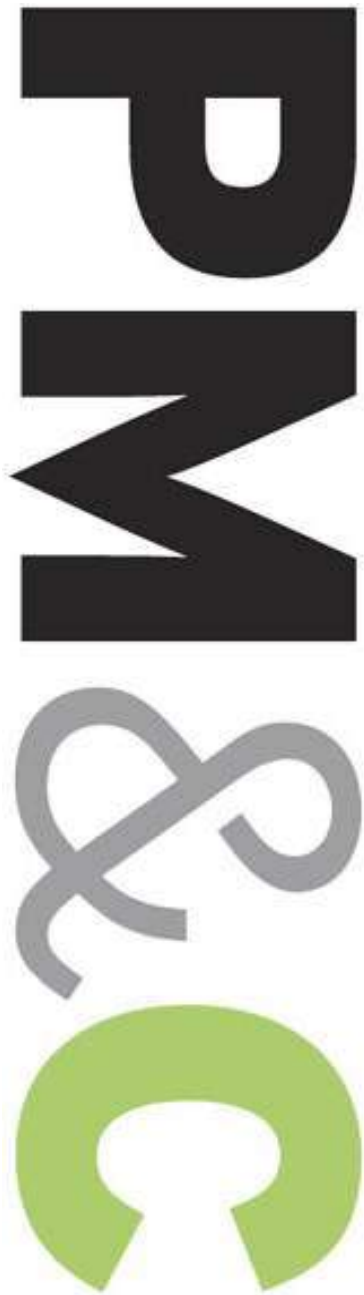


17 DESIGNER'S COST ESTIMATE

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17.1 Designer's Cost Estimate



Schematic Design Estimate

Florence Roche Elementary School Groton, MA

PM&C LLC
20 Downer Ave, Suite 5
Hingham, MA 02043
(T) 781-740-8007
(F) 781-740-1012

Prepared for:

Studio G

December 7, 2020





Schematic Design Estimate

MAIN CONSTRUCTION COST SUMMARY

	Construction Start	Gross Floor Area	\$/sf	Estimated Construction Cost
NEW CONSTRUCTION OPTION				
New Building	Apr-22	109,855	\$336.66	\$36,984,070
Sitework - Trade Costs				\$8,905,486
SUBTOTAL TRADE COSTS BUILDING and SITEWORK		109,855	\$417.73	\$45,889,556
Design and Estimating Contingency	10.0%			\$4,588,956
Escalation Allowance	5.0%			\$2,294,478
Phasing and Logistics				NR
SUBTOTAL with CONTINGENCIES				\$52,772,990
General Conditions	24	Mths	\$130,000	\$3,120,000
General Requirements	3.0%			\$1,583,190
Insurances	1.40%			\$738,822
Bond	0.75%			\$395,797
Fee	2.5%			\$1,465,270
GMP Contingency	2.5%			\$1,465,270
TOTAL ESTIMATED CONSTRUCTION COST		109,855	\$560.21	\$61,541,339

ALTERNATES - values include mark-ups

- | | | |
|---|--------|--------------------|
| 1. Provide 8" metal studs in lieu of 10" metal studs at exterior stud walls. This will incur additional finishing at column locations where they protrude from wall plane: additional GWB corners, taping, base treatment, casework/countertop cut-outs, etc. | ADD | \$5,174 |
| 2. Provide epoxy floor and wall base at all bathrooms in lieu of 2x2 ceramic floor and wall base tile. | DEDUCT | (\$130,739) |
| 3. Provide triple glazed, thermally broken, aluminum windows in lieu of double glazed, thermally broken, aluminum windows. | ADD | \$341,405 |
| 4. Provide double glazed polymer windows in lieu of double glazed, thermally broken, aluminum windows. | DEDUCT | (\$243,861) |

UNIT PRICES - values include mark-ups

- | | | |
|---|-----|----------------|
| 1. Provide unit price for one 4' wide x 7' tall double glazed, thermally broken, aluminum window. (base design) | ADD | \$3,379 |
| 2. Provide unit price for one 4' wide x 7' tall triple glazed, thermally broken, aluminum window. | ADD | \$4,318 |
| 3. Provide unit price for one 4' wide x 7' tall double glazed, polymer window. | ADD | \$2,441 |
| 4. Provide unit price for one 4' wide x 7' tall triple glazed, polymer window. | ADD | \$3,379 |

Schematic Design Estimate

This Schematic Design estimate was produced from the Schematic Design Pricing Set dated October 9, 2020 as well as narratives and other documentation prepared by Studio G and their design team.

This estimate includes all direct construction costs, construction manager'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)
- Utility company back charges, including work required off-site
- Work to City streets and sidewalks including new signals, (except as noted in this estimate)
- Construction or occupancy phasing or off hours' work, (except as noted in this estimate)



CONSTRUCTION COST SUMMARY IN CSI FORMAT

	NEW BUILDING		SITEWORK		TOTAL PROJECT	
	Subtotal	Total	Subtotal	Total	Subtotal	Total
NEW BUILDING AND SITEWORK						
DIV. 2 EXISTING CONDITIONS		\$297,150		\$445,000		\$742,150
024100 Site Demolition	\$0		\$0		\$0	
013280 Haz-Mat Abatement	\$297,150		\$445,000		\$742,150	
DIV. 3 CONCRETE		\$1,900,190		\$601,563		\$2,501,753
033000 Cast In Place Concrete	\$1,900,190		\$601,563		\$2,501,753	
DIV. 4 MASONRY		\$2,534,178		\$0		\$2,534,178
040001 Masonry - FSB	\$2,534,178		\$0		\$2,534,178	
DIV. 5 METALS		\$4,160,543		\$0		\$4,160,543
050001 Metal Fabrications - FSB	\$249,780		\$0		\$249,780	
051200 Structural Steel Framing	\$3,164,073		\$0		\$3,164,073	
053100 Steel Decking	\$551,690		\$0		\$551,690	
055100 Metal Stairs & Railings	\$195,000		\$0		\$195,000	
DIV. 6 WOODS, PLASTICS & COMPOSITES		\$514,903		\$0		\$514,903
061000 Rough Carpentry	\$291,533		\$0		\$291,533	
062000 Finish Carpentry	\$0		\$0		\$0	
064000 Architectural Woodwork	\$223,370		\$0		\$223,370	
DIV. 7 THERMAL & MOISTURE PROTECTION		\$3,331,912		\$0		\$3,331,912
070001 Waterproofing, Dampproofing & Caulking - FSB	\$644,428		\$0		\$644,428	
070002 Roofing & Flashing - FSB	\$1,407,521		\$0		\$1,407,521	
072100 Thermal Insulation	\$482,086		\$0		\$482,086	
072726 Fluid Applied Air Barriers	\$0		\$0		\$0	
074243 Composite Metal Panels	\$672,950		\$0		\$672,950	
078100 Applied Fireproofing	\$0		\$0		\$0	
078400 Firestopping	\$54,927		\$0		\$54,927	
079513 Construction & Expansion Joints	\$70,000		\$0		\$70,000	
DIV. 8 DOORS & WINDOWS		\$2,034,690		\$0		\$2,034,690
080001 Aluminum Windows/Storefronts/Curtainwall - FSB	\$1,069,180		\$0		\$1,069,180	
080002 Glass & Glazing - FSB	\$396,560		\$0		\$396,560	
081113 Doors and Frames	\$262,900		\$0		\$262,900	
083100 Access Doors and Panels	\$15,000		\$0		\$15,000	
083323 Overhead Coiling Doors	\$39,500		\$0		\$39,500	
087100 Door Hardware	\$243,300		\$0		\$243,300	
089000 Louvers and Vents	\$8,250		\$0		\$8,250	
DIV. 9 FINISHES		\$6,543,554		\$0		\$6,543,554
090002 Tile - FSB	\$417,748		\$0		\$417,748	
090003 Acoustical Ceilings - FSB	\$849,852		\$0		\$849,852	
090005 Resilient Flooring - FSB	\$437,973		\$0		\$437,973	
090007 Terrazzo Flooring - FSB	\$483,685		\$0		\$483,685	
090009 Painting - FSB	\$332,333		\$0		\$332,333	
092900 GWB, Lath and Plastering	\$3,419,152		\$0		\$3,419,152	
096400 Wood Flooring	\$38,834		\$0		\$38,834	
096466 Wood Athletic Flooring	\$112,152		\$0		\$112,152	
096766 Fluid Applied Flooring	\$40,240		\$0		\$40,240	
096800 Carpet	\$59,130		\$0		\$59,130	
097200 Wallcoverings/FRP	\$53,630		\$0		\$53,630	
098414 Acoustic Panels	\$298,825		\$0		\$298,825	
DIV. 10 SPECIALTIES		\$519,576		\$0		\$519,576
101116 Markerboards	\$138,376		\$0		\$138,376	
101200 Display Cases	\$48,000		\$0		\$48,000	
101400 Signage	\$71,500		\$0		\$71,500	
102113 Toilet Compartments	\$42,000		\$0		\$42,000	
102228 Folding Partition	\$117,000		\$0		\$117,000	
102813 Toilet Accessories	\$85,150		\$0		\$85,150	
104400 Safety Specialties	\$14,850		\$0		\$14,850	
105113 Metal Lockers	\$2,700		\$0		\$2,700	
109500 Green & Living Walls	\$0		\$0		\$0	
DIV. 11 EQUIPMENT		\$603,110		\$0		\$603,110
111300 Loading Dock Equipment	\$0		\$0		\$0	
113100 Appliances	\$8,200		\$0		\$8,200	
114000 Foodservice Equipment	\$405,810		\$0		\$405,810	
115213 Projection Screens	\$10,000		\$0		\$10,000	



CONSTRUCTION COST SUMMARY IN CSI FORMAT

	NEW BUILDING		SITEWORK		TOTAL PROJECT	
	Subtotal	Total	Subtotal	Total	Subtotal	Total
NEW BUILDING AND SITEWORK						
116100 Theatre Equipment	\$10,000		\$0		\$10,000	
116623 Gymnasium Equipment	\$138,900		\$0		\$138,900	
116653 Gymnasium Dividers	\$24,200		\$0		\$24,200	
119000 Miscellaneous Equipment	\$6,000		\$0		\$6,000	
DIV. 12 FURNISHINGS		\$1,167,054		\$0		\$1,167,054
122400 Window Shades	\$110,774		\$0		\$110,774	
123000 Casework	\$1,023,700		\$0		\$1,023,700	
124813 Entrance Floor Mats and Frames	\$32,580		\$0		\$32,580	
DIV. 13 SPECIAL CONSTRUCTION		\$0		\$0		\$991,841
No Work in this Section	\$0		\$0		\$0	
DIV. 14 CONVEYING SYSTEMS		\$205,000		\$0		\$205,000
140001 Elevators - FSB	\$205,000		\$0		\$205,000	
DIV. 21 FIRE SUPPRESSION		\$559,641		\$227,200		\$786,841
210000 Fire Suppression - FSB	\$559,641		\$227,200		\$786,841	
DIV.22 PLUMBING		\$1,768,337		\$0		\$1,768,337
220000 Plumbing - FSB	\$1,768,337		\$0		\$1,768,337	
DIV. 23 HVAC		\$5,894,677		\$0		\$5,894,677
230000 HVAC - FSB	\$5,894,677		\$0		\$5,894,677	
DIV.26 ELECTRICAL		\$4,001,422		\$416,300		\$4,417,722
260000 Electrical - FSB	\$4,001,422		\$416,300		\$4,417,722	
DIV. 31 EARTHWORK		\$948,133		\$2,010,390		\$2,958,523
310000 Earthwork	\$948,133		\$946,430		\$1,894,563	
311000 Site Preparation & Clearing	\$0		\$593,316		\$593,316	
312500 Erosion Control	\$0		\$470,644		\$470,644	
DIV. 32 EXTERIOR IMPROVEMENTS		\$0		\$3,713,367		\$3,713,367
321000 Pavement, Curbing & Edging	\$0		\$1,129,977		\$1,129,977	
321313 Site Concrete	\$0		\$0		\$0	
323100 Site Improvements	\$0		\$1,449,945		\$1,449,945	
323114 Chainlink Fencing	\$0		\$34,700		\$34,700	
323119 Ornamental Fence	\$0		\$0		\$0	
329900 Landscaping	\$0		\$1,098,745		\$1,098,745	
DIV. 33 UTILITIES		\$0		\$1,491,666		\$1,491,666
331000 Water Distribution	\$0		\$116,070		\$116,070	
333000 Sanitary Sewerage	\$0		\$167,015		\$167,015	
334000 Storm Drainage Systems	\$0		\$1,195,281		\$1,195,281	
335000 Fuel Distribution	\$0		\$13,300		\$13,300	
SUBTOTAL DIRECT (TRADE) COST		\$36,984,070		\$8,905,486		\$46,881,397

