bid packages required; additional work for the Project Team
2. Bidding of construction documents at less than 100% complete requiring extra due diligence in covering complete scope of work
3. Higher management fees due to more management personnel typically assigned to coordinate with the Project Team, school and City from early in design through closeout of the project

NEW DURFEE HIGH SCHOOL PROJECT

Please join the

City of Fall River, Fall River Public Schools and the Durfee School Building Committee for

PUBLIC FORUM #3

Thursday, October 12, 2017

6:30 PM – 8:00 PM

Durfee High School Auditorium

We need your input as we develop the preferred option and site layout. The ultimate goal is to arrive at an appropriate comprehensive high school design that will provide a positive, 21st century learning environment for our students.

The Durfee High School Project will benefit the entire Fall River Community by improving and increasing educational opportunities for our students.

Agenda:

Durfee Bells & Historical Influences

Site Schematic Design

Building Schematic Design

Project Schedule Update

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Massachusetts School Building Authority

Ai3 architects

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BMC Durfee High School - Fall River, MA — **September 30, 2017**

Total Project Budget Status Report

ProPay Code	Description	Total Project Budget	Authorized Changes	Revised Total Budget	Total Committed	% Cmtd to Date	Actual Spent to Date	% Spent to Date	Balance To Spend	Comments
	FEASIBILITY STUDY AGREEMENT									
0001-0000	OPM Feasibility Study/Schematic Design	$ 280,000	$ 50,500	$ 330,500	$ 330,500	100%	$ 271,250	82%	$ 59,250	*FSA 1, 2
0002-0000	A&E Feasibility Study/Schematic Design	$ 570,000	$ 99,500	$ 669,500	$ 669,500	100%	$ 579,179	87%	$ 90,321	*FSA 1, 2
0003-0000	Environmental & Site	$ 120,000	$ (120,000)	$ -	$ -		$ -		$ -	*FSA 1, 2
0004-0000	Other	$ 30,000	$ (30,000)	$ -	$ -		$ -		$ -	*FSA 2
	SUB-TOTAL	$ 1,000,000	$ -	$ 1,000,000	$ 1,000,000	100%	$ 850,429	85%	$ 149,571	
	TOTAL PROJECT BUDGET	**$ 1,000,000**	**$ -**	**$ 1,000,000**	**$ 1,000,000**	**100%**	**$ 850,429**	**85%**	**$ 149,571**	

FUNDING SOURCES	Max w/ Conting.	Max w/o Conting.
Maximum State Share	$ 795,800	$ 795,800
Local Share *	$ 204,200	$ 204,200
SUB-TOTAL	$ 1,000,000	$ 1,000,000

Project Budget	Scope Items Excluded	Contingencies	Basis of Total Facilities Grant	Reimbursement Rate
$ 1,000,000	$ -	$ -	$ 1,000,000	79.58%

CONSTR. COST ESTIMATES	Date	Estimator	Amount	SF	Cost Per SF
Designer FS Cost Estimate	06/13/17	PM&C	$190,119,276	497,000	$382.53
Designer SD Cost Estimate					#DIV/0!
OPM SD Cost Estimate					#DIV/0!

Feasibility Study Agreement Budget Transfers:

FSA BRR 01 7/7/2016 Transfer $50,000 from Environmental & Site to OPM Feasibility Study/Schematic Design; transfer $20,000 from A/E Feasibility Study/Schematic Design to OPM Feasibility Study/Schematic Design. **APPROVED by MSBA 11/8/16**

FSA BRR 02 2/3/2017 Transfer $70,000 from Environmental & Site, transfer $30,000 from Other , and transfer $19,500 from OPM Feasibility Study/Schematic Design to to A/E Feasibility Study/Schematic Design to fulfill A/E Contract Requirements. **APPROVED by MSBA 8/10/17**

Project Funding Agreement Budget Transfers:

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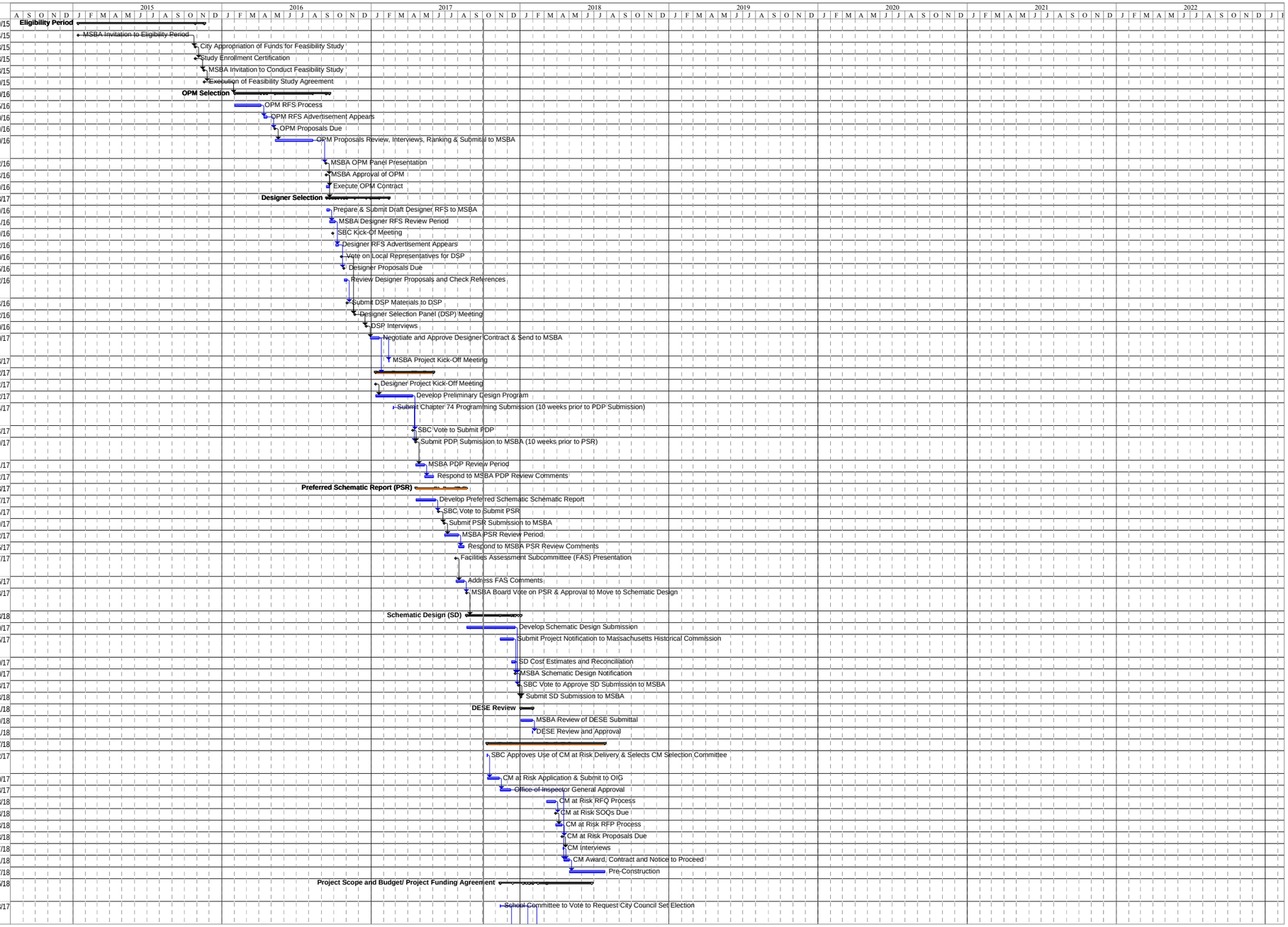
FALL RIVER - BMC DURFEE HIGH SCHOOL
PRELIMINARY PROJECT SCHEDULE
Feasibility Study: Schematic Design Phase - September 30, 2017

ID	Task Name	Start	Finish
1	Eligibility Period	Wed 1/14/15	Thu 11/19/15
2	MSBA Invitation to Eligibility Period	Wed 1/14/15	Wed 1/14/15
3	City Appropriation of Funds for Feasibility Study	Wed 10/28/15	Wed 10/28/15
4	Study Enrollment Certification	Wed 10/28/15	Wed 10/28/15
5	MSBA Invitation to Conduct Feasibility Study	Wed 11/18/15	Wed 11/18/15
6	Execution of Feasibility Study Agreement	Thu 11/19/15	Thu 11/19/15
7	OPM Selection	Tue 2/2/16	Tue 9/20/16
8	OPM RFS Process	Tue 2/2/16	Tue 4/5/16
9	OPM RFS Advertisement Appears	Wed 4/13/16	Wed 4/20/16
10	OPM Proposals Due	Tue 5/10/16	Tue 5/10/16
11	OPM Proposals Review, Interviews, Ranking & Submital to MSBA	Wed 5/11/16	Wed 8/10/16
12	MSBA OPM Panel Presentation	Mon 9/12/16	Mon 9/12/16
13	MSBA Approval of OPM	Tue 9/13/16	Tue 9/13/16
14	Execute OPM Contract	Tue 9/13/16	Tue 9/20/16
15	Designer Selection	Wed 9/14/16	Mon 2/13/17
16	Prepare & Submit Draft Designer RFS to MSBA	Wed 9/14/16	Tue 9/20/16
17	MSBA Designer RFS Review Period	Wed 9/21/16	Tue 10/4/16
18	SBC Kick-Of Meeting	Thu 9/29/16	Thu 9/29/16
19	Designer RFS Advertisement Appears	Thu 10/6/16	Wed 10/12/16
20	Vote on Local Representatives for DSP	Thu 10/20/16	Thu 10/20/16
21	Designer Proposals Due	Wed 10/26/16	Wed 10/26/16
22	Review Designer Proposals and Check References	Thu 10/27/16	Wed 11/2/16
23	Submit DSP Materials to DSP	Thu 11/3/16	Thu 11/3/16
24	Designer Selection Panel (DSP) Meeting	Tue 11/22/16	Tue 11/22/16
25	DSP Interviews	Tue 12/20/16	Tue 12/20/16
26	Negotiate and Approve Designer Contract & Send to MSBA	Fri 12/30/16	Fri 1/20/17
27	MSBA Project Kick-Off Meeting	Mon 2/13/17	Mon 2/13/17
28	Preliminary Design Program (PDP)	Thu 1/12/17	Fri 6/2/17
29	Designer Project Kick-Off Meeting	Thu 1/12/17	Thu 1/12/17
30	Develop Preliminary Design Program	Thu 1/12/17	Wed 4/12/17
31	Submit Chapter 74 Programming Submission (10 weeks prior to PDP Submission)	Fri 2/24/17	Fri 2/24/17
32	SBC Vote to Submit PDP	Thu 4/13/17	Thu 4/13/17
33	Submit PDP Submission to MSBA (10 weeks prior to PSR)	Thu 4/20/17	Thu 4/20/17
34	MSBA PDP Review Period	Thu 4/20/17	Thu 5/11/17
35	Respond to MSBA PDP Review Comments	Fri 5/12/17	Fri 6/2/17
36	Preferred Schematic Report (PSR)	Fri 4/21/17	Wed 8/23/17
37	Develop Preferred Schematic Schematic Report	Fri 4/21/17	Wed 6/7/17
38	SBC Vote to Submit PSR	Thu 6/15/17	Thu 6/15/17
39	Submit PSR Submission to MSBA	Thu 6/29/17	Thu 6/29/17
40	MSBA PSR Review Period	Fri 6/30/17	Wed 8/2/17
41	Respond to MSBA PSR Review Comments	Thu 8/3/17	Wed 8/16/17
42	Facilities Assessment Subcommittee (FAS) Presentation	Thu 7/27/17	Thu 7/27/17
43	Address FAS Comments	Fri 7/28/17	Wed 8/16/17
44	MSBA Board Vote on PSR & Approval to Move to Schematic Design	Wed 8/23/17	Wed 8/23/17
45	Schematic Design (SD)	Wed 8/23/17	Wed 1/3/18
46	Develop Schematic Design Submission	Wed 8/23/17	Tue 12/19/17
47	Submit Project Notification to Massachusetts Historical Commission	Mon 11/13/17	Fri 12/15/17
48	SD Cost Estimates and Reconciliation	Mon 12/11/17	Tue 12/19/17
49	MSBA Schematic Design Notification	Wed 12/20/17	Wed 12/20/17
50	SBC Vote to Approve SD Submission to MSBA	Thu 12/28/17	Thu 12/28/17
51	Submit SD Submission to MSBA	Wed 1/3/18	Wed 1/3/18
52	DESE Review	Wed 1/3/18	Wed 1/31/18
53	MSBA Review of DESE Submittal	Wed 1/3/18	Tue 1/30/18
54	DESE Review and Approval	Wed 1/31/18	Wed 1/31/18
55	CM at Risk Procurement (if Selected)	Thu 10/12/17	Fri 7/27/18
56	SBC Approves Use of CM at Risk Delivery & Selects CM Selection Committee	Thu 10/12/17	Thu 10/12/17
57	CM at Risk Application & Submit to OIG	Fri 10/13/17	Fri 11/10/17
58	Office of Inspector General Approval	Mon 11/13/17	Fri 12/8/17
59	CM at Risk RFQ Process	Wed 3/7/18	Wed 3/28/18
60	CM at Risk SOQs Due	Wed 3/28/18	Wed 3/28/18
61	CM at Risk RFP Process	Thu 3/29/18	Fri 4/13/18
62	CM at Risk Proposals Due	Fri 4/13/18	Fri 4/13/18
63	CM Interviews	Mon 4/16/18	Tue 4/17/18
64	CM Award, Contract and Notice to Proceed	Wed 4/18/18	Tue 5/1/18
65	Pre-Construction	Wed 5/2/18	Fri 7/27/18
66	Project Scope and Budget/ Project Funding Agreement	Mon 11/13/17	Mon 6/25/18
67	School Committee to Vote to Request City Council Set Election	Mon 11/13/17	Mon 11/13/17



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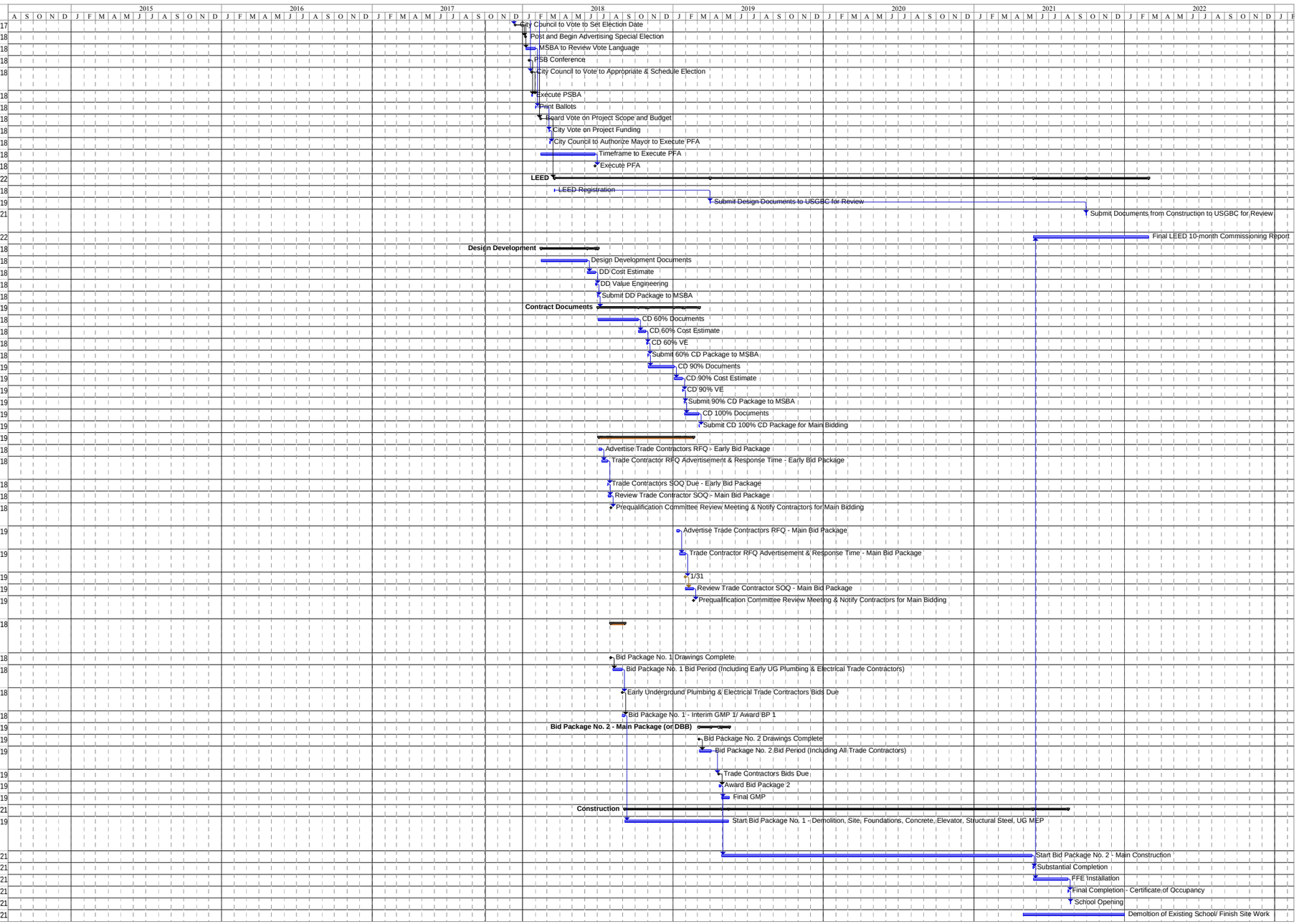
FALL RIVER - BMC DURFEE HIGH SCHOOL
PRELIMINARY PROJECT SCHEDULE
Feasibility Study: Schematic Design Phase - September 30, 2017

