

PROJECT SCOPE & BUDGET
VALUE ENGINEERING

6A.2.3 - 07

Project information									SD Submittal						
MSBA ID	FY it is based on calendar trade bid date?)	District	School	OPM	Designer	CM\GC	Procurement Type (DBB/CMR)	PS&B Executed Date	PSR Construction Budget	PSR Total Budget	SD Construction Budget	SD Total Budget	Delta between PSR and SD	PS&B/PFA Construction Estimate W\ Pre-Con & Alts -	Design & Pricing Contingency (\$)
201708530605	2023	Northeast Metropolitan Regional Vocational School District	Northeast Metropolitan Regional Vocational High School	PMA Consultants	DRA Architects	Gilbane	CMR	12/15/2021						\$244,041,092	\$13,379,255

PFA or PSBA data				DD											
Design & Pricing Contingency (% of Construction Budget)	Escalation to mid point of construction (\$)	Escalation to mid point of construction (%)	Total Project Budget	Designer Current Cost Estimate	CMR Current Cost Estimate	CMR Reconciled DD Estimate after VE	Design & Pricing Contingency (\$)	Design & Pricing Contingency (% of DD Construction Budget)	Escalation to mid point of construction (\$)	Escalation to mid point of construction (%)	Approved VE at DD since PFA (\$)	% OF approved VE since PFA (AD/P)	DD Date	Comments	
5.48%	\$18,218,085	7.47%	\$317,422,620	\$244,203,870	\$278,095,765	\$244,848,286	\$7,690,313	3.14%	\$11,297,073	4.61%	\$33,766,980	14%	8/19/2022	All values from designers cost estimator of record RLB (unless specifically requested CMR)	

NEMTS (Northeast Metropolitan Technical School)

Value Management Log

8/18/2022

A	Construction Budget	=	\$	244,922,412	Final Reconciled Estimate Dated 8-11-22
B	Current Estimate	=	\$	276,411,186	
C	Recommended (#1) & Alts	=		(\$23,743,810)	
D	Subtotal +Accepted	=	\$	252,667,376	
E	Variance	=	\$	7,744,964	
F	Possible (No.2 below)	=	\$	(7,840,303)	
				-9.69%	#DIV/0!
				3.16%	-3.20%
				(\$31,584,113)	(\$95,339)

Item #	Description	Date Identified	Current Estimated Cost	Status	A Alternates	No. 1 Recommended	No.2 Possible	No. 3 Reject	Comments
General Items / Multi-discipline									
G01	Concessions / Toilet Bldg - Make Add Alternate (student built)	1-Aug-22	(\$704,828)	A	(704,828)	0	0	0	Provide foundations and slab on grade as part of the GMP