CONSTRUCTION COST SUMMARY

<i>BUILDING SYSTEM</i>	<i>SUB-TOTAL</i>	<i>TOTAL</i>	<i>\$/SF</i>
NEW BUILDING SUMMARY			
A10 FOUNDATIONS		\$2,628,796	
A1010 Standard Foundations	\$1,774,392		\$16.15
A1020 Special Foundations	\$0		\$0.00
A1030 Lowest Floor	\$854,404		\$7.78
A20 BASEMENT CONSTRUCTION		\$0	
A2010 Basement Excavation	\$0		\$0.00
A2020 Basement Walls	\$0		\$0.00
B10 SUPERSTRUCTURE		\$4,179,663	
B1010 Upper Floor	\$1,868,297		\$17.01
B1020 Roof Construction	\$2,311,366		\$21.04
B20 EXTERIOR CLOSURE		\$6,077,803	
B2010 Exterior Walls	\$4,853,556		\$44.18
B2020 Windows	\$1,105,452		\$10.06
B2030 Exterior Doors	\$118,795		\$1.08
B30 ROOFING		\$1,515,857	
B3010 Roof Coverings	\$1,436,482		\$13.08
B3020 Roof Openings	\$79,375		\$0.72
C10 INTERIOR CONSTRUCTION		\$4,468,943	
C1010 Partitions	\$3,064,184		\$27.89
C1020 Interior Doors	\$677,383		\$6.17
C1030 Specialties/Millwork	\$727,376		\$6.62
C20 STAIRCASES		\$277,282	
C2010 Stair Construction	\$210,000		\$1.91
C2020 Stair Finishes	\$67,282		\$0.61
C30 INTERIOR FINISHES		\$3,321,035	
C3010 Wall Finishes	\$782,795		\$7.13
C3020 Floor Finishes	\$1,247,980		\$11.36
C3030 Ceiling Finishes	\$1,290,260		\$11.75
D10 CONVEYING SYSTEMS		\$208,300	
D1010 Elevator	\$208,300		\$1.90
D20 PLUMBING		\$1,775,837	
D20 Plumbing	\$1,775,837		\$16.17
D30 HVAC		\$5,902,177	
D30 HVAC	\$5,902,177		\$53.73
D40 FIRE PROTECTION		\$559,641	

Florence Roche Elementary School
Groton, MA

Schematic Design Estimate

GFA

109,855

CONSTRUCTION COST SUMMARY

<i>BUILDING SYSTEM</i>	<i>SUB-TOTAL</i>	<i>TOTAL</i>	<i>\$/SF</i>
NEW BUILDING SUMMARY			
D40 Fire Protection	\$559,641		\$5.09
D50 ELECTRICAL		\$4,001,422	
D5040 Electrical Systems	\$4,001,422		\$36.42
E10 EQUIPMENT		\$603,110	
E10 Equipment	\$603,110		\$5.49
E20 FURNISHINGS		\$1,167,054	
E2010 Fixed Furnishings	\$1,167,054		\$10.62
F20 HAZMAT REMOVALS		\$297,150	
F2010 Interior Demo	\$0		\$0.00
F2020 Hazardous Components Abatement	\$297,150		\$2.70
TOTAL DIRECT COST (Trade Costs)		\$36,984,070	\$336.66

Schematic Design Estimate

GFA 109,855

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW SCHOOL BUILDING							
62	Insulation to foundation walls; 2" thick; one side	6,884	sf	2.50	17,210		
63	310000 EARTHWORK						
64	<u>Rough and fine grade</u>						
66	Strip topsoil, remove off site					carried in site	
67	Cut; including over-excavation	7,100	cy	10.00	71,000		
68	Stockpile soils for reuse on site	6,125	cy	5.00	30,625		
69	Fill; imported structural fill; 25% swell	12,750	cy	32.00	408,000		
70	Segregate/load excess soils for disposal	975	cy	5.00	4,875		
71	Soil disposal - CY x 1.65	1,609	tn	18.00	incl. in allowance		
72	<u>Strip footings; 3'-0" x 1'-0"</u>						
73	Excavation	2,231	cy	12.00	26,772		
74	Store on site for reuse	2,231	cy	8.00	17,848		
75	Backfill with selected material	2,030	cy	9.00	18,270		
76	<u>Interior CMU footings; 2'-0" x 1'-0"</u>						
77	Excavation	116	cy	12.00	1,392		
78	Store on site for reuse	116	cy	8.00	928		
79	Backfill with selected material	96	cy	9.00	864		
80	<u>Column footings - 9' x 9' x 2'-0" interior footing</u>						
81	Excavation	1,077	cy	14.00	15,078		
82	Store on site for reuse	1,077	cy	8.00	8,616		
83	Backfill with selected material	806	cy	12.00	9,672		
84	<u>Column footings - 6' x 6' x 2'-0" exterior footing</u>						
85	Excavation	125	cy	14.00	1,750		
86	Store on site for reuse	125	cy	8.00	1,000		
87	Backfill with selected material	93	cy	12.00	1,116		
88	<u>Column footings - 8'-0" x 8'-0" x 2'-0" exterior footing</u>						
89	Excavation	480	cy	14.00	6,720		
90	Store on site for reuse	480	cy	8.00	3,840		
91	Backfill with selected material	256	cy	12.00	3,072		
92	<u>Column footings - 8'-0" x 8'-0" x 2'-0" exterior/interior footing</u>						
93	Excavation	288	cy	14.00	4,032		
94	Store on site for reuse	288	cy	8.00	2,304		
95	Backfill with selected material	154	cy	12.00	1,848		
96	<u>Miscellaneous</u>						
97	Rock removal allowance	1	ls	25,000.00	25,000		
98	Gravel beneath footings; 6" thick, compacted structural fill	263	cy	44.00	11,572		
99	Foundation drain	1,721	lf	22.00	37,862		
100	Dewatering allowance	1	ls	30,000.00	30,000		
101	SUBTOTAL					1,774,392	
102							
103	A1020 SPECIAL FOUNDATIONS						
104	No Work in this section						
105	SUBTOTAL						
106							
107	A1030 LOWEST FLOOR CONSTRUCTION						
108	033000 CONCRETE						
109	<u>New Slab on grade, 5" thick</u>	63,874	sf				
110	Mesh Re-bar 15% lap	73,455	sf	1.15	84,473		
111	Concrete -5" thick; 4,000 psi	1,018	cy	145.00	147,610		
112	Place & finish including control joints	63,874	sf	2.50	159,685		
113	<u>Miscellaneous</u>						
114	Premium for slab depressions	1	ls	5,000.00	5,000		
115	Moisture Mitigation; admixture	1,018	cy	60.00	NR		
116	Vapor barrier under slab on grade	63,874	sf	1.00	63,874		
117	Equipment pads	1	ls	5,000.00	5,000		
118	Loading dock	1	ls	25,000.00	25,000		
119							
120	072100 THERMAL INSULATION						
121	Rigid insulation beneath slab on grade; 2" thick	63,874	sf	2.50	159,685		
122							

Schematic Design Estimate

GFA 109,855

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW SCHOOL BUILDING								
123	310000 EARTHWORK							
124	Rough and fine grade	63,874	sf	0.50	31,937			
125	Base course; 12" thick; compacted	2,366	cy	40.00	94,640			
126	Underslab drainage	63,874	sf	3.00	NR			
127	E&B for under slab utilities	3,100	lf	25.00	77,500			
128	SUBTOTAL					854,404		
130	TOTAL - FOUNDATIONS							\$2,628,796
133	A20 BASEMENT CONSTRUCTION							
135	A2010 BASEMENT EXCAVATION							
136	No Work in this section							
137	SUBTOTAL							
139	A2020 BASEMENT WALLS							
140	No Work in this section							
141	SUBTOTAL							
143	TOTAL - BASEMENT CONSTRUCTION							
145	B10 SUPERSTRUCTURE							
146		758	tns					
147		13.80	lbs/sf					
148	B1010 FLOOR CONSTRUCTION							
149	033000 CONCRETE							
150	Floor Structure - Concrete:							
151	Mesh reinforcement in concrete topping	52,878	sf	1.10	58,166			
152	Concrete topping to metal decking, 4 1/2" thick; Light weight	671	cy	170.00	114,070			
153	Placing concrete topping	45,981	sf	3.00	137,943			
154	Moisture Mitigation; admixture	671	cy	60.00	NR			
155	Rebar at slab edges	11,495	lbs	1.50	17,243			
157	051200 STRUCTURAL STEEL FRAMING							
158	Floor Structure - Steel:							
159	Structure at Typical floors; 14 PSF	322	tns	3,800.00	1,223,600			
160	Premium for HSS steel	81	tns	400.00	32,400			
161	Shear studs	5,748	ea	6.00	34,488			
162	Platform/ stage framing	999	sf	15.00	14,985			
163	Decking							
164	Metal floor decking; 2", 18 gage	45,981	sf	4.00	183,924			
166	078100 FIREPROOFING/FIRESTOPPING							
167	Firestopping at floor penetrations	109,855	gsf	0.15	16,478			
168	Spray-applied fireproofing to beams and columns only				assumed not required			
170	079513 CONSTRUCTION & EXPANSION JOINTS							
171	Allowance for expansion joints including FR joints	1	ls	35,000.00	35,000			
172	SUBTOTAL					1,868,297		
174	B1020 ROOF CONSTRUCTION							
175	033000 CONCRETE							
176	Concrete slab for roof top equipment - allow	5,000	sf	10.00	50,000			
178	051200 STRUCTURAL STEEL FRAMING							
179	Roof Structure - Steel:							
180	Structure at roof	436	tns	3,800.00	1,656,800			
181	Premium for HSS steel	109	tns	200.00	21,800			
182	Premium for AESS steel				assumed not required			
183	Decking							
184	Metal roof decking; 3"	63,874	sf	4.00	255,496			
185	Premium for acoustic deck	22,454	sf	5.00	112,270			
186	Miscellaneous							
187	Support framing to roof screen	24	tns	4,500.00	108,000			

Schematic Design Estimate

GFA 109,855

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
NEW SCHOOL BUILDING								
188	Canopy framing	16	tns	4,500.00	72,000			
189								
190	078100 FIREPROOFING/FIRESTOPPING							
191	Spray-applied fireproofing to beams and columns only				assumed not required			
192								
193	079513 CONSTRUCTION & EXPANSION JOINTS							
194	Allowance for expansion joints including FR joints	1	ls	35,000.00	35,000			
195	SUBTOTAL					2,311,366		
196								
197	TOTAL - SUPERSTRUCTURE						\$4,179,663	