ID	Task Name	Start	Finish
68	City Council to Vote to Set Election Date	Thu 12/14/17	Thu 12/14/17
69	Post and Begin Advertising Special Election	Mon 1/8/18	Mon 1/8/18
70	MSBA to Review Vote Language	Tue 1/9/18	Wed 1/31/18
71	PSB Conference	Wed 1/17/18	Wed 1/17/18
72	City Council to Vote to Appropriate & Schedule Election	Tue 1/23/18	Tue 1/23/18
73	Execute PSBA	Tue 1/23/18	Wed 1/24/18
74	Print Ballots	Thu 2/1/18	Thu 2/1/18
75	Board Vote on Project Scope and Budget	Wed 2/14/18	Wed 2/14/18
76	City Vote on Project Funding	Tue 3/6/18	Tue 3/6/18
77	City Council to Authorize Mayor to Execute PFA	Thu 3/8/18	Thu 3/8/18
78	Timeframe to Execute PFA	Wed 2/14/18	Mon 6/25/18
79	Execute PFA	Mon 6/25/18	Mon 6/25/18
80	LEED	Mon 3/19/18	Mon 2/28/22
81	LEED Registration	Mon 3/19/18	Mon 3/19/18
82	Submit Design Documents to USGBC for Review	Mon 4/1/19	Mon 4/1/19
83	Submit Documents from Construction to USGBC for Review	Thu 9/30/21	Thu 9/30/21
84	Final LEED 10-month Commissioning Report	Tue 5/25/21	Mon 2/28/22
85	Design Development	Thu 2/15/18	Mon 7/2/18
86	Design Development Documents	Thu 2/15/18	Wed 6/6/18
87	DD Cost Estimate	Thu 6/7/18	Tue 6/26/18
88	DD Value Engineering	Wed 6/27/18	Fri 6/29/18
89	Submit DD Package to MSBA	Mon 7/2/18	Mon 7/2/18
90	Contract Documents	Tue 7/3/18	Tue 3/5/19
91	CD 60% Documents	Tue 7/3/18	Mon 10/8/18
92	CD 60% Cost Estimate	Tue 10/9/18	Fri 10/26/18
93	CD 60% VE	Mon 10/29/18	Wed 10/31/18
94	Submit 60% CD Package to MSBA	Thu 11/1/18	Thu 11/1/18
95	CD 90% Documents	Fri 11/2/18	Thu 1/3/19
96	CD 90% Cost Estimate	Fri 1/4/19	Wed 1/23/19
97	CD 90% VE	Thu 1/24/19	Fri 1/25/19
98	Submit 90% CD Package to MSBA	Mon 1/28/19	Mon 1/28/19
99	CD 100% Documents	Tue 1/29/19	Mon 3/4/19
100	Submit CD 100% CD Package for Main Bidding	Tue 3/5/19	Tue 3/5/19
101	Trade Contractor Prequalification	Thu 7/5/18	Tue 2/19/19
102	Advertise Trade Contractors RFQ - Early Bid Package	Thu 7/5/18	Wed 7/11/18
103	Trade Contractor RFQ Advertisement & Response Time - Early Bid Package	Thu 7/12/18	Thu 7/26/18
104	Trade Contractors SOQ Due - Early Bid Package	Thu 7/26/18	Fri 7/27/18
105	Review Trade Contractor SOQ - Main Bid Package	Fri 7/27/18	Fri 8/3/18
106	Prequalification Committee Review Meeting & Notify Contractors for Main Bidding	Fri 8/3/18	Fri 8/3/18
107	Advertise Trade Contractors RFQ - Main Bid Package	Thu 1/10/19	Wed 1/16/19
108	Trade Contractor RFQ Advertisement & Response Time - Main Bid Package	Thu 1/17/19	Thu 1/31/19
109	Trade Contractors SOQ Due - Main Bid Package	Thu 1/31/19	Thu 1/31/19
110	Review Trade Contractor SOQ - Main Bid Package	Thu 1/31/19	Tue 2/19/19
111	Prequalification Committee Review Meeting & Notify Contractors for Main Bidding	Tue 2/19/19	Tue 2/19/19
112	Bid Package No.1-Site, Foundations, Concrete, Elevator, Structural Steel, UG Electrical & Plumbing	Fri 8/3/18	Wed 9/5/18
113	Bid Package No. 1 Drawings Complete	Fri 8/3/18	Fri 8/3/18
114	Bid Package No. 1 Bid Period (Including Early UG Plumbing & Electrical Trade Contractors)	Wed 8/8/18	Thu 8/30/18
115	Early Underground Plumbing & Electrical Trade Contractors Bids Due	Thu 8/30/18	Thu 8/30/18
116	Bid Package No. 1 - Interim GMP 1/ Award BP 1	Fri 8/31/18	Wed 9/5/18
117	Bid Package No. 2 - Main Package (or DBB)	Tue 3/5/19	Fri 5/17/19
118	Bid Package No. 2 Drawings Complete	Tue 3/5/19	Tue 3/5/19
119	Bid Package No. 2 Bid Period (Including All Trade Contractors)	Wed 3/6/19	Wed 4/3/19
120	Trade Contractors Bids Due	Mon 4/22/19	Mon 4/22/19
121	Award Bid Package 2	Tue 4/23/19	Fri 4/26/19
122	Final GMP	Mon 4/29/19	Fri 5/17/19
123	Construction	Thu 9/6/18	Tue 8/17/21
124	Start Bid Package No. 1 - Demolition, Site, Foundations, Concrete, Elevator, Structural Steel, UG MEP	Thu 9/6/18	Wed 5/15/19
125	Start Bid Package No. 2 - Main Construction	Mon 4/29/19	Fri 5/21/21
126	Substantial Completion	Mon 5/24/21	Mon 5/24/21
127	FFE Installation	Tue 5/25/21	Mon 8/16/21
128	Final Completion - Certificate of Occupancy	Tue 8/17/21	Tue 8/17/21
129	School Opening	Mon 8/23/21	Mon 8/23/21
130	Demoltion of Existing School/ Finish Site Work	Fri 4/30/21	Fri 12/31/21



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B.M.C. DURFEE HIGH SCHOOL – Fall River, MA

SCHOOL BUILDING COMMITTEE MEETING NO. 15

Thursday, November 9, 2017 Durfee High School - Library 4:30 PM

Agenda

1. Administrative Actions
   - Vote to Approve the October 12, 2017 Meeting Minutes

2. Community Engagement
   - Facebook, Twittter, Website, Print Update
   - Public Forum #3 Update

3. Schematic Design (SD)
   - Schematic Design Update
     - Update on Recent Programming Meetings
     - Update on Durfee Bells
     - Update on Design and Changes
   - Construction Management at Risk Construction Delivery
     - Vote on Prequalification/Selection Subcommittee
     - Need Resumes from All Prequalification/Selection Subcommittee Members
     - CMR Application to Inspector General's Office

4. Schedule Update
   - Review Project Schedule
   - Review/Update Timeline and Dates to get to the Public Vote as Submitted to MSBA
   - Important Upcoming Milestone Dates
     - Schematic Design Timeline (August 24, 2017 – January 3, 2018)
     - Submission to Massachusetts Historical Commission Project Notification – November 13, 2017
     - Review Estimating Schedule – Reconciled Estimate – December 14, 2017
     - Review Schedule for Construction Management at Risk Construction Delivery
     - Notification of Schematic Design Submission Budget to MSBA – December 20, 2017

5. Budget Update
   - Review Total Project Budget

6. Other Business/Discussions

7. Next SBC Meeting
   - SBC Meeting December 19, 2017 4:30 PM Durfee HS Library

ADA Coordinator: Gary P. Howayeck, Esq. 508-324-2650
One Government Center – Fall River, MA 02722
TEL 508-324-220 – FAX 508-324-2211 – EMAIL city_clerks@fallriverma.org

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BMS Durfee High School – Fall River, MA	MEETING MINUTES

SCHOOL BUILDING COMMITTEE MEETING NO. 14	October 12, 2017
Location:	Durfee High School Library
Time:	4:30 PM

Attendees:

Name	Assoc.	Present
Jasiel F. Correia II	Mayor, City of Fall River	N
Cathy Ann Viveiros	City of Fall River, City Administrator	N
Rhonda Pinnell	City of Fall River, Purchasing Agent	N
Tim McCoy	City of Fall River, Purchasing Agent FRHA	N
Chris Gallagher	City of Fall River, Director of Building and Grounds	Y
Carole Fiola	Mass. State Rep.	Y
Matt Malone	Fall River School Dept, Superintendent of Schools	Y
Ken Pacheco	Fall River School Dept., Co-Chair, Chief of Operations FRPS	Y
Joseph Camara	City Councilor and Co-Chair	Y
Mark Costa	Fall River School Dept. School Committee, Vice Chair	N
Ed Costar	Fall River School Dept., School Committee	N
Matthew Desmarais	Fall River School Dept., Durfee High Principal	Y
Shayna Morgan	Fall River School Dept., Operations Durfee High	N
Michael Costa	Fall River School Dept., Teacher at Durfee High	Y
Gary Bigelow	Fall River School Dept., Teacher at Durfee High	Y
Nick Christ	Baycoast Bank, CEO Baycoast Bank	Y
Michael Keane	Civitech Architects, Owner	N
Brantley Hunsinger	B-Tech Construction, Owner	N
Tammy Moutinho	Buildings and Grounds, Admin.	Y
Lauren Correa	Student	N
Catarina Pereira	Student	N
Jensen Riley	Student	N
Scott Dunlap	Ai3, Project Architect	Y
Troy Randall	Ai3, Project Architect	Y
Craig Olsen	Ai3, Project Architect	Y
Sally Cameron	ThreeC Strategy	Y
Jim Rogers	LeftField, Owner	Y
Lynn Stapleton	LeftField, Project Executive	Y
Adam Keane	LeftField, Project Manager	Y
Paul Gransaull	LeftField, Project Manager	Y

- Voting Members indicated in **bold**

BMC Durfee High School – School Building Committee Meeting No. 14

The School Building Committee Chair, K. Pacheco, called the meeting to order at 4:37 PM.

I. Approval of Meeting Minutes

1. The following motion and vote were made:

   MOTION: M. Desmarais moved, seconded by G. Bigelow, that the Durfee High School Building Committee approve the September 14 2017 SBC Meeting Minutes.
   Discussion: None.

   The Durfee High School Building Committee voted to approve the September 14th 2017 SBC Meeting Minutes.
   For: 9 – Oppose: 0 – Abstained: 0

II. Community Engagement

2. S. Cameron noted there continues to be a lot of traction on social media on Facebook, Twitter and the Website. There have been many comments, mostly positive. The third Public Forum occurs tonight and The Herald will be in attendance. The agenda was distributed to the Public via Twitter, Facebook and the Website.

III. Schematic Design

3. T. Randall led a PowerPoint presentation on the design progress to date. He noted that there have been focused meetings with programming meetings with faculty and staff with more scheduled. Troy then presented slides and led discussion of the exterior elevations, landscape forms and floor plans. C. Olsen expanded on the interior design and described the program location changes as a result of faculty and staff feedback. C. Olsen detailed the public entry points into the school and described the interface with security and access control. C. Olsen also noted the design progression at the Administration Area, the Nurses' Station, the Durfee Pride Atrium and Culinary Arts.

4. T. Randall stated the Traffic Study by Pare is ongoing and they have had contact with MDOT and the Fall River Police Department. M. Desmarais expressed concern with student drop-off in the mornings on Ellsbree Street and the increased congestion that would result. He proposed a "through road" on site to alleviate congestion on Ellsbree Street.

5. A. Keane led a brief discussion on the inclusion of the "Durfee Bells" in the new school and C. Fiola recommended that the SBC gain approval from the "Durfee Bells Committee".

6. A. Keane gave an update on the project presentation that was delivered to the School Committee on September 12, 2017.

7. The advantages and disadvantages of the two construction delivery method, Construction Management at Risk (C.M.R) and Design-Bid-Build (D.B.B.), was discussed. After discussion, a vote of the SBC was taken.

   The following motion and vote were made:

   MOTION: N. Christ moved, seconded by M. Malone, that the Durfee High School Building Committee adopt the Construction Management at Risk construction delivery method for the new Durfee High School project.
   Discussion: None.

   The Durfee High School Building Committee voted to adopt the Construction Management at Risk construction delivery method for the new Durfee High School project.
   For: 9 – Oppose: 0 – Abstained: 0

8. L. Stapleton informed the SBC that a Prequalification/Selection Subcommittee needed to be established to review CMR applications and make recommendations to the SBC. After discussion, it was decided that the Subcommittee would be composed of Ai3, LeftField and the following SBC members: Joe Camara, Mike Keane, Ken Pacheco, Matt Malone, Chris Gallagher and Brantley Hunsinger. It was noted a formal vote would be taken at the next SBC Meeting once all proposed people had been confirmed.

IV. Schedule Update

9. A. Keane noted the following milestone dates:
   - Schematic Design timeline – 8/24/17 to 1/3/18
   - Submission of the Schematic design Submission – January 3, 2018
   - Public vote on funding – March 2018

V. Project Funding & Project Budget Update

10. The Total Project Budget Status Report was reviewed and it was noted that the project had spent 85% of its budget with two months remaining in the SD phase.

VI. Other Business/Discussion

11. None.

VII. Next Meetings

12. The next meeting of the full SBC is scheduled for November 9, 2017 at 4:30 PM in the Durfee High School Library.

13. It was noted that additional Programming Meetings would be scheduled in the month of October 2017.

VIII. Adjournment

14. The following motion and vote were made:

MOTION: N. Christ moved and C. Fiola seconded, that the School Building Committee vote to adjourn the meeting at 5:55 PM.

The Durfee School Building Committee voted unanimously to adjourn the meeting at 5:55pm. For: 9 – Oppose: 0 – Abstained: 0

These meeting minutes represent what is presumed to be a complete and accurate account of the items reviewed, discussed, directions given and conclusions drawn unless notification to the contrary is received by the next regular construction meeting. If no notification is received, these minutes will be deemed an accurate account of the meeting.

Prepared by,
Paul Gransaull
LeftField LLC

Durfee High School
Project Milestone Dates
November 9, 2017

ID	Task Name	Start	Finish
1	**Schematic Design (SD)**	**Wed 8/23/17**	**Wed 1/3/18**
2	Develop Schematic Design Submission	Wed 8/23/17	Tue 12/19/17
3	Submit Project Notification to Massachusetts Historical Commission	Mon 11/13/17	Fri 12/15/17
4	SD Cost Estimates Due and Reconciliation Process	Mon 12/11/17	Tue 12/19/17
5	SBC Vote to Approve SD Submission to MSBA	Tue 12/19/17	Tue 12/19/17
6	MSBA Schematic Design Notification	Wed 12/20/17	Wed 12/20/17
7	Submit SD Submission to MSBA	Wed 1/3/18	Wed 1/3/18
8	**DESE Review**	**Wed 1/3/18**	**Wed 1/31/18**
9	MSBA Review of DESE Submittal	Wed 1/3/18	Tue 1/30/18
10	DESE Review and Approval	Wed 1/31/18	Wed 1/31/18
11	**CM at Risk Procurement**	**Thu 10/12/17**	**Fri 7/27/18**
12	SBC Approves Use of CM at Risk Delivery & Selects CM Selection Committee	Thu 10/12/17	Thu 10/12/17
13	CM at Risk Application & Submit to OIG	Fri 10/13/17	Thu 12/21/17
14	Office of Inspector General Approval	Fri 12/22/17	Tue 3/6/18
15	CM at Risk RFQ Process	Wed 3/7/18	Wed 3/28/18
16	CM at Risk SOQs Due	Wed 3/28/18	Wed 3/28/18
17	CM at Risk RFP Process	Thu 3/29/18	Fri 4/13/18
18	CM at Risk Proposals Due	Fri 4/13/18	Fri 4/13/18
19	CM Interviews	Mon 4/16/18	Tue 4/17/18
20	CM Award, Contract and Notice to Proceed	Wed 4/18/18	Tue 5/1/18
21	Pre-Construction	Wed 5/2/18	Fri 7/27/18
22	**Project Scope and Budget/ Project Funding Agreement**	**Mon 11/13/17**	**Mon 6/25/18**
23	School Committee to Vote to Approve and to Request City Council Set Election Date	Mon 11/13/17	Mon 11/13/17
24	City Council to Vote to Approve and to Set Election Date	Thu 12/14/17	Thu 12/14/17
25	Post and Begin Advertising Special Election	Mon 1/8/18	Mon 1/8/18
26	MSBA to Review Vote Language	Tue 1/9/18	Wed 1/31/18
27	PSB Conference	Wed 1/17/18	Wed 1/17/18
28	Execute PSBA	Wed 1/17/18	Thu 1/18/18
29	Print Ballots	Thu 2/1/18	Thu 2/1/18
30	Board Vote on Project Scope and Budget	Wed 2/14/18	Wed 2/14/18
31	City Vote on Project Funding	Tue 3/6/18	Tue 3/6/18
32	City Council to Authorize Mayor to Execute PFA	Thu 3/8/18	Thu 3/8/18
33	Timeframe to Execute PFA	Wed 2/14/18	Mon 6/25/18
34	Execute PFA	Mon 6/25/18	Mon 6/25/18
35	**LEED**	**Mon 3/19/18**	**Mon 2/28/22**
36	LEED Registration	Mon 3/19/18	Mon 3/19/18
37	Submit Design Documents to USGBC for Review	Mon 4/1/19	Mon 4/1/19
38	Submit Documents from Construction to USGBC for Review	Thu 9/30/21	Thu 9/30/21
39	Final LEED 10-month Commissioning Report	Tue 5/25/21	Mon 2/28/22
40	**Design Development**	**Thu 2/15/18**	**Mon 7/2/18**
41	Design Development Documents	Thu 2/15/18	Wed 6/6/18
42	DD Cost Estimate	Thu 6/7/18	Tue 6/26/18
43	DD Value Engineering	Wed 6/27/18	Fri 6/29/18
44	Submit DD Package to MSBA	Mon 7/2/18	Mon 7/2/18
45	**Contract Documents**	**Tue 7/3/18**	**Tue 3/5/19**
46	CD 60% Documents	Tue 7/3/18	Mon 10/8/18
47	CD 60% Cost Estimate	Tue 10/9/18	Fri 10/26/18
48	CD 60% VE	Mon 10/29/18	Wed 10/31/18
49	Submit 60% CD Package to MSBA	Thu 11/1/18	Thu 11/1/18
50	CD 90% Documents	Fri 11/2/18	Thu 1/3/19
51	CD 90% Cost Estimate	Fri 1/4/19	Wed 1/23/19
52	CD 90% VE	Thu 1/24/19	Fri 1/25/19
53	Submit 90% CD Package to MSBA	Mon 1/28/19	Mon 1/28/19
54	CD 100% Documents	Tue 1/29/19	Mon 3/4/19
55	Submit CD 100% CD Package for Main Bidding	Tue 3/5/19	Tue 3/5/19
56	**Trade Contractor Prequalification**	**Thu 7/5/18**	**Tue 2/19/19**
57	Advertise Trade Contractors RFQ - Early Bid Package	Thu 7/5/18	Wed 7/11/18
58	Trade Contractor RFQ Advertisement & Response Time - Early Bid Package	Thu 7/12/18	Thu 7/26/18