G02	Maintenance building - Add Alt (renovate bunker)	1-Aug-22	(\$576,736)	3	0	0	0	(576,736)	Possible GC savings for trailer rentals
G02a	Delete Heat, Insulation and Plumbing from Maintenance Building	16-Aug-22	(\$150,000)	2	0	0	(150,000)		
G03	Locker Building - Add Alternate (need to keep elevator) (renovate bunker)	11-Aug-22	(\$2,749,960)	A	(2,749,960)	0	0	0	
G04	Irrigated Natural Baseball Field - Delete / Make Add Alternate (salvage dugouts, backstop, delete irrigation)	11-Aug-22	(\$245,469)	A	(245,469)	0	0	0	
G05	Irrigated Natural Soccer / Ball Field - Delete / Make Add Alternate	1-Aug-22	(\$972,641)	A	(972,641)	0	0	0	
G06	Synthetic Turf Football Field - Delete / Make Add Alternate (Include Sports) (renovate existingtrack & field)	11-Aug-22	(\$2,718,253)	3	0	0	0	(2,718,253)	Cannot take w L09
G07	Insurance Adjustments (reduce SDI to 1.2 vs 1.3) and CCIP Savings	1-Aug-22	Included	0	0	0	0	0	\$600k savings incorporated in final reconciled estimate
G08	Review Entry Road Cost - Break-out value	1-Aug-22	\$0	0	0	0	0	0	
G09	Auditorium Re-envisioning (increase savings)	1-Aug-22	(\$1,808,479)	1	0	(1,808,479)	0	0	
G10	Review Haz Mat Allowance (\$2,000,000) includes contingency, testing?	11-Aug-22	(\$100,000)	1	0	(100,000)	0	0	
Civil / Landcaping									
C01	Eliminate Bridge over wetlands if we can buy the culvert in time	1-Aug-22	(\$50,001)	1	0	(50,001)	0	0	
C02	Scope Videotape 1,550 sewer line to confirm what is required for relining (100% of the value portrayed)	1-Aug-22	(\$279,000)	1	0	(279,000)	0	0	Review extents
C03	Water line / Hydrant relocation - delete 275' of 8" DI piping	1-Aug-22	(\$35,750)	1	0	(35,750)	0	0	
C04	Storm Drainage Infiltration Reduction (including rock e&b)	10-Aug-22	(\$637,797)	1	0	(637,797)	0	0	
C05	Delete 681 allowance for temp detention basins (in CM's General Conditions?)	11-Aug-22	\$0	0	0	0	0	0	
CO6	Delete 678 allowance for temp fencing maintenance (in CM's General Conditions?)	11-Aug-22	(\$130,000)	2	0	0	(130,000)	0	Review potential additional savings with GBC and PMA
L01	Make all of the rooftop courtyard an add alternate - just include for maintaince	1-Aug-22	(\$320,875)	1	0	(320,875)	0	0	Keep reduce number of pavers, del the rest of site improvments