B20 EXTERIOR CLOSURE

201							
202	B2010 EXTERIOR WALLS	63,707	sf				
203	033000 CONCRETE						
204	Concrete bases at canopy columns - allow	4	ea	1,000.00	4,000		
205							
206	040001 MASONRY	51,223	sf				
207	M1; Calcium silicate 8"x24" large format, grey	2,640	sf	50.00	132,000		
208	Brick veneer; M2 and M3 iron spot and velour blend including premium for protruding alternate courses	46,764	sf	39.00	1,823,796		
209	Cast stone header, 16" high	766	lf	105.00	80,430		
210	Cast stone sill	766	lf	55.00	42,130		
211	8" CMU backup, reinforced @ gym, full height	7,694	sf	24.00	184,656		
212	Staging to exterior wall	63,707	sf	3.00	included in rates		
213							
214	050001 MISCELLANEOUS METALS						
215	Misc. metals at cmu	7,694	sf	2.00	15,388		
216	Misc. metals - allow for loose lintels etc.	15,000	lbs	2.00	30,000		
217	Magnetic steel wall (Col.F btwn 11&12)	1	ls	7,500.00	7,500		
218	Structural wall tie w/ steel plate connection at canopies; 5' span	3	loc	1,250.00	3,750		
219	Structural wall tie w/ steel plate connection at canopies; 10' span	6	loc	2,500.00	15,000		
220							
221	101400 SIGNAGE						
222	Exterior building signage	1	ls	20,000.00	20,000		
223							
224	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
225	Air barrier at masonry and metal panel	51,265	sf	7.50	384,488		
226	Air barrier at canopy soffits and overhangs	3,760	sf	7.50	28,200		
227	Air barrier at roof overhangs	1,600	sf	7.50	12,000		
228	Air barrier/flashing at windows	5,738	lf	7.00	40,166		
229	Miscellaneous sealants & flashings at closure	63,707	sf	0.50	31,854		
230							
231	072100 THERMAL INSULATION						
232	Insulation; 3 1/2" mineral wool	52,953	sf	3.00	158,859		
233	Stud insulation; 5 1/2" batt	36,441	sf	2.25	81,992		
234	Closed cell foam insulation at perimeter steel	7,130	sf	5.00	35,650		
235	Spay foam insulation at exterior opes	5,738	lf	5.00	28,690		
236							
237	074243 CLADDING & METAL PANELS	1,730	sf				
238	Prefinished 24" Morin metal wall panel	1,730	sf	70.00	121,100		
239	High pressure laminate ceiling at canopy soffits and building overhang	3,760	sf	65.00	244,400		
240	Roof screen, 12" Prefinished Morin metal wall panel, perforated and solid panel combination, 10' high	4,730	sf	65.00	307,450		
241							
242	092900 GYPSUM BOARD ASSEMBLIES						
243	DAFS or similar to closure at Cafeteria mechanical well	1,200	sf	24.00	28,800		
244	Backup framing system at canopy soffits and overhangs	3,760	sf	20.00	75,200		

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
NEW SCHOOL BUILDING								
245	10" metal stud backup	43,571	sf	14.00	609,994			
246	1/2" Sheathing	52,953	sf	2.90	153,564			
247	Drywall lining to interior face of stud backup	43,571	sf	3.50	152,499			
248	SUBTOTAL					4,853,556		
249								
250	B2020 WINDOWS	9,954	sf					
251	061000 ROUGH CARPENTRY							
252	Wood blocking at openings	5,738	lf	10.00	57,380			
253								
254	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
255	Backer rod & double sealant	5,738	lf	9.00	51,642			
256								
257	080001 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS							
258	Curtainwall, 4" framing, double glazed	2,166	sf	125.00	270,750			
259	Premium for spandrel panel at CW	300	sf	25.00	7,500			
260	Storefront, 4" framing, double glazed	7,274	sf	90.00	654,660			
261	Translucent glazing system in Gymnasium	514	sf	80.00	41,120			
262	Premium for metal panel in gym glazing	195	sf	30.00	5,850			
263	Premium for school guard glazing at main entry - allow	380	sf	35.00	13,300			
264	Sunshades				none shown			
265								
266	089000 LOUVERS & VENTS							
267	Louvers - allow	50	sf	65.00	3,250			
268	SUBTOTAL					1,105,452		
269								
270	B2030 EXTERIOR DOORS							
271	061000 ROUGH CARPENTRY							
272	Wood blocking at openings	143	lf	11.00	1,573			
273								
274	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
275	Backer rod & double sealant	143	lf	9.00	1,287			
276								
277	081113 DOORS & FRAMES							
278	Single leaf HM door and frame, single leaf	1	ea	1,000.00	1,000			
279	Double leaf HM door and frame, single leaf	6	pr	1,800.00	10,800			
280								
281	083323 OVERHEAD DOORS							
282	Overhead door				assumed not required			
283								
284	080001 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS							
285	Glazed aluminum entrance door and hardware; 3'x7'	3	ea	4,000.00	12,000			
286	Glazed aluminum entrance door and hardware; 6'x7'	8	pr	8,000.00	64,000			
287								
288	087100 DOOR HARDWARE							
289	Hardware	13	leaf	1,200.00	15,600			
290	Auto openers - allow	2	ea	5,000.00	10,000			
291								
292	090009 PAINTING							
293	Finish doors & frames	13	ea	195.00	2,535			
294	SUBTOTAL					118,795		
295								
296	TOTAL - EXTERIOR CLOSURE						\$6,077,803	
297								
298								
299	B30 ROOFING							
300								
301	B3010 ROOF COVERINGS							
302	050001 MISCELLANEOUS METALS							
303	Roof ladders - allow	2	ea	2,000.00	4,000			
304								
305	061000 ROUGH CARPENTRY							

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
NEW SCHOOL BUILDING								
306	Rough blocking at roof	66,224	sf	1.50	99,336			
307								
308	070002 ROOFING AND FLASHING							
309	TPO membrane roofing with 8" insulation on 1/2" gypsum protection board on 10mil vapor barrier on protection board - includes tapered	63,533	sf	16.00	1,016,528			
310	TPO membrane roofing system at canopies	2,160	sf	12.00	25,920			
311	TPO membrane on plywood on vapor barrier at parapets	5,968	sf	8.00	47,744			
312	Walkway pads - allow	1,978	sf	12.00	23,736			
313	12" wide Factory fabricated pre-finished aluminum coping	2,370	lf	55.00	130,350			
314	Aluminum fascia at canopies	256	lf	75.00	19,200			
315	Roof to wall flashing	1,000	lf	20.00	20,000			
316	Miscellaneous roof flashings & sealants	66,224	sf	0.75	49,668			
317	Allowance for roof protection rails				assumed not required			
318	SUBTOTAL					1,436,482		
319								
320	B3020 ROOF OPENINGS							
321	070002 ROOFING AND FLASHING							
322	Aluminum framed skylight	531	sf	125.00	66,375			
323	Roof hatch including guardrail and access ladder	2	ea	4,000.00	8,000			
324								
325	089000 LOUVERS & VENTS							
326	Elevator vent	1	ea	5,000.00	5,000			
327	SUBTOTAL					79,375		
328								
329	TOTAL - ROOFING						\$1,515,857	
330								
331								
332	C10 INTERIOR CONSTRUCTION							
333								
334	C1010 PARTITIONS							
335	040001 MASONRY							
336	CMU at gymnasium	6,697	sf	30.00	200,910			
337	CMU at elevator shaft	1,219	sf	32.00	39,008			
338	CMU at kitchen, mech rooms, receiving				carried as GWB			
339								
340	050001 MISCELLANEOUS METALS							
341	Seismic clips to CMU	63	ea	160.00	10,080			
342	Miscellaneous metals to CMU	7,916	sf	2.00	15,832			
343								
344	061000 ROUGH CARPENTRY							
345	Rough blocking at partitions	7,251	lf	4.00	29,004			
346	Rough blocking at interior glazing	1,444	lf	4.00	5,776			
347	Framing for stage platform	1,005	sf	20.00	20,100			
348	Framing for stage platform ramp	157	sf	10.00	1,570			
349	Framing for tiered seating/platforms	330	sf	25.00	8,250			
350	Wood blocking at interiors	109,855	gsf	0.50	54,928			
351								
352	078400 FIRESTOPPING							
353	Miscellaneous fire stopping	109,855	gsf	0.35	38,449			
354								
355	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
356	Miscellaneous sealants at partitions	109,855	gsf	0.50	54,928			
357	Sealants at interior glazing	1,444	lf	4.00	5,776			
358	Acoustical sealants	1	ls	5.00	25,000			
359								
360	080002 GLASS & GLAZING							
361	Interior storefront	2,167	sf	80.00	173,360			
362	Interior window	62	sf	80.00	4,960			
363	Sidelights - glazing (frames with Interior Doors)	980	sf	35.00	34,300			
364	Transoms - glazing (frames with Interior Doors)				assumed not required			
365	Transaction window	1	ea	3,500.00	3,500			
366	Nana walls	1	ls	50,000.00	50,000			
367	Security glazing - schoolguard film	896	sf	15.00	13,440			

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW SCHOOL BUILDING							
368							
369	092900						
	GWB ASSEMBLIES						
370							
	Interior GWB partitions - 10" ms	44,070	sf	22.50	991,575		
371							
	Plumbing/Shaft partition - 3-5/8"ms	12,422	sf	10.75	133,537		
372							
	Furred partitions	1,091	sf	9.00	9,819		
373							
	Typical partition - 6"ms	54,717	sf	17.00	930,189		
374							
	Premium for rated walls	2,507	sf	4.00	10,028		
375							
	Premium for level 5 finish - lobby/corridors/stairs/cafeterium	27,146	sf	2.50	67,865		
376							
	Column covers	1	ls	15,000.00	15,000		
377							
378	102228						
	FOLDING PARTITIONS						
379							
	Operable partitions - acoustically sealed at platform gym side	325	sf	150.00	48,750		
380							
	Operable partitions - acoustically sealed at platform cafeterium side	455	sf	150.00	68,250		
381							
	Operable partitions - bi-fold/manual acoustic at study rooms/OT/PT				assumed not required		
382							
	SUBTOTAL					3,064,184	
383							
384	C1020						
	INTERIOR DOORS						
385	061000						
	ROUGH CARPENTRY						
386							
	Rough blocking at door openings	3,029	lf	4.00	12,116		
387							
388	070001						
	WATERPROOFING, DAMPPROOFING AND CAULKING						
389							
	Backer rod & double sealants - door openings	3,029	lf	3.00	9,087		
390							
391	080002						
	GLASS & GLAZING						
392							
	Glass - single doors	8	ea	4,500.00	36,000		
393							
	Glass - double doors	9	ea	9,000.00	81,000		
394							
	Glass in wood/HM doors				carried w/ doors		
395							
396	081113						
	DOORS & FRAMES						
397							
	<u>Frames</u>						
398							
	HM - single doors	157	ea	450.00	70,650		
399							
	HM - double doors	18	ea	600.00	10,800		
400							
	HM Sidelights - frames (glazing with Interior Partitions)	980	sf	35.00	34,300		
401							
	HM Transoms - frames (glazing with Interior Partitions)				assumed not required		
402							
	Mirrors				assumed not required		
403							
	<u>Doors</u>						
404							
	HM doors - flush	10	ea	500.00	5,000		
405							
	Wood doors - flush oversized	10	ea	550.00	5,500		
406							
	Wood doors - flush	50	ea	450.00	22,500		
407							
	Wood doors - narrow glazed	14	ea	650.00	9,100		
408							
	Wood doors - glazed	105	ea	650.00	68,250		
409							
	STC/Fire rated premiums	1	ls	25,000.00	25,000		
410							
411	083100						
	ACCESS DOORS & FRAMES						
412							
	Access doors/panels					w/ MEPs	
413							
414	083323						
	OVERHEAD COILING DOORS						
415							
	Steel coiling door - serving area cafeterium	1	ea	10,000.00	10,000		
416							
	Steel coiling door - tray drop cafeterium	1	ea	4,500.00	4,500		
417							
	Security door at gen office/waiting	1	ea	25,000.00	25,000		
418							
419	087100						
	DOOR HARDWARE						
420							
	Hardware to doors	193	ea	900.00	173,700		
421							
	Premium for card readers	15	loc	1,600.00	24,000		
422							
	Premium for door operators/hold opens	1	ls	20,000.00	20,000		
423							
424	090009						
	PAINTING						
425							
	Finish doors & frames	193	ea	160.00	30,880		
426							
	SUBTOTAL					677,383	
427							
428	C1030						
	SPECIALTIES / MILLWORK						
429	050001						
	MISCELLANEOUS METALS						
430							
	Roof access ladder	2	ea	1,800.00	3,600		

