Hanlon – Deerfield Elementary School Project School Building Committee Meeting 1 April 2022



Topics for Review

- 1. Overview: 90% CD Package for MSBA submission
- 2. 90% CD Cost Estimates
- 3. Value Engineering (VE)
- 4. Order of Alternates
- 5. Schedule: Look Ahead
- Meeting Objectives:
- Confirm VE List, List of Alternates and Determine Order
- Authorize 90% CD submission to MSBA



Overview: 90% CD Package – MSBA

One Binder: 598 pages: OPM and Designer Deliverables, Cost Estimates Two Volumes of Drawings: 297 Sheets Three Volumes of Project Manual: 2,296 pages



90% CD Cost Estimates

- Budget: \$70.3 M
- After reconciliation cost estimates totaled:
- MCI: \$71.7 M
- PM+C: \$71.8 M
- = \$1.5M over budget



90% CD Cost Estimates

Primary areas of increases since January 2022 (60% CD):

Plumbing: +16.8% = +\$ 332k

HVAC:+ 7.1% = +\$ 613k

Electrical: +20.2% = +\$1 M

Three items combined = Approx. +\$2M

Contributing Factors for Unprecedented Increases in Construction Industry:

 Shipping Costs, Supply Chain Issues, Labor Shortages, Record Inflation, unknowns associated with war in Ukraine



ITEM	VALUE
SITE	-\$555,479
BUILDING EXTERIOR	-\$670,894
BUILDING INTERIOR	-\$885,843
ELECTRICAL	-\$141,900
Product/Detail Changes	-\$65,648
Supplement Playground Budget	+\$75,000
SUBTOTAL	-\$2,244,763 Construction Budget Savings

Reduce Tech Procurement to align with MSBA reimbursement	-\$178,000	Shift Soft Cost Savings to Construction Budget
TOTAL	-\$2,422,763	Construction Budget Savings



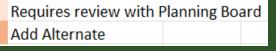
Value Engineering Effort

		Recommended	ADD
		List of Items	ALTERNATE
SITE			
1	Revise Site wall at Stem Porch to CIP concrete with granite stone top and guardrail (per detail)	(110,000)	
2	Remove \$12k of additional plantings added since 60% set from Shrubs and Perrenials line item	(13,200)	
3	Move additional site furnishings items into Site Furnishings Alternate (Players benches, Alum bleachers, Soccer Goals, Trash receptacles, bird house). Bike racks to remain in base.	(46,200)	46,200
4	Change site signs at entry to carry \$30,000 value (\$15k each). Posts with MDO Panel	(48,400)	
	Reduce size of STEM porch: Delete 800 sf of concrete pavement and substrate and replace with lawn. Delete 44 LF of CIP concrete site wall with guardrail (assume item 1 above credit is taken).	(00.000)	
	Add 23'x3' wide bitum walkway	(90,200)	
	Delete outdoor classroom (stonedust, semi-circle walkway)	(8,800)	
	Change limited on-site concrete sidewalk to asphalt (yellow highlight)	(41,902)	
	Place field irrigation into Alternate Delete all Base Bid trees, shrubs, and plantings (with dark shade on plan) as shown on sketch plan, replace with Wildlife seed mix	(153,000) (11,677)	
10	Provide cost for stormwater drainage adjustments associated with reduced impervious pavement	(32,100)	
	SUBTOTAL (555,479)		
	uires review with Planning Board d Alternate		

Site

Building Exterior

					Recommended	ADD
					List of Items	ALTERNATE
BUILDING EXT	ERIOR					
11	Remove w	alkway canopy, Canopy C out of base bid, provide a	as an Alternate		(271,717)	271,717
12	Remove ea	ast end sunshade element at end of Extended Learn	ing Area		(60,500)	
13	Remove ca	anopy over exit door at all three ELA wings			(64,807)	
	Remove cu	urtainwall sidelight and transom at three stair exit d	loors and replac	e with stone (60 sf ea x 3= 180sf).(
14	A19/A4.11	1, M12/A4.11, S17/A4.11)			(7,146)	
	Remove te	erracotta shade screen at admin. Wing, make windo	ws curtainwall t	ype, with alum alum shades, provide		
15	terracotta	above windows			(91,742)	
16	Remove th	ne equipment screen by the gym			(51,326)	
		est elevation: Eliminate curtain wall clerestory wind	ows, and MCM p	anels, and replace with brick and		
17	acoustical	block.			(68,657)	
18	Remove M	ICM Sunscreen at Library			(55,000)	
			SUBTOTAL	(670,894)		





