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Schematic Design Cost Estimate

Fort River Elementary School

Amherst, MA

Prepared for:

Anser Advisory

January 5, 2023



Fort River Elementary School

Amherst, MA

5-Jan-23

Schematic Design Cost Estimate

This Schematic Design cost estimate was produced from drawings, specifications and other documentation prepared by Dinisco Design Architects and Planners and their design team dated December 9, 2022. Design and engineering changes occurring subsequent to the issue of these documents have not been incorporated in this estimate.

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

Bidding conditions are expected to be public bidding under Chapter 149 of the Massachusetts General Laws to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufacturers. If a CMr procurement is selected costs will likely be higher.

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:

- Land acquisition, feasibility, and financing costs
- All professional fees and insurance
- Site or existing conditions surveys investigations costs, including to determine subsoil conditions
- All Furnishings, Fixtures and Equipment (except as noted in this estimate)
- Items identified in the design as Not In Contract (NIC)
- Items identified in the design as by others
- Owner supplied and/or installed items as indicated in the estimate
- Utility company back charges, including work required off-site
- Work to City streets and sidewalks, (except as noted in this estimate)
- Owner's Construction contingency
- Temporary Modular Classrooms



Fort River Elementary School
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5-Jan-23

Schematic Design Cost Estimate

MAIN CONSTRUCTION COST SUMMARY

	Start Date	Gross Floor Area	\$/sf	Estimated Construction Cost
NEW SCHOOL BUILDING	Jun-24	105,750	\$506.02	\$53,511,189
DEMOLISH EXISTING		81,753	\$8.00	\$654,024
REMOVE HAZARDOUS MATERIALS				\$1,120,000
SITework				\$12,515,136
<hr/>				
SUB-TOTAL		105,750	\$641.14	\$67,800,349
DESIGN AND PRICING CONTINGENCY	7.50%			\$5,085,026
ESCALATION	9.00%			\$6,102,031
<hr/>				
SUB-TOTAL		105,750	\$746.93	\$78,987,406
GENERAL CONDITIONS	24	Months	\$140,000	\$3,360,000
GENERAL REQUIREMENTS	2.00%			\$1,579,748
BONDS	0.90%			\$710,887
INSURANCE	1.25%			\$1,057,976
BUILDERS RISK				By Owner
PERMIT				waived
OVERHEAD + PROFIT	2.0%			\$1,713,920
<hr/>				
TOTAL OF CONSTRUCTION		105,750	\$826.57	\$87,409,937



CONSTRUCTION COST SUMMARY

BUILDING SYSTEM		SUB-TOTAL	TOTAL	\$/SF	%
A10 FOUNDATIONS					
A1010	Standard Foundations	\$2,519,916			
A1020	Special Foundations	\$768,000			
A1030	Lowest Floor Construction	\$816,169	\$4,104,085	\$38.81	7.7%
A20 BASEMENT CONSTRUCTION					
A2010	Basement Excavation	\$0			
A2020	Basement Walls	\$0	\$0	\$0.00	0.0%
B10 SUPERSTRUCTURE					
B1010	Upper Floor Construction	\$5,210,704			
B1020	Roof Construction	\$627,621	\$5,838,325	\$55.21	10.9%
B20 EXTERIOR CLOSURE					
B2010	Exterior Walls	\$4,341,190			
B2020	Windows	\$2,224,245			
B2030	Exterior Doors	\$156,250	\$6,721,685	\$63.56	12.6%
B30 ROOFING					
B3010	Roof Coverings	\$1,734,861			
B3020	Roof Openings	\$0	\$1,734,861	\$16.41	3.2%
C10 INTERIOR CONSTRUCTION					
C1010	Partitions	\$4,116,686			
C1020	Interior Doors	\$683,780			
C1030	Specialties/Millwork	\$1,079,815	\$5,880,281	\$55.61	11.0%
C20 STAIRCASES					
C2010	Stair Construction	\$288,000			
C2020	Stair Finishes	\$50,130	\$338,130	\$3.20	0.6%
C30 INTERIOR FINISHES					
C3010	Wall Finishes	\$1,179,225			
C3020	Floor Finishes	\$1,044,103			
C3030	Ceiling Finishes	\$1,461,225	\$3,684,553	\$34.84	6.9%
D10 CONVEYING SYSTEMS					
D1010	Elevator	\$242,650	\$242,650	\$2.29	0.5%
D20 PLUMBING					
D20	Plumbing	\$2,503,877	\$2,503,877	\$23.68	4.7%



CONSTRUCTION COST SUMMARY

<i>BUILDING SYSTEM</i>	<i>SUB-TOTAL</i>	<i>TOTAL</i>	<i>\$/SF</i>	<i>%</i>
D30 HVAC				
D30 HVAC	\$11,286,502	\$11,286,502	\$106.73	21.1%
D40 FIRE PROTECTION				
D40 Fire Protection	\$847,400	\$847,400	\$8.01	1.6%
D50 ELECTRICAL				
D5010 Complete System	\$8,085,387	\$8,085,387	\$76.46	15.1%
E10 EQUIPMENT				
E10 Equipment	\$896,410	\$896,410	\$8.48	1.7%
E20 FURNISHINGS				
E2010 Fixed Furnishings	\$1,347,043			
E2020 Movable Furnishings	NIC	\$1,347,043	\$12.74	2.5%
F10 SPECIAL CONSTRUCTION				
F10 Special Construction	\$0	\$0	\$0.00	0.0%
F20 HAZMAT REMOVALS				
F2010 Building Elements Demolition				
F2020 Hazardous Components Abatement	\$0	\$0	\$0.00	0.0%
TOTAL DIRECT COST (Trade Costs)		\$53,511,189	\$506.02	100.0%