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
NEW SCHOOL BUILDING								
431	Rail support for elevator cabs	1	loc	3,000.00	3,000			
432	Handrails at ramps	55	lf	125.00	6,875			
433	Handrails at seating steps	30	lf	125.00	3,750			
434	Guardrails at openings	51	lf	350.00	17,850			
435	Miscellaneous metals throughout building	109,855	gsf	1.00	109,855			
436								
437	061000 ROUGH CARPENTRY							
438	Backer panels in electrical closets	1	ls	1,500.00	1,500			
439								
440	064000 INTERIOR ARCHITECTURAL WOODWORK							
441	Window sills - engineered quartz	1,166	lf	45.00	52,470			
442	Desk - secretary	29	lf	850.00	24,650			
443	Desk - media center	26	lf	850.00	22,100			
444	Tiered seating	100	lf	500.00	50,000			
445	Bench seating	69	lf	350.00	24,150			
446	Bookcases	1	ls	25,000.00	25,000			
447								
448	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
449	Miscellaneous sealants throughout building						carried w/ partitions	
450								
451	101116 VISUAL DISPLAY SURFACES							
452	Markerboards - classrooms	3,960	sf	22.00	87,120			
453	Markerboard with music lines	96	sf	26.00	2,496			
454	Tackboards - classrooms	1,080	sf	22.00	23,760			
455	Markerboards/Tackboards - miscellaneous areas	1	ls	25,000.00	25,000			
456								
457	101200 DISPLAY CASES							
458	Display cases w/ shelves	30	lf	1,000.00	30,000			
459	Sliding glass enclosed tackboards - corridors	12	ea	1,500.00	18,000			
460								
461	101400 SIGNAGE							
462	Building directory	1	ls	3,000.00	3,000			
463	Plaque	1	ls	2,500.00	2,500			
464	Room signs	175	ea	120.00	21,000			
465	School branding and graphics	1	ls	25,000.00	25,000			
466								
467	102113 TOILET COMPARTMENTS							
468	ADA	8	ea	1,800.00	14,400			
469	Standard	15	ea	1,650.00	24,750			
470	Urinal screen	3	ea	950.00	2,850			
471								
472	102813 TOILET ACCESSORIES							
473	Gang bathrooms	8	ea	3,000.00	24,000			
474	Single bathrooms	26	ea	900.00	23,400			
475	Custorian	3	ea	500.00	1,500			
476	Hand dryers						assumed not required	
477	Changing tables	3	ea	4,750.00	14,250			
478	Exam room curtains/track	1	ea	1,000.00	1,000			
479	Soap dispenser - classrooms	56	ea	75.00	4,200			
480	Paper towel dispenser - classrooms	56	ea	300.00	16,800			
481								
482	104400 SAFETY SPECIALTIES							
483	Fire extinguisher cabinets	31	ea	350.00	10,850			
484	AED	5	ea	800.00	4,000			
485								
486	105113 LOCKERS							
487	Student lockers						carried w/ casework	
488	Single tier sloped top lockers at custorial and kitchen	9	opn	300.00	2,700			
489	SUBTOTAL						727,376	
490								
491	TOTAL - INTERIOR CONSTRUCTION							\$4,468,943
492								
493								
494	C20 STAIRCASES							

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
NEW SCHOOL BUILDING								
495								
496	C2010 STAIR CONSTRUCTION							
497	033000 CONCRETE							
498	Concrete fill to stairs	3	flt	5,000.00	15,000			
499								
500	055100 METAIR STAIRS & RALINGS							
501	Egress stair	3	flt	30,000.00	90,000			
502	Lobby area seating stair	1	ls	80,000.00	80,000			
503	Stage stairs	3	ea	5,000.00	15,000			
504	Cane detection at first floor stair landings	1	ls	10,000.00	10,000			
505	SUBTOTAL					210,000		
506								
507	C2020 STAIR FINISHES							
508	090005 RESILIENT FLOORING							
509	Rubber tile at egress stairs - landings	345	sf	14.00	4,830			
510	Rubber tile at egress stairs - treads & risers	776	lft	22.00	17,072			
511								
512	090007 TERRAZZO FLOORING							
513	Terrazzo treads	125	lf	180.00	22,500			
514	Terrazzo landings	58	sf	110.00	6,380			
515								
516	090009 PAINTING							
517	High performance coating to stairs including all railings etc.	3	flt	3,000.00	9,000			
518								
519	096400 WOOD FLOORING							
520	Stage risers	3	sets	2,500.00	7,500			
521	SUBTOTAL					67,282		
522								
523	TOTAL - STAIRCASES							\$277,282
524								
525								
526	C30 INTERIOR FINISHES							
527								
528	C3010 WALL FINISHES							
529	040001 MASONRY							
530	Face brick - interior wall finish	744	sf	42.00	31,248			
531								
532	064000 INTERIOR ARCHITECTURAL WOODWORK							
533	Proscenium opening; maple veneer surround	1	ls	25,000.00	25,000			
534								
535	090002 TILE							
536	4'-6" high Porcelain tile wainscot in corridors	4,720	sf	24.00	113,280			
537	Ceramic wall tile in bathrooms, full height & wainscot	6,845	sf	22.00	150,590			
538	Porcelain wall tile feature walls - lobby & ornamental stair	955	sf	30.00	28,650			
539								
540	090009 PAINTING							
541	Paint to partitions	217,784	sf	0.70	152,449			
542	Premium for accent colors - 20% of walls	43,557	sf	0.50	21,779			
543	Premium for epoxy paint	6,697	sf	0.50	3,349			
544								
545	097200 WALLCOVERING/FRP							
546	FRP - custodian	1,145	sf	14.00	16,030			
547	FRP - kitchen	1,400	sf	14.00	19,600			
548	FRP - trash	750	sf	14.00	10,500			
549	Corner guards/Misc wall protection	1	ls	7,500.00	7,500			
550								
551	098414 SOUND ABSORBING PANELS							
552	Acoustic panels in gym/STEAM/art - tectum	5,330	sf	18.00	95,940			
553	Acoustic panels in music/practice rooms - pyramid	2,280	sf	26.00	59,280			
554	Acoustic panels in lobby/cafetorium/media center - wood slat	1,360	sf	35.00	47,600			
555								
556	109500 GREEN & LIVING WALLS							
557	Green wall - STEAM						w/ painting	

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW SCHOOL BUILDING							
558	SUBTOTAL					782,795	
559							
560	C3020 FLOOR FINISHES						
561	033000 CONCRETE						
562	Ardex/Koster/Floor preparation				assumed not required		
563							
564	090002 TILE						
565	Ceramic tile	3,962	sf	24.00	95,088		
566	Tile base	1,507	lf	20.00	30,140		
567							
568	090005 RESILIENT FLOORING						
569	Linoleum	60,156	sf	6.00	360,936		
570	Rubber flooring	143	sf	17.50	2,503		
571	Resilient base	12,544	lf	3.00	37,632		
572	Transitions	1	ls	15,000.00	15,000		
573							
574	090007 TERRAZZO FLOORING						
575	Terrazzo flooring	10,647	sf	40.00	425,880		
576	Terrazzo base	1,157	lf	25.00	28,925		
577							
578	090009 PAINTING						
579	Sealed concrete	4,510	sf	2.00	9,020		
580							
581	096400 WOOD FLOORING						
582	Stage - wood dance flooring system	945	sf	22.00	20,790		
583	Stage flooring base	139	sf	12.00	1,668		
584	Wood flooring - seating platforms	317	sf	28.00	8,876		
585							
586	096466 WOOD ATHLETIC FLOORING						
587	Wood athletic flooring in gym w/ markings	6,018	sf	18.00	108,324		
588	Wood vented base	319	lf	12.00	3,828		
589							
590	096766 FLUID APPLIED FLOORING						
591	Resinous flooring w/ intregal base	2,515	sf	16.00	40,240		
592							
593	096800 CARPET						
594	Carpet	9,855	sf	6.00	59,130		
595	SUBTOTAL					1,247,980	
596							
597	C3030 CEILING FINISHES						
598	064000 INTERIOR ARCHITECTURAL WOODWORK						
599	Wood ceiling panels				carried below		
600							
601	090003 ACOUSTICAL TILE						
602	2x2 ACT; Armstrong Ultima	49,139	sf	6.00	294,834		
603	2x2 ACT; kitchen	1,901	sf	8.00	15,208		
604	2x2 ACT; bathrooms	4,195	sf	8.00	33,560		
605	ACT; large format	11,722	sf	10.00	117,220		
606	ACT w/ sound baffles	3,589	sf	15.00	53,835		
607	Suspended pyramid panels	2,791	sf	25.00	69,775		
608	Suspended wood slat panels	6,448	sf	35.00	225,680		
609	Open ceiling grid w/ axiom trim	1,237	sf	20.00	24,740		
610							
611	090009 PAINTING						
612	Paint GWB ceilings/horizontal soffits	2,524	sf	1.25	3,155		
613	Paint GWB vertical soffits	7,401	sf	1.50	11,102		
614	Paint to exposed ceiling & MEP	22,400	sf	2.75	61,600		
615	Allowance for misc painting/additional soffits throughout	109,855	gsf	0.25	27,464		
616							
617	092900 GWB ASSEMBLIES						
618	Interior GWB ceilings/horizontal soffits	2,012	sf	14.50	29,174		

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
NEW SCHOOL BUILDING								
619	Interior GWB fire rated ceiling	512	sf	17.50	8,960			
620	Interior GWB vertical soffits	7,401	sf	20.00	148,020			
621	Level 5 at vertical soffits	1	ls	15,000.00	15,000			
622	Allowance for gwb soffits throughout	109,855	gsf	0.50	54,928			
623								
624	098414 SOUND ABSORBING PANELS							
625	Linear wood ceiling panels/reflectors - corridors	1,091	sf	55.00	60,005			
626	Linear wood ceiling panels/reflectors - stage	480	sf	75.00	36,000			
627	SUBTOTAL					1,290,260		
628								
629	TOTAL - INTERIOR FINISHES						\$3,321,035	
630								
631								
632	D10 CONVEYING SYSTEMS							
633								
634	D1010 ELEVATOR							
635	050001 MISCELLANEOUS METALS							
636	Pit ladder	1	ea	3,000.00	3,000			
637	Sill angles	12	sf	25.00	300			
638								
639	140001 ELEVATOR							
640	Passenger elevator, 2 stop	1	ea	170,000.00	170,000			
641	Handicap lift	1	ea	35,000.00	35,000			
642	SUBTOTAL					208,300		
643								
644	TOTAL - CONVEYING SYSTEMS						\$208,300	
645								
646								
647	D20 PLUMBING							
648								
649	D20 PLUMBING, GENERALLY							
650	<u>Equipment</u>							
651	Duplex gas fired domestic HW heater 399 MBH	2	ea	28,000.00	56,000			
652	Storage tank 119 gallon	2	ea	1,000.00	2,000			
653	Sewage ejector	1	ea	7,500.00	7,500			
654	Interior grease trap	1	ea	6,500.00	6,500			
655	Plumbing equipment, pimps, drains roof drains...	109,855	gsf	1.75	192,246			
656	<u>Plumbing Fixtures & Specialties</u>							
657	Water closet	49	ea	1,500.00	73,500			
658	Lavatory	44	ea	1,000.00	44,000			
659	Urinal	7	ea	1,600.00	11,200			
660	Janitors sink	2	ea	1,150.00	2,300			
661	Water cooler bi-level	7	ea	4,800.00	33,600			
662	Sink	60	ea	985.00	59,100			
663	Art room sink with interceptor trap	4	ea	2,000.00	8,000			
664	rough-in & connection to kitchen equipment	1	ls	35,000.00	35,000			
665	Miscellaneous plumbing fixtures	109,855	gsf	0.50	54,928			
666	<u>Domestic Water Type I, Copper Pipe</u>							
667	Domestic water pipe with fittings & hangers	109,855	gsf	3.25	357,029			
668	Domestic water pipe insulation	109,855	gsf	2.00	219,710			
669	<u>Sanitary Waste And Vent Pipe w/ Hangers</u>							
670	Sanitary waste pipe with fittings & hangers	109,855	gsf	3.00	329,565			
671	Kitchen waste pipe with fittings & hangers	109,855	gsf	0.35	38,449			
672	<u>Storm Drainage, Hubless Cast Iron Pipe</u>							
673	Storm water pipe with fittings & hangers	109,855	gsf	1.25	137,319			
674	<u>Gas And Fuel Distribution Pipe</u>							
675	Gas pipe with fittings & hangers	109,855	gsf	0.75	82,391			
676	<u>Miscellaneous</u>							
677	Access doors/panels	1	ls	7,500.00	7,500			
678	Coordination	1	ls	5,000.00	5,000			
679	BIM				included in rates			
680	Coring, sleeves & firestopping	1	ls	8,000.00	8,000			