Durfee High School
Project Milestone Dates
November 9, 2017

ID	Task Name	Start	Finish
59	Trade Contractors SOQ Due - Early Bid Package	Thu 7/26/18	Fri 7/27/18
60	Review Trade Contractor SOQ - Main Bid Package	Fri 7/27/18	Fri 8/3/18
61	Prequalification Committee Review Meeting & Notify Contractors for Main Bidding	Fri 8/3/18	Fri 8/3/18
62	Advertise Trade Contractors RFQ - Main Bid Package	Thu 1/10/19	Wed 1/16/19
63	Trade Contractor RFQ Advertisement & Response Time - Main Bid Package	Thu 1/17/19	Thu 1/31/19
64	Trade Contractors SOQ Due - Main Bid Package	Thu 1/31/19	Thu 1/31/19
65	Review Trade Contractor SOQ - Main Bid Package	Thu 1/31/19	Tue 2/19/19
66	Prequalification Committee Review Meeting & Notify Contractors for Main Bidding	Tue 2/19/19	Tue 2/19/19
67	**Bid Package No.1-Site, Foundations, Concrete, Elevator, Structural Steel, UG Electrical &**	**Fri 8/3/18**	**Wed 9/5/18**
68	Bid Package No. 1 Drawings Complete	Fri 8/3/18	Fri 8/3/18
69	Bid Package No. 1 Bid Period (Including Early UG Plumbing & Electrical Trade Contractors	Wed 8/8/18	Thu 8/30/18
70	Early Underground Plumbing & Electrical Trade Contractors Bids Due	Thu 8/30/18	Thu 8/30/18
71	Bid Package No. 1 - Interim GMP 1/ Award BP 1	Fri 8/31/18	Wed 9/5/18
72	**Bid Package No. 2 - Main Package (or DBB)**	**Tue 3/5/19**	**Fri 5/17/19**
73	Bid Package No. 2 Drawings Complete	Tue 3/5/19	Tue 3/5/19
74	Bid Package No. 2 Bid Period (Including All Trade Contractors)	Wed 3/6/19	Wed 4/3/19
75	Trade Contractors Bids Due	Mon 4/22/19	Mon 4/22/19
76	Award Bid Package 2	Tue 4/23/19	Fri 4/26/19
77	Final GMP	Mon 4/29/19	Fri 5/17/19
78	**Construction**	**Thu 9/6/18**	**Tue 8/17/21**
79	Start Bid Package No. 1 - Demolition, Site, Foundations, Concrete, Elevator, Structural Steel	Thu 9/6/18	Wed 5/15/19
80	Start Bid Package No. 2 - Main Construction	Mon 4/29/19	Fri 5/21/21
81	Substantial Completion	Mon 5/24/21	Mon 5/24/21
82	FFE Installation	Tue 5/25/21	Mon 8/16/21
83	Final Completion - Certificate of Occupancy	Tue 8/17/21	Tue 8/17/21
84	School Opening	Mon 8/23/21	Mon 8/23/21
85	Demoltion of Existing School/ Finish Site Work	Fri 4/30/21	Fri 12/31/21

LEFTFIELD
THE RIGHT CHOICE IN PROJECT MANAGEMENT

BMC Durfee High School - Fall River, MA — **October 31, 2017**

Total Project Budget Status Report

ProPay Code	Description	Total Project Budget	Authorized Changes	Revised Total Budget	Total Committed	% Cmtd to Date	Actual Spent to Date	% Spent to Date	Balance To Spend	Comments
	FEASIBILITY STUDY AGREEMENT									
0001-0000	OPM Feasibility Study/Schematic Design	$ 280,000	$ 50,500	$ 330,500	$ 330,500	100%	$ 287,250	87%	$ 43,250	*FSA 1, 2
0002-0000	A&E Feasibility Study/Schematic Design	$ 570,000	$ 99,500	$ 669,500	$ 669,500	100%	$ 601,444	90%	$ 68,056	*FSA 1, 2
0003-0000	Environmental & Site	$ 120,000	$ (120,000)	$ -	$ -		$ -		$ -	*FSA 1, 2
0004-0000	Other	$ 30,000	$ (30,000)	$ -	$ -		$ -		$ -	*FSA 2
	SUB-TOTAL	$ 1,000,000	$ -	$ 1,000,000	$ 1,000,000	100%	$ 888,694	89%	$ 111,306	
	TOTAL PROJECT BUDGET	**$ 1,000,000**	**$ -**	**$ 1,000,000**	**$ 1,000,000**	**100%**	**$ 888,694**	**89%**	**$ 111,306**	

FUNDING SOURCES	Max w/ Conting.	Max w/o Conting.
Maximum State Share	$ 795,800	$ 795,800
Local Share *	$ 204,200	$ 204,200
SUB-TOTAL	$ 1,000,000	$ 1,000,000

Project Budget	Scope Items Excluded	Contingencies	Basis of Total Facilities Grant	Reimbursement Rate
$ 1,000,000	$ -	$ -	$ 1,000,000	79.58%

CONSTR. COST ESTIMATES	Date	Estimator	Amount	SF	Cost Per SF
Designer FS Cost Estimate	06/13/17	PM&C	$190,119,276	497,000	$382.53
Designer SD Cost Estimate					#DIV/0!
OPM SD Cost Estimate					#DIV/0!

Feasibility Study Agreement Budget Transfers:

FSA BRR 01 7/7/2016 Transfer $50,000 from Environmental & Site to OPM Feasibility Study/Schematic Design; transfer $20,000 from A/E Feasibility Study/Schematic Design to OPM Feasibility Study/Schematic Design. **APPROVED by MSBA 11/8/16**

FSA BRR 02 2/3/2017 Transfer $70,000 from Environmental & Site, transfer $30,000 from Other , and transfer $19,500 from OPM Feasibility Study/Schematic Design to to A/E Feasibility Study/Schematic Design to fulfill A/E Contract Requirements. **APPROVED by MSBA 8/10/17**

Project Funding Agreement Budget Transfers:

LEFTFIELD
THE RIGHT CHOICE IN PROJECT MANAGEMENT

BMS Durfee High School – Fall River, MA	MEETING MINUTES

SCHOOL BUILDING COMMITTEE MEETING NO. 16	December 19, 2017
Location:	Durfee High School Library
Time:	4:30 PM

Attendees:

Name	Assoc.	Present
Jasiel F. Correia II	Mayor, City of Fall River	N
Cathy Ann Viveiros	City of Fall River, City Administrator	N
Rhonda Pinnell	City of Fall River, Purchasing Agent	N
Tim McCoy	City of Fall River, Purchasing Agent FRHA	N
Chris Gallagher	City of Fall River, Director of Building and Grounds	Y
Carole Fiola	Mass. State Rep.	Y
Matt Malone	Fall River School Dept, Superintendent of Schools	Y
Ken Pacheco	Fall River School Dept., Co-Chair, Chief of Operations FRPS	Y
Joseph Camara	City Councilor and Co-Chair	N
Mark Costa	Fall River School Dept. School Committee, Vice Chair	Y
Ed Costar	Fall River School Dept., School Committee	Y
Matthew Desmarais	Fall River School Dept., Durfee High Principal	Y
Shayna Morgan	Fall River School Dept., Operations Durfee High	Y
Michael Costa	Fall River School Dept., Teacher at Durfee High	Y
Gary Bigelow	Fall River School Dept., Teacher at Durfee High	Y
Nick Christ	Baycoast Bank, CEO Baycoast Bank	N
Michael Keane	Civitech Architects, Owner	Y
Brantley Hunsinger	B-Tech Construction, Owner	N
Tammy Moutinho	Buildings and Grounds, Admin.	Y
Lauren Correa	Student	N
Catarina Pereira	Student	N
Jensen Riley	Student	N
Steve Camara	Fall River, City Councilor	N
Scott Dunlap	Ai3, Project Architect	N
Troy Randall	Ai3, Project Architect	Y
Craig Olsen	Ai3, Project Architect	N
Sally Cameron	ThreeC Strategy	Y
Jim Rogers	LeftField, Owner	Y
Lynn Stapleton	LeftField, Project Executive	Y
Adam Keane	LeftField, Project Manager	Y
Paul Gransaull	LeftField, Project Manager	N

- Voting Members indicated in **bold**

BMC Durfee High School – School Building Committee Meeting No. 16

The School Building Committee Chair, K. Pacheco, called the meeting to order at 4:35 PM. There was a quorum of SBC Voting Members present.

I. Approval of Meeting Minutes

1. **MOTION:** M. Desmarais moved, seconded by G. Bigelow, that the Durfee High School Building Committee approve the November 9, 2017 SBC Meeting Minutes.

   The Durfee High School Building Committee voted to approve the November 9th 2017 SBC Meeting Minutes.
   For: 9 – Oppose: 0 – Abstained: 0

II. Community Engagement

2. S. Cameron provided an update on the new Durfee HS social media on Facebook, Twitter and the Website. Sally also informed the group that her soon to be published Op-Ed article, titled "A Tale of Two Cities", will appear in the Fall River News chronicling the Durfee HS Project and the Westport Middle School Project. Lastly, Sally discussed the work being done by Nick Christ and his Committee of Civic Leaders to promote the project.

III. Schematic Design Submission

3. T. Randall led a PowerPoint presentation reviewing the the project scope and budget and the Module 4 required components that are to be submitted to the MSBA in the Schematic Design Submission. After the review and discussion, a vote was asked for.

   MOTION: K. Pacheco moved, seconded by G. Bigelow, to approve the Schematic Design Submission and all components (Module 4 related submittals) and to authorize the OPM to submit the Schematic Design Submission to the Massachusetts School Building Authority (MSBA) on or before the January 3, 2018 submission deadline for Board action at the Board of Directors' February 14, 2018 Meeting.

   The Durfee High School Building Committee voted to approve the Schematic Design Submission and all components (Module 4 related submittals) and to authorize the OPM to submit the Schematic Design Submission to the Massachusetts School Building Authority (MSBA) on or before the January 3, 2018 submission deadline for Board action at the Board of Directors' February 14, 2018 Meeting.
   For: 10 – Oppose: 0 – Abstained: 0

4. L. Stapleton reviewed a PowerPoint presentation with the group in regard to the Total Project Budget that will be submitted as part of the Schematic Design Submission. Lynn explained that two independent cost estimators were used for the Schematic Design estimating process. Ai3's cost consultant was PM&C and Leftfield's cost consultant was A.M. Fogarty. The estimating process took three weeks and utilized the SD plans, specifications, room data sheets and narratives that form the Schematic Design Submission. A reconciliation process occurred after both estimates were completed. This process resulted in the estimates being reconciled well

below the maximum allowed 1% variance. The total estimated construction cost indicated in the Schematic Design is $214, 392,026 and the Total Project Budget indicated is $263,811,726. Both are below the approved $214,500,000 construction costs and the $264,000,000 Total Project Budget. A vote was requested.

MOTION: K. Pacheco moved, seconded by C. Fiola, to approve the estimated construction cost of $214, 392,026 and the Total Project Budget of $263,811,726 as indicated in the Schematic Design Submission and to authorize the OPM to submit the Schematic Design Submittal Notification Letter to the MSBA on December 20, 2017, as required 10 days in advance of the January 3, 2018 submission deadline as both are below the approved $214,500,000 construction costs and the $264,000,000 Total Project Budget.

The Durfee High School Building Committee voted to approve the estimated construction cost of $214, 392,026 and the Total Project Budget of $263,811,726 as indicated in the Schematic Design Submission and to authorize the OPM to submit the Schematic Design Submittal Notification Letter to the MSBA on December 20, 2017, as required 10 days in advance of the January 3, 2018 submission deadline as both are below the approved $214,500,000 construction costs and the $264,000,000 Total Project Budget.
For: 10 – Oppose: 0 – Abstained: 0

5. It was noted that the Finance Subcommittee's presentations to the Mayor, Fall River Office of Economic Development, Civic Leaders and School Committee had not been formally approved by the School Building Committee. The presentation were quickly reviewed again by the SBC and a retroactive vote was requested to be taken.

   MOTION: C. Fiola moved, seconded by G. Bigelow to retroactively approve for record the Finance Subcommittee's presentations the Mayor, Fall River Office of Economic Development, Civic Leaders and School Committee.

   The Durfee High School Building Committee voted to retroactively approve for record the Finance Subcommittee's presentations the Mayor, Fall River Office of Economic Development, Civic Leaders and School Committee.
   For: 10 – Oppose: 0 – Abstained: 0

6. A. Keane noted that a vote would be needed to confirm the CMR Prequalification/Selection Subcommittee as there was not a quorum at the meeting in which the members were selected. This CMR Prequalification/Selection Subcommittee will be established to review CMR applications and make recommendations to the SBC. The Subcommittee will be composed of Ai3, LeftField and the following SBC members: Joe Camara, Mike Keane, Ken Pacheco, Matt Malone, and Chris Gallagher. Resumes for all members of the Subcommittee will be needed for the Application to Proceed with CM at Risk to the Inspector General's Office.

   MOTION: K. Pacheco moved, seconded by C. Fiola, to vote to approve the following SBC members to serve on the CMR Prequalification/Selection Subcommittee committee: Joe Camara, Mike Keane, Ken Pacheco, Matt Malone, and Chris Gallagher.

The Durfee High School Building Committee voted to approve the following SBC members to serve on the CMR Prequalification/Selection Subcommittee committee: Joe Camara, Mike Keane, Ken Pacheco, Matt Malone, and Chris Gallagher.
For: 10 – Oppose: 0 – Abstained: 0

IV. Schedule Update

7. A. Keane noted the following milestone dates:
   - Schematic Design Submittal Notification Letter to MSBA – December 20, 2018
   - Submittal of the Schematic Design Submission – January 3, 2018
   - City Council Vote on Election Date – January 16, 2018
   - Public Vote on Funding – March 6, 2018

V. Project Funding & Project Budget Update

8. The Total Project Budget Status Report was reviewed and it was noted that the project had spent 96% of its budget with two months remaining in the SD phase.

VI. Other Business/Discussion

9. J. Rodrigues made a presentation to the Committee about her efforts to preserve the historic Mann Murals which are located at the Rock Street School Administration Building. A recent study has proven that relocating these murals is cost-prohibitive. Joyce is presently working on getting pricing to perform high-resolution, digital scans of these murals. It was proposed that these reproduced murals could hang in the new Durfee Atrium. The Committee on the whole thought this would be a good idea to consider as the design develops. It was also discussed that in a few months, a Historic Artifact Subcommittee would be formed to make decisions on this and other Fall River historic artifacts for use and display within the new building.

VII. Next Meetings

10. The next meeting of the full SBC is scheduled for January 11, 2018 at 4:30 PM in the Durfee High School Library.

VIII. Adjournment

MOTION: K. Pacheco moved, seconded by G. Bigelow, to adjourn the meeting at 5:50PM.

The Durfee High School Building Committee voted to adjourn SBC Meeting #16 at 5:50 PM.
For: 10 – Oppose: 0 – Abstained: 0

These meeting minutes represent what is presumed to be a complete and accurate account of the items reviewed, discussed, directions given and conclusions drawn unless notification to the contrary is received by the next regular construction meeting. If no notification is received, these minutes will be deemed an accurate account of the meeting.

Prepared by: Adam Keane, LeftField LLC

BMC Durfee HS SBC meeting

Tuesday, December 19, 2017 4:30 PM

	Name	Company
1	Adam Keane	Leftfield
2	Lynn Stapleton	Leftfield
3.	[illegible]	City of Fall River
4	Tammy Moulinette	City of Fall River
5.	[illegible]	BMC Durfee H.S.
6.	[illegible]	BMC Durfee HS
7	Matthew H. Malone	FRPS
8.	MIKE KEANE	CIVITECTS
9	Sally Cameron	Three C Strategy
10.	Edward Costa	F.R.P.S.
11	Carole Fiola	State Representative
12	Mark Costa	FR School Cmte.
13	JONATHAN QUELL	AI3 ARCHITECTS
14	Matt Desmarais	Durfee HS
15	Shayna Morgan	Durfee HS
16	[illegible] TM Randall	Ai3
17	Jim Rogers	LeftField
18		
19		
20		
21		

FALL RIVER SCHOOL COMMITTEE

Mayor Jasiel F. Correia, II
Chairman

Mark Costa
Vice-Chairman

Gabriel Andrade
Paul Coogan
Dr. Edward Costar
Joseph Martins
Melissa Panchley

Dr. Matthew H. Malone
Superintendent of Schools

Tonya Casey
Administrative Assistant

MEMORANDUM

TO: Dr. Matthew Malone
Superintendent

FROM: Tonya Casey
Administrative Assistant for School Committee Services

DATE: Thursday, December 14, 2017

RE: School Committee Actions

At a Regular Meeting of the Fall River School Committee, held on Monday, December 11, 2017, the following actions were taken:

MOTION: Mr. Andrade-Mr. Coogan: To approve all meeting minutes.
No discussion

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Martins-Dr. Costar: To accept all donations.
No discussion

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Coogan-Mr. Andrade: To approve all other contracts.
No discussion

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Martins-Mr. Andrade: To approve the Facility Management Corporation contract.
Discussion on file

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Dr. Costar-Mr. Coogan: To approve all grants.
No discussion

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Dr. Costar-Mr. Andrade: To refer the discussion of public comment to the Policy Subcommittee.
Discussion on file

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Martins-Mr. Andrade: To amend the Indirect Cost Agreement to state that employees and resources shared between the School Department and other departments will be the total cost for the identified services multiplied by the percentage of use by the School Department.
Discussion on file

A roll call showed:

Mr. Andrade: No	Mr. Martins: Yes
Mr. Coogan: No	Mrs. Panchley: No
Mr. Costa: No	Mayor Correia: Absent
Dr. Costar: No	

One was in favor **Five were opposed** **One was absent** (Mayor Correia) **Motion failed**

MOTION: Mrs. Panchley-Mr. Andrade: To approve the Indirect Cost Agreement.
Discussion on file

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Coogan-Mr. Andrade: To approve the position conversion of a vacant accountant SNON position to a clerk.
Discussion on file

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mrs. Panchley-Mr. Coogan: To approve the request for renovations to the Administration Building through CPA funding .
No discussion
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Martins-Mr. Andrade: To approve the request of proprietary items for the new Durfee High School.
Discussion on file
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Coogan-Mr. Andrade: To approve the adoption of policy BIBA: School Committee Conferences, Conventions, and Workshops.
No discussion
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mrs. Panchley-Mr. Coogan: To approve the adoption of the two reviewed policies.
No discussion
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Andrade-Mr. Coogan: To approve the adoptions of all other policies that are listed.
No discussion
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Martins-Mrs. Panchley: To approve the adoption of policy BBA: School Committee Powers and Duties with the amendment.
Discussion on file

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Coogan-Mr. Martins: To approve the Year-to-Date Budget Report.
Discussion on file
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Martins-Mrs. Panchley: To place the FYI portion of the agenda on file.
No discussion
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Andrade-Mr. Martins: To enter into executive session.