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Schematic Design Cost Estimate

5-Jan-23

CONSTRUCTION COST SUMMARY IN CSI FORMAT						
	<i>NEW SCHOOL</i>		<i>SITE WORK</i>		<i>TOTAL PROJECT</i>	
					<i>Subtotal</i>	<i>Total</i>
DIV. 1 GENERAL REQUIREMENTS	\$0	\$0	\$0	\$0		\$0
					\$0	
DIV. 2 EXISTING CONDITIONS		\$1,774,024		\$0		\$1,774,024
022820 Abatement	\$1,120,000		\$0		\$1,120,000	
024000 Building Demolition	\$654,024		\$0		\$654,024	
024116 Demolition/ Phasing	\$0		\$0		\$0	
DIV. 3 CONCRETE		\$2,213,537		\$0		\$2,213,537
033000 Cast-in-Place Concrete	\$2,213,537		\$0		\$2,213,537	
DIV. 4 MASONRY		\$1,910,079		\$0		\$1,910,079
040001 Unit Masonry - FSB	\$1,910,079		\$0		\$1,910,079	
DIV. 5 METALS		\$5,828,251		\$0		\$5,828,251
051200 Structural Steel Framing	\$5,233,241		\$0		\$5,233,241	
055000 Metal Fabrications - FSB	\$595,010		\$0		\$595,010	
DIV. 6 WOODS & PLASTICS		\$947,648		\$0		\$947,648
061000 Rough Carpentry	\$304,233		\$0		\$304,233	
064100 Architectural Woodwork	\$635,915		\$0		\$635,915	
066400 Plastic Paneling	\$7,500		\$0		\$7,500	
DIV. 7 THERMAL & MOISTURE PROTECTION		\$3,850,760		\$0		\$3,850,760
070001 Waterproofing, Dampproofing and Caulking - FSB	\$693,730		\$0		\$693,730	
070002 Roofing and Flashing - FSB	\$1,692,290		\$0		\$1,692,290	
072100 Thermal Insulation	\$404,488		\$0		\$404,488	
074213 Metal Wall Panels	\$917,140		\$0		\$917,140	
075500 Precast Concrete Roof Paver	\$10,237		\$0		\$10,237	
075800 Green Roof	\$0		\$0		\$0	
077200 Roof Accessories	\$0		\$0		\$0	
078100 Fireproofing	\$82,875		\$0		\$82,875	
079500 Expansion Control	\$50,000		\$0		\$50,000	
DIV. 8 DOORS & WINDOWS		\$3,533,385		\$0		\$3,533,385
080001 Aluminum Windows - FSB	\$854,750		\$0		\$854,750	
080002 Glass and Glazing - FSB	\$249,930		\$0		\$249,930	
081113 Doors and Frames	\$200,860		\$0		\$200,860	
082700 Horizontal Fire Shutters	\$0		\$0		\$0	



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				<i>Subtotal</i>	<i>Total</i>
083100	Access Doors and Frames	\$30,000	\$0	\$30,000	
083300	Overhead Coiling Doors	\$0	\$0	\$0	
083513	Security Grates	\$21,120	\$0	\$21,120	
084410	Aluminum Storefront	\$903,265	\$0	\$903,265	
084413	Aluminum Curtainwall	\$1,106,360	\$0	\$1,106,360	
084423	Fiberglass Sandwich Panel	\$0	\$0	\$0	
085610	Pass Windows	\$6,000	\$0	\$6,000	
086300	Skylights	\$0	\$0	\$0	
087100	Door Hardware	\$151,300	\$0	\$151,300	
089100	Louvers	\$9,800	\$0	\$9,800	
DIV. 9 FINISHES		\$6,998,962		\$0	\$6,998,962
090002	Tiling - FSB	\$756,031	\$0	\$756,031	
090003	Acoustical Ceilings - FSB	\$1,214,876	\$0	\$1,214,876	
090005	Resilient Flooring - FSB	\$736,521	\$0	\$736,521	
090007	Painting - FSB	\$257,892	\$0	\$257,892	
092900	Gypsum Board Assemblies	\$3,733,861	\$0	\$3,733,861	
096560	Wood Athletic Flooring	\$146,806	\$0	\$146,806	
096810	Resinous Flooring	\$0	\$0	\$0	
096820	Carpet	\$19,430	\$0	\$19,430	
097200	Wall Coverings	\$0	\$0	\$0	
098413	Acoustic Wall Panels	\$133,545	\$0	\$133,545	
DIV 10 SPECIALTIES		\$444,660		\$0	\$444,660
101100	Visual Display Surfaces	\$148,212	\$0	\$148,212	
101200	Display Cases	\$0	\$0	\$0	
101500	Operable Partitions	\$52,030	\$0	\$52,030	
101400	Signage	\$108,718	\$0	\$108,718	
102100	Toilet Compartments and Cubicles	\$30,200	\$0	\$30,200	
102600	Cubicle Curtains	\$2,400	\$0	\$2,400	
102800	Toilet Accessories	\$66,900	\$0	\$66,900	
104400	Fire Protection Specialties	\$25,000	\$0	\$25,000	
105000	Lockers	\$1,200	\$0	\$1,200	
107113	Fixed Sun Screens	\$0	\$0	\$0	
108800	Corner Guards	\$10,000	\$0	\$10,000	
DIV. 11 EQUIPMENT		\$896,410		\$0	\$896,410
111300	Loading Dock Equipment	\$0	\$0	\$0	
113100	Residential Appliances	\$5,000	\$0	\$5,000	



