

PROJECT - Belmont Middle and High School
 CLIENT - Town of Belmont
 LOCATION - Belmont, MA
 9/26/2019

60%CD VM Combined List FOR APPROVAL

						(\$19,223,727)		
BASE	ALT	VE Categories / Items	Target Savings	RECOMMENDED Recommended Value Engineering Items	DISCUSSION Proposed Savings	BID ALTERNATE Possible Savings	(\$19,223,727) ACCEPTED	\$0 ACCEPTED BID ALTERNATE
EXTERIOR			\$3.5-4M	(\$3,521,356)	(\$222,228)	\$0		
X		1 Exterior Closure Reductions		(239,263)			(239,263)	
X		2 Reduce Curtain Wall & Wing Wall at Stairs		(300,615)			(300,615)	
X		3 Change Building Base from GFRC to masonry		(722,562)			(722,562)	
X		4 Remove Horizontal Sunscreens Except at South-facing Façade		(328,942)			(328,942)	
X		5 Engineered Horizontal Sunshades (4" Frame)		(109,265)			(109,265)	
X		6 Reduce Glazing Count & Areas at Classroom Windows		(206,149)			(206,149)	
X		7 Remove Middle School Canopy		(267,037)			(267,037)	
X		8 Replace MCM trim detail with 3/8" plate		(92,855)			(92,855)	
X		9 Remove Roof Terrace on 4th Floor		(250,000)			(250,000)	
X		10 Pre-insulated Panels at Mechanical Well		(245,479)			(245,479)	
X		11 Replace Exterior MC-1 Soffit Panels to Morin Rolled Panels		(181,441)			(181,441)	
X		12 Remove 2nd Floor Outdoor Pond Terrace		(443,997)			(443,997)	
X		13 NO Replacement of Existing Kalwall at Field House		(553,848)			(553,848)	
X		14 Elevation Design Clarifications		(473,288)			(473,288)	
X		15 Revise High School Entry		(383,060)			(383,060)	
X		16 Remove Pond Terrace Canopy		(700,000)			(700,000)	
X		17 Eliminate Half of MS Skylight		(17,000)			(17,000)	
		18 Eliminate Remaining Half of MS Skylight			(17,000)			
		19 Eliminate HS Skylight			(190,828)			
X		20 Reduce Width of HS Skylight from 5'-6" to 3'-0"			(14,400)		(14,400)	
		21 Design Assist Budget (this must stay as part of earlier work)		1,993,445			1,993,445	
INTERIOR			\$6.5-8M	(\$5,299,672)	(\$1,435,803)	(\$1,322,686)		
X		22 Reduce Wall Finishes & Simplify Wall Construction		(1,574,849)			(1,574,849)	
X		23 Reduce Ceiling Finishes		(1,353,015)			(1,353,015)	
X		24 Reduce Casework		(748,118)			(748,118)	
X		25 Reduce Classroom Casework		(308,908)			(308,908)	
X		26 Reduce Glass Walls & Rails		(410,173)			(410,173)	
X		27 Simplify Stairs		(256,465)			(256,465)	
X		28 Reduce Equipment & Hardware		(173,550)			(173,550)	
X		29 Eliminate all Operable Partitions in Middle School; Keep Operable Partitions in High School with Marker Boards		(194,893)			(194,893)	
		30 Eliminate Marker Boards from Remaining Operable Partitions in High School			(82,563)			
		31 Eliminate Remaining High School Operable Partitions				(182,536)		
X		32 Reduce Overhead Fire Doors & Shutters		(106,714)			(106,714)	
X		33 Reduce Floor Finishes & Simplify Floor Construction		(77,508)			(77,508)	
X		34 Reduce Black Box Catwalks		(95,481)			(95,481)	
		35 Use Polymer Grout in Lieu of Epoxy			(84,248)			
X		36 Reduce Auditorium Catwalks & Replace Stage Stair w/Single Flight			(202,194)		(202,194)	
X		37 Reduce Corridor Tile Height to 4'-6" high			(348,223)		(348,223)	
X		38 Classroom Hold-Opens: Keep Hardware, Eliminate Secur. Wiring			(55,828)		(55,828)	
X		39 Remove Magnetic Paint at Classroom Casework Wall			(44,932)		(44,932)	
X		40 VE Under Review: Alternate Wood Panel; Waiting on Sample			(247,126)		(247,126)	
X		41 VE Under Review: Simplify Locker Room Wall Finish			(157,262)		(157,262)	
		42 Reduce Markerboards in Classrooms by 25% (3 in lieu of 4)			(106,714)			