Mr. Costa asked for a roll call to enter into executive session.

Mr. Andrade: Yes
Mr. Coogan: Yes
Mr. Costa: Yes
Dr. Costar: Yes
Mr. Martins: Yes
Mrs. Panchley: Yes
Mayor Correia: Absent

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed** (6:39 p.m.)

MOTION: Mr. Andrade-Mrs. Panchley: To approve the contract between the Fall River School Committee and Mr. Brian Mikolazyk.
No discussion

A roll call showed:
Mr. Andrade: Yes
Mr. Coogan: Yes
Mr. Costa: Yes
Dr. Costar: Yes
Mr. Martins: Yes
Mrs. Panchley: Yes
Mayor Correia: Absent

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Andrade-Mrs. Panchley: To approve the contract between the Fall River School Committee and Mr. Rene Kochman.
No discussion

A roll call showed:
Mr. Andrade: Yes
Mr. Coogan: Yes
Mr. Costa: Yes
Dr. Costar: Yes
Mr. Martins: Yes
Mrs. Panchley: Yes
Mayor Correia: Absent

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Andrade-Dr. Costar: To approve the contract between the Fall River School Committee and Ms. Jessica Rodriguez.
No discussion

A roll call showed:
Mr. Andrade: Yes
Mr. Coogan: Yes
Mr. Costa: Yes
Dr. Costar: Yes
Mr. Martins: Yes
Mrs. Panchley: Yes
Mayor Correia: Absent

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mrs. Panchley-Mr. Andrade: To approve the executive session minutes from the November 13, 2017 Regular Meeting of the Fall River School Committee.
No discussion

A roll call showed:
Mr. Andrade: Yes
Mr. Coogan: Yes
Mr. Martins: Yes
Mrs. Panchley: Yes

Mr. Costa: Yes
Dr. Costar: Yes
Mayor Correia: Absent

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Andrade-Dr. Costar and Mrs. Panchley: To adjourn.
No discussion

A roll call showed:

Mr. Andrade: Yes
Mr. Coogan: Yes
Mr. Costa: Yes
Dr. Costar: Yes
Mr. Martins: Yes
Mrs. Panchley: Yes
Mayor Correia: Absent

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed** (7:22 PM)

cc: Leadership Team; file

FALL RIVER SCHOOL COMMITTEE

Mayor Jasiel F. Correia, II
Chairman

Mark Costa
Vice-Chairman

Gabriel Andrade
Paul Coogan
Dr. Edward Costar
Joseph Martins
Melissa Panchley

Dr. Matthew H. Malone
Superintendent of Schools

Tonya Casey
Administrative Assistant

MEMORANDUM

TO: Dr. Matthew Malone
Superintendent

FROM: Tonya Casey
Administrative Assistant for School Committee Services

DATE: Thursday, December 21, 2017

RE: School Committee Actions

At a Special Meeting of the Fall River School Committee, held on Tuesday, November 21, 2017, the following actions were taken:

MOTION: Mr. Costa-Mr. Andrade: To waive the rule.
All were in favor **None were opposed** **Motion passed**

MOTION: Mrs. Panchley-Mr. Costa: To request through the Mayor to the City Council to take all necessary votes required to authorize the construction of a new high school.
No discussion

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Yes
Dr. Costar: Yes	

All were in favor **None were opposed** **Motion passed**

MOTION: Mr. Costa-Mrs. Panchley: To adjourn.
No discussion

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Yes
Dr. Costar: Yes	

All were in favor	**None were opposed**	**Motion passed** (7:08 p.m.)

cc: Leadership Team; file

NEW DURFEE HIGH SCHOOL PROJECT

Please join the

City of Fall River, Fall River Public Schools and the Durfee School Building Committee for

PUBLIC FORUM #3

Thursday, October 12, 2017

6:30 PM – 8:00 PM

Durfee High School Auditorium
360 Elsbree Street

We need your input as we develop the preferred option and site layout. The ultimate goal is to arrive at an appropriate comprehensive high school design that will provide a positive, 21st century learning environment for our students.

The Durfee High School Project will benefit the entire Fall River Community by improving and increasing educational opportunities for our students.

Agenda:
Durfee Bells & Historical Influences
Site Schematic Design
Building Schematic Design
Project Schedule Update

Contact- Chris Gallagher- 508-922-6715
ADA Coordinator: Gary P. Howayeck, Esq. 508-324-2650

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DURFEE HIGH SCHOOL PROJECT – FALL RIVER, MA	MEETING MINUTES

PUBLIC FORUM NO. 3	October 12, 2017
Location:	Durfee High School Auditorium
Time:	6:30 PM

I. Introduction of Project Team

2. Troy Randall from Ai3 welcomed the crowd and introduced Ken Pacheco and Chris Gallagher from the City of Fall River as well as Scott Dunlap and Craig Olsen from Ai3. Troy went on to introduce Adam Keane and Lynn Stapleton both from Leftfield.

II. MSBA Grant Opportunity and MSBA Process

3. Troy Randall took the crowd through some slides from the Power Point presentation in regards to the MSBA Grant Opportunity and the MSBA Process. Troy explained that the City had been given an opportunity to receive a grant reimbursement from the MSBA to pay costs associated with a new school facility project. This grant opportunity was offered in part because of the condition of the existing building infrastructure and the lack of building and energy code compliance of the present facility.

4. Troy then explained the requirements that need to be followed to receive a grant from the MSBA. The first step is to complete a comprehensive feasibility study in collaboration with the MSBA to determine the most financially and educationally responsible long-term solution. The Feasibility Study is what the Project Team has been working for the last 6 months. There are over fifty construction professionals working over a collective of 4,600 hours on the project to this point.

5. Troy reviewed some of the latest renderings for the building and explained how the design takes architectural elements from the old Rock Street school building. These elements include the bell tower and the observatory. Troy explained how the project intended to relocate the historic Durfee Bells to the new clock tower.

6. Lastly, Troy reviewed the current MSBA Building Process Schedule with the group. Troy explained that the project is in the *Schematic Phase*. The Schematic phase would last till January 2018 and be followed by the *Project Scope and Budget and Project Funding Agreement Phase* and then move on to the *Design Development, Construction Documents and Bidding Phase*. Construction would be complete by June 2022.

III. Summary of Building and Site Options

7. Seven building/site options were analyzed for the current site of the High School on Elsbree Street. Scott from Ai3 reviewed the pros and cons of these seven site options via a Power Point presentation. These options were titled 1A, 1B, 1C, 1D, 1E, 2A and 2B. Of these options, Option 1E was selected as the as the preferred solution for further development during the schematic design phase.
8. The advantages of Option 1E were reviewed. Some of the advantages include a simplified building layout improving for way finding, security, etc., the maintaining of the athletic facility, and most of the athletic fields, and minimal disruption for students during construction.
9. The presentation included the latest renderings of Option 1E as well as some preliminary floor plans.

IV. Public Comments

3. **Audrey Poitras (68 Rachel Drive)**
   Audrey stated that she was unaware that the bells existed until now. Audrey explained that she is a parent of a current student and really likes the and supports the new design.

4. **Joyce Rodrigues (188 Cottage Street)**
   Joyce said that she did not think that the bells should be relocated and asked why they could not remain where they presently are.

   Troy responded that the current location of the Bells are in the foot print of the new building. If the building was moved to allow the Bells to remain where they are, this would push the building to close to Elsbree Street.

5. **Gerry Fallon (1006 Maple Street)**
   Please clarify where the performing arts spaces are located.

   Gerry spoke as to how he preferred slated roofs as shown in the renderings. Flat roofs leak. The project should consider water re-use in its design.

   Troy replied that water re-use was not currently in the plan but would be considered.

6. **Steve Camara (No Address Given)**
   Steve introduced himself to the audience and informed the audience that he is a City Councilor, Durfee Alumni and was on the Building Committee for the present Durfee Building.

   Steve said that in his opinion the building is in the wrong place and should be more centrally located to the City. Steve said that busing has been and will continue to be an issue for many students located in the South end of the City. Steve suggested that there should be a moratorium of the study so that other sites can be studied. Steve also said that he does not support moving the historic Durfee Bells and that they should not be relocated in the new building.

   Ken Pacheco replied to Steve that the site selection was done carefully by a subcommittee that evaluated five sites within the City. Each site was evaluated based on environmental factors, location, adjacent properties, whether the property had enough space and was owned by the City. The findings and conclusion to stay on the present site were made many months ago and were presented to the Community at the last Public Forum without objection. The time for reevaluating sites has passed.

V. <u>Closing</u>

7. Troy Randal thanked everyone for their participation.

BMC DURFEE HIGH SCHOOL

Fall River, MA — Thursday, October 12, 2017

Public Forum #3 — **Speaker Sign-In List**

Location: Durfee High School Auditorium - 6:30 PM

	name	address
1	name: Audrey M. Poitras	address: 68 Rachel Drive Attleboro, MA
2	name: Joyce Rodrigues	address: 254 Chavenson St Fall River, Ma 02723
3	name: [illegible]	address: 1006 Maple St
4	name: Kristen Gavin	address:
5	name: Steve Camara	address:
6	name:	address:
7	name:	address:
8	name:	address:
9	name:	address:
10	name:	address:
11	name:	address:
12	name:	address:
13	name:	address:
14	name:	address:
15	name:	address:
16	name:	address:
17	name:	address:
18	name:	address:
19	name:	address:
20	name:	address:

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Joe 508-801

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BMC DURFEE HIGH SCHOOL

Fall River, MA | Thursday, October 12, 2017

Public Forum #3 | **Sign-In List**

Location: Durfee High School Auditorium - 6:30 PM

	name/e-mail	address /phone number
31	name: LES CORY e-mail: LCORY@UMASSD.edu	address: phone: 401-624-3478
32	name: PATRICIA L. CORY e-mail: pcory1@juno.com	address: phone: 401-624-3478
33	name: Daryl Gonyon e-mail:	address: phone: 508-672-4822
34	name: Joseph Martins e-mail:	address: phone: 508-415-3727
35	name: SANTI DI ROZZA e-mail: Schirozza@AOL.Com	address: phone: 508-951-0989
36	name: MATT CORNEJO e-mail: MATTCORNEJO@COMCAST.net	address: phone: 508 642 5209
37	name: LENA CORNEJO e-mail: lenaCORNEJO@COMCAST.net	address: phone: 508 6425860
38	name: Gary Correia e-mail:	address: phone:
39	name: Jeffrey Cabral e-mail:	address: phone:
40	name: Gary Bigelow e-mail:	address: 171 HANOVER S.T phone: 508 558-5134

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BMC DURFEE HIGH SCHOOL

Fall River, MA — Thursday, October 12, 2017

Public Forum #3 — **Sign-In List**

Location: Durfee High School Auditorium - 6:30 PM

	name/e-mail	address /phone number
41	name: Oliver McNeely e-mail: omcneely@fallriverschools.org	address: phone: 617-999-4873
42	name: Derek Viveiros e-mail: Derekviveiros05@gmail.com	address: phone: 774-644-9128
43	name: BRIAN FRAGA e-mail: bfraga@haraldnunes.com	address: 508-742-7287 phone:
44	name: e-mail:	address: phone:
45	name: e-mail:	address: phone:
46	name: e-mail:	address: phone:
47	name: e-mail:	address: phone:
48	name: e-mail:	address: phone:
49	name: e-mail:	address: phone:
50	name: e-mail:	address: phone:

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BMC DURFEE HIGH SCHOOL

Fall River, MA | Thursday, October 12, 2017

Public Forum #3 | **Sign-In List**

Location: Durfee High School Auditorium - 6:30 PM

	name/e-mail	address /phone number
51	name: DEREK FARIAS e-mail: dfarias@fallriverschools.org	address: 6 WINGATE LN FK phone: 774-644-1419
52	name: e-mail:	address: phone:
53	name: e-mail:	address: phone:
54	name: e-mail:	address: phone:
55	name: e-mail:	address: phone:
56	name: e-mail:	address: phone:
57	name: e-mail:	address: phone:
58	name: e-mail:	address: phone:
59	name: e-mail:	address: phone:
60	name: e-mail:	address: phone:

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BMC DURFEE HIGH SCHOOL

Fall River, MA — Thursday, October 12, 2017

Public Forum #3 — **Sign-In List**

Location: Durfee High School Auditorium - 6:30 PM

	name/e-mail	address /phone number
11	name: Tammy Moutinho e-mail: moutinit@comcast.net	address: 1 Grandview Ave, Fhnx. phone:
12	name: Catherine Botelho e-mail: CAthybotelho@comcast.net	address: 9 Wingold St. phone:
13	name: Michael D. [illegible] e-mail: mikecosta@fallriverschools.org	address: 45 Bliss St. phone:
14	name: Robert Cournoyer e-mail: Robert Cournoyer	address: 116 Lafayette Dr phone:
15	name: Scott Donnelly e-mail: griswald542@comcast.net	address: 542 Mt. Hope Ave. phone:
16	name: Paul Coogan e-mail: PCOOGAN@FALLRIVERSCHOOLS.ORG	address: 90 Williamson St F.R phone: 774-319-3348
17	name: DAVID DENNIS e-mail: dDENNIS132@comcast	address: 132 Highland Ave phone: 508 673 2939
18	name: Sandy Dennis e-mail: dendenLLC@comcast.net	address: 132 Highland Ave phone: 508-673-2939
19	name: Matt Malone e-mail:	address: Superintendent phone: FRPS
20	name: Michelle Dionne e-mail:	address: 5 Byron St FR phone:

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BMC DURFEE HIGH SCHOOL

Fall River, MA | Thursday, October 12, 2017

Public Forum #3 | **Sign-In List**

Location: Durfee High School Auditorium - 6:30 PM

	name/e-mail	address /phone number
1	name: Steven Camara e-mail: steve@stevecamara.com	address: 55 LeBaron Street Fall River, MA 02720 phone: 508.678.1463
2	name: Jerry Fallon e-mail:	address: 1006 MAPLE ST phone:
3	name: Donald P. Wood e-mail:	address: 312 Archer St F.R MA phone:
4	name: Shirley M. Andrews e-mail:	address: 2 Palmer St, Barrington, RI phone:
5	name: Judith Terenzi e-mail:	address: 2 Palmer St, Barrington, RI phone:
6	name: Lorna Gregory e-mail:	address: 78 MacArthur Rd Swansea phone:
7	name: John Freeman e-mail:	address: 1787 Highland ST, Fall River phone:
8	name: Bill Keating e-mail:	address: 240 Rich St FR phone:
9	name: Joyce Rodrigues e-mail: jrod254@verizon.net	address: 254 Chavenson St, FR 02723 phone: 508-672-1767
10	name: Joseph Cam e-mail:	address: 460 Montgomery St phone:

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PROPRIETARY ITEMS

The following letter from the Fall River Public Schools requested a vote of the Fall River School Committee to approve the use of five proprietary items required to achieve consistency in security, operation and maintenance in all schools and City-owned buildings. The letter outlined each of the proprietary products requested and the reason for restricting competition to the products identified.

On December 11, 2017, the School Committee acted upon the request and voted unanimously to approve the five proprietary items indicated for use at the new B.M.C. Durfee High School. The December 11, 2017 School Committee Meeting Minutes indicating the vote taken and the results is included in the Local Actions & Approvals section. The Meeting Minutes will not be officially approved until the next School Committee Meeting on January 8, 2018 when a vote will be taken to approve the December 11, 2017 Meeting Minutes. The January 8, 2018 School Committee Meeting Minutes will be forwarded to MSBA when available.

In the Construction Bid Documents, each appropriate specification section will notify the bidders that a proprietary product is required and will provide the general reason for the proprietary need as well as record the date of approval by the Fall River School Committee as the Awarding Authority.

FALL RIVER PUBLIC SCHOOLS

Facilities & Operations

Matthew H. Malone, Ph.D.
Superintendent of Schools

Kenneth C. Pacheco
Chief Operations Officer

December 6, 2017

Fall River School Committee

Re: Request for Approval of Proprietary Items for the New Durfee High School

Dear School Committee:

M.G.L. c. 149 and 149a requires that material specifications for public bid construction projects be written to provide for full competition for each item of material required for construction. For every item specified, the specifications must either name a minimum of three brands of materials or provide a material description that can be met by at least three manufacturers or producers and must allow items equal to those named or described in the specifications.