Schematic Design Estimate

GFA 109,855

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST
NEW SCHOOL BUILDING							
681	Testing and sterilization	1	ls	5,000.00	5,000		
682	Fees & permits				waived		
683	SUBTOTAL					1,775,837	
TOTAL - PLUMBING							\$1,775,837
D30 HVAC							
D30 HVAC, GENERALLY							
HVAC C+ HW Heating plant & VAV							
<u>HVAC Equipment</u>							
693	High Efficiency HW condensing boilers; 2500 MBH	3	ea	62,500.00	187,500		
694	VFD Pumps; 400 gpm; 25 hp	2	ea	18,000.00	36,000		
695	Expansion tank	2	ea	3,000.00	6,000		
696	Air separator	2	ea	2,000.00	4,000		
697	Boiler flues	1	ls	20,000.00	20,000		
698	Chiller; air cooled; high efficiency; 300 T	1	ea	225,000.00	225,000		
699	VFD Pumps; 480 gpm; 30 hp	2	ea	23,040.00	46,080		
700	Glycol system	1	ls	20,000.00	20,000		
701	Radiant ceiling panels	2,380	lf	130.00	309,400		
702	Minisplits; 2T	1	ls	12,000.00	12,000		
703	HVAC equipment; ie fine tube; CUH etc.	109,855	gsf	0.55	60,420		
<u>Air distribution</u>							
705	AHU - 1; 12,000 cfm	1	ea	120,000.00	120,000		
706	AHU - 2; 24,000 cfm with ER (Dehumidification or heat pipe)	1	ea	384,000.00	384,000		
707	AHU - 3; 24,000 cfm with ER (Dehumidification or heat pipe)	1	ea	384,000.00	384,000		
708	AHU - 4; 24,000 cfm with ER (Dehumidification or heat pipe)	1	ea	384,000.00	384,000		
709	AHU - 5; 12,000 cfm with ERW	1	ea	180,000.00	180,000		
710	AHU - 6 ; 7,500 cfm with ERW	1	ea	112,500.00	112,500		
711	Kitchen MAU; 5000 cfm	1	ea	15,000.00	15,000		
712	VAV box with heating coil	70	ea	950.00	66,500		
713	Fan coil unit				assumed not required		
714	Gymnasium destratification fan 12' dia	2	ea	12,500.00	25,000		
715	Exhaust fans	109,855	gsf	0.20	21,971		
<u>Sheet metal & Accessories (Ducted Return)</u>							
717	Galvanized sheet metal with fittings & hangers	85,000	lbs	13.00	1,105,000		
718	Duct insulation	59,321	sf	5.00	296,605		
719	Kitchen EF and welded ductwork	1	ls	35,000.00	35,000		
720	Registers, grilles and diffusers	367	ea	125.00	45,875		
721	Sheet metal & accessories	109,855	gsf	0.75	82,391		
<u>HVAC Piping</u>							
<u>Hot Water Piping</u>							
724	Hot water piping	109,855	gsf	3.50	384,493		
<u>Chilled Water Piping</u>							
726	CW piping	109,855	gsf	1.50	164,783		
<u>Refrigerant Piping</u>							
728	Refrigerant piping with fittings & hangers	109,855	gsf	0.25	27,464		
<u>Condensate Drain Piping</u>							
730	Condensate drain piping	109,855	gsf	0.25	27,464		
<u>Piping Insulation</u>							
732	Pipe insulation	109,855	gsf	2.00	219,710		
<u>Automatic Temperature Controls</u>							
734	Automatic temperature control DDC; Co2 Monitoring	109,855	gsf	6.00	659,130		
<u>Balancing</u>							
736	Testing & balancing	109,855	gsf	0.75	82,391		
<u>Miscellaneous</u>							
737	Access doors/panels	1	ls	7,500.00	7,500		

Schematic Design Estimate

GFA 109,855

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST
NEW SCHOOL BUILDING							
739	System testing and flushing	1	ls	12,500.00	12,500		
740	Coring, cutting, sleeves & fire stopping	1	ls	12,500.00	12,500		
741	Seismic Restraints and Structural Steel Comp.	1	ls	20,000.00	20,000		
742	Hydraulic lifts/rigging	1	ls	30,000.00	30,000		
743	Shop drawings / ENG Support / As-Built	1	ls	45,000.00	45,000		
744	BIM				included in rates		
745	Commissioning Support	1	ls	25,000.00	25,000		
746	Fees & permits				waived		
747	SUBTOTAL					5,902,177	
TOTAL - HVAC							\$5,902,177

D40 FIRE PROTECTION

D40 FIRE PROTECTION, GENERALLY

755	Main service piping with fittings					w/ site	
756	Hydrant					w/ site	
757	Equipment & valves	109,855	gsf	0.75	82,391		
758	Sprinkler heads	1,050	ea	95.00	99,750		
759	Connect to existing line (wet taps)					w/ site	
760	Distribution piping with fittings & hangers	8,400	lf	26.00	218,400		
761	Main sprinkler piping and standpipes	3,240	lf	40.00	129,600		
762	<u>Miscellaneous</u>						
763	Coordination	1	ls	7,500.00	7,500		
764	BIM				included in rates		
765	Hydraulic calculations	1	ls	5,500.00	5,500		
766	Coring, sleeves & firestopping	1	ls	12,000.00	12,000		
767	Shop drawings	1	ls	4,500.00	4,500		
768	Fees & permits				waived		
769	SUBTOTAL					559,641	
TOTAL - FIRE PROTECTION							\$559,641

D50 ELECTRICAL

D5010 SERVICE & DISTRIBUTION

Normal Power

778	2500A 480/277V main switchboard with SPD	1	ea	85,000.00	85,000		
779	Metering	1	ea	20,000.00	20,000		
780	Associated panelboards and transformers	109,855	sf	2.00	219,710		
781	Feeders:						
782	2500A feed (see site work)					Site work	
783	Normal power feeders	109,855	sf	1.70	186,754		
784	<u>Emergency power</u>						
785	225kW diesel generator with sound atten/WP cover	1	ls	70,000.00	70,000		
786	Generator load bank	1	ls	15,000.00	15,000		
787	Annunciator	1	ea	2,500.00	2,500		
788	250A 4P ATS	1	ea	6,700.00	6,700		
789	100A 4P ATS	1	ea	3,830.00	3,830		
790	Associated panelboards and transformers	109,855	sf	1.00	109,855		
791	UPS	1	ls	50,000.00	50,000		
792	Feeders:						
793	Emergency power feeders	109,855	sf	1.00	109,855		
794	<u>Photo Voltaics</u>						
795	PV rough-in for future PV array	1	ea	10,000.00	10,000		
796	<u>Equipment Wiring</u>						
797	Elevator feed and connection	1	ea	4,000.00	4,000		
798	Elevator cab power feed and connection	1	ea	1,500.00	1,500		
799	Lift power feed and connection	1	ea	2,500.00	2,500		
800	Chiller unit feed and connection	1	ea	12,000.00	12,000		

Schematic Design Estimate

GFA 109,855

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW SCHOOL BUILDING							
801	AHU feed and connection	6	ea	4,500.00	27,000		
802	Boiler feed and connection	3	ea	1,500.00	4,500		
803	Mini split unit feed and connection	1	ea	2,500.00	2,500		
804	FCU feed and connection	5	ea	850.00	4,250		
805	Pump feed and connection	4	ea	1,500.00	6,000		
806	VAV box feed and connection only	70	ea	250.00	17,500		
807	VFD's feed and connection only	4	ea	850.00	3,400		
808	Kin feed and connection w/EPO	2	ea	5,000.00	10,000		
809	Misc. equipment wiring	109,855	sf	0.25	27,464		
810	<u>Kitchen Equipment</u>				-		
811	Kitchen equipment wiring	1	ls	25,000.00	25,000		
812	MAU feed and connection	1	ea	3,500.00	3,500		
813	HEF feed and connection	1	ea	1,500.00	1,500		
814	SUBTOTAL					1,041,818	
815							
816	D5020 LIGHTING & POWER						
817	<u>Lighting</u>						
818	Exit sign	109,855	sf	0.35	38,449		
819	LED lighting	109,855	sf	5.50	604,203		
820	Gymnasium lighting (allow)	20	ea	550.00	11,000		
821	Exterior building lighting	1	ls	10,000.00	10,000		
822	<u>Lighting Control</u>						
823	Lighting control network	109,855	sf	1.25	137,319		
824	Lighting control panel	1	ea	2,500.00	2,500		
825	Photo cell, exterior ltg	1	ea	250.00	250		
826	<u>Lighting Circuitry</u>						
827	Lighting and circuitry	109,855	sf	2.25	247,174		
828	<u>Branch Devices</u>						
829	Duplex & GFI receptacles	109,855	sf	0.50	54,928		
830	Cord reel (STEM)	8	sf	1,200.00	9,600		
831	<u>Branch Circuitry</u>						
832	Branch circuitry	109,855	sf	2.25	247,174		
833	SUBTOTAL					1,362,597	
834							
835	D5030 COMMUNICATION & SECURITY SYSTEMS						
836	<u>Fire Alarm</u>						
837	Fire alarm control panel with Mass Notification	1	ls	12,000.00	12,000		
838	Terminal cabinet	1	ea	1,200.00	1,200		
839	Remote Annunciator	1	ea	1,500.00	1,500		
840	Radio master box	1	ea	8,500.00	8,500		
841	Transmitter	1	ea	850.00	850		
842	Knox box	1	ea	350.00	350		
843	Beacon	2	ea	275.00	550		
844	Graphic map	1	ea	850.00	850		
845	Plan cabinet	1	ea	850.00	850		
846	Drill switch	1	ea	150.00	150		
847	Bell	1	ea	225.00	225		
848	Initiating and reporting devices and circuitry	109,855	sf	2.00	219,710		
849	Testing & programming	1	ls	4,500.00	4,500		
850	<u>Distributed Antenna Radio System</u>						
851	BDA/DAS system	1	ls	65,000.00	65,000		
852	<u>Cafetorium</u>						
853	Stage lighting and dimming system	1	ls	65,000.00	65,000		
854	Installation & rough-in, allow	1	ls	25,000.00	25,000		
855	<u>Telecommunications</u>						
856	Network switches, PBX switching, WAP (provided by owner)					by others	
857	MDF fit out	1	ea	12,000.00	12,000		
858	IDF fit out	2	ea	8,500.00	17,000		
859	Devices and cabling	109,855	ea	2.00	219,710		
860	Rough -in with cable tray, conduit stubs and backboxes	109,855	ea	1.00	109,855		