L02	Delete wire mesh fence around the south outdoor eating area	1-Aug-22	(\$51,075)	1	0	(51,075)	0	0	
L03	Delete Gabion Benches - make add alternate	1-Aug-22	(\$57,200)	A	(57,200)	0	0	0	
L04	Delete banding in pavement	1-Aug-22	(\$20,000)	1	0	(20,000)	0	0	
L05	Reduce vertical curbing - change to CCB - target another 20%	1-Aug-22	(\$70,250)	2	0	0	(70,250)	0	Further input required from the Planing Board, CD Phase review
L06	Precast curbing vs granite (target 30%)	1-Aug-22	(\$42,150)	3	0	0	0	(42,150)	
L07	Delete Seating Boulders	1-Aug-22	(\$240,000)	1	0	(240,000)	0	0	
L08	Pre-K Play Equipment - permanent fixed vs loose @ Roof (carry in FFE Budget)	1-Aug-22	(\$13,500)	1	0	(13,500)	0	0	Warner Larson to review and provide reccomendations. Equipment cost FF&E
L09	Change the football field to natural grass (add alt for synthetic) <i>(cannot be taken w G06 above)</i>	1-Aug-22	(\$628,192)	A	(628,192)	0	0	0	Includes adding irrigation - Gilbane cost was carried
L10a	No Press box and Elevator	19-May-22	(\$270,000)	1	0	(270,000)	0	0	
L10b	Add alternate for bleachers / Pressbox - <i>(cannot be taken w G06 above)</i>	19-May-22	(\$1,023,272)	3	0	0	0	(1,023,272)	
L11	Latex track is \$40K less than urethane surfacing	17-Jun-21	(\$40,000)	2	0	0	(40,000)	0	
L12	Delete Shipping Containers	1-Aug-22	\$0	2	0	0	0	0	Not in RLB's estimate
L13	Reduce planting budget -target 15%	1-Aug-22	(\$40,050)	2	0	0	(40,050)	0	
L14	Reduce site furnishings- target 20%	1-Aug-22	(\$60,001)	2	0	0	(60,001)	0	
L15		1-Aug-22	\$0	0	0	0	0	0	
	Structural								
S01	Use Fiber Mesh ILO Welded Wire Fabric	17-Jun-21	(\$45,525)	1	0	(45,525)	0	0	
S02	Target reduction of # - reduce to 3,000 tons total	10-Aug-22	(\$1,191,230)	1	0	(1,191,230)	0	0	
	Architectural								
A01	Utilize Cast Stone (Arriscraft) in lieu of 2" Granite Veneer Panels	1-Aug-22	(\$141,900)	A	(141,900)	0	0	0	
A02	Utilize Insulated Metal Panels ILO Flat-Lock Zinc Panels Throughout	1-Aug-22	(\$25,670)	2	0	0	(25,670)	0	
A03	Eliminate the Decorative ACM Banding	1-Aug-22	(\$32,640)	2	0	0	(32,640)	0	
A04	Target Reduction of 40% of Porcelain Ceramic Tiles (replace with Corrugated Panels) and Replace Remaining with Insulated Panels	1-Aug-22	(\$1,010,562)	1	0	(1,010,562)	0	0	
A05	Utilize more cost efficient single skin, corrugated panel	1-Aug-22	(\$403,300)	1	0	(403,300)	0	0	
A06A	Reduce overhangs at 2nd, 3rd, 4th floors, and at library by 4'	5-Aug-22	(\$917,257)	1	0	(917,257)	0	0	
A07A	Remove overhangs at Auditorium and Gym	5-Aug-22	(\$878,075)	1	0	(878,075)	0	0	
A08	Utilize exterior gyp in lieu of ACM/linear metal ceilings at soffits	1-Aug-22	(\$458,087)	1	0	(458,087)	0	0	
A09	Reduce number of operable vents in windows/storefront	1-Aug-22	(\$89,700)	1	0	(89,700)	0	0	