However, if there are "sound reasons in the public interest" to restrict competition to one product, manufacturer or producer, the request to carry a proprietary item must be reasonably investigated and approved by the Awarding Authority. The decision must be stated in writing in the public records of the Awarding Authority or promptly given in writing by the Awarding Authority to anyone making a written request. The specifications also must notify the bidders that a proprietary product is required and must provide the general reason for the proprietary need and the date of approval by the Awarding Authority.

To comply with the requirements of M.G.L. c. 149 and 149a which govern the design and construction of the Durfee High School, the School Building Committee is requesting that the following items and manufacturers be proprietary to achieve consistency in security, operation and maintenance in all schools in the District. The Fire and Police Departments are in agreement and also recommend these products be considered for authorization for inclusion in the Contract Documents as proprietary items.

- **HVAC Building Automated Controls Software**
  Product: SmartStuxture (Product Information Sheet attached)
  Manufacturer: ENE Systems
  Justification: Fall River Public Schools currently use these building automated controls in many of their Schools across the District and would like this to be the standard for all new schools in the District. Having one building automated controls system across the District is beneficial for training purposes as this system is familiar to the Facilities Staff. Also, using these controls allow a single log in to view potential issues across all Schools in the District which is highly beneficial to Senior Facility Staff.

- **Cloud Managed Security Cameras**
  Product: MV Series Cameras
  Manufacturer: Cisco-Meraki

417 Rock Street, Fall River, MA 02720 (t): 508 675-8420 (f): 508 675-8462

Justification: Security is a top priority for the students. Retrieval of footage on these cameras is done by Staff on a daily basis and needs to be done quickly. Many schools in the District have been converted to this Meraki camera system and it is the goal of the District to make this camera the District standard. Consistency with this camera system allows efficiency and ease of use to the end users with less required training.

- **Cloud Based Wireless Data Access Points**
  Product: MR Series Wireless Access Points
  Manufacturer: Cisco-Meraki
  Justification: Fall River Public Schools currently use these wireless access points in many of their schools across the district and would like this to be the standard for all new wireless access points added in the District. Consistency in the wireless access points utilized allows for one wireless access point management software which promotes efficiency and ease of use. This reason along with the previously noted benefits for the District of consistency in operation, function and maintenance is the basis for the request.

- **Radio Master box for Fire Department Connection**
  Product: Keltron RF778F 8 Zone- UHF
  Manufacturer: Keltron
  Justification: The City of Fall River Fire Department recently converted to a radio master box system in lieu of the old wired loop system. The Keltron product proposed is compatible with this new radio master box system, consistent with radio master boxes installed at other schools and City buildings, and recommended by the Fall River Fire Department.

- **Main Fire Alarm Panel**
  Product: Notifier NFS2 640E
  Manufacturer: Notifier by Honeywell
  Justification: The City of Fall River has recently installed many Notifier fire alarm panels in other Schools and would like to make this the standard for all new buildings. The School Department prefers this panel for ease of use and serviceability. On past projects, this panel is cheaper to service and the service time is faster. Further, the consistency of having one type of fire alarm panel across the District saves on training for Facility Personnel.

The Durfee High School Building Committee believes that approving the above listed items as proprietary is in the best interest of the Fall River Public Schools and the City of Fall River. We therefore request that the School Committee vote to approve these items as proprietary at your next scheduled meeting on December 14, 2017 and make record of the vote so that the Designers can incorporate the required language into the specifications that are in progress. Thank you for your consideration.

Sincerely,

Kenneth C. Pacheco,

Chief Operations Officer

ENE Systems

Overview

ENE Systems, Inc. provides a complete line of Environmental Control and Automation systems. Our products help ensure the safe and efficient use of natural resources through innovative solutions for Industrial, Commercial and Residential Building Customers as well as Equipment Manufacturers throughout the Eastern New England and Rhode Island Regions.

Utilizing the combined experiences, resources and technologies of the Schneider Electric group companies, we have evolved to become the premier controls supplier in the region. Our core competency is implementation of Automation and Control Systems.

Our regional location in Canton, Massachusetts provides support, engineering and management to promote better communication and coordinated project implementation.

Offerings

- Building Automation Systems
- Energy Management Systems
- Energy Advisors
- HVAC Services
- Security Services
- Component Sales
- Network Services
- Comprehensive Training

Reducing the Operating and Energy Costs of Your Fa-

Our open, standards-based technology enables you to fully integrate all building systems on one network – across enterprises – from a single software platform. A single user interface, accessible locally or remotely via the web, gives you a complete view of all your systems. This one interface creates a savings in cost for training, maintenance, administration and operations. Faster response rates to incidents are increased as the network may be accessed locally and remotely.

The efficiency of integrating all systems conserves employee energy and concentrates it on higher business performance. More resources can be allocated toward real-time decision making as all the facility and financial data is condensed in one location and easily accessible. Measure, control and manage your facilities like never before while creating a more productive, energy efficient workplace.

SmartStruxure™
A single solution for your complex needs

A SmartStruxure™ solution enables you to monitor, measure and eliminate waste throughout your building's lifespan, saving you money. Powered by StruxureWare™ Building Operation software, each customized SmartStruxure solution facilitates the exchange and analysis of data from power, lighting, electrical distribution, fire safety, and HVAC.

- Save money by converging systems
- Protect people, property, and your investment
- A focus on making day-to-day operations easy
- User-friendly software
- Ready for growth
- Freedom of choice
- We will leave no customer behind!

ENE SYSTEMS
REDUCING THE OPERATING AND ENERGY COSTS OF YOUR FACILITY
A Schneider Partner Electric

ENE SYSTEMS
REDUCING THE OPERATING AND ENERGY COSTS OF YOUR FACILITY

ENE Systems, Inc. is conveniently located at 480 Neponset Street, Suite 11D in Canton, Massachusetts.

For assistance or further information, please contact one of our representatives listed at (781) 828-6770.

COMPONENTS TEAM

JOHN KING, ext. 231
Sales Executive
jking@enesystems.com
Cell: 781-789-0946

ELLEN RINGLER, ext. 233
Sales Support Representative
eringler@enesystems.com
Cell: 617-780-5765

ENERGY ADVISOR

PAUL MURPHY, CEM, ext. 310
Director, ENE Energy Advisors
pmurphy@enesystems.com
Cell: 781-710-1666

NETWORK TEAM

BARRY THOMPSON, ext. 297
Network Services Manager
bthompson@enesystems.com

MIKE TOMPKINS, ext. 298
Senior Technical Analyst
mtompkins@enesystems.com

JIM TAGUE, ext. 300
Network Engineer
jtague@enesystems.com

SECURITY TEAM

JOHN J. DOHERTY, JR., ext. 227
Sales Engineer
jdoherty@enesystems.com
Cell: 781-424-6509

KARL LENNON
Account Executive
klennon@enesystems.com
Direct: 781-332-0245
Cell: 603-581-8917

TRAINING

ED IANNI, ext. 253
Director of Training
eianni@enesystems.com

SALES TEAM

MICHAEL SARACCO, ext. 271
Director of Sales & Marketing
msaracco@enesystems.com
Cell: 781-401-0216

MASSOUD ATALLAH, ext. 290
Account Executive
matallah@enesystems.com
Cell: 781-364-7034

PATTY CLAPP, ext. 258
Account Executive
pclapp@enesystems.com
Cell: 781-710-1673

JOSE FONTES, ext. 226
Account Executive
jfontes@enesystems.com
Cell: 617-285-6669

KEVIN GREANEY, ext. 252
Account Executive
kgreaney@enesystems.com
Cell: 339-440-2142

TOM JONES, ext. 301
Technical Sales Engineer
tjones@enesystems.com

MIKE KOWALESKI, ext. 234
Account Executive
mkowaleski@enesystems.com
Cell: 617-733-9194

RUSS MACIEL, ext. 256
Account Executive
rmaciel@enesystems.com
Cell: 781-710-1200

ERIK McNEELY, ext. 266
Sales Support Representative
emcneely@enesystems.com

TERRIE O'BRIEN, ext. 316
Account Executive
tobrien@enesystems.com
Cell: 781-710-2978

LISA POULIOT, ext. 273
Sales & Marketing Coordinator
lpouliot@enesystems.com

LARRY SHAFFER, ext. 268
IT Account Executive
lshaffer@enesystems.com
Cell: 617-686-0875

STEPHEN WELCH ext. 227
Sales Support Representative
swelch@enesystems.com
Cell: 781-664-0346

SERVICE TEAM

MIKE POIRIER, ext. 281
Mechanical Service Manager
mpoirier@enesystems.com

VINNY CAMILLO, ext. 285
Service Support Manager
vcamillo@enesystems.com

CHRISTINE CUNNINGHAM, ext. 243
Automation Service Coordinator
ccunningham@enesystems.com

AUDREY COOKE, ext. 276
Mechanical Service Coordinator
acooke@enesystems.com

SYSTEMS DEVELOPMENT

DENNIS TAGUE, ext. 229
Director of Automation Operations
dtague@enesystems.com

STEVE JOANIS, ext. 294
Engineering Manager
sjoanis@enesystems.com

ENE SYSTEMS, INC.
480 Neponset Street, Suite 11D ■ Canton, MA 02021 ■ Tel. (781) 828-6770 ■ Fax (781) 821-5523 ■ www.enesystems.com
17 Virginia Avenue, Suite 201 ■ Providence, RI 02905 ■ Tel. (401) 431-1355 ■ Fax (401) 431-1033
MA License: 1548C ■ S-License: SS-002099 ■ RI License: 4983TSC

A Schneider Partner / Electric

Proud member of InsideIQ Building Automation Alliance

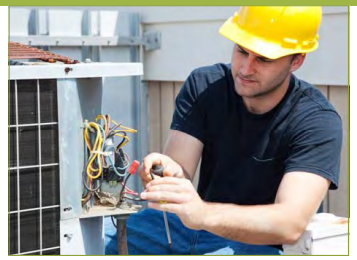
SERVICE

With over 300 customers and 50 field technicians, ENE Systems, Inc. is one of the largest companies servicing both Massachusetts and Rhode Island for over 50 years.

The services we provide are building automation and mechanical systems for colleges, public school districts, hospitals, industrial and commercial buildings. Our service programs can be customized to fit within your budget. These programs can be anything from full comprehensive to preventive maintenance. We are fully staffed to provide 24 hour, 7 day per week service as well as consulting on complex HVAC systems.

BUILDING AUTOMATION SERVICES

- Application Services
- Building Control System On-Site Operator
- Building Control System Operating Support and Operator Training
- Database Backup, Verification and Diagnostics
- Emergency Service
- Firmware Upgrades
- Graphical User Interface Migration
- Remote Diagnostics
- Software Revisions and Patches



MECHANICAL SERVICES

- Comprehensive Heating, Ventilating and Air Conditioning (HVAC) Equipment Maintenance
- Chiller Maintenance
- Boiler & Burner
- Package Rooftop Units
- Air Handlers and Pumps
- Air Filter Maintenance
- Water Treatment
- Pneumatic Control Systems
- Emergency Services
- Mechanical Retrofits

ENERGY ADVISOR

We offer a full scale of energy services to our customers, from consulting to turnkey general contracting and project management of full scale energy projects.

The ENE Energy Advisor tailors our service to meet the needs of the customer. Our service begins with a no cost Site Visit and Consultation where we will meet with your to understand your particular needs. Energy projects can solve a number of different needs, and can be structured in a number of different ways.

We also offer Performance Contracting, which is designed to help those customers who have budget constraints and or require guaranteed saving on their energy projects. Performance Contracting is a useful tool for upgrading inefficient and aging equipment and to help finance the new equipment with future savings.

Our staff of qualified energy consultants and engineers will review your energy bills, operational and maintenance procedures and practices and recommend changes that will yield long term benefits for your organization. We will only offer improvements and projects that demonstrate a solid financial payback with minimal impact to comfort and production.

ENERGY PROGRAMS

- Performance based Contracting
- Energy Consultation
- Comprehensive Audits
- Grant Writing Support
- Utility Rebate Coordination
- Engineering & Design
- Turnkey Project Implementation
- Commissioning
- Maintenance, Measurement and Verification
- Equipment Leasing Programs

SECURITY

With over thirty years of experience in the Security Industry developing and implementing electronic solutions, ENE Security, Inc. is staffed by professionals trained and equipped to give immediate assistance, 24 hours a day, seven days a week.

We create solutions that fit your specific needs. We can link Access Control, ID badging, Video Surveillance, Intrusion Detection and Process Monitoring as a single complete system solution.

INSTALLATION & SERVICE

- Licensed & Insured
- In-House Technical Staff
- ENE Network Services
- Experienced Project Managers
- Pre-Assembly, Testing & Quality Control
- Contract Coordination
- Acceptance Testing & Training
- Reliable 24/7 Hour Service
- Free Loaner Equipment
- Factory Trained Technicians

SYSTEMS & SOLUTIONS

- Card Access & Badging
- CCTV & Surveillance
- Alarm & Intrusion Detection
- Intercom & Emergency Call
- Door Locking Systems
- IP Based Video Systems
- Network Video Recording

ENGINEERING

- Computerized Design & Drafting
- Application of Proven System Design
- Construction Submittal Management
- Local Code Compliance

NETWORK SERVICES

- 24 Hour, 7 Days per week Support
- Backup Strategy Planning
- Block Support Contracts
- Data Recovery
- Disaster Recovery Planning
- E-Commerce Systems
- Email Servers
- Intranet Development
- Intrusion Detection Systems
- IT Planning and Management
- Microsoft Systems Support
- Network Design

NETWORK SERVICES

Since 1982 our engineers have designed, installed and serviced Local and Wide Area Networks, as well as provided hardware and software solutions for many sizes of organizations throughout Eastern New England.

Our Network Services Group provides information systems integration, as well as hardware and software support, helping individuals and small to medium sized companies increase their competitive advantage through technology and Web Design.

ENE Systems, Inc. can increase a client's return on investment through a combination of proactive maintenance, strategic technology and business services. This would include planning, network design implementation and the optimization and security of IT infrastructures.

- Network Integration
- Network Security Systems
- Novell Systems Support
- PC and Server Repair
- Forensic Data Diagnostics
- Proactive PC & Server Maintenance
- Remote Access
- Remote Monitoring Services
- SQL Server Support
- Virtual Private Networks
- Web Site Development
- Wireless Networks

Meraki

Datasheet | **MV Series**

MV Cloud Managed Security Cameras

OVERVIEW

Cisco Meraki's MV family of security cameras are exceptionally simple to deploy and configure. Their integration into the Meraki dashboard, ease of deployment, and use of cloud-augmented edge storage, eliminate the cost and complexity required by traditional security camera solutions.

Like all Meraki products, MV cameras provide zero-touch deployment. Using just serial numbers, an administrator can add devices to the Meraki dashboard and begin configuration before the hardware even arrives on site. In the Meraki dashboard, users can easily stream video and create video walls for monitoring key areas across multiple locations without ever configuring an IP or installing a plugin.

INTRODUCING MV

With an unobtrusive industrial design suitable for any setting—and available in indoor (MV21) and outdoor (MV71) models—the MV family simplifies and streamlines the unnecessarily complex world of security cameras. By eliminating servers and video recorders, MV frees administrators to spend less time on deployment and maintenance, and more time on meeting business needs.

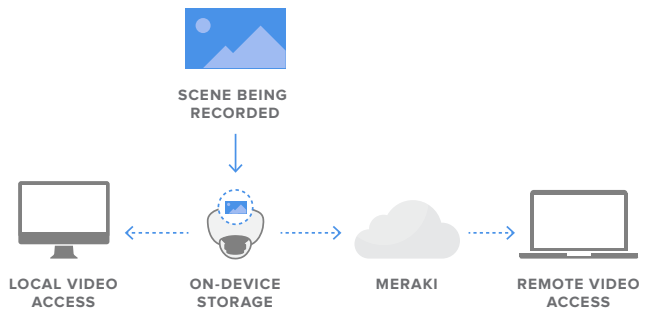
High-endurance solid state on-camera storage eliminates the concern of excessive upload bandwidth use and provides robust failover protection. As long as the camera has power it will continue to record, even without network connectivity. Historical video can be quickly searched and viewed using motion-based indexing, and advanced export tools allow evidence to be shared with security staff or law enforcement easily.

Because the cameras are connected to Meraki's cloud infrastructure, security updates and new software are pushed to customers automatically. This system provides administrators with the peace of mind that the infrastructure is not only secure, but that it will continue to meet future needs.

Simply put, the MV brings Meraki magic to the security camera world.

Product Highlights

- Meraki dashboard simplifies operation
- Cloud-augmented edge storage eliminates infrastructure
- Suitable for deployments of all sizes: 1 camera or 1000+
- Intelligent motion indexing with search engine
- Built-in video analytics tools
- Secure encrypted control architecture
- No special software or browser plugins required
- Granular user access controls



CUTTING EDGE ARCHITECTURE

Meraki's expertise in distributed computing has come to the security camera world. With cloud-augmented edge storage, MV cameras provide ground breaking ease of deployment, configuration, and operation. Completely eliminating the Network Video Recorder (NVR) not only reduces equipment CAPEX, but the simplified architecture also decreases OPEX costs.

Each MV camera comes with integrated, ultra reliable, industrial-grade storage. This cutting edge technology allows the system to efficiently scale to any size because the storage expands with the addition of each camera. Plus, administrators can rest easy knowing that even if the network connection cuts out, the cameras will continue to record footage.

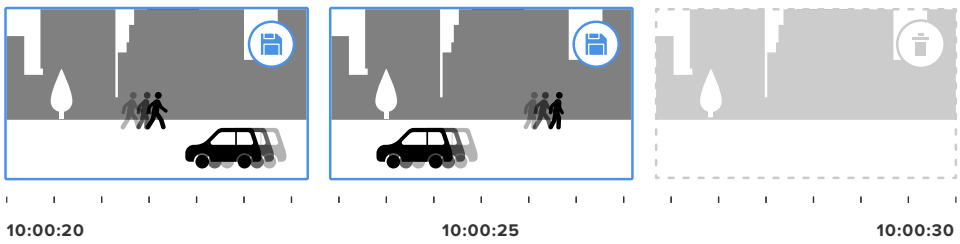
OPTIMIZED RETENTION

MV takes a unique approach to handling motion data by analyzing video on the camera itself, but indexing motion in the cloud. This hybrid motion-based retention strategy plus scheduled recording give users the ability to define the video retention method that works best for every deployment.