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		<i>NEW SCHOOL</i>	<i>SITE WORK</i>	<i>TOTAL PROJECT</i>	
				<i>Subtotal</i>	<i>Total</i>
114000	Food Service Equipment	\$685,230	\$0	\$685,230	
116000	Science Room Equipment	\$0	\$0	\$0	
116200	Theatrical Equipment	\$30,000	\$0	\$30,000	
116600	Gymnasium Equipment	\$141,180	\$0	\$141,180	
115213	Projection Screens	\$30,000	\$0	\$30,000	
116700	Outdoor Athletic Equipment	\$0	\$0	\$0	
11750	Playground Equipment	\$0	\$0	\$0	
119000	Miscellaneous Equipment	\$5,000	\$0	\$5,000	
DIV. 12 FURNISHINGS			\$1,372,843	\$0	\$1,372,843
122100	Window Shades	\$98,608	\$0	\$98,608	
123000	Casework	\$1,248,435	\$0	\$1,248,435	
124810	Entrance Mats and Frames	\$25,800	\$0	\$25,800	
126111	Fixed Audience Seating	\$0	\$0	\$0	
126600	Telescoping Stands	\$0	\$0	\$0	
DIV. 13 SPECIAL CONSTRUCTION			\$0		\$0
132000	Special Purpose Rooms	\$0	\$0	\$0	
DIV. 14 CONVEYING SYSTEMS- FSB			\$240,000	\$0	\$240,000
142400	Passenger Elevators	\$240,000	\$0	\$240,000	
DIV. 21 FIRE SUPPRESSION- FSB			\$847,400	\$0	\$847,400
210000	Fire Protection	\$847,400	\$0	\$847,400	
DIV. 22 PLUMBING- FSB			\$2,503,877	\$0	\$2,503,877
220000	Plumbing	\$2,503,877	\$0	\$2,503,877	
DIV. 23 HVAC- FSB			\$11,286,502	\$0	\$11,286,502
230000	HVAC	\$11,286,502	\$0	\$11,286,502	
DIV. 26 ELECTRICAL - FSB			\$8,085,387	\$1,617,943	\$9,703,330
260000	Electrical	\$7,263,590	\$1,617,943	\$8,881,533	
270000	Communications	\$821,797	\$0	\$821,797	
280000	Electronic Safety and Security	\$0	\$0	\$0	
DIV. 31 EARTHWORK			\$2,404,968	\$3,161,843	\$5,566,811



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			<i>NEW SCHOOL</i>	<i>SITE WORK</i>	<i>TOTAL PROJECT</i>	
					<i>Subtotal</i>	<i>Total</i>
311000	Site Preparation		\$0	\$1,149,483	\$1,149,483	
311100	Erosion and Sedimentation Control		\$0	\$109,960	\$109,960	
312000	Earthwork		\$2,404,968	\$1,902,400	\$4,307,368	
DIV. 32 EXTERIOR IMPROVEMENTS			\$0	\$6,720,173		\$6,720,173
320000	Paving		\$0	\$3,584,116	\$3,584,116	
323000	Site Improvements		\$0	\$981,027	\$981,027	
324000	Fences and Gates		\$0	\$43,680	\$43,680	
328400	Irrigation		\$0	\$0	\$0	
329900	Landscaping		\$0	\$2,111,350	\$2,111,350	
DIV. 33 UTILITIES			\$0	\$1,015,177		\$1,015,177
331000	Water Utilities		\$0	\$202,247	\$202,247	
333000	Sanitary Sewerage Utilities		\$0	\$205,570	\$205,570	
334000	Storm Drainage Utilities		\$0	\$607,360	\$607,360	
SUBTOTAL DIRECT (TRADE) COST			\$55,138,693	\$12,515,136		\$67,653,829



Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST
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GROSS FLOOR AREA CALCULATION- PER MSBA

First Floor	48,000
Second Floor	31,000
Third Floor	26,750

TOTAL GROSS FLOOR AREA (GFA)					105,750	sf
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A1010 STANDARD FOUNDATIONS

033000 CONCRETE

Strip Footings	106	CY
Foundation Walls	219	CY
Spread Footings	606	CY
Grade Beams	88	CY
Piers	69	CY
Total Foundation Concrete	1,088	CY