A10	Reduce area of extensive green roof	1-Aug-22	(\$150,000)	2	0	0	(150,000)	0	RLB added back regular roof ILO of green roof
A11a	Brick Vs Corrugated Metal (assumes large format 4x12)	1-Aug-22	(\$556,160)	2	0	0	(556,160)	0	
A11b	Phenolic vs Porcelain	1-Aug-22	(\$601,525)	2	0	0	(601,525)	0	
A11c	Take what is now Phenolic and change to Corrugated metal (additive to above)	1-Aug-22	(\$601,525)	2	0	0	(601,525)	0	
11d	Take what is now Corrugated metal to Brick(additive to above)	1-Aug-22	(\$723,708)	2	0	0	(723,708)	0	
A12	Eliminate Bump Outs	1-Aug-22	\$0	0	0	0	0	0	
A13	Sloped steel vs tapered insulation	1-Aug-22	\$0	0	0	0	0	0	
A14	HM Doors ILO Glass Doors / CW Surround	1-Aug-22	\$0	0	0	0	0	0	
A15	Make terrace outside media center just roofing (Delete pedestal pavers & guardrail)	1-Aug-22	(\$154,450)	2	0	0	(154,450)	0	
A16	Elim Skylight add back roofing	1-Aug-22	(\$106,697)	1	0	(106,697)	0	0	
A17	geometry of media center	1-Aug-22	\$0	0	0	0	0	0	
A18	Reduce depth of the pilasters at the media center (carry Gilbane allowance)	1-Aug-22	(\$80,000)	1	0	(80,000)	0	0	
A19	EDPM Roof vs PVC roofing at select areas? (carry Gilbane allowance)	1-Aug-22	(\$225,000)	1	0	(225,000)	0	0	
A20	Remove SE Facing Clerestory @ Gym	1-Aug-22	(\$15,226)	1	0	(15,226)	0	0	
A21a	Remove added slip sheet for solar array- provided by Solar company	1-Aug-22	(\$109,925)	1	0	(109,925)	0	0	
A21b	Delete Protection board at roof	11-Aug-22	(\$383,000)	A	(383,000)	0	0	0	
A22	LOBBY #A119, CORRIDOR #C105 12" X 24" PORCELAIN PAVER TILE(PP) IN LIEU OF EPOXY TERRAZZO	1-Aug-22	(\$125,466)	A	(125,466)	0	0	0	
A23	STAIR #S-1 12" X 24" PORCELAIN PAVER TILE (PP) IN LIEU OF PRE-CAST TERRAZZO RISER AND TREADS	1-Aug-22	(\$21,861)	A	(21,861)	0	0	0	
A25	CORRIDOR #A146 & #B111 RUBBER TILE(RT) IN LIEU OF PORCELAIN PAVER TILE	1-Aug-22	(\$27,631)	1	0	(27,631)	0	0	
A26	CORRIDOR #C111 & #C120 LINOLEUM SHEET(LIN) IN LIEU OF RUBBER TILE	1-Aug-22	(\$15,565)	1	0	(15,565)	0	0	
A27	ROOMS #B118,#B120A,#B120B, #B120C, #B121, #B121A, #B121C, #B121D, #B121E & #B121F - LUXURY VINYL TILE (LVT) IN LIEU OF SHEET VINYL	1-Aug-22	(\$17,905)	1	0	(17,905)	0	0	
A28	CLOSET #B119A LUXURY VINYL TILE (LVT) IN LIEU OF CARPET (no savings)	1-Aug-22	\$0	0	0	0	0	0	
A29	ALL SECOND FLOOR CORRIDORS LINOLEUM SHEET(LIN) IN LIEU OF RUBBER TILE	1-Aug-22	(\$91,780)	1	0	(91,780)	0	0	
A30	ALL THIRD FLOOR CORRIDORS LINOLEUM SHEET(LIN) IN LIEU OF RUBBER TILE	1-Aug-22	(\$65,035)	1	0	(65,035)	0	0	
A31	ROOMS #B301, #B301A, #B301B, #B301D, #B301F, #B301G, #B301H, #B302, #B302A, #B302C, #B302D, #B302F, #B303G, #B302H, #B302J & #B302K LINOLEUM SHEET (LIN) IN LIEU OF SHEET VINYL	1-Aug-22	(\$22,028)	1	0	(22,028)	0	0	
A32	ALL FOURTH FLOOR CORRIDORS LINOLEUM SHEET(LIN) IN LIEU OF RUBBER TILE	1-Aug-22	(\$62,263)	1	0	(62,263)	0	0	
A33	Abuse Resistant Drywall in classrooms - change AR to std	1-Aug-22	(\$107,919)	1	0	(107,919)	0	0	
A34	Corridors - reduce lockers, keep for freshman only. Add AR GWB where lockers are removed (delete all but 200 2 tier (400 openings) in the corridors)	1-Aug-22	(\$555,908)	1	0	(555,908)	0	0	