The motion-based retention tool allows users to pick the video bit rate and frame rate to find the perfect balance between storage length and image quality. All cameras retain continuous footage as a safety net for the last 72 hours before intelligently trimming stored video that contains no motion, adding one more layer of security.

Determine when cameras are recording, and when they're not, with scheduled recording. Create schedule templates for groups of cameras and store only what's needed, nothing more. Turn off recording altogether and only view live footage for selective privacy.

Best of all, the dashboard provides a real-time retention estimate for each camera, removing the guesswork.



Meraki

Datasheet | **MR Series**

MR Cloud Managed Wireless Access Points

Overview

The Meraki MR series is the world's first enterprise-grade line of cloud-managed WLAN access points. Designed for challenging enterprise environments, the MR access points use advanced 802.11ac and 802.11n technologies including MIMO, beam forming and channel bonding to deliver the throughput and reliable coverage required by demanding business applications.

Centralized Cloud Management

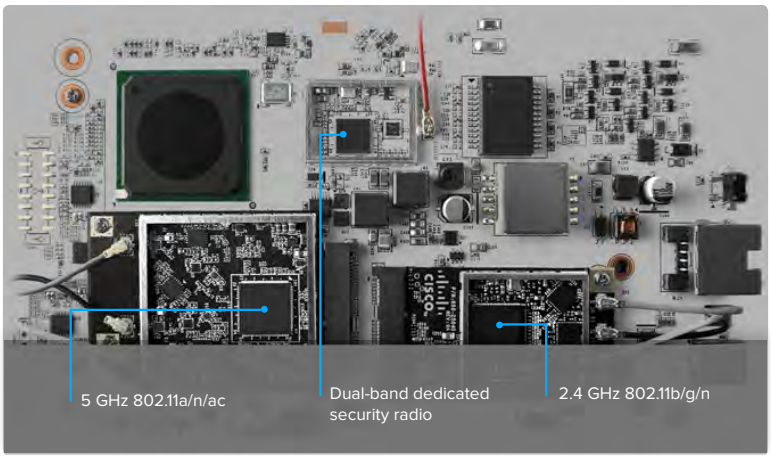
The award-winning Cisco Meraki cloud management architecture provides powerful and intuitive centralized management, while eliminating the cost and complexity of traditional on-site wireless controllers. Seamlessly manage campus-wide WiFi deployments and distributed multi-site networks with zero-touch access point provisioning, network-wide visibility and control, cloud-based RF optimization, seamless firmware updates and more. With an intuitive browser-based user interface, Meraki WLANs configure in minutes without training or dedicated staff. Adding new sites to a network takes minutes, not hours or days, and there's no need to train additional staff to monitor or manage the remote networks. Meraki devices self-provision, enabling large campus and multi-site deployments without on-site IT.

Class-Leading Enterprise Features

The MR series comes equipped with industry-leading features that make them ideal for demanding enterprise deployments:

- Self-configuring, plug-and-play deployment
- 802.11ac and 802.11n MIMO with up to three spatial streams, built for voice and video
- Integrated enterprise security and guest access
- Dedicated radio for security and RF optimization with integrated spectrum analysis (indoor models)
- Integrated intrusion detection and prevention system (WIDS/WIPS)
- Self-learning application-aware traffic analytics engine
- Flexible group policy engine for creating and applying application-aware policies by network, device-type, and end-user
- Self-healing, zero-configuration mesh
- Role-based administration and automatic, scheduled firmware upgrades delivered over the web
- E-mail and text message alerts upon power loss, downtime, or configuration changes

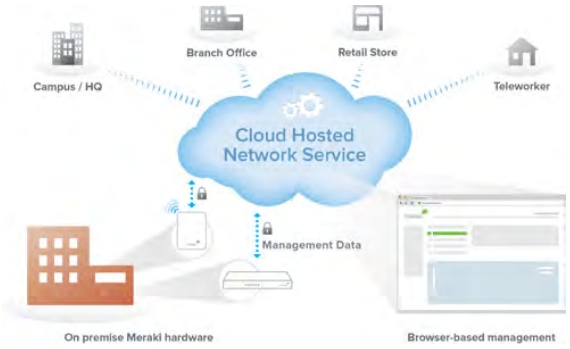
Inside the Meraki MR
MR32 shown, features vary by model



Rapid Deployment and Scalability

Built from the ground up for multi-site networks, Meraki access points have revolutionized distributed branch wireless networking. Zero-touch deployments, multi-site visibility and control, and automated alerts make deploying, securing, and centrally managing branch networks a breeze.

The Meraki cloud-managed architecture enables plug and play branch deployments and provides centralized visibility and control across any number of distributed locations. Since Meraki MR series APs are managed entirely through the Meraki web-based dashboard, configuration and diagnostics can be performed remotely just as easily as they can be performed on-site, eliminating costly field visits. Each device downloads its configuration via Meraki's cloud, applying your network and security policies automatically so you don't have to provision them on-site.



Meraki Cloud Management Architecture

High Performance RF Design

Every Meraki access point continuously and automatically monitors its surroundings to maximize WiFi performance. By measuring channel utilization, signal strength, throughput, signals from non-Meraki APs, and non-WiFi interference, Meraki APs automatically optimize WiFi performance of individual APs and maximize system-wide performance.

Meraki APs have been deployed and proven in the most demanding environments, supporting more than 100 users per AP and collectively serving hundreds of Megabits per second of user traffic to thousands of devices. By eliminating traditional hardware controllers, Meraki also eliminates the performance bottleneck that often chokes high-density wireless deployments.

By measuring utilization from neighboring APs, detecting WiFi signals from non-Meraki APs, and identifying non-WiFi interference, Meraki APs continuously stay on top of changing and challenging conditions. Tools such as real-time spectrum analysis and live channel utilization deliver immediate information on the RF environment at any part of the network. Even in dynamic environments, Meraki networks automatically detect and adapt to interference from non-WiFi sources.

Real-time and historical metrics ensure maximum system-wide performance. Wireless channels, AP output power, and client connection settings are automatically adapted to changing performance and interference conditions, eliminating the need for tedious manual adjustment of dozens of independent parameters.

Mesh networking, included in every Meraki AP, extends coverage to hard to wire areas and creates a self-healing network that is resilient to cable and switch failures, continuing to operate despite failures or configuration changes in the rest of the network, without the need for manual configuration or optimization.

City of Fall River
Massachusetts
Fire Department Headquarters
Bureau of Fire Prevention and Investigation

JASIEL F. CORRIEA II
Mayor

JOHN LYNCH
Fire Chief
ROGER ST. MARTIN
Deputy Chief, City Fire Marshal

June 10, 2017

Municipal Fire Alarm System User/Installation Contractor,

The Fall River Fire Department has installed a new UL listed Radio Fire Alarm monitoring and receiving system to replace the outdated Verizon copper reverse polarity BANA circuits. The preferred method of fire alarm monitoring is connecting directly to the Fall River Combined Public Safety Dispatch Center through the municipal fire alarm system. As per 527 CMR 1 and 780 CMR the Fire Chief must accept the connection of new and existing fire alarm systems in non-municipal buildings to NFPA 72 approved central station monitoring services. The annual Fire alarm permit fee of $300.00 will remain in force if a private central station is used. The following requirements must be adhered to in the interest of Public Safety. The Fall River Fire Department must be notified immediately if:

- The protected premises supervised by the monitoring company discontinue service for any reason per NFPA 72 section 26.3.4.7 & 527 CMR 1 Chapter 13.7.3.4.7
- The fire alarm system within the building is shut off even for routine maintenance. Per 527 CMR 1 Chapter 13.1.8 & 13.3.18
- The sprinkler system is shut down even for routine maintenance. Per 527 CMR 1 Chapter 13.1.8 & 13.3.1.8
- The protected premises misses the public emergency alarm reporting system 24 HR test in accordance with NFPA 72 and Per 527 CMR 1 Chapter 10.4.1 &10.4.4

Failure of any of the above requirements can lead to non-approved status of the central station monitoring service. The Central Station must send a fire signal regardless if the responsible person reports the signal is a false alarm. This information must be given to the call taker at the Fall River Public Safety Answering Point (PSAP). The caller reporting the fire signal to the PSAP must refer to the building by the address, business name and fire box number assigned by the Fall River Fire Department. If there are any questions please do not hesitate to contact the Fall River Fire Prevention Bureau.

Respectfully,

Roger St. Martin
Deputy Chief FPB

140 Commerce Drive • Fall River, MA 02720 • TEL (508) 324-2740
FAX (508) 324-2699 • EMAIL deputyfpb@frfd.org

NOREL Service Co., Inc.

Leaders in Fire & Security Systems and Service

FALL RIVER KELTRON WIRELESS SUBSCRIBER CONTRACTOR PRICING

Keltron RF778F 8 zone UHF UL Listed subscriber UHF radio..... $ 2,450.00

- Includes back up battery
- Includes can mounted 2.5 dB "rubber duck" antenna
- Includes "doorbell" style step down transformer (24 to 16.5) for use in existing fire alarm panels
- Includes programming

Options:

- 3 dB External antenna with 4" standoff mount, cable and connectors (not to exceed 70' from subscriber).....$ 500.00
- Keltron DataTap for point/zone ID reporting (this would require fire department approval and is subject to FACP compatibility)...$ 275.00

NOREL Service Co., Inc. 230 2nd Avenue Waltham, MA 781-768-5500 **norelservice.com**

City of Fall River, Massachusetts

Fire Department Headquarters

Bureau of Fire Prevention and Investigation

140 Commerce Drive P.O. Box 749
Fall River, Massachusetts 02722-0749
Telephone (508) 324-2740
FAX (508) 672-5993

Chief John Lynch
Fire Chief

Dep. Chief Roger St. Martin
City Fire Marshal

Application For Fire Alarm Permit

Name of Building or Occupancy: _____

Address: _____

Date Permit Granted: _____ Contact Person/Telephone#: _____

Business Telephone #: _____ Email Address: _____

Name/Telephone # of Applicant: _____

Billing Information: _____

Fee-$375.00 please make check payable to: **The City of Fall River city of Fall River**. Check # _____

Fire Alarm Company /Telephone #: _____

Names & Telephone Numbers for Emergency Contacts

Primary Contact: _____ Telephone #s _____

Secondary Contact: _____ Telephone #s _____

Additional Contact: _____ Telephone #s _____

For Official Use Only

	YES	DATE	N/A- COMMENTS
Municipal Box #			
Site:			
Zone:			
Posts:			
In CAD:			
In Excel spread sheet			
In Keltron:			
Completed/ Tested by:			

RADIO BOX ZONES

1. FIRE
2. FIRE TROUBLE (PANEL, WIRING, BATTERIES)
3. FIRE SUPERVISORY (SPRINKLERS,TAMPERS)
4. DUCT SMOKES
5. SPARE ZONE
6. PANIC (SCHOOLS) * optional
7. BURGLARY (SCHOOLS) * optional
8. RADIO BOX DOOR TAMPER

For B.D.A. → School radios may be added as well

FALL RIVER

FREQUENCIES FOR POLICE AND FIRE CHANNELS

FIRE CHANNEL #1

RECEIVER- 453.37500

TRANSMITTER- 458.37500

TYPE- R, TONE-203.5

FIRE CHANNEL #2

RECEIVER- 453.85000

TRANSMITTER- 458.85000

TYPE- 203.5, TONE-203.5

POLICE CHANNEL #1

RECEIVER- 482.36250

TRANSMITTER- 485.36250

TYPE- 203.5, TONE- PL

POLICE CHANNEL #2

RECEIVER- 482.68750

TRANSMITTER- 485.68750

TYPE- 203.5, TONE- PL

City of Fall River
Massachusetts
Fire Department Headquarters
Bureau of Fire Prevention and Investigation

JASIEL F. CORRIEA II
Mayor

JOHN LYNCH
Fire Chief
ROGER ST. MARTIN
Deputy Chief, City Fire Marshal

May 1, 2017

Dear Municipal Fire Alarm System User,

The City of Fall River Fire Department has added a state of the art UL listed two-way radio fire alarm box and central station monitoring system to their Combined Public Safety Dispatch Center (CPSDC). The City has installed a network of Keltron transceivers utilizing AES radio technology which are installed in municipal and school buildings on a dedicated City licensed FM radio frequency. These signals are received and acknowledged at the CPSDC. This two-way radio fire alarm box system is a mesh network redundant type.configuration and meets the NFPA 72 National Fire Alarm and Signaling Code Standard. This means that each radio box receives and transmits to a nearby radio box which acts as a repeater providing a comprehensive network for signal transmission and reception throughout the city to the new central station equipment installed at the CPSDC.

This system will eventually replace the Verizon dedicated copper reverse polarity BANA telephone line circuits that have served us well for many decades but are now outdated technology and prone to trouble especially during adverse weather conditions and are no longer installed by Verizon. If your current dedicated alarm line circuit is in good operating condition, Verizon will continue to bill you for the existing BANA circuit if you wish to remain on that system for the near future.

We strongly encourage each user to upgrade their system to the new technology offered by the City. This system was designed to insure the safest and quickest response to fire alarm signals and troubles. The cost of the radio box is reasonable and will quickly be offset by the elimination of your current Verizon monthly bill. Your existing alarm dealer will be able to purchase and install these radio boxes easily on your existing fire alarm equipment.

There will be no additional fee to monitor the radio boxes within the network. Your current Fire Alarm annual permit fee will include the monitoring of your new radio box. This will eliminate additional monitoring fees and signal delays that may occur when private central stations outside of the City radio network are utilized. The City central station equipment is also capable of directly accepting signals from digital dialers that are built into most alarm panels and use conventional POTS (Plain Old Telephone Service)

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FAX (508) 324-2699 • EMAIL deputyfpb@frfd.org

lines in addition to cellular communicators (such as UPLINK, etc.) and internet based solutions.

As these alternate methods of communication usually cause an additional delay in dispatch time and fall outside of the UL listing for the City radio box system and equipment, they will not be encouraged as a substitute for the City Fire Radio Network or the City Central Station monitoring equipment. Use of any equipment outside of the City radio network specifications listed below must be approved by the Fire Chief, City Fire Marshall or their designee.

We have included the specifications of the radio fire alarm system below. You may choose the licensed fire alarm installation contractor of your choice to install and connect a fire alarm radio box as specified below to the City's municipal radio network. This was the suggestion by the Massachusetts Inspector General's legal department in order to maintain competition among fire alarm installation contractors.

Radio Box (Transceivers) Specifications

- The transceivers shall be UL 864 Edition 9 listed and NFPA 72 compliant.
- All communications shall utilize fully supervised 2 way digital packet technology. All transmissions shall continue until acknowledgement of receipt is received from the receiver. Each Radio Box unit shall be UL listed or FM approved for use in Municipal Fire Alarm Signaling, be capable of operating on FM frequency 456.5875 MHz; integrate with our existing Keltron wireless radio alarm network and accept the FRFD 4 digit cypher code.
- Each Radio Box shall meet all narrow-band requirements as per NTIA (National Telecommunications and Information Administration) standards.
- Each Radio Box shall be a receiver, transmitter, and repeater (transceiver) capable of establishing multiple routes to the receiver through other transceivers in the network automatically. Each unit shall be capable of repeating the signals of surrounding transceivers on the network to increase network strength and coverage. Radios dependent on a single path to the receiver or requiring dedicated repeaters shall not be acceptable.
- Each Radio Box shall have a trouble signal connection available to be connected to a local FACP being monitored. This shall allow the Radio Box the ability to sound a trouble signal at the FACP upon detection of network inactivity.
- All Radio Boxes shall utilize PNI (positive non-interference) technology assuring signals from two or more units attempting to transmit simultaneously will be received clearly and uninterrupted.
- Radio Boxes shall be capable of transmitting supplementary contact ID data via a Tele-Tap or similar connection from approved FACPs. Units shall have 8 outputs and be able to accept input from systems utilizing dry contacts or line reversal inputs.
- Radio Boxes check in time shall be adjustable from 1 minute to 24 hours.

- Antenna shall be powerful enough to enable the repeating of signals to/from surrounding transceivers on the network to increase network strength and coverage.
- Radio Boxes shall provide 60 hour battery standby for powered units.
- All Radio Boxes and existing or new Fire Alarm Control Panels (FACP) shall have a tamper switch which indicates an off-normal condition (supervisory signal) at the CPSDS when the alarm panel(s) or radio box door is opened. Such signal shall be self-restoring to normal (non-latching) when the door is secured in the closed position.

You may contact the Fall River Fire Prevention Bureau if you have any questions or require additional information. We look forward to working with you to make this much needed transition as easy as possible.

Respectfully,

Roger St. Martin,
Deputy Fire Chief
City Fire Marshal

NFS2-640(E)

Intelligent Addressable Fire Alarm System

NOTIFIER® by Honeywell

Intelligent Fire Alarm Control Panels

General

The NFS2-640 intelligent Fire Alarm Control Panel is part of the ONYX® Series of Fire Alarm Controls from NOTIFIER.

In stand-alone or network configurations, ONYX Series products meet virtually every application requirement.

The NFS2-640's modular design makes system planning easier. The panel can be configured with just a few devices for small building applications, or networked with many devices to protect a large campus or a high-rise office block. Simply add additional peripheral equipment to suit the application.

A host of other options are available, including single- or multi-channel voice; firefighter's telephone; LED, LCD, or PC-based graphic annunciators; networking; advanced detection products for challenging environments; wireless fire protection; and many additional options.