Building Interior

		Recommended List of Items	ADD ALTERNATE
BUILDING INTI	RIOR		
19	Delete line item 591: tile backsplash at staff/lunch workrooms	(4,752)	
20	Delete line item 599: Gallery acoustical panels	(28,160)	
21	Change wood stage floor to linoleum	(17,903)	
22	Line item 652: Eliminate wood grille at ELAs	(86,625)	
23	Replace ceramic tile in toilet rooms with poured epoxy flooring	(52,811)	
24	Replace QT in kitchen with poured epoxy flooring	(35,013)	
25	Delete six skylights at the cafeteria, along with corresponding motorized shades, soffit work.	(40,549)	
26	Line 1081: Delete illuminated ceiling lighting panel (288 sf) and replace with ACP and recessed can lights	(72,230)	
27	Line 650: Delete half of wood slat walls/ceiling at lobby/living room space (260 sf)	(34,375)	
28	Delete remaining amount of wood slat walls/ceiling at lobby/living room space (260 sf)	(34,375)	
	Delete wood slat walls/ceiling at Admin desk, library/media center (200 sf)	(30,250)	
30	Delete line 580, wood slats at corridor: Sectis wood fins	(45,650)	
	Line item 466, change window seat at classrooms to eliminate vertical box element, and only have bench with storage		
31	below.	(61,600)	
32	Place Network Switches into E-Rate program to be completed by school district	(341,550)	
	SUBTOTAL (885,843	4)	



Electrical

				Recommende	ed ADD
				List of Items	ALTERNA
CTRICAL					
33	Use low e	nergy Fire Alarm cable (unarmored)		(44,00	00)
34	Use rings	and strings for tel/data locations (in lieu o	f back boxes and conduit to accessible		
35	Delete Ma	ss Notification feature of Fire Alarm (not	required by code)	(64,90	00)
			SUBTOTAL	(141,900)	



Product/Detail Changes + Playground

					Recommended	ADD
					List of Items	ALTERNAT
duct/Detai	il Changes					
36	Line item 6	45. Change "Optima" Ceiling tile to "Calla" ceiling ti	ile		(40,777)	
37	Move item	461 custodial work bench into FFE			(3,520)	
38	3					
	mounted s	e following toilet accessories, and indicate owner p pap dispensors, paper towel dispensers, sanitary n for Sanitary Napkin Dispensor and PT dispensors to	apkin disposal,		all (21,351)	
			SUBTOTAL	(65,64		
D				(65,64		
D			SUBTOTAL			
D		5,000 to Playground budget to provide \$300,	SUBTOTAL		8)	
D			SUBTOTAL		8)	
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Summary - Value Engineering Effort

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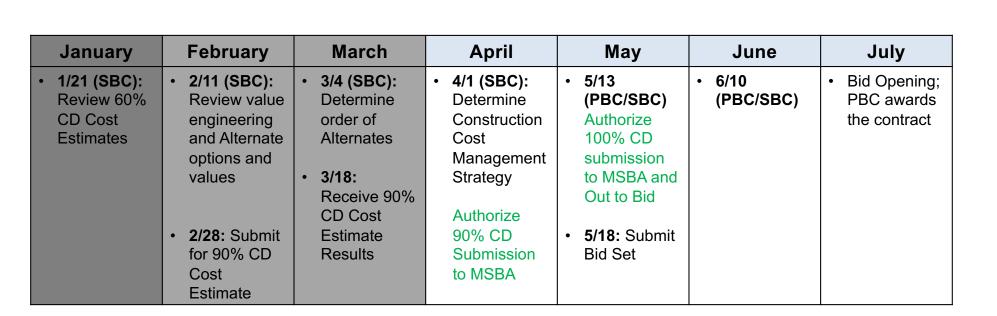
BUDGET SUMMARY and PROPOSED ALTERNATES

CONSTRUCTION BUDGET SUMMARY TOTALS						
\$71,825,710 Reconciled PM+C estimate 90% CD						
-\$2,244,763 Value of VE Items + Playground Equip. Supplement						
\$69,580,947 Final Construction Cost Value						
\$70,312,141 Budget						
-\$731,194 Under Budget						
-178,000 Reduce Tech Procurement to align with MSBA reimbursement	:: St	aff				
computers go into annual refresh						
-\$909,194 UNDER BUDGET						
Proposed Order of Alterantes						
1: Add UV-C system to HVAC	\$	93,768				
2. Add Entryway Canopy	\$	271,717				
3. Add Irrigation System	\$	153,000				
4. Add Chain link fencing around multipurpose field and 20' ht sports netting	\$	139,992				
5. Add Site Furnishings Grouping #1: (landscape boulders, raised gardens,						
sand/water tables, benches, picnic tables,). Bike racks to remain in base.	\$	205,000				
6. Add Site Furnishings - Grouping #2: players benches, alum bleachers,						
soccer goals, trash receptacles, bird house	\$	46,200				
7. Add Ph 2 Landscape plantings	\$	224,495				
Total Value of Alternates	\$	1,134,172				



2022: 4 Month Look-Ahead

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Questions, Comments, Reactions