Strip Footings: F2.0C

Formwork	2,592	sf	15.00	38,880
Re-bar	5,948	lbs.	2.00	11,896
Concrete material	106	cy	155.00	16,430
Placing concrete	106	cy	120.00	12,720

Perimeter foundation walls: 16" Thick

Formwork	7,776	sf	21.00	163,296
Re-bar	11,428	lbs.	2.00	22,856
Concrete material	211	cy	155.00	32,705
Placing concrete	211	cy	120.00	25,320
Form shelf	1,296	lf	8.00	10,368

Spread Footings: F5.0

Formwork	1,500	sf	18.00	27,000
Re-bar	5,783	lbs.	2.00	11,566
Concrete material	76	cy	155.00	11,780
Placing concrete	76	cy	120.00	9,120
Set anchor bolts grout plates	50	ea	250.00	12,500

Spread Footings: F6.0

Formwork	681	sf	18.00	12,258
Re-bar	2,359	lbs.	2.00	4,718
Concrete material	42	cy	120.00	5,040
Placing concrete	42	cy	8.00	336
Set anchor bolts grout plates	17	ea	250.00	4,250

Spread Footings: F7.0

Formwork	3,500	sf	18.00	63,000
Re-bar	16,192	lbs.	2.00	32,384
Concrete material	250	cy	120.00	30,000
Placing concrete	250	cy	8.00	2,000
Set anchor bolts grout plates	50	ea	250.00	12,500

Spread Footings: F8.0

Formwork	640	sf	18.00	11,520
Re-bar	3,807	lbs.	2.00	7,614
Concrete material	52	cy	120.00	6,240
Placing concrete	52	cy	8.00	416
Set anchor bolts grout plates	8	ea	250.00	2,000

Spread Footings: F9.0

Formwork	450	sf	18.00	8,100
Re-bar	6,732	lbs.	2.00	13,464
Concrete material	41	cy	120.00	4,920
Placing concrete	41	cy	250.00	10,250

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GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST
60	Set anchor bolts grout plates	5	ea	250.00	1,250		
61	<u>Spread Footings: F10.0</u>	2	ea				
62	Formwork	200	sf	18.00	3,600		
63	Re-bar	4,165	lbs.	2.00	8,330		
64	Concrete material	20	cy	8.00	160		
65	Placing concrete	20	cy	250.00	5,000		
66	Set anchor bolts grout plates	2	ea	250.00	500		
67	<u>Spread Footings: F11.0</u>	3	ea				
68	Formwork	330	sf	18.00	5,940		
69	Re-bar	9,257	lbs.	2.00	18,514		
70	Concrete material	37	cy	120.00	4,440		
71	Placing concrete	37	cy	250.00	9,250		
72	Set anchor bolts grout plates	3	ea	250.00	750		
73	<u>Spread Footings: F12.0</u>	6	ea				
74	Formwork	720	sf	18.00	12,960		
75	Re-bar	17,721	lbs.	2.00	35,442		
76	Concrete material	88	cy	8.00	704		
77	Placing concrete	88	cy	250.00	22,000		
78	Set anchor bolts grout plates	6	ea	250.00	1,500		
79							
80	Grade beams; allowance 2ft x 2ft at braced frames	592	lf	150.00	88,800		
81							
82	<u>Piers</u>	141	ea				
83	Formwork	1,692	sf	24.00	40,608		
84	Re-bar	19,035	lbs	2.00	38,070		
85	Concrete material	69	cy	155.00	10,695		
86	Placing concrete	69	cy	160.00	11,040		
87	<u>Elevator Pit</u>	1	ea				
88	<u>12" Wall</u>						
89	Formwork	200	sf	22.00	4,400		
90	Re-bar	500	lbs.	2.00	1,000		
91	Concrete material	8	cy	155.00	1,240		
92	Placing concrete	8	cy	160.00	1,280		
93	36" Mat slab w/ sump pit	120	sf	50.00	6,000		
94	Premium for elevator pit sump	1	ea	500.00	500		
95	Premium for platform foundations	1	ls	30,000.00	30,000		
96	Housekeeping pads	1	ls	10,000.00	10,000		
97							
98	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
99	Damproofing @ foundation wall	4,536	sf	3.00	assume NR		
100	Waterproofing at elevator pit	320	sf	14.00	4,480		
101							
102	072100 THERMAL INSULATION						
103	Rigid insulation to face of foundation wall	4,536	sf	3.00	13,608		
104							
105	312000 EARTHWORK						
106	<u>Strip footings</u>						
107	Excavation	1,440	cy	14.00	20,160		
108	Reuse excess material on site	106	cy	15.00	1,590		
109	Backfill with select fill	1,334	cy	25.00	33,350		
110	<u>Grade Beams</u>						
111	Excavation	351	cy	14.00	4,914		
112	Reuse excess material on site	88	cy	15.00	1,320		
113	Backfill with select fill	263	cy	25.00	6,575		
114	<u>Spread footings</u>						
115	Excavation	1,818	cy	14.00	25,452		
116	Reuse excess material on site	606	cy	15.00	9,090		
117	Backfill with select fill	1,212	cy	25.00	30,300		