***NOTE:** Unless called out with a version-specific "E" at the end of the part number, "NFS2-640" refers to models NFS2-640 and NFS2-640E; similarly, "CPU2-640" refers to models CPU2-640 and CPU2-640E.*

NFS2-640-DVC_right.jpg

NFS2-640

Features

- Certified for seismic applications when used with the appropriate seismic mounting kit.
- Approved for Marine applications when used with listed compatible equipment. *See DN-60688.*
- One, expandable to two, isolated intelligent Signaling Line Circuit (SLC) Style 4, 6 or 7.
- Wireless fire protection using SWIFT Smart Wireless Integrated Fire Technology. See DN-60820.
- Up to 159 detectors and 159 modules per SLC; 318 devices per loop/636 per FACP or network node.
  - Detectors can be any mix of ion, photo, thermal, or multi-sensor; wireless detectors are available for use with the FWSG.
  - Modules include addressable pull stations, normally open contact devices, two-wire smoke detectors, notification, or relay; wireless modules are available for use with the FWSG.
- Standard 80-character display, 640-character large display (NCA-2), or display-less (a node on a network).
- Network options:
  - High-speed network for up to 200 nodes (NFS2-3030, NFS2-640, NFS-320(C), NFS-320SYS, NCA-2, DVC-EM, ONYXWorks, NFS-3030, NFS-640, and NCA).
  - Standard network for up to 103 nodes (NFS2-3030, NFS2-640, NFS-320(C), NFS-320SYS, NCA-2, DVC-EM, ONYXWorks, NCS, NFS-3030, NFS-640, NCA, AFP-200, AFP-300/400, AFP-1010, and AM2020). Up to 54 nodes when DVC-EM is used in network paging.
- 6.0 A switch mode power supply with four Class A/B built-in Notification Appliance Circuits (NAC). Selectable System Sensor, Wheelock, or Gentex strobe synchronization.
- Built-in Alarm, Trouble, Security, and Supervisory relays.
- VeriFire® Tools online or offline programming utility. Upload/Download, save, store, check, compare, and simulate panel databases. Upgrade panel firmware.
- Autoprogramming and Walk Test reports.
- Multiple central station communication options:
  - Standard UDACT
  - Internet
  - Internet/GSM
- 80-character remote annunciators (up to 32).
- EIA-485 annunciators, including custom graphics.
- Printer interface (80-column and 40-column printers).
- History file with 800-event capacity in nonvolatile memory, plus separate 200-event alarm-only file.
- Alarm Verification selection per point, with automatic counter.
- Presignal/Positive Alarm Sequence (PAS).
- Silence inhibit and Auto Silence timer options.
- March time/temporal/California two-stage coding/strobe synchronization.
- Field-programmable on panel or on PC, with VeriFire Tools program check, compare, simulate.
- Full QWERTY keypad.
- Battery charger supports 18 – 200 AH batteries.
- Non-alarm points for lower priority functions.
- Remote ACK/Signal Silence/System Reset/Drill via monitor modules.
- Automatic time control functions, with holiday exceptions.
- Surface Mount Technology (SMT) electronics.
- Extensive, built-in transient protection.
- Powerful Boolean logic equations.
- Support for SCS Series smoke control system in HVAC mode.

NCA-2 as Primary Display

- Backlit, 640-character display.
- Supports SCS Series smoke control system in FSCS mode when SCS is connected to the NCA-2 used as primary display.
- Supports DVC digital audio loop.
- Printer and CRT EIA-232 ports.
- EIA-485 annunciator and terminal mode ports.
- Alarm, Trouble, Supervisory, and Security relays.

FlashScan® Intelligent Features

- Polls up to 318 devices in less than two seconds.
- Activates up to 159 outputs in less than five seconds.
- Multicolor LEDs blink device address during Walk Test.
- Fully digital, high-precision protocol (U.S. Patent 5,539,389).
- Manual sensitivity adjustment — up to nine levels.
- Pre-alarm ONYX intelligent sensing — up to nine levels.
- Day/Night automatic sensitivity adjustment.
- Sensitivity windows:
  - **– Ion** – 0.5 to 2.5%/foot obscuration.
  - **– Photo** – 0.5 to 2.35%/foot obscuration.
  - **– Laser (VIEW®)** – 0.02 to 2.0%/foot obscuration.
  - **– Acclimate Plus™** – 0.5 to 4.0%/foot obscuration.
  - **– IntelliQuad™** – 1.0 to 4.0%/foot obscuration.
  - **– IntelliQuad™ PLUS –** 1.0 to 4.0%/foot obscuration
- Drift compensation (U.S. Patent 5,764,142).
- Degraded mode — in the unlikely event that the CPU2-640 microprocessor fails, FlashScan detectors revert to degraded operation and can activate the CPU2-640 NAC circuits and alarm relay. Each of the four built-in panel circuits includes a Disable/Enable switch for this feature.
- Multi-detector algorithm involves nearby detectors in alarm decision (U.S. Patent 5,627,515).
- Automatic detector sensitivity testing (NFPA-72 compliant).
- Maintenance alert (two levels).
- Self-optimizing pre-alarm.

FSL-751 (Very Intelligent Early Warning) Smoke Detection Technology

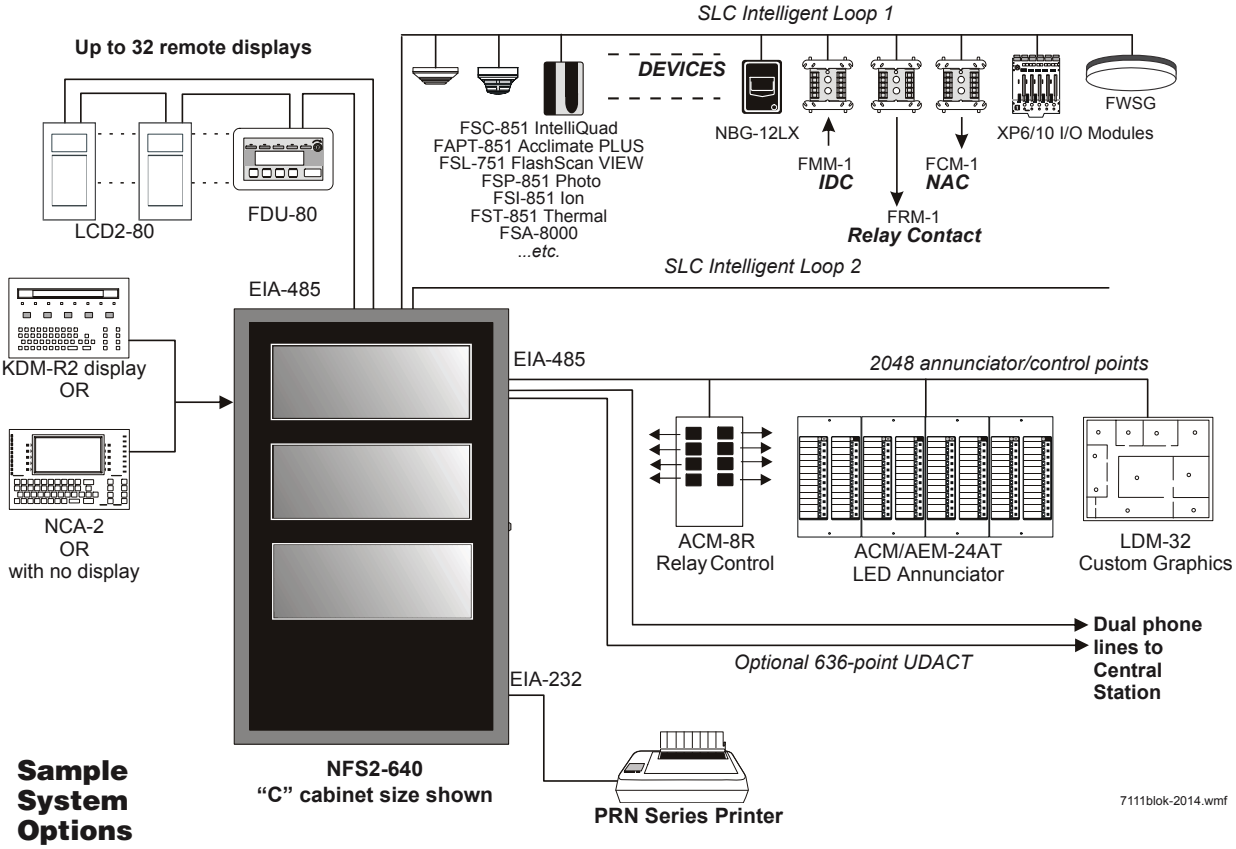
- Advanced ONYX intelligent sensing algorithms differentiate between smoke and non-smoke signals (U.S. Patent 5,831,524).
- Addressable operation pinpoints the fire location.
- Early warning performance comparable to the best aspiration systems at a fraction of the lifetime cost.

FAPT-851 Acclimate Plus Low-Profile Intelligent Multi-Sensor

- Detector automatically adjusts sensitivity levels without operator intervention or programming. Sensitivity increases with heat.
- Microprocessor-based technology; combination photo and thermal technology.
- Low-temperature warning signal at 40°F ± 5°F (4.44°C ± 2.77°C).

FSC-851 IntelliQuad Advanced Multi-Criteria Detector

- Detects all four major elements of a fire (smoke, heat, CO, and flame).
- Automatic drift compensation of smoke sensor and CO cell.
- High nuisance-alarm immunity.



Sample System Options

FALL RIVER SCHOOL COMMITTEE

Mayor Jasiel F. Correia, II
Chairman

Mark Costa
Vice-Chairman

Gabriel Andrade
Paul Coogan
Dr. Edward Costar
Joseph Martins
Melissa Panchley

Dr. Matthew H. Malone
Superintendent of Schools

Tonya Casey
Administrative Assistant

MEMORANDUM

TO: Dr. Matthew Malone
Superintendent

FROM: Tonya Casey
Administrative Assistant for School Committee Services

DATE: Thursday, December 14, 2017

RE: School Committee Actions

At a Regular Meeting of the Fall River School Committee, held on Monday, December 11, 2017, the following actions were taken:

MOTION: Mr. Andrade-Mr. Coogan: To approve all meeting minutes.
No discussion

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Martins-Dr. Costar: To accept all donations.
No discussion

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Coogan-Mr. Andrade: To approve all other contracts.
No discussion

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Martins-Mr. Andrade: To approve the Facility Management Corporation contract.
Discussion on file

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Dr. Costar-Mr. Coogan: To approve all grants.
No discussion

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Dr. Costar-Mr. Andrade: To refer the discussion of public comment to the Policy Subcommittee.
Discussion on file

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Martins-Mr. Andrade: To amend the Indirect Cost Agreement to state that employees and resources shared between the School Department and other departments will be the total cost for the identified services multiplied by the percentage of use by the School Department.
Discussion on file

A roll call showed:

Mr. Andrade: No	Mr. Martins: Yes
Mr. Coogan: No	Mrs. Panchley: No
Mr. Costa: No	Mayor Correia: Absent
Dr. Costar: No	

One was in favor **Five were opposed** **One was absent** (Mayor Correia) **Motion failed**

MOTION: Mrs. Panchley-Mr. Andrade: To approve the Indirect Cost Agreement.
Discussion on file

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Coogan-Mr. Andrade: To approve the position conversion of a vacant accountant SNON position to a clerk.
Discussion on file

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mrs. Panchley-Mr. Coogan: To approve the request for renovations to the Administration Building through CPA funding .
No discussion
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Martins-Mr. Andrade: To approve the request of proprietary items for the new Durfee High School.
Discussion on file
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Coogan-Mr. Andrade: To approve the adoption of policy BIBA: School Committee Conferences, Conventions, and Workshops.
No discussion
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mrs. Panchley-Mr. Coogan: To approve the adoption of the two reviewed policies.
No discussion
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Andrade-Mr. Coogan: To approve the adoptions of all other policies that are listed.
No discussion
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Martins-Mrs. Panchley: To approve the adoption of policy BBA: School Committee Powers and Duties with the amendment.
Discussion on file

A roll call showed:

Mr. Andrade: Yes	Mr. Martins: Yes
Mr. Coogan: Yes	Mrs. Panchley: Yes
Mr. Costa: Yes	Mayor Correia: Absent
Dr. Costar: Yes	

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Coogan-Mr. Martins: To approve the Year-to-Date Budget Report.
Discussion on file
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Martins-Mrs. Panchley: To place the FYI portion of the agenda on file.
No discussion
Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Andrade-Mr. Martins: To enter into executive session.

Mr. Costa asked for a roll call to enter into executive session.

Mr. Andrade: Yes
Mr. Coogan: Yes
Mr. Costa: Yes
Dr. Costar: Yes
Mr. Martins: Yes
Mrs. Panchley: Yes
Mayor Correia: Absent

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed** (6:39 p.m.)

MOTION: Mr. Andrade-Mrs. Panchley: To approve the contract between the Fall River School Committee and Mr. Brian Mikolazyk.
No discussion

A roll call showed:
Mr. Andrade: Yes
Mr. Coogan: Yes
Mr. Costa: Yes
Dr. Costar: Yes
Mr. Martins: Yes
Mrs. Panchley: Yes
Mayor Correia: Absent

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Andrade-Mrs. Panchley: To approve the contract between the Fall River School Committee and Mr. Rene Kochman.
No discussion

A roll call showed:
Mr. Andrade: Yes
Mr. Coogan: Yes
Mr. Costa: Yes
Dr. Costar: Yes
Mr. Martins: Yes
Mrs. Panchley: Yes
Mayor Correia: Absent

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Andrade-Dr. Costar: To approve the contract between the Fall River School Committee and Ms. Jessica Rodriguez.
No discussion

A roll call showed:
Mr. Andrade: Yes
Mr. Coogan: Yes
Mr. Costa: Yes
Dr. Costar: Yes
Mr. Martins: Yes
Mrs. Panchley: Yes
Mayor Correia: Absent

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mrs. Panchley-Mr. Andrade: To approve the executive session minutes from the November 13, 2017 Regular Meeting of the Fall River School Committee.
No discussion

A roll call showed:
Mr. Andrade: Yes
Mr. Coogan: Yes
Mr. Martins: Yes
Mrs. Panchley: Yes

Mr. Costa: Yes
Dr. Costar: Yes
Mayor Correia: Absent

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed**

MOTION: Mr. Andrade-Dr. Costar and Mrs. Panchley: To adjourn.
No discussion

A roll call showed:

Mr. Andrade: Yes
Mr. Coogan: Yes
Mr. Costa: Yes
Dr. Costar: Yes
Mr. Martins: Yes
Mrs. Panchley: Yes
Mayor Correia: Absent

Six were in favor **None were opposed** **One was absent** (Mayor Correia) **Motion passed** (7:22 PM)

cc: Leadership Team; file

MASSACHUSETTS HISTORICAL COMMISSION

Appendix A

APPENDIX A
MASSACHUSETTS HISTORICAL COMMISSION
220 MORRISSEY BOULEVARD
BOSTON, MASS. 02125
617-727-8470, FAX: 617-727-5128

PROJECT NOTIFICATION FORM

Project Name: BMC Durfee High School

Location / Address: 360 Elsbree Street

City / Town: Fall River, MA 02720

Project Proponent

Name: Matthew H. Malone, Ph.D., Superintendent of Schools

Address: 417 Rock Street

City/Town/Zip/Telephone: Fall River, Massachusetts 02720

Agency license or funding for the project (list all licenses, permits, approvals, grants or other entitlements being sought from state and federal agencies).

Agency Name	Type of License or funding (specify)
Massachusetts School Building Authority (MSBA)	School Building Grant Program

Project Description (narrative):
See attached.

Does the project include demolition? If so, specify nature of demolition and describe the building(s) which are proposed for demolition.

Yes, the existing core academic building. See attached.

Does the project include rehabilitation of any existing buildings? If so, specify nature of rehabilitation and describe the building(s) which are proposed for rehabilitation.

Yes, the existing athletic building. See attached.

Does the project include new construction? If so, describe (attach plans and elevations if necessary).
Yes, see attached.

APPENDIX A (continued)

To the best of your knowledge, are any historic or archaeological properties known to exist within the project's area of potential impact? If so, specify.

What is the total acreage of the project area?

Woodland	6.72	acres	Productive Resources:		
Wetland	0.95	acres	Agriculture	N/A	acres
Floodplain	N/A	acres	Forestry	N/A	acres
Open space	23.99	acres	Mining/Extraction	N/A	acres
Developed	33.15	acres	Total Project Acreage	63.86	acres

What is the acreage of the proposed new construction? 63.86 acres

What is the present land use of the project area?

Educational Facility (High School), Athletic Track/Field, Parking

Please attach a copy of the section of the USGS quadrangle map which clearly marks the project location.

See attached Figure 1 USGS Topographic Map which delineates the Project Area.

This Project Notification Form has been submitted to the MHC in compliance with 950 CMR 71.00.

Signature of Person submitting this form: _____ Date: 12/10/2017

Name: Troy L Randall, AIA, LEED AP BD+C, Partner, Ai3 Architects LLC

Address: 526 Boston Post Road

City/Town/Zip: Wayland, Massachusetts 01778

Telephone: 508-358-0790

REGULATORY AUTHORITY

950 CMR 71.00: M.G.L. c. 9, §§ 26-27C as amended by St. 1988, c. 254.

BMC Durfee High School

Proposed New Construction / Renovation High School Project

Massachusetts Historical Commission
Project Notification Submittal

December 14, 2017

Existing BMC Durfee High School Building Entrance

Prepared by:

architects

526 Boston Post Road
Wayland, MA 01778

Regulatory Requirements:

The proposed project will be undertaken through a partnership between the City of Fall River (City) and the Massachusetts School Building Authority (MSBA), therefore the project is subject to review by the Massachusetts Historical Commission (MHC) under Massachusetts General Law 950, CMR 71.00

Project Description:

Existing BMC Durfee Site:
BMC Durfee High School consists of one building constructed in 1978. The site is located at 360 Elsbree Street, Fall River, MA on 63.86± acres of land according to the City of Fall River ("City") Assessors Database (Parcel P-28-0001). The High School currently accommodates approximately 2,250 students. The site is accessible via four two-way driveways, one each off Elsbree Street, Chestnut Street, Hood Street, and Weetamoe Street. The site is furnished with school buildings, athletic facilities, parking facilities, and associated structures.

The site is bounded by residential properties and Langley Street to the north and Elsbree Street to the east. The site is bound to the south by Stanley Street and the Spencer Borden Elementary School. The site is bound to the west by Chestnut Street, residential properties, and wooded wetlands behind the James Tansey Elementary School.

The proposed site design takes into consideration, and interacts with, the existing school uses. Through construction phasing, planning, and coordination, the new school will be able to be constructed with minimal impact to the educational environment while allowing required elements, education, and construction to operate simultaneously in a safe manner.