Schematic Design Estimate

GFA 109,855

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
NEW SCHOOL BUILDING								
861	<u>Two-Way Call System</u>							
862	Two-way communication/Area of rescue, elevator lobbies	1	ls	25,000.00	25,000			
863	<u>Master clock/Paging/Public Address</u>							
864	Head-end	1	ls	20,000.00	20,000			
865	Clock, speakers and cabling	109,855	sf	1.00	109,855			
866	<u>Speech Amplification</u>							
867	Speech Amplification system - ceiling mounted	29	ea	2,600.00	75,400			
868	Speech Amplification system - portable					by owner		
869	<u>Gymnasium</u>							
870	Gymnasium equipment power, allow	1	ls	15,000.00	15,000			
871	<u>AV</u>							
872	AV equipment provided by others					by others		
873	Rough-in only	109,855	sf	0.25	27,464			
874	Rough-in only (Media Center)	1	ls	3,500.00	3,500			
875	<u>Sound Systems</u>							
876	Cafetorium sound system (Stage)	1	ls	30,000.00	30,000			
877	Gymnasium sound system	1	ls	20,000.00	20,000			
878	<u>Security System (CCTV, Card Access, Intrusion)</u>							
879	Head end	1	ls	30,000.00	30,000			
880	Security beacon WP	1	ea	350.00	350			
881	Cameras, card reader, sensors and cabling	109,855	sf	2.50	274,638			
882	Video Intercom system	1	ls	3,500.00	3,500			
883								
884	SUBTOTAL					1,399,507		
885								
886	D5040 OTHER ELECTRICAL SYSTEMS							
887	<u>Grounding Protection</u>							
888	Grounding	1	ls	15,000.00	15,000			
889	<u>Common Work Results</u>							
890	Lightning protection, UL master label	1	ls	50,000.00	50,000			
891	Temp power and lights	1	ls	75,000.00	75,000			
892	Coordination study, testing	1	ls	5,000.00	5,000			
893	Coordination	1	ls	50,000.00	50,000			
894	BIM					included in rates		
895	Fire stopping	1	ls	2,500.00	2,500			
896	Fees & permits					waived		
897	SUBTOTAL					197,500		
898								
899	TOTAL - ELECTRICAL						\$4,001,422	
900								
901	E10 EQUIPMENT							
902								
903								
904	E10 EQUIPMENT, GENERALLY							
905	<i>011300 LOADING DOCK EQUIPMENT</i>							
906	Loading dock equipment					assumed not required		
907								
908	<i>113100 APPLIANCES</i>							
909	Refrigerator/ Freezer	1	ea	2,000.00	2,000			
910	U/C Refrigerator	1	ea	1,000.00	1,000			
911	Dishwasher	3	ea	1,200.00	3,600			
912	Microwave	3	ea	200.00	600			
913	U/C Ice maker	1	ea	1,000.00	1,000			
914								
915	<i>114000 FOODSERVICE EQUIPMENT</i>							
916	Kitchen Equipment - 7/21/20 Crabtree McGrath quote	1	ls	405,810.00	405,810			
917								
918	<i>115213 PROJECTION SCREENS</i>							
919	Electrically operated projection screen at Cafeteria stage; 12'-8" x 8'	1	ea	10,000.00	10,000			
920								
921	<i>116100 THEATRE EQUIPMENT</i>							

Schematic Design Estimate

GFA 109,855

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW SCHOOL BUILDING								
922	Cafeteria Platform Curtains & Rigging	1	ls	10,000.00	10,000			
923	Dimming & fixture package				carried w/ electrical			
924	Audio-video package				carried w/ electrical			
925								
926	116623 ATHLETIC EQUIPMENT							
927	Scoreboard and shot clock	1	ea	15,000.00	15,000			
928	Volleyball sleeves	1	ls	3,000.00	3,000			
929	Gym wall pads	1,650	sf	16.00	26,400			
930	Basketball backstops; retractable	6	ea	10,500.00	63,000			
931	Climbing nets & ropes	1	ls	7,500.00	7,500			
932	Motorized assisted telescoping gymnasium bleacher seating w/ custom painted graphics on bleacher risers 100 seats	1	ls	24,000.00	24,000			
933								
934	116653 GYMNASIUM DIVIDERS							
935	Gymnasium dividing net	1,210	sf	20.00	24,200			
936								
937	119000 MISCELLANEOUS EQUIPMENT							
938	Kiln	2	ea	3,000.00	6,000			
939	SUBTOTAL					603,110		
940								
941	TOTAL - EQUIPMENT							\$603,110
942								
943								
944	E20 FURNISHINGS							
945								
946	E2010 FIXED FURNISHINGS							
947	122400 WINDOW SHADES							
948	Window treatments - manual exterior windows	8,844	sf	7.00	61,908			
949	Window treatments - manual interior sidelights	980	sf	7.00	6,860			
950	Window treatments - electrical solar control - cafetorium	648	sf	22.00	14,256			
951	Window treatments - electrical blackout - cafetorium/gym	1,110	sf	25.00	27,750			
952								
953	123000 CASEWORK							
954	<u>Kindergarten Classrooms</u>	7	rms					
955	Base cabinet with solid surf countertop	61	lf	450.00	27,450			
956	Upper cabinet	61	lf	275.00	16,775			
957	<u>1st Grade Classrooms</u>	6	rms					
958	Base cabinet with solid surf countertop	72	lf	450.00	32,400			
959	Upper cabinet	72	lf	275.00	19,800			
960	<u>2nd Grade Classrooms</u>	6	rms					
961	Base cabinet with solid surf countertop	72	lf	450.00	32,400			
962	Upper cabinet	72	lf	275.00	19,800			
963	<u>3rd Grade Classrooms</u>	6	rms					
964	Base cabinet with solid surf countertop	72	lf	450.00	32,400			
965	Upper cabinet	72	lf	275.00	19,800			
966	<u>4th Grade Classrooms</u>	6	rms					
967	Base cabinet with solid surf countertop	72	lf	450.00	32,400			
968	Upper cabinet	72	lf	275.00	19,800			
969	<u>Art Classrooms</u>							
970	Base cabinet with epoxy countertop	71	lf	525.00	37,275			
971	Upper cabinet	71	lf	275.00	19,525			
972	Art storage cabinetry	1	ls	10,000.00	10,000			
973	<u>Cafetorium</u>							
974	Base cabinet with solid surf countertop	12	lf	450.00	5,400			
975	<u>Corridors</u>							
976	Cubbies w/ lockable storage cabinets above	688	lf	600.00	412,800			
977	<u>Duplicating</u>							
978	Base cabinet with solid surf countertop	26	lf	450.00	11,700			
979	Upper cabinet	26	lf	275.00	7,150			

Schematic Design Estimate

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW SCHOOL BUILDING								
980	Mail slots	10	lf	350.00	3,500			
981	<u>Exam</u>							
982	Base cabinet with solid surf countertop	10	lf	450.00	4,500			
983	Upper cabinet	10	lf	275.00	2,750			
984	<u>Kitchenette</u>							
985	Base cabinet with solid surf countertop	18	lf	450.00	8,100			
986	Upper cabinet	18	lf	275.00	4,950			
987	<u>Media Center</u>							
988	Media storage cabinetry	1	ls	15,000.00	15,000			
989	<u>Music</u>							
990	Base cabinet with solid surf countertop	44	lf	450.00	19,800			
991	Upper cabinet	44	lf	275.00	12,100			
992	Instrument storage cabinetry	1	ls	20,000.00	20,000			
993	<u>Office 142A</u>							
994	Base cabinet with solid surf countertop	14	lf	450.00	6,300			
995	<u>OT/PT</u>							
996	Base cabinet with solid surf countertop	12	lf	450.00	5,400			
997	Upper cabinet	12	lf	275.00	3,300			
998	<u>Project Area</u>							
999	Base cabinet with solid surf countertop	60	lf	450.00	27,000			
1000	Upper cabinet	60	lf	275.00	16,500			
1001	<u>Resource Room</u>							
1002	Base cabinet with solid surf countertop	48	lf	450.00	21,600			
1003	Upper cabinet	48	lf	275.00	13,200			
1004	<u>Self Contained Rooms</u>							
1005	Base cabinet with solid surf countertop	56	lf	450.00	25,200			
1006	Upper cabinet	56	lf	275.00	15,400			
1007	<u>Speech Therapy</u>							
1008	Base cabinet with solid surf countertop	12	lf	450.00	5,400			
1009	Upper cabinet	12	lf	275.00	3,300			
1010	<u>Staff Lunch</u>							
1011	Base cabinet with solid surf countertop	8	lf	450.00	3,600			
1012	<u>Staff Workroom</u>							
1013	Base cabinet with solid surf countertop	23	lf	450.00	10,350			
1014	<u>STEAM</u>							
1015	Base cabinet with solid surf countertop	15	lf	450.00	6,750			
1016	Upper cabinet	15	lf	275.00	4,125			
1017	<u>Storage/Closets</u>							
1018	Shelving				assumed not required			
1019	<u>Storeroom</u>							
1020	Base cabinet with solid surf countertop	12	lf	450.00	5,400			
1021	Upper cabinet	12	lf	275.00	3,300			
1022								
1023	124813 ENTRANCE FLOOR MATS & FRAMES							
1024	Recessed entry mats	661	sf	45.00	29,745			
1025	Walk off mats	189	sf	15.00	2,835			
1026	SUBTOTAL					1,167,054		
1027								
1028	E2020 MOVABLE FURNISHINGS							
1029	All movable furnishings to be provided and installed by owner							
1030								
1031	SUBTOTAL					NIC		
1032	TOTAL - FURNISHINGS						\$1,167,054	
1033								
1034								
1035	F10 SPECIAL CONSTRUCTION							
1036								
1037	F10 SPECIAL CONSTRUCTION							
1038	No items in this section							
1039	SUBTOTAL							

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW SCHOOL BUILDING							
TOTAL - SPECIAL CONSTRUCTION							
F20 SELECTIVE BUILDING DEMOLITION							
F2010 BUILDING ELEMENTS DEMOLITION							
No items in this section							
SUBTOTAL							
F2020 HAZARDOUS COMPONENTS ABATEMENT							
	ACM floor tile	20,000	sf	6.00	120,000		
	ACM floor tile mastic	25	LF	20.00	500		
	ACM black waterproofing mastic	1,800	LF	20.00	36,000		
	ACM pipe insulation	225	LF	30.00	6,750		
	ACM yellow caulking at brick	25	LF	35.00	875		
	ACM black caulking on roof flashing	600	LF	35.00	21,000		
	LBP Compliance	1	Allow	2,500.00	2,500		
	Other Hazmat [boilers demo, equipment draining, recycling, white goods, etc.]	1	Allow	35,000.00	35,000		
	ACM removal at steam lines [insulation]	1	Allow	25,000.00	25,000		
	20% allowance for ACM not identified	1	Allow	20.0%	49,525		
	SUBTOTAL					297,150	
TOTAL - SELECTIVE BUILDING DEMOLITION							\$297,150

DESIGNER'S COST ESTIMATE

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Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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NEW SCHOOL SITEWORK

1	G SITEWORK	350,000	sf		-		
2							
3							
4	G10 SITE PREPARATION & DEMOLITION						
5	<u>Site Demolitions and Relocations</u>						
6	Site construction fence/barricades	1,590	lf	16.00	25,440		
7	Construction entrance gate/wheel wash	1	ea	20,000.00	20,000		
8	Phasing allowance	1	ls	100,000.00	100,000		
9	Construction signage/ police details	1	ls	20,000.00	20,000		
10	Construction staging allowance	12,000	sf	2.00	24,000		
11	Remove paving and sidewalks	155,760	sf	1.25	194,700		
12	Remove track surface	35,000	sf	0.25	8,750		
13	Remove existing utility lines	1,945	lf	25.00	48,625		
14	Remove existing utility structure	20	ea	500.00	10,000		
15	Cut and cap utility allowance	1	ls	10,000.00	10,000		
16	Remove fencing	500	lf	5.00	2,500		
17	Remove curbing	2,735	lf	9.00	24,615		
18	Remove shed	1	ea	1,500.00	1,500		
19	Clear and grub	178,000	sf	0.25	44,500		
20	Remove trees & stumps	39	loc	850.00	33,150		
21	Sawcut	65	lf	8.25	536		
22	Misc. site demolition	1	ls	25,000.00	25,000		
23	<u>Topsoil management</u>						
24	Strip topsoil, store on site	6,800	cy	12.00	81,600		
25	Strip topsoil, export from site	0	cy	16.00			
26	SUBTOTAL					674,916	
27							
28	<u>Building Earthwork</u>						
29	Cut; including over-excavation	7,100	cy	10.00	w/ building		
30	Stockpile soils for reuse on site	3,000	cy	5.00	w/ building		
31	Fill; imported structural fill; 25% swell	12,750	cy	32.00	w/ building		
32	Segregate/load excess soils for disposal	4,100	cy	5.00	w/ building		
33	Soil disposal - CY x 1.65	6,765	tn	18.00	incl. in allowance		
34	<u>Site Earthwork</u>						
35	Cut	6,100	cy	10.00	61,000		
36	Fill; using cut soils	6,100	cy	10.00	61,000		
37	Fill; using cut soils from building over-excavation	3,000	cy	10.00	30,000		
38	Fine grading	20,276	sy	2.25	45,621		
39	<u>Track Earthwork</u>						
40	Allowance for cut/fill	1	ls	75,000.00	75,000		
41	Site demo allowance; includes tree removals	1	ls	50,000.00	50,000		
42	Silt fence/erosion control allowance	2,000	lf	11.00	22,000		
43	<u>Erosion Control</u>						
44	Silt fence/erosion control	2,065	lf	12.00	24,780		
45	Silt fence/erosion control - stockpile allowance	900	lf	12.00	10,800		
46	Silt sacks	5	ea	250.00	1,250		
47	Erosion control maintenance & monitoring	1	ls	25,000.00	25,000		
48	<u>Building Demolition</u>						
49	Demolish existing building	58,402	sf	7.00	408,814		
50	<u>Hazardous Waste Remediation</u>						
51	Hazardous Waste Remediation - building				w/ building		
52	Allowance for Hazardous waste/contaminated soils	1	ls	415,000.00	415,000		
53	Allowance for UST	1	ls	30,000.00	30,000		
54	SUBTOTAL					1,260,265	
55							
56	G20 SITE IMPROVEMENTS						
57	<u>Roadways and Parking Lots</u>						
58	Bituminous concrete paving - roadways	44,975	sf		-		
59	gravel base 18"	2,499	cy	40.00	99,960		
60	Asphalt wearing course; 1.5" thick	422	tns	120.00	50,640		
61	Asphalt binder course; 3" thick	843	tns	100.00	84,300		

Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW SCHOOL SITEWORK							
62	<i>Bituminous concrete paving - parking</i>	33,625	sf		-		
63	gravel base 12"	1,245	cy	40.00	49,800		
64	Asphalt wearing course; 1.5" thick	315	tns	120.00	37,800		
65	Asphalt binder course; 3" thick	630	tns	100.00	63,000		
66	Vertical granite curbs; resintall salvaged curb	2,700	lf	28.00	75,600		
67	Vertical granite curbs; remove/reset adjacent to MS	840	lf	36.00	30,240		
68	Steel-backed timber guardrail (assume, shown in details)	500	lf	100.00	50,000		
69	Other road markings	1	ls	10,000.00	10,000		
70	HC curb cuts; allowance	10	loc	850.00	8,500		
71	New traffic signs; allowance	1	ls	10,000.00	10,000		
72	<u>Pedestrian paving</u>						
73	<i>Stabilized stonedust</i>	9,110	sf				
74	Stonedust 6" depth	278	tn	50.00	13,900		
75	2-3" stabilizer course	139	tn	200.00	27,800		
76	Steel edging	735	lf	18.00	13,230		
77	<i>Fire access road - stabilized stonedust</i>	33,625	sf				
78	Stonedust 6" depth	1,027	tn	50.00	51,350		
79	2-3" stabilizer course	514	tn	200.00	102,800		
80	Steel edging	2,000	lf	18.00	36,000		
81	<i>Bit. Concrete walks</i>	10,285	sf		-		
82	gravel base; 8" thick (no detail)	255	cy	40.00	10,200		
83	Asphalt; 4" thick	255	tns	120.00	30,600		
84	<i>Concrete walks</i>	27,400	sf				
85	concrete paving; 6" thick	27,400	sf	10.00	274,000		
86	gravel base; 12"	1,015	cy	40.00	40,600		
87	Premium for ramp	265	sf	25.00	6,625		
88	<i>Unit Paving</i>	10,890	sf				
89	Pavers	10,890	sf	18.00	196,020		
90	Concrete setting base	10,890	sf	8.00	87,120		
91	gravel base, assume 12"	403	cy	40.00	16,120		
92	Concrete Pad @ Generator/Transformer	420	sf	25.00	10,500		
93	Concrete stairs	250	lf	225.00	56,250		
94	Handrails; galvanized	35	lf	250.00	8,750		
95	Cheek walls at stairs	35	lf	350.00	12,250		
96	Target reduction concrete in lieu of pavers	(1)	ls	50,000.00	(50,000)		
97	<u>Play surface</u>						
98	gravel base; 12" thick (assume - no detail/narr)	466	cy	40.00	18,640		
99	Poured in place rubber safety surface	12,570	sf	25.00	314,250		
100	Play equipment	1	ls	375,000.00	375,000		
101	Playground curbing allowance per email	600	lf	45.00	27,000		
102	4' CLF	600	lf	55.00	33,000		
103	4' CLF - double gates	2	ea	850.00	1,700		
104	<u>Track</u>						
105	<i>Asphalt Paving; track oval</i>	30,700	sf				
106	gravel base; 12" thick	1,137	cy	40.00	45,480		
107	asphalt top; 1.5" thick	288	tns	150.00	43,200		
108	asphalt binder; 1.5" thick	288	tns	130.00	37,440		
109	Fine grade	30,700	sf	0.10	3,070		
110	<i>Asphalt Paving; high jump area only to match existing</i>	4,000	sf				
111	gravel base; 12" thick	148	cy	40.00	5,920		
112	asphalt top; 1.5" thick	38	tns	150.00	5,700		
113	asphalt binder; 1.5" thick	38	tns	130.00	4,940		
114	Fine grade	4,000	sf	0.10	400		
115	<i>Asphalt Paving; Long jump/triple jump runways (2 total)</i>	1,050	sf				
116	gravel base; 12" thick	39	cy	40.00	1,560		
117	asphalt top; 1.5" thick	10	tns	150.00	1,500		
118	asphalt binder; 1.5" thick	10	tns	130.00	1,300		
119	Fine grade	1,050	sf	0.10	105		
120	<i>Asphalt Paving; Pole vault runway</i>	850	sf				

Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW SCHOOL SITEWORK							
121	gravel base; 12" thick	31	cy	40.00	1,240		
122	asphalt top; 1.5" thick	8	tns	150.00	1,200		
123	asphalt binder; 1.5" thick	8	tns	130.00	1,040		
124	Fine grade	850	sf	0.10	85		
125	<i>Asphalt Paving; Javelin runway</i>	850	sf				
126	gravel base; 12" thick	31	cy	40.00	1,240		
127	asphalt top; 1.5" thick	8	tns	150.00	1,200		
128	asphalt binder; 1.5" thick	8	tns	130.00	1,040		
129	Fine grade	850	sf	0.10	85		
130	<i>Permeable track surface - BSS-100</i>	37,450	sf				
131	Complete track surface (not premium colors)	4,161	sy	42.00	174,762		
132	<i>Track Walkways</i>						
133	<i>Accessible walkway assumed 6' wide</i>	1,200	sf				
134	gravel base; 12" thick	44	cy	40.00	1,760		
135	Concrete walkway; 6" thick	1,200	sf	14.00	16,800		
136	Fine grade	1,200	sf	0.10	120		
137	<i>Walkway around outside lane line of track to match existing assum.</i>	6,240	sf				
138	gravel base; 8" thick	155	cy	40.00	6,200		
139	asphalt top; 1.5" thick	59	tns	175.00	10,325		
140	asphalt binder; 2.5" thick	97	tns	150.00	14,550		
141	Fine grade	6,240	sf	0.10	624		
142	<i>Track Furnishings</i>						
143	Long jump/Triple jump pits_no catchers and painted takeoff	2	ea	10,000.00	20,000		
144	Pole vault event incl. concrete pad for landing pad	1	ea	5,000.00	5,000		
145	Football goalposts					assumed not required	
146	Lacrosse goals / Soccer goals					by Owner	
147	Discus pad no enclosure	1	ea	5,000.00	5,000		
148	Shot put pad and toe board; landing area assumed field	1	ea	7,500.00	7,500		
149	20' Sports netting - assume 180' both ends	360	lf	160.00	57,600		
150	Signage allowance	1	ls	5,000.00	5,000		
151	<i>Storage Shed for Athletes</i>						
152	Storage shed; 20'x20'	400	sf	75.00	30,000		
153	Storage shed pad; 22'x22'	484	sf	30.00	14,520		
154	<i>Site Walls</i>						
155	<u>Fieldstone Retaining Wall - 4'</u>	385	lf				
156	Fieldstone retaining walls; 4ft exposed - 3' below grade	2,695	sf	65.00	175,175		
157	Formwork; foundation (3' wide 12" thick)	385	sf	18.00	6,930		
158	Re-bar - allowance; foundation	1,548	lbs	1.50	2,322		
159	Concrete material; 4,000 psi	43	cy	150.00	6,450		
160	Placing concrete	43	cy	150.00	6,450		
161	Excavation & backfill; below grade	228	cy	125.00	28,500		
162	Backfill-controlled placement; above grade (assume using onsite soi	171	cy	25.00	4,275		
163	4" perforated wall drain	385	lf	22.00	8,470		
164	<u>South East Perimeter Wall - CIP - 4'</u>	440	lf				
165	Formwork	2,080	sf	18.00	37,440		
166	Re-bar - allowance	9,929	lbs	1.50	14,894		
167	Concrete material; 4,000 psi	164	cy	150.00	24,600		
168	Placing concrete	164	cy	150.00	24,600		
169	Excavation & backfill; below grade	326	cy	125.00	40,750		
170	Backfill-controlled placement; above grade (assume using onsite soi	261	cy	25.00	6,525		
171	4" perforated wall drain	440	lf	22.00	9,680		
172	<u>South West Perimeter Wall - CIP - 2'</u>	575	lf				
173	Formwork	660	sf	18.00	11,880		
174	Re-bar - allowance	4,201	lbs	1.50	6,302		
175	Concrete material; 4,000 psi	53	cy	150.00	7,950		
176	Placing concrete	53	cy	150.00	7,950		
177	Excavation & backfill; below grade	256	cy	125.00	32,000		
178	Backfill-controlled placement; above grade (assume using onsite soi	170	cy	25.00	4,250		
179	4" perforated wall drain	575	lf	22.00	12,650		
180	<u>Track Retaining Wall</u>						
181	Retaining wall allowance for track	1	ls	75,000.00	75,000		
182	Rain garden	1,145	sf	20.00	22,900		
183	Roof runnel allowance	1	loc	10,000.00	10,000		

Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW SCHOOL SITEWORK							
184	Entrance sign; wall taken above	1	ea	15,000.00	15,000		
185	CIP concrete slab benches at amphitheater; frost footings	370	lf	350.00	129,500		
186	Backed benches	34	ea	2,200.00	74,800		
187	Chairs	14	ea	900.00	12,600		
188	Dining tables at teaching area	4	ea	2,500.00	10,000		
189	Exterior chalkboard set in boulders				assumed not required		
190	Flagpole - 32' ht.	1	ea	10,000.00	10,000		
191	Steel bollards	19	ea	900.00	17,100		
192	Stepping stones - 2'x3' bluestone steppers	37	ea	500.00	18,500		
193	Timber cut bench seats	22	ea	1,250.00	27,500		
194	Timber stump seats	12	ea	500.00	6,000		
195	SUBTOTAL					3,719,994	
196							
197	<u>Landscaping & Plantings:</u>						
198	Screen topsoil	5,000	cy	7.50	37,500		
199	Export tailings from screening process - assume clean rock	1,500	cy	8.50	12,750		
200	Amend/Place for new seeded area & at plantings	3,500	cy	20.00	70,000		
201	Lawn - loam and seed	173,500	sf	0.35	60,725		
202	Meadow seed on slope	19,925	sf	0.55	10,959		
203	Slope seeding mat	2,214	sy	5.00	11,070		
204	Perennial/Shrub planting areas	17,265	sf	10.00	172,650		
205	Boulders				assumed not required		
206	<i>Natural Grass Field</i>						
207	Imported native rootzone; 8" thick	2,364	cy	65.00	153,660		
208	Fine grade	95,250	sf	0.10	9,525		
209	Field area sod	95,250	sf	1.25	119,063		
210	Lawn - loam and seed - surrounding areas	1	ls	50,000.00	50,000		
211	<u>Landscaping & Plantings:</u>						
212	Deciduous Trees - 3-3.5" cal. per narrative	50	ea	1,800.00	90,000		
213	Ornamental Trees - min 10' ht per narrative	32	ea	1,200.00	38,400		
214	Ornamental Fruit Trees	8	ea	1,500.00	12,000		
215	Evergreen Trees - 8' ht. per narrative	6	ea	850.00	5,100		
216	<u>Irrigation:</u>						
217	Irrigation for planting	17,265	sf	2.00	34,530		
218	Irrigation for lawn areas	91,500	sf	1.25	114,375		
219	Irrigation for track	95,250	sf	0.75	71,438		
220	Irrigation pump allowance for track	1	ls	20,000.00	20,000		
221	Hose bibs	2	ea	2,500.00	5,000		
222	SUBTOTAL					1,098,745	
223							
224	G30 CIVIL MECHANICAL UTILITIES						
225	<u>Water supply</u>						
226	Fire Loop - assuming e/b only	2,015	lf	30.00	60,450		
227	Main service piping with fittings	2,015	lf	80.00	161,200		
228	Domestic Service - assuming 4" CLDI	40	lf	90.00	3,600		
229	Connect to existing - domestic	1	loc	15,000.00	15,000		
230	Hydrant	6	ea	3,500.00	21,000		
231	Connect to existing line (wet taps) - fire	3	loc	15,000.00	45,000		
232	FD connection	1	ea	2,000.00	2,000		
233	Valves	11	ea	1,200.00	13,200		
234	Thrust blocks - assume (not on plans)	16	ea	850.00	13,600		
235	Pressure testing & chlorinate	2,055	lf	4.00	8,220		
236	<u>Sanitary sewer</u>						
237	8" PVC (assumed)	1,355	lf	70.00	94,850		
238	SMH	6	loc	3,800.00	22,800		
239	SMH - doghouse	1	loc	4,500.00	4,500		
240	Grease trap (e/b only)	1	ls	5,000.00	5,000		
241	Connect to existing SMH	2	ea	2,500.00	5,000		
242	Pressure testing & video	1,355	lf	3.00	4,065		

Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
NEW SCHOOL SITEWORK							
243	<u>Storm Sewer</u>						
244	12" PVC	1,760	lf	70.00	123,200		
245	18" PVC	470	lf	80.00	37,600		
246	24" PVC	10	lf	90.00	900		
247	AD	3	ea	2,500.00	7,500		
248	CB	16	ea	3,500.00	56,000		
249	DMH	16	ea	4,000.00	64,000		
250	OCS	3	ea	6,500.00	19,500		
251	WQU	2	ea	10,000.00	20,000		
252	Connect to existing line	1	loc	5,000.00	5,000		
253	Connect to existing structure	1	loc	3,500.00	3,500		
254	Perimeter drain	60	lf	55.00	3,300		
255	Roof drain	165	lf	55.00	9,075		
256	Under drain	2,670	lf	40.00	106,800		
257	<i>SIS #1 (150 Chambers)</i>	6,020	sf				
258	MC-4500 chambers and installation	150	ea	1,000.00	150,000		
259	Excavate	1,620	cy	25.00	40,500		
260	Back-fill infiltration bed with 1-2" crushed stone	1,170	cy	50.00	58,500		
261	Soil disposal	450	cy			incl. in allowance	
262	Geotextile fabrics	15,075	sf	0.55	8,291		
263	<i>SIS #2 (150 Chambers)</i>	6,030	sf				
264	MC-4500 chambers and installation	150	ea	1,000.00	150,000		
265	Excavate	1,620	cy	25.00	40,500		
266	Back-fill infiltration bed with 1-2" crushed stone	1,170	cy	50.00	58,500		
267	Soil disposal	450	cy			incl. in allowance	
268	Geotextile fabrics	15,075	sf	0.55	8,291		
269	<i>SIS #3 (14 Chambers)</i>	610	sf				
270	SC-740 chambers and installation	14	ea	500.00	7,000		
271	Excavate	77	cy	25.00	1,925		
272	Back-fill infiltration bed with 1-2" crushed stone	53	cy	40.00	2,120		
273	Soil disposal	24	cy			incl. in allowance	
274	Geotextile fabrics	1,525	sf	0.55	839		
275	<u>Track Drainage</u>						
276	ACO 4000 sport drains; straights and d-areas (no turf shelf	1,312	lf	120.00	157,440		
277	Field area drainage allowance	1	ls	55,000.00	55,000		
278	<u>Gas Service</u>						
279	E&B trench for new gas main, pipe and install by utilities	380	lf	35.00	13,300		
280	SUBTOTAL						1,688,066
281							
282	G40 ELECTRICAL UTILITIES						
283	<u>Civil</u>						
284	Concrete:						
285	Primary DB	100	lf	14.00	1,400		
286	Secondary DB	240	lf	32.00	7,680		
287	Generator DB	240	lf	18.00	4,320		
288	Communication DB (allow)	400	lf	14.00	5,600		
289	Transformer pad	1	ea	2,500.00	2,500		
290	Excavation & backfill:						
291	Primary DB	100	lf	25.00	2,500		
292	Secondary DB	240	lf	30.00	7,200		
293	Generator DB	240	lf	25.00	6,000		
294	Communication DB (allow)	400	lf	25.00	10,000		
295	<u>Power</u>						
296	Manhole connection	1	ea	1,000.00		By Others	
297	Primary ductbank 2-5" PVC conduits, empty	100	lf	45.00	4,500		
298	Transformer by utility company					By Others	
299	Transformer pad					Civil	

Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
NEW SCHOOL SITEWORK								
300	Secondary ductbank 2500A service	240	lf	650.00	156,000			
301	Generator ductbank 250A & 100A service & control wiring	240	lf	195.00	46,800			
302	Provide power to shed allowance	1	ls	15,000.00	15,000			
303	<u>Communications</u>							
304	Manhole connection					By Others		
305	Telecom ductbank DD 3-4" PVC conduits, empty (allow)	400	lf	60.00	24,000			
306	<u>Site Lighting</u>							
307	Site Lighting including circuitry	1	ls	125,000.00	125,000			
308	Lighting/switches inside shed allowance	1	ls	5,000.00	5,000			
309	<u>EV Charging Station</u>							
310	Dual port EV charging station and circuitry	1	ls	15,000.00	15,000			
311	<u>Site Security</u>							
312	Site security	1	ls	25,000.00	25,000			
313	SUBTOTAL					463,500		
314								
315	TOTAL - SITE DEVELOPMENT							\$8,905,486

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DESIGNER'S COST ESTIMATE

Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITEWORK - TRACK BREAKOUT VALUES							
0							
1							
2	312000	EARTH MOVING					
3		Allowance for cut/fill	1	ls	75,000.00	75,000	
4		Site demo allowance; includes tree removals	1	ls	50,000.00	50,000	
5		Silt fence/erosion control allowance	2,000	lf	11.00	22,000	
6		SUBTOTAL					147,000
7							
8		SYNTHETIC TRACK					
9		<i>Asphalt Paving; track oval</i>	30,700	sf			
10		gravel base; 12" thick	1,137	cy	40.00	45,481	
11		asphalt top; 1.5" thick	288	tns	150.00	43,172	
12		asphalt binder; 1.5" thick	288	tns	130.00	37,416	
13		Fine grade	30,700	sf	0.10	3,070	
14		<i>Asphalt Paving; high jump area only to match existing</i>	4,000	sf			
15		gravel base; 12" thick	148	cy	40.00	5,926	
16		asphalt top; 1.5" thick	38	tns	150.00	5,625	
17		asphalt binder; 1.5" thick	38	tns	130.00	4,875	
18		Fine grade	4,000	sf	0.10	400	
19		<i>Asphalt Paving; Long jump/triple jump runways (2 total)</i>	1,050	sf			
20		gravel base; 12" thick	39	cy	40.00	1,556	
21		asphalt top; 1.5" thick	10	tns	150.00	1,477	
22		asphalt binder; 1.5" thick	10	tns	130.00	1,280	
23		Fine grade	1,050	sf	0.10	105	
24		<i>Asphalt Paving; Pole vault runway</i>	850	sf			
25		gravel base; 12" thick	31	cy	40.00	1,259	
26		asphalt top; 1.5" thick	8	tns	150.00	1,195	
27		asphalt binder; 1.5" thick	8	tns	130.00	1,036	
28		Fine grade	850	sf	0.10	85	
29		<i>Asphalt Paving; Javelin runway</i>	850	sf			
30		gravel base; 12" thick	31	cy	40.00	1,259	
31		asphalt top; 1.5" thick	8	tns	150.00	1,195	
32		asphalt binder; 1.5" thick	8	tns	130.00	1,036	
33		Fine grade	850	sf	0.10	85	
34		<i>Permeable track surface - BSS-100</i>	37,450	sf			
35		Complete track surface (not premium colors)	4,161	sy	42.00	174,767	
36		SUBTOTAL					332,299
37							
38		WALKWAYS					
39		<i>Accessible walkway assumed 6' wide</i>	1,200	sf			
40		gravel base; 12" thick	44	cy	40.00	1,778	
41		Concrete walkway; 6" thick	1,200	sf	14.00	16,800	
42		Fine grade	1,200	sf	0.10	120	
43		<i>Walkway around outside lane line of track to match existing assumed 4' wide</i>	6,240	sf			
44		gravel base; 8" thick	155	cy	40.00	6,194	
45		asphalt top; 1.5" thick	59	tns	175.00	10,238	
46		asphalt binder; 2.5" thick	97	tns	150.00	14,602	
47		Fine grade	6,240	sf	0.10	624	
48		SUBTOTAL					50,355
49							
50		RETAINING WALLS					
51		Provide retaining wall - allowance	1	ls	75,000.00	75,000	
52		SUBTOTAL					75,000
53							
54		NATURAL GRASS FIELD					
55		Imported native rootzone; 8" thick	2,364	cy	65.00	153,635	
56		Fine grade	95,250	sf	0.10	9,525	
57		Field area sod	95,250	sf	1.25	119,063	
58		Lawn - loam and seed - surrounding areas	1	ls	50,000.00	50,000	
59		Irrigation	95,250	sf	0.75	71,438	
60		Irrigation pump allowance	1	ls	20,000.00	20,000	
61		SUBTOTAL					423,660
62							
63		EVENTS					
64		Long jump/Triple jump pits_no catchers and painted takeoff boards	2	ea	10,000.00	20,000	
65		Pole vault event incl. concrete pad for landing pad	1	ea	5,000.00	5,000	
66		Football goalposts				assumed not required	
67		Lacrosse goals / Soccer goals				by Owner	
68		Discus pad no enclosure	1	ea	5,000.00	5,000	

Schematic Design Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
SITEWORK - TRACK BREAKOUT VALUES								
69	Shot put pad and toe board; landing area assumed field	1	ea	7,500.00	7,500			
70	20' Sports netting - assume 180' both ends	360	lf	160.00	57,600			
71	Signage allowance	1	ls	5,000.00	5,000			
72	SUBTOTAL					100,100		
73	<i>STORAGE SHED FOR ATHLETICS</i>							
74	Storage shed; 20'x20'	400	sf	75.00	30,000			
75	Storage shed pad; 22'x22'	484	sf	30.00	14,520			
76	Lighting/switches inside shed allowance	1	ls	5,000.00	5,000			
77	Provide power to shed allowance	1	ls	15,000.00	15,000			
78	SUBTOTAL					64,520		
79	<i>DRAINAGE</i>							
80	ACO 4000 sport drains; straights and d-areas (no turf shelf required)	1,312	lf	120.00	157,440			
81	Field area drainage allowance	1	ls	55,000.00	55,000			
82	SUBTOTAL					212,440		
83	TOTAL - TRACK AND FIELD DEVELOPMENT (does not include mark-ups)						\$1,405,374	

DESIGNER'S COST ESTIMATE

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17.2 Additional Budget Information

FF&E, TECHNOLOGY, KITCHEN EQUIPMENT, HAZMAT, AND ENVIRONMENTAL BUDGETS

Refer to Appendix 21/17 for the following budgets:

- FF&E
- Technology
- Kitchen Equipment
- HAZMAT
- Environmental