		43 Reduce Markerboards in Classrooms by 50% (2 in lieu of 4)			(106,714)			
		44 Bathroom Wall Tile on Wet Walls Only; Scuffmaster other walls				(432,471)		
		45 Replace All Level 1 Porcelain Floor Tile w. Resilient Linoleum				(707,679)		
SYSTEM			\$2.5-3.5M	(\$2,688,291)	\$0	(\$2,336,464)		
X		46 AV & Tech		(464,822)			(464,822)	
X		47 AV & Tech: Move Tele-com Active WAPs & Switches to FF&E		(336,990)			(336,990)	
X		48 AV & Tech: Simplify audio playback system		(29,198)			(29,198)	
X		49 Mechanical		(149,399)			(149,399)	
X		50 Electrical		(104,961)			(104,961)	
X		51 Lighting		(96,154)			(96,154)	
X		52 Lighting: Target \$1.25/SF reduction (Analysis in-process)		(624,976)			(624,976)	
X		53 Plumbing		(269,592)			(269,592)	
X		54 Fire Protection		(28,083)			(28,083)	
X		55 PV Market Cost Adjustment		(584,116)			(584,116)	
		56 Change 50% PV Panel System to Bid-Alternate				(1,168,232)		
		57 Change remaining 50% PV Panel System to Bid-Alternate				(1,168,232)		
SITE / STRUCTURE			\$2-3M	(\$3,895,341)	(\$495,132)	(\$723,980)		
X		58 Reduce Hazardous Abatement Allowance for Future Phases		(1,235,630)			(1,235,630)	
X		59 Reduce Hazardous Abatement Allowance: Summer Credit		(375,000)			(375,000)	
X		60 Reduce Excess Soil Disposals by Raising Grades		(561,650)			(561,650)	
X		61 Confirm Strip Material is RSC-1 Reduce Unit Cost		(348,223)			(348,223)	
X		62 Reduce Number of Columns & Reduce Intumescent Paint		(112,358)			(112,358)	
X		63 Reduce Level 2 Area B Mechanical Space Structural Framing		(111,768)			(111,768)	
X		64 Eliminate 5" Exterior Slabs at Arcade		(61,782)			(61,782)	
X		65 Delete Concrete Mowing Curb		(22,466)			(22,466)	
X		66 Provide Aluminum Benches in lieu of Concrete at Baseball		(61,782)			(61,782)	
X		67 Provide Standard Nylon Netting vs. Dynema Netting		(33,699)			(33,699)	
X		68 Eliminate Teachers' Lounge Walkway & Door to Exterior Terrace		(22,466)			(22,466)	
X		69 Projected Concrete Buy-Out Savings		(336,503)			(336,503)	
X		70 Eliminate Pre-Augured Piles and Reduce Pile Breakage		(339,000)			(339,000)	
X		71 Soil Disposal Reallocation		(200,000)			(200,000)	
X		72 Eliminate Half of Outdoor Pond Terrace Retaining Walls		(73,015)			(73,015)	
X		73 Eliminate Remaining Half of Pond Terrace Retaining Walls			(73,015)		(73,015)	
X		74 Reduce Trees West of Harris to 7 Total			(61,782)		(61,782)	
		75 Reduce Granite Curbs to Only at Entrances & Drop-Offs with Concrete for Remaining Curbs			(47,179)			
		76 Additional Savings to use Asphalt in lieu of Concrete for Remaining Curbs			(73,913)			
X		77 Reduce quantity of trees by 40%			(168,495)		(168,495)	
X		78 Reduce Concrete Benches			(70,749)		(70,749)	
		79 Provide Grass Rugby Field in lieu of Turf				(673,980)		
X		80 Change Landscaping of Phase 3 (West Fields) to Bid-Alternate (Design Revisions to Landscaping)				(50,000)	(50,000)	
PHASING & LOGISTICS			\$0.25-.75M	(\$1,201,762)				
X		81 Eliminate Ceiling Work Above Pool Not Feasible w. Boom Lift		(393,155)			(393,155)	
X		82 Reduce MEP Phase Scope		(424,607)			(424,607)	
X		83 EBP2 Allowance		(300,000)			(300,000)	
X		84 EBP2 Waterline Allowance		(84,000)			(84,000)	
GENERAL CONDITIONS			\$1.-1.5M	(\$1,123,300)				
X		85 Target Reduction to be Reviewed w. Detailed Staffing Plan		(1,123,300)			(1,123,300)	
TOTAL POTENTIAL SAVINGS			(19,217,740)	(\$17,729,722)	(\$2,153,163)	(\$4,383,130)		
Potential Grand Total Savings			(19,217,740)	(\$19,882,885)	(\$4,383,130)	(\$19,223,727)		\$0

Note: All ROM values include indirect cost.