A35	Utilize Paint / reveals in lieu of painted perforated metal at auditorium	1-Aug-22	See item G09	2	0	0	See item G09	0	
A36	Core & Shell for Rm B118, B119, B119a (Bank will fit out in the future)	10-Aug-22	(\$56,667)	A	(56,667)	0	0	0	
A37	Delete Tile Wainscot in Corridors - add Corner Guards + AR GWB	11-Aug-22	(\$355,300)	1	0	(355,300)	0	0	
A38	All Ceilings to 2x2 Tegular	11-Aug-22	(\$500,000)	2	0	0	(500,000)	0	Further design review during CD Phase
A39	Use VCT ILO of linoleu and rubber tile	11-Aug-22	(\$222,656)	3	0	0	0	(222,656)	
A38	Stair #1 reduce curtain wall by approximately 500 SF replace with mtl std with brick veneer and metal panels	15-Aug-22	(\$27,500)	1	0	(27,500)	0	0	
A39	Stair #3 reduce curtain wall by approximately 100 SF replace with mtl std with brick veneer and metal panels	15-Aug-22	(\$5,500)	1	0	(5,500)	0	0	
A40	Stair #4 reduce curtain wall by approximately 620 SF replace with mtl std with brick veneer and metal panels	15-Aug-22	(\$34,100)	1	0	(34,100)	0	0	
A41	Gym exteriorreduce curtain wall by approximately 500 SF replace with CMU with brick veneer	15-Aug-22	(\$30,000)	1	0	(30,000)	0	0	
A42	At upper level Events Lobby provide cable guardrail in leu of glass guardrail system	15-Aug-22	(\$35,000)	2	0	0	(35,000)	0	
A43	Reduce overhang at classrooms	15-Aug-22	(\$201,554)	1	0	(201,554)	0	0	
A44	Simplify cladding design of the columns at the Ents Lobby, Structural Steel must remain	16-Aug-22	(\$20,000)	1	0	(20,000)	0	0	
A45	Insulation under the slab - del 1" insulation, provide 2" x 2'wide at perimeter only	16-Aug-22	(\$339,946)	1	0	(339,946)	0	0	
A46	Reduce allowance for misc. concrete pads	16-Aug-22	(\$100,000)	1	0	(100,000)	0	0	
A47	Target reduction of interior storefront by 10%	16-Aug-22	(\$52,400)	1	0	(52,400)	0	0	
A48	Reduce allowance for misc cleanup - Carpentry	16-Aug-22	(\$71,000)	1	0	(71,000)	0	0	
A49	Reduce scope of epoxy painting 15%	16-Aug-22	(\$135,020)	1	0	(135,020)	0	0	Upper wall areas
A50	Move Manual window shades to FF&E	16-Aug-22	(\$318,000)	2	0	0	(318,000)	0	
Equipment									
EQ1	FSE - Eliminate the reusable tray washing set up and go with disposable ware. (items B47, B50, B49,B50, B51, B52, B53, B56, B55)	3-Aug-22	(\$65,500)	1	0	(65,500)	0	0	
EQ2	FSE - Eliminate the salad bars in the servery. (items B37a, B35a, B36, B35, B37, B38)	3-Aug-22	(\$75,862)	1	0	(75,862)	0	0	Use Existig
EQ3	Eliminate the combi oven and go with a standard convection oven. (item A30)	3-Aug-22	(\$16,000)	1	0	(16,000)	0	0	Use Existing
EQ4	Delete 4 mobile work tables. (item A23)	3-Aug-22	(\$8,000)	1	0	(8,000)	0	0	Move to FF&E
EQ5	Eliminate two mobile tables (item F01)	3-Aug-22	(\$4,000)	1	0	(4,000)	0	0	Move to FF&E
EQ6	Eliminate one prep sink and share the other (item F59)	3-Aug-22	(\$4,410)	1	0	(4,410)	0	0	Move to FF&E
EQ7	Delete two 20 quart mixers (E43 and E45)	3-Aug-22	(\$14,628)	1	0	(14,628)	0	0	Move to FF&E
EQ8	Delete the bread slicer (item E41)	3-Aug-22	(\$1,100)	1	0	(1,100)	0	0	Move to FF&E