The School Building Committee had the environmental consultant perform an ASTM Phase I Environmental Site Assessment (ESA) during the initial planning / investigation phase of the project. The results of this assessment indicate no previous knowledge or findings of any historic or archaeological properties existing within the project boundaries.

Historic & Archeological Resources:
There are no historical buildings or monuments on the site listed in the National Historical Registry, or in the Massachusetts Cultural Resource Information System (MACRIS). However, the Fall River Register of Historic Structures lists the Old Durfee High School Telescope and Durfee Bells as historical monuments.

The National Register Nomination does not identify a potential for prehistoric archeological resources nor does it identify a potential for recovery of locating significant historic archeological remains within the grounds of the Project site.

Project Background:
The City of Fall River has been evaluating the existing BMC Durfee High School (Durfee) building and site for nearly five (5) years through various independent feasibility studies and evaluations

to determine the most educationally appropriate and fiscally responsible solution for the City and the students at Durfee.

On April 9, 2014, on behalf of the School Committee, the former Superintendent of Schools submitted a Statement of Interest (SOI) to the Massachusetts School Building Authority (MSBA) for the BMC Durfee High School. At the January 14, 2015 Board of Directors' meeting, the MSBA Board voted to issue an invitation to Fall River to enter into the Eligibility Period. Subsequently, at the November 18, 2015 Board of Directors' meeting, the MSBA Board voted to issue an invitation to Fall River to conduct a Feasibility Study for BMC Durfee High School, to identify and study possible solutions and, through a collaborative process with the MSBA, to reach a mutually-agreed upon solution.

Attached is a summary of the Statement of Interest, which briefly describes the condition of the existing building and how it fails to function as a modern educational facility.

As part of the early stages of the project, multiple building configurations were investigated and analyzed including minor renovation, major renovation, addition to the existing building, and a new construction option. Due to the poorly sited existing building, non-descript site and building approach, lack of site security and safety via natural surveillance, undersized existing classrooms, poor building organization and configuration, failing existing building systems, lack of natural daylighting, and the results of the District's educational visioning, it has been determined that a new facility with the renovation of the existing athletic building best meets the needs for the City of Fall River. The financial burden on tax payers is minimized by selecting the new building option, as it is the most cost-effective option out of any renovation, renovation/addition, or new building option analyzed.

The collaboration between all parties involved, including the City and the Massachusetts School Building Authority (MSBA), has been ongoing for over a year and the project has now progressed into the Schematic Design Phase with the understanding that the new BMC Durfee High School will be a new building constructed on the existing site and located adjacent to the existing athletic building, with the renovation of the existing athletic building included as part of the project. The different types of construction delivery methods were also reviewed between all parties involved and because of the tight nature of the site, complex occupancy phasing, and past experience in the City, it was determined that Construction Manager at Risk (CM-R) will be the delivery method. In the Spring 2018, the City will begin the process of soliciting qualifications for review and the selection of a Construction Manager.

The project includes the following: abatement and demolition of the existing academic portion of the BMC Durfee High School building; separating and turning over the existing performing arts building to the City; construction of a proposed new high school academic and performing arts building; and renovation of the existing athletic building, including related site work, subsurface ground improvements, underground utilities, parking, and new outdoor play areas. The project has been designated as a Leadership-in-Energy-and-Environmental-Design ("LEED") project with the anticipation of achieving a 'Certified' rating.

Throughout this project, the City of Fall River will continue to work with the MSBA, the Owner's Project Manager, and the Architect to develop the ideal solution to best meet the City's current and future educational and facility needs.

BMC Durfee High School History

The original BMC Durfee High School was occupied in 1887 as one of the first comprehensive high schools in the country, and was the envy of every City and Town in the Commonwealth. It last served as a school in 1977 and now serves as a Probate and Family Court for the Commonwealth of Massachusetts. It was added to the National Register of Historic Places in 1981. The entire costs of the original building, furnishings, and land was a donation from Mrs. Mary B. Young as a gift to the people of the City of Fall River, in memory of her son Bradford Matthew Chaloner Durfee who had died at a young age in 1872. The iconic building, with its tall red-capped clock tower and red-domed observatory tower, occupies prime real estate overlooking the Taunton River and gives rise to the Fall River School District's seal, the school's athletics nickname (the Hilltoppers), their school colors of black and red (for the two roof colors), the school newspaper, the Hilltop, and their school alumni newspaper (the Chimes).

In the 1960s, with significant overcrowding and no room for expansion, planning began for a new high school on an alternative site. The City's intentions were good as they looked to modernize the facilities for teachers and students while simultaneously alleviating the overcrowding at the former site. Unfortunately, the design, planning, and occupancy of the new school provided many challenges. An energetic team of architects with no prior school design experience proceeded to design a sprawling open-classroom facility of over 500,000sf. The project ballooned from $15.0 million to $27.5 million and was two years delayed in its completion resulting in litigation between the City and both the Architect and the General Contractor. Even after completion and occupancy, the teachers, students, and facility personnel continued to suffer from a poorly organized building with numerous physical defects. Leaking roofs, leaking windows, and poor air quality plagued the building through its first 10 years of occupancy. The organization of the building with its hidden entries, lack of visual sightlines, and maze-like hallways resulted in the need to hire an outside security consultant to develop strategies and modifications for the District. The open classroom pods, each alienated from one another, provided a challenging acoustical and educational environment. The six-level floor plan, staggered up the side of the hill, made movement between many program areas both challenging and time-consuming.

Over the past four decades, the administrators, teachers, students, and facility personnel have made the best of the building they inherited in 1978. Open classroom areas have been enclosed, roofs and windows have been modified, faulty mechanical and electrical equipment has been replaced, and portions of the building which are unsafe or non-functional have been abandoned. Anyone who has ever toured Durfee High School as a teacher, parent, student, community member, or visitor fully understands the immediately-obvious challenges of the poorly designed facility.

There are two items of historic significance related to the existing building/site that the City and School District is planning to thoughtfully integrate into the new building and site design: 1) the existing clock bells and related accessories from the original 1887 Durfee bell tower currently

located within a steel bell tower on the high school campus; and 2) the Warner & Swasey Telescope (National Historic Landmark Registry) originally located in the observatory tower within the 1887 Durfee on Rock Street and currently located on the rooftop observatory within the current BMC Durfee High School building on Elsbree Street. Both items have significant sentimental value and meaning to the Durfee Alumni, current faculty, staff and students at Durfee High School, as well as the residents of Fall River.

Proposed Project:

The new BMC Durfee High School will be 501,330 gsf serving 2,570 students in grades 9-12. The school is a comprehensive high school including ten (10) Career Vocational Technical Education (CVTE) / career pathway programs. The proposed building will be constructed on the same site and located adjacent to the existing building along Elsbree Street, connecting to the existing athletic building, which will be renovated as part of this project. The proposed location would allow for construction of the new building to occur while students are still occupying the existing high school with the intent of minimal disruption to their academic experience. The renovation of the existing athletic building would be performed during the summer months when school is not in session.

Careful and strategic placement of the proposed new building area within the above location achieves several project goals expressed by the School Committee, School Building Committee, and community:

1) Increase the building's prominence and presence on Elsbree Street and create a more identifiable and formal primary entrance to the building and site.
2) Increase building safety and security by simplifying the new building's organization, layout, and entry and exit sequence.
3) Integrate a central atrium as a building organizing element that can also be used to celebrate the History of Fall River and Durfee High School, and display of student work.
4) Maintain safe and un-interrupted use of the existing school during the construction of the new school.
5) Provide direct community access to Cosmetology, Early Education, and Culinary Restaurant ("Tradewinds") while maintaining separation from day-to-day student activity.
6) Maintain the existing football stadium and practice fields.
7) More efficiently and evenly distribute parking throughout the site.
8) Renovate the existing athletic building in lieu of constructing new.

The proposed high school design incorporates many features that provide the students of Fall River with a state-of-the-art educational facility. The following list provides a sampling of these features:

- Appropriately sized instructional classrooms
- High Efficiency Mechanical/Lighting Systems
- PVC Cool Roof
- "Smart Building" Mechanical and Electrical Design/Daylight harvesting
- State-of-the-art technology in all the classrooms

- Technology in corridors for enhanced learning
- Wireless and hardwired technology throughout
- High Definition tele/video conferencing within Auditorium
- State-of-the-art Chapter 74 career vocational technical facilities for Cosmetology, Culinary Arts, Early Education, Health Assisting, Design and Visual Communications, Environmental Science, Engineering Technology, Marketing, etc.
- Integration of the historic bells – originally installed in the 1887 Durfee School on Rock Street
- Integration of the historic Warner & Swasey Telescope – originally installed in the 1887 Durfee School on Rock Street
- State-of-the art Language Lab and History Lab
- Updated Science Classrooms
- Updated Multi-purpose athletic complex (gymnasium fieldhouse and pool)
- New outdoor multi-purpose playfield areas
- Central organizing atrium to display and reflect on the City of Fall River's incredible history

Project Timeline:

- Design Phase: Early Release Design Packages
  The City voted to proceed with the Construction Manager at Risk (CM-R) construction delivery method for a variety of reasons pertaining to the complex site, project costs, construction scheduling and sequencing, etc. Therefore, there will be a series of early release packages issued to the approved CM-R beginning in the Fall of 2018 related to sub-surface preparation, utilities, civil, foundations, structural steel.

- Design Phase: 100% Construction Documents
  Final Construction Documents will be released in the Summer of 2019.

- Construction Phase IA: Site Preparation and New Building Construction
  Construction Phase IA will begin in Fall of 2018 for the site enabling, subsurface and utility work within the area related to the new building. Construction of the new building will begin in earnest in the Spring of 2019 with the placement of footings and foundations, structural steel, and continue with the building enclosure, exterior and interior finishes.

- Construction Phase IB: Continued New Building Construction, Renovation of Existing Athletic Building, and Site Work
  The Construction Phase IB will concentrate the primary activities related to the renovation of the existing athletic building during the summer months, beginning during the Summer of 2020 and continuing through the Summer of 2021. This will allow the District to maintain use of the athletic and physical education facilities and amenities while school is in session.

  Substantial Completion of the building will be June 2021.

- Construction Phase II: Abatement, Demolition of Existing Core Academic Building, and Site Work

Construction Phase II will begin in June 2021 following substantial completion and Owner occupancy of the new building. This phase will consist of the existing building abatement and demolition, as well as separation of the existing performing arts building from the project. Site work, construction of the multi-purpose fields, tennis courts, grading and landscaping, will take place where the existing footprint was demolished.

Final Completion of the remaining site will be the Summer 2022.

Supporting Graphic Material:
Existing Site and Building:

- USGS Section Map
- Aerial Site Plan Photographs
- Existing Exterior Photographs
- Existing Bell Tower and Bells
- Existing Rooftop Observatory
- Existing Warner & Swasey Telescope
- Existing Interior Photographs
- Existing Floor Plans

Proposed Site and Building:

- Schematic Site Plan
- Aerial Building Massing Perspective
- Rendered Perspective from Elsbree Street (View of main entrance)
- Rendered Perspective from Elsbree Street (View looking North)
- Floor Plans

Supporting Text Material:
Statement of Interest (SOI) Summary

PROJECT LOCATION
USGS TOPOGRAPHIC MAP FROM OFFICE OF GEOGRAPHIC AND ENVIRONMENTAL INFORMATION (MASSGIS), COMMONWEALTH OF MASSACHUSETTS EXECUTIVE OFFICE OF ENVIRONMENTAL AFFAIRS
1"=2000'
0"
1"
PARE CORPORATION
BMC DURFEE HIGH SCHOOL
360 ELSBREE STREET
FALL RIVER, MASSACHUSETTS
LOCUS PLAN
JANUARY 2017
FIGURE 1

Aerial Site Plan Photograph – Existing School – Looking North:

Aerial Site Plan Photograph – Existing School – Looking South:

Photo No. 1: Existing Building Main Entrance

Photo No. 2: Existing Building Main Entrance

Photo No. 3: Existing Main Building to Auditorium Building Connector

Photo No. 4: Existing Building Courtyard Access

Photo No. 5: Existing Athletic Building Looking West

Photo No. 6: Existing Building Core to Athletic Building Connector

Photo No. 7: Existing Building Looking West

Photo No. 8: View of Athletic Field from Existing Building

Photo No. 9: Existing Clock and Bells Tower

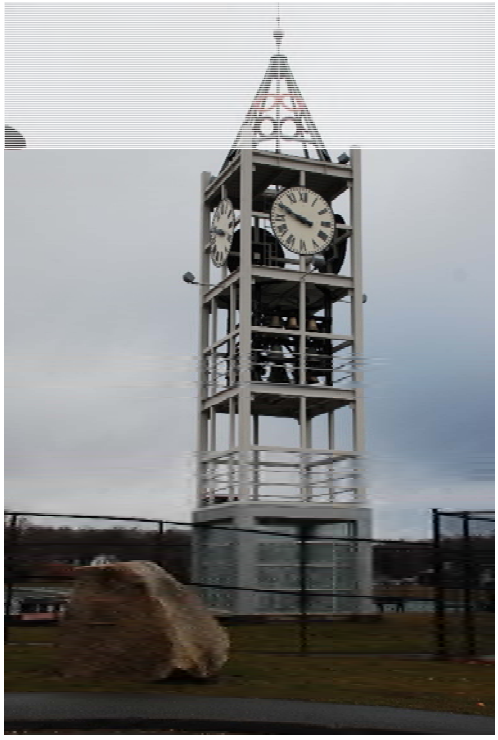


Photo No. 10: Existing Clock and Bells Tower

Photo No. 11: Existing Rooftop Observatory

Photo No. 12: Existing Rooftop Observatory

Photo No. 13: Existing Warner and Swasey Telescope

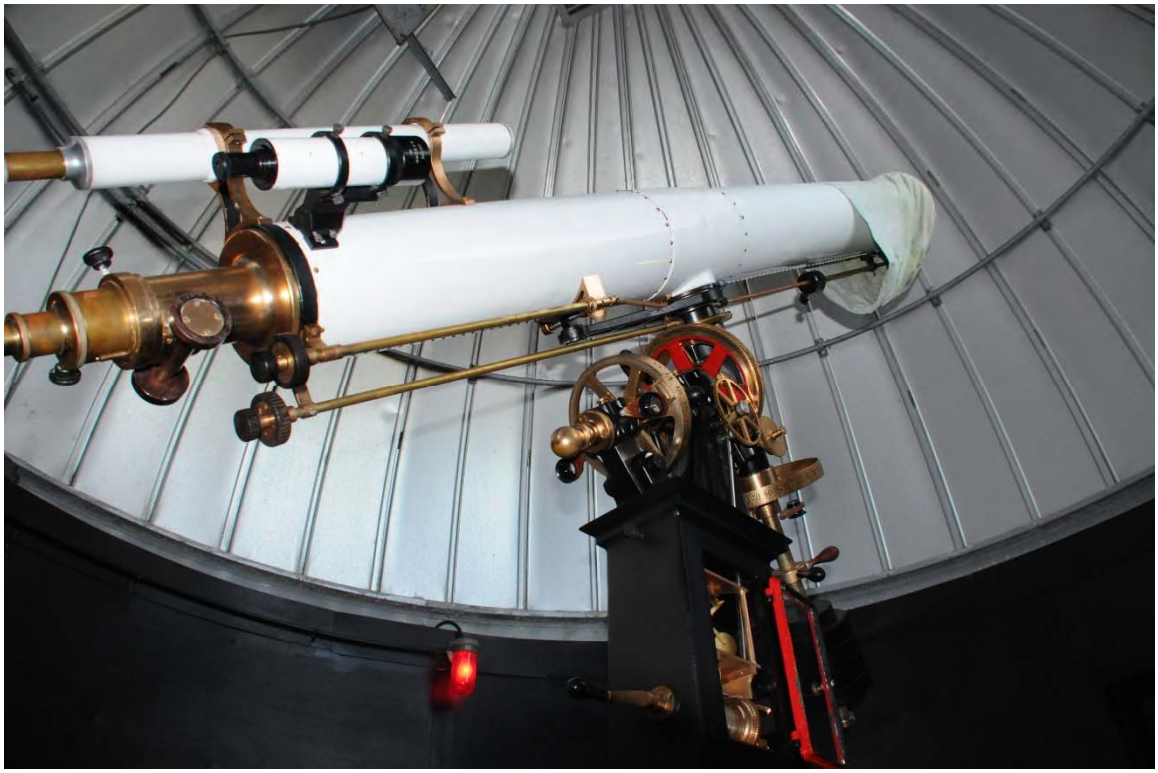


Photo No. 14: Existing Warner and Swasey Telescope

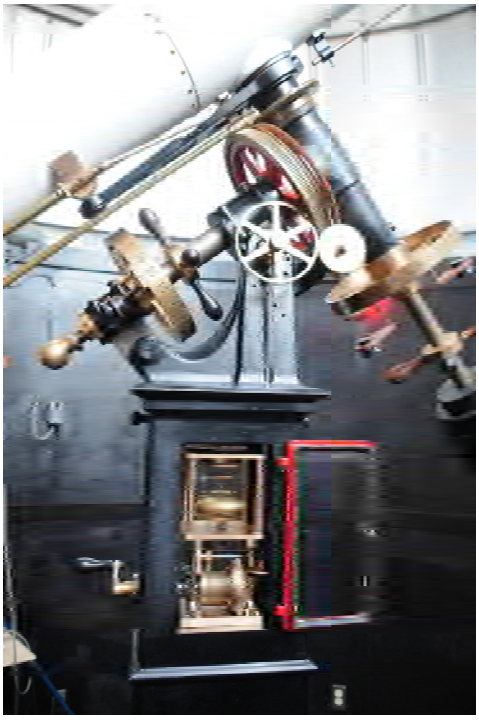


Photo No. 17: Existing Building Interior - Auditorium Lobby

Photo No. 18: Existing Building Interior - Typical Corridor

Photo No. 22: Existing Building Interior – Athletic Building

Photo No. 23: Existing Building Interior - Pool

Photo No. 24: Existing Building Interior – Circulation Stair

Photo No. 25: Existing Building Interior – Lecture Hall