EQ9	Delete 4 of the 12 baking teaching stations.	3-Aug-22	(\$20,000)	1	0	(20,000)	0	0	Move to FF&E
EQ10	Delete the cafe or delay it.(Rm B113 - top corner & millwork)	3-Aug-22	(\$39,600)	1	0	(39,600)	0	0	Move to FF&E
EQ11		3-Aug-22	\$0	0	0	0	0	0	
	MEP								
P01	Remove urinals and FD's from single occupancy toilet rooms. Current layout has a toilet and urinal in each single occupancy toilet room, requiring a floor drain.	1-Aug-22	(\$85,000)	2	0	0	(85,000)	0	Review cost, savings appear to be low
P02	Remove tempered water & tempered water circulation system. Emergency fixtures to be fed from the various domestic hot water systems, with local mixing valves to provide tempered water at each emergency fixture.	1-Aug-22	(\$120,000)	1	0	(120,000)	0	0	Estimators would have to assess the cost of the additional valves vs the cost of removing the piping distribution.
P03	Consider Point of use HW Heaters vs central system	1-Aug-22	(\$262,000)	1	0	(262,000)	0	0	
P04	Local Point of Use Chip Tanks in lieu of central pH System Serving Science Classrooms	1-Aug-22	(\$70,000)	1	0	(70,000)	0	0	
FP1		1-Aug-22	\$0	0	0	0	0	0	
M01	Re-locate existing dust collector and re-use it serve new carpentry shop.	1-Aug-22	(\$407,688)	1	0	(407,688)	0	0	Refurbishing and moving costs in Project Budget not Construction
M02	Reduce gymnasium HVAC unit cooling capacity to provide partial cooling in gymnasium	1-Aug-22	(\$109,815)	2	0	0	(109,815)	0	- Add 4 destratification fans in gymnasium (16 foot diameter)
M03	Revise ERV-1 and 2 to Renewaire in ceiling type and duct to louvers/grilles on the exterior of the building near the area each unit is serving	1-Aug-22	(\$40,000)	1	0	(40,000)	0	0	- Reduce RTU-3 airflow to 14,000 CFM and delete one ARUM216DTE5 and ARUM44DTE5 condensing unit, associated piping, and controls
M04	Revise ERV-1 and 2 to constant volume	1-Aug-22	(\$12,000)	1	0	(12,000)	0	0	Delete supply and exhaust VAV terminal units and revise ductwork from medium pressure to low pressure
M05	Dust Collection -reduce / change vendor (TBD by design team)	1-Aug-22	\$0	0	0	0	0	0	
M06	Reduce quantity of spray booths and powder coating booths in Auto Collision be reduced to 1 each	1-Aug-22	(\$147,020)	2	0	0	(147,020)	0	delete louvers, ductwork, and fans associated with this equipment
M07	Reduce the quantity of welding booths in Metal fab for a maximum total exhaust of 7,800 CFM	1-Aug-22	(\$97,000)	2	0	0	(97,000)	0	Delete air control valves at each duct drop to the welding booths
M08	Gymnasium supply air ductwork downstream of the sound attenuators to Duct Sox (or equal) carry Gilbane savings	1-Aug-22	(\$79,802)	3	0	0	0	(79,802)	See Bala Sketch per 8-1-2022 email (forwarded by DRA)
M09	Reduce Event Lobby AHU-9 capacity (event lobby can get to 80 deg at peak load)	1-Aug-22	\$0	2	0	0	0	0	Part of Auditorium reduction
M10	Look at relocating AHUs 4-7- to exterior of building to reuce the intake and return duct	8-Aug-22	(\$342,100)	3	0	0	0	(342,100)	
M11	Eliminate full cooling at Shops	5-Aug-22	(\$300,000)	1	0	(300,000)	0	0	
E01	In each classroom, reduce lighting control zones from four zones per classroom to three zones per classroom, reduce to two zones (8/16/22)	16-Aug-22	(\$126,600)	2	0	0	(126,600)	0	
E02	For site lighting, control lighting with integral photocells at each light pole, in lieu of using the lighting control system on top of photocells to turn on/off fixtures.	1-Aug-22	(\$20,000)	2	0	0	(20,000)	0	
E03	Provide aluminum feeders for those within the main building 200Amps and larger. This does not include feeders run to the satellite buildings	1-Aug-22	(\$732,186)	2	0	0	(732,186)	0	
E04	Remove duct banks from main fire alarm control panel to all satellite/out buildings.	1-Aug-22	(\$4,500)	2	0	0	(4,500)	0	
E05	Change the site lighting fixtures to the following: Beacon Viper - https://hubbellcdn.com/specsheet/BEA_VIPERSPEC.pdf	1-Aug-22	(\$27,000)	2	0	0	(27,000)	0	https://hubbellcdn.com/specsheet/BEA_VIPERSPEC.pdf

E06	Shorten Duct Bank Primary, Telcom and Generator to more in the range of to in the range of 500 lf	1-Aug-22	(\$200,000)	2	0	0	(200,000)	0	
E07	Move All Transformer closer to their prospective Switchboards in the range of 50 linear feet per run currently 200+ feet away	1-Aug-22	(\$300,000)	2	0	0	(300,000)	0	Compare the costs of the retaining wall that would have to be added GBC
E08	Utilize Aluminum Feeders 100 amps can be added to above	1-Aug-22	(\$150,000)	2	0	0	(150,000)	0	
E09	Utilize Aluminum MC Feeders for feeds 100 amps to 225 amps can be added to above	1-Aug-22	(\$20,000)	2	0	0	(20,000)	0	
E10	Eliminate Vehicle Charging Stations in Auto Shop quantity of 4	1-Aug-22	(\$22,500)	1	0	(22,500)	0	0	Future Keep One, size the panel for the future
E11	Reduce Cord Reel Quantity in shops reduce by 10 overall	1-Aug-22	(\$16,000)	2	0	0	(16,000)	0	
E12	Remove Lightning Protection remove Completely	1-Aug-22	(\$200,000)	3	0	0	0	(200,000)	The district will review with the insurance carrier
E13	Remove Exterior Grounding Loop Remove in it Entirety	1-Aug-22	(\$40,000)	3	0	0	0	(40,000)	
E14	Utilize Lightning Preventor System in lieu of Lightening Protection cannot be take with E12	1-Aug-22	(\$100,000)	2	0	0	(100,000)	0	
E15	Move Class Speech Reinforcement to tech Budget Wireless Ceiling Panel	1-Aug-22	(\$217,000)	1	0	(217,000)	0	0	
E16	Remove Draw-out Breakers from Main Switchboard	1-Aug-22	(\$20,000)	1	0	(20,000)	0	0	
E17	Have Single ended Switchboard would remove set of Secondaries and remove Secondary Duct Bank reduces redundancy	1-Aug-22	(\$175,000)	1	0	(175,000)	0	0	
E18	Eliminate panels and transformers for Parking EV charging Stations conduit, wire ,panels transformer and charging station	1-Aug-22	(\$70,000)	2	0	0	(70,000)	0	
E19	Re-evaluate conduit and Service going from Maintenance Building to Main Building(reduce spares and shorter conduits)	1-Aug-22	(\$40,000)	2	0	0	(40,000)	0	
E20	Eliminate Theatrical Dimming and rough in(eliminates all Electrical Scope associated with Theater)	1-Aug-22	(\$200,000)	2	0	0	(200,000)	0	Based on the revised Auditorium space design, re-eval;uate during CD phase
E21	Revaluate Conduit and how site Lighting is powered for entrance near School Sign and power and communication for sign potentially wireless	1-Aug-22	(\$20,000)	2	0	0	(20,000)	0	
E22	Eliminate all Electrical from Mezzanine Areas	1-Aug-22	(\$25,000)	3	0	0	0	(25,000)	
E23	Eliminate Football Sports Lighting Would result in total elimination of Sports lighting and Feeders	1-Aug-22	(\$400,000)	3	0	0	0	(400,000)	
E24	Reduce Security Camera counts(target)	1-Aug-22	(\$40,000)	1	0	(40,000)	0	0	
E25	Delete Sub Metering	1-Aug-22	(\$515,000)	1	0	(515,000)	0	0	
E26	Target Reduction in Lighting - \$1 / sqft	11-Aug-22	(\$380,000)	1	0	(380,000)	0	0	
	Delete "Allowance for Items not included in CM Pricing" (Gen. Conditions)		(\$1,000,000)	3	0	0	0	(1,000,000)	
	Delete wrapping of the building for winter conditions - scope included above (Gilbane)	16-Aug-22	(\$200,000)	1	0	(200,000)	0	0	
	Reduce design contingency 1/2 %		(\$1,092,000)	3	0	0	0	(1,092,000)	
	Reduce escalation 5.75 to 5.65%		(\$218,400)	2	0	0	(218,400)	0	
	Totals					(6,087,183)	(14,725,703)	(6,872,500)	(7,761,969)
	Design / Estimating Contingency					(243,487)	(589,028)	(274,900)	(310,479)

	Escalation	5.75%	(364,014)	(880,597)	(410,976)	(464,166)	
	Sub-contractor bonds	1.20%	(80,336)	(194,344)	(90,701)	(102,439)	
	CM Contingency	2.50%	(169,376)	(409,742)	(191,227)	(215,976)	
	Summary Factors (Contingencies& Escalation.)	13.45%	(857,213)	(2,073,711)	(967,803)	(1,093,060)	
	Total Costs	(\$37,839,876.43)	(6,944,396)	(16,799,414)	(7,840,303)	(8,855,029)	