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CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
118	<u>Elevator pit</u>							
119	Excavation	58	cy	25.00	1,450			
120	Reuse excess material on site	58	cy	15.00	870			
121	Backfill with select fill	36	cy	25.00	900			
122	<u>Miscellaneous</u>							
123	Foundation drain	1,296	lf	30.00	38,880			
124	Dewatering for foundation work	1	ls	30,000.00	30,000			
125	Building Earthwork							
126	Cut - over excavated 1.21' of fill beneath building - 10' offset (6' over ex. on 20% of footprint = 2,200cy)	2,826	cy	12.00	NR			
127	312000 SOIL DISPOSAL - conversion factor 1.7 to tons							
128	Load excess soils for disposal	2,826	cy	3.25	NR			
129	Less than RCS-1 - clean non-regulated	4,804	tn	22.00	NR			
130	312000 SOIL PRELOADING swell factor 1.25							
131	Sub grade establishment	63,600	sf	0.25	15,900			
132	Import gravel to design subgrade	12,589	cy	38.00	478,382			
133	Import gravel- raise to 4' above FFE	13,250	cy	38.00	503,500			
134	Stockpile on footprint for reuse as site gravel	13,250	cy	2.50	33,125			
135	Street sweeping & dust control allowance	1	ls	40,000.00	40,000			
136	312000 Building footprint prep - post preloading							
137	Cut - preload gravel to 177.5' proposed subgrade bottom of SOG - load into rock truck and move around site	13,250	cy	15.00	198,750			
138	Sub grade establishment - shape to 177.5'	63,600	sf	0.25	15,900			
139	SUBTOTAL					2,519,916		
140								
141	A1020 SPECIAL FOUNDATIONS							
142	Building footprint pre-loading + 10FT at perimeter; 4ft deep soil for three months	60,960	sf	6.00	Included Above			
143	Rammed Aggregate Piers	48,000	sf	16.00	768,000			
144	SUBTOTAL					768,000		
145								
146	A1030 LOWEST FLOOR CONSTRUCTION							
147								
148	033000 CONCRETE	48,000	sf total slab on grade					
149	<u>Slab on grade, 6" thick</u>							
150	Rebar; #5 Each Way at 12" OC	109,824	lbs	2.00	219,648			
151	Concrete, 6" thick	933	cy	155.00	144,615			
152	Placing concrete	933	cy	90.00	83,970			
153	Water vapor reducer admixture	933	cy		NIC			
154	Finishing and curing concrete	48,000	sf	3.25	156,000			
155	Control joints - saw cut	48,000	sf	0.10	4,800			
156								
157	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
158	Vapor barrier	48,000	sf	1.10	52,800			
159								
160	072100 THERMAL INSULATION							
161	2" Rigid insulation at slab on grade perimeters; 2ft Wide	2,592	sf	3.00	7,776			
162								
163	312000 EARTHWORK							
164	Gravel base beneath slab, 6" total	889	cy	40.00	35,560			
165	Radon mitigation				assume gravel + VB per Spec			
166	Underslab drainage; PVC piping 40ft OC	1,800	lf	35.00	63,000			
167	E + B for underground plumbing	48,000	sf	1.00	48,000			
168	SUBTOTAL					816,169		
169								
170	TOTAL - FOUNDATIONS						\$4,104,085	
171								
172	A20 BASEMENT CONSTRUCTION							
173								
174	A2010 BASEMENT EXCAVATION							
175	No Work in this section							

Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
176	SUBTOTAL					-		
177	A2020 BASEMENT WALLS							
179	No Work in this section							
180	SUBTOTAL					-		
182	TOTAL - BASEMENT CONSTRUCTION							
185	B10 SUPERSTRUCTURE							
187	B1010 FLOOR CONSTRUCTION							
188		825	tns		Excluding roof screen and canopies			
189		15.6	lbs/sf					
190	033000 CONCRETE							
191	WWF reinforcement	68,324	sf	1.80	122,983			
192	Rebar to decks	20,497	lbs	2.00	40,994			
193	Normal weight concrete topping to metal deck F5.5, total thickness 6 1/4"	1,150	cy	160.00	184,000			
194	Normal weight concrete topping to metal deck F6.5, total thickness 7 1/4"	59	cy	160.00	9,440			
195	Place and finish concrete	59,412	sf	3.00	178,236			
196	051200 STRUCTURAL STEEL FRAMING							
197	Structural steel floor + roof framing; including all angles, relieving angels, connections etc.	825	tns	5,100.00	4,207,500			
198	Miscellaneous steel angles, plates, supports				Included in Tonnage Above			
199	Shear studs	11,373	ea	3.50	39,806			
200	Moment connections	50	ea	800.00	40,000			
201	<u>Metal decking</u>							
202	Metal floor deck; F6.5; 3" thick	2,545	sf	6.50	16,543			
203	Metal floor deck; F5.5; 2" thick	56,867	sf	6.00	341,202			
205	078100 FIREPROOFING/FIRESTOPPING							
206	Fire proofing to columns and beams; 2 hr	56,867	sf	2.75	Not Required			
207	Intumescent + Misc. fireproofing - allowance	1	ls	30,000.00	30,000			
208	SUBTOTAL					5,210,704		
210	B1020 ROOF CONSTRUCTION							
211	033000 CONCRETE - NO ROOF CONCRETE ASSUMED							
212	WWF reinforcement	3,292	sf	1.80	5,926			
213	Rebar to decks	7,158	lbs	2.00	14,316			
214	Normal weight concrete topping to metal deck at rooftop MEP equipment, total thickness 5 1/4"	53	cy	200.00	10,600			
215	Place and finish concrete	2,863	sf	3.00	8,589			
216	051200 STRUCTURAL STEEL FRAMING							
217	Structural steel roof framing				Included in Floor Framing			
218	Entry canopy roof framing				None Assumed			
219	Roof screen	14	tns	6,800.00	Included in Floor Framing			
220	Miscellaneous steel angles, plates, supports				Included in Tonnage Above			
221	<u>Metal decking</u>							
222	1-1/2" deep metal deck; R1.5	40,266	sf	5.00	201,330			
223	3" deep metal deck	50,363	sf	6.50	327,360			
224	3" acoustic deck at gym; R3.0; premium	8,500	sf	7.00	59,500			
225	Metal decking at canopies				None Assumed			
226	078100 FIREPROOFING/FIRESTOPPING							
227	Fire proofing to deck, columns and beams; 2 hr	39,000	sf	3.00	Not Required			
228	SUBTOTAL					627,621		
229	TOTAL - SUPERSTRUCTURE							\$5,838,325

Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST
	B20 EXTERIOR CLOSURE						
	B2010 EXTERIOR WALLS	38,737	sf				
040001	MASONRY						
	Utility brick	16,161	sf	39.00	630,279		
	Recessed architectural glazed brick	190	sf	65.00	12,350		
	Arriscraft veneer 8"x24"	13,965	sf	55.00	768,075		
	Precast concrete base	525	lf	120.00	63,000		
	8" CMU backup	1,910	sf	28.00	53,480		
	Staging/Lifts to exterior wall						included in rates
	Miscellaneous flashings/ accessories to closure	30,316	sf	1.00	30,316		
055000	MISCELLANEOUS METALS						
	Dumpster enclosure	18	lf	95.00	W/ Site		
	Dumpster enclosure gate (double)	1	pr	2,000.00	W/ Site		
	Miscellaneous metals to exterior; lintels, angles etc. (relieving angles w/ steel tons)	38,737	sf	1.00	38,737		
070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
	Air barrier at closure	38,737	sf	9.50	368,002		
	Air barrier at soffits	2,425	sf	9.50	23,038		
072119	THERMAL INSULATION						
	2" Foam insulation in backup stud	36,827	sf	2.75	101,274		
	6" Batt insulation	36,827	sf	2.50	92,068		
	3" Rigid insulation @ metal stud	36,827	sf	4.00	147,308		
	3" Rigid insulation @ CMU backup	1,910	sf	4.00	7,640		
	Insulation at soffits & overhangs	2,425	sf	4.00	9,700		
	Insulation at window openings	5,682	lf	3.00	17,046		
074213	METAL WALL PANELS						
	Phenolic wall panel, concealed fastener	593	sf	85.00	50,405		
	Composite wall panel, Alucobond or similar	3,085	sf	90.00	277,650		
	Porcelain rain screen	4,743	sf	100.00	474,300		
	Pre-finished aluminum column covers	3	loc	2,500.00	7,500		
	Centria panel at pitched roof soffit	1,605	sf	65.00	104,325		
	Centria panel at underside of roof soffit	820	sf	65.00	53,300		
	Aluminum panel (Centria at high roof fascia	833	sf	65.00	54,145		
	Roof screen, Centria Econolap aluminum screen panel on Z girt (non acoustic)	2,087	sf	55.00	114,785		
079500	EXPANSION CONTROL						
	Exterior and roof expansion joints	1	ls	20,000.00	20,000		
092900	GYPSON BOARD ASSEMBLIES						
	Framing and sheathing at soffits & overhangs	2,425	sf	12.00	29,100		
	Gypsum Sheathing	36,827	sf	3.00	110,481		
	8" CFMF backup	36,827	sf	14.00	515,578		
	Drywall lining to interior face of stud backup	36,827	sf	4.00	147,308		
101400	SIGNAGE						
	Signage	1	ls	20,000.00	20,000		
	SUBTOTAL					4,341,190	
	B2020 WINDOWS	12,326	sf				
061000	ROUGH CARPENTRY						
	Wood blocking at openings	5,682	lf	12.00	68,184		
079200	JOINT SEALANTS						

Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
295	Air barrier/flashing at windows	5,682	lf	8.00	45,456			
296	Backer rod & double sealant	5,682	lf	10.00	56,820			
297								
298	080001 METAL WINDOWS		Double Glazed					
299	Aluminum Windows	6,575	sf	130.00	854,750			
300	Aluminum Storefront	407	sf	125.00	50,875			
301	Aluminum Curtainwall	5,344	sf	165.00	881,760			
302	Premium for operable unit w/ screen	149	loc	400.00	59,600			
303	Allowance premium for security glazing @ lower glazing at entry vestibules	800	sf	40.00	32,000			
304	Horizontal sun control four blade system	330	lf	500.00	165,000			
305								
306	089100 LOUVERS							
307	Louvers	56	sf	175.00	9,800			
308	SUBTOTAL					2,224,245		
309								
310	B2030 EXTERIOR DOORS							
311								
312	061000 ROUGH CARPENTRY							
313	Wood blocking at openings	55	lf	10.00	550			
314								
315	079200 JOINT SEALANTS							
316	Backer rod & double sealant	55	lf	10.00	550			
317								
318	081113 DOORS, FRAMES & HARDWARE							
319	HM door and frame, single leaf	2	ea	800.00	1,600			
320	HM door and frame, double leaf	1	pr	1,300.00	1,300			
321	Install door and hardware	2	ea	300.00	600			
322	Install door frame	1	ea	150.00	150			
323								
324	084110 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS							
325	Glazed aluminum entrance doors and hardware; single	7	ea	7,500.00	52,500			
326	Glazed aluminum entrance doors and hardware; double	6	pr	13,500.00	81,000			
327								
328	083300 OVERHEAD DOOR							
329	Overhead door					NIC		
330								
331	087100 DOOR HARDWARE							
332	Door hardware	4	ea	1,800.00	7,200			
333	ADA door openers	1	ls	10,000.00	10,000			
334								
335	090007 PAINTING							
336	Finish doors and frames	4	ea	200.00	800			
337	SUBTOTAL					156,250		
338								
339	TOTAL - EXTERIOR CLOSURE						\$6,721,685	
340								
341								
342	B30 ROOFING							
343								
344	B3010 ROOF COVERINGS							
345								
346	055000 MISCELLANEOUS METALS							
347	OSHA Compliant safety roof rail					NIC		
348	Ships ladders allowance (3 loc)	1	ls	30,000.00	30,000			
349								
350	061000 ROUGH CARPENTRY							
351	Rough carpentry and blocking @ roof edge	51,183	sf	1.25	63,979			
352								
353	070002 ROOFING AND FLASHING							
354	Sarnafil PVC roofing with coverboard, vapor barrier and 8" min. tapered insulation, 2 lyr gypsum sheathing	50,363	sf	30.00	1,510,890			
355	Membrane roofing at entry canopies	820	sf	23.00	18,860			
356	PVC coated metal roof edge, typical	1,729	lf	30.00	51,870			
357	Flash roof to wall	811	lf	25.00	20,275			



Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
358	Flash roof drains	37	loc	150.00	5,550			
359	Overflow and scupper allowance	10	loc	800.00	8,000			
360	Snow guard	76	lf	200.00	15,200			
361	Walk pads	51,183	sf	0.20	10,237			
362	Miscellaneous roof flashings and sealants	51,183	sf	1.20	Included			
363	SUBTOTAL					1,734,861		
364								
365	B3020 ROOF OPENINGS							
366								
367	086300 ROOF SKYLIGHTS + HATCHES							
368	No work assumed							
369	SUBTOTAL					-		
370								
371	TOTAL - ROOFING							\$1,734,861
372								
373								
374	C10 INTERIOR CONSTRUCTION							
375								
376	C1010 PARTITIONS							
377								
378	040001 MASONRY							
379	Type #07A- 8" CMU @ elevator shaft, 1hr	2,264	sf	36.00	81,504			
380	Type #07 - 8" CMU	3,770	sf	30.00	113,100			
381	4" CMU	1,455	sf	25.00	36,375			
382	4" CMU- GF at gym	3,200	sf	38.00	121,600			
383	Premium for glazed CMU in kitchen	1,800	sf	12.00	21,600			
384								
385	055000 MISCELLANEOUS METALS							
386	Seismic clips to CMU	191	ea	150.00	28,650			
387	Miscellaneous metals to CMU	10,689	sf	2.50	26,723			
388								
389	061000 ROUGH CARPENTRY							
390	Backer panels in electrical closets	1	ls	5,000.00	5,000			
391	Wood blocking at interiors	105,750	gsf	0.50	52,875			
392	Plywood backer to CT walls	16,400	sf	4.50	73,800			
393	Rough blocking at partitions	7,969	lf	5.00	39,845			
394								
395	078100 FIRESTOPPING							
396	Firestopping throughout	105,750	gsf	0.50	52,875			
397								
398	078800 EXPANSION JOINTS							
399	Expansion joints	1	ls	30,000.00	30,000			
400								
401	070001 WATERPROOFING, DAMPPROOFING AND CAULKING							
402	Miscellaneous sealants throughout building	105,750	gsf	1.25	132,188			
403								
404	080001 INTERIOR GLAZING							
405	Sliding transaction window w/ school guard glass at reception	2	ea	3,000.00	6,000			
406	Interior butt glazing, acoustic	96	sf	130.00	12,480			
407	Interior storefront	1,744	sf	110.00	191,840			
408	Interior fire rated storefront	1,013	sf	350.00	354,550			
409	1/4" tempered transom windows w/ hardwood trim	1,398	sf	100.00	139,800			
410	Premium for school guard glazing					NIC		
411								
412	092900 GYPSUM BOARD ASSEMBLIES	117,439	total area					
413	Type #01- 3-5/8" ms w/ 5/8" gwb es; batt insulation	5,527	sf	17.50	96,723			
414	Type #02- 6" metal stud, insulation, 5/8" gwb e.s.	27,592	sf	19.50	538,044			
415	Type #02A- 6" metal stud, insulation, 5/8" gwb o.s.	1,985	sf	14.75	29,279			
416	Type #03- 8" metal stud, insulation, 5/8" gwb b.s.	426	sf	21.50	9,159			
417	Type #03A- 8" metal stud, insulation, 2# gwb b.s., 2 hr	10,128	sf	28.50	288,648			
418	Type 4D - 2# 3 5/8" metal studs, insulation in each, 1#5/8" gwb b.s. of each	49,907	sf	25.50	1,272,629			
419	Type #11- 4" ms and 1 layer 5/8" gwb	18,169	sf	10.75	195,317			
420	Type #11A- 4" ms and 1 layer 5/8" gwb, 1 lyr Ply	2,073	sf	14.75	30,577			
421	6" MS Shaft wall	1,632	sf	18.75	30,600			

Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST
422	Allowance for level 5 finish, abuse resistant & moisture resistant gwb premiums at select locations	105,750	gsf	0.50	52,875		
423	Premium for bullet resistant fiberglass panel in entry vestibules					NIC	
424							
425	101500 OPERABLE PARTITIONS						
426	Operable sound partition at stage	473	sf	110.00	52,030		
427	SUBTOTAL						4,116,686
428							
429	C1020 INTERIOR DOORS						
430							
431	061000 ROUGH CARPENTRY						
432	Wood blocking at interior openings @ doors/frames	2,599	lf	6.00	15,594		
433							
434	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
435	Backer rod & double sealant @ door opes	2,599	lf	4.00	10,396		
436							
437	080002 GLASS AND GLAZING						
438	Glazing in door lites - allow	417	sf	50.00	20,850		
439	Glazing in sidelights	896	sf	50.00	44,800		
440							
441	081110 DOOR FRAMES						
442	Single frame	67	ea	300.00	20,100		
443	Single w/ 24" sidelight	64	ea	640.00	40,960		
444	Double leaf frame	9	ea	350.00	3,150		
445	Install door frame	140	ea	150.00	21,000		
446							
447	081416 INTERIOR DOORS						
448	Single leaf door at sidelights	64	ea	650.00	41,600		
449	Single leaf door, typical	67	ea	500.00	33,500		
450	Double leaf door, typical	8	pr	1,000.00	8,000		
451	Premium for acoustically sealed door assemblies at Music	4	ea	1,000.00	4,000		
452	Double sliding door	1	ea	1,200.00	1,200		
453	Install door and hardware	149	ea	300.00	44,700		
454							
455	083100 ACCESS DOORS						
456	Access doors - allow	1	ls	30,000.00	30,000		
457							
458	083323 OVERHEAD DOOR						
459	No work assumed						
460							
461	083513 SIDE FOLDING GRILLES						
462	Main office- motorized security grate from counter to ceiling	1	ea	11,220.00	11,220		
463	Cafeteria- sliding/stacking door	1	ea	9,900.00	9,900		
464							
465	087100 DOOR HARDWARE						
466	Hardware - material only	149	leaf	900.00	134,100		
467							
468	084110 ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS						
469	Glazed aluminum entrance door and hardware, single	2	ea	6,250.00	12,500		
470	Solid doors + HM frames at stairs	10	pr	5,000.00	50,000		
471	Glazed aluminum entrance door and hardware, double	8	pr	12,500.00	100,000		
472	Premium for fire rated leaf	10	ea	1,000.00	10,000		
473							
474	090007 PAINTING						
475	Finish doors and frames, SL	131	ea	110.00	14,410		
476	Finish doors and frames, DL	9	ea	200.00	1,800		
477	SUBTOTAL						683,780
478							
479	C1030 SPECIALTIES / MILLWORK						
480							
481	055000 MISCELLANEOUS METALS						
482	Handrails at ramp	70	lf	175.00	12,250		
483	Painted galv. Steel guardrails at steps	33	lf	375.00	12,375		
484	OT/PT- swing anchor	6	ea	1,500.00	9,000		
485	Miscellaneous metals throughout building	105,750	gsf	1.50	158,625		
486							
487	061000 ROUGH CARPENTRY						w/ interior construction

Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST
488 489	<i>062000 FINISH CARPENTRY</i>						
490	Reception desk	35	lf	800.00	28,000		
491	Media center circulation desk	23	lf	700.00	16,100		
492	Recessed display case, 4' wide x 5' high; wood shelving, sliding locking glass doors	2	ea	3,000.00	6,000		
493	Flag pole at classrooms	32	ea	100.00	3,200		
494	Bench and fintube enclosure @ cafe	57	lf	325.00	18,525		
495	Cantilevered HD bench	28	lf	250.00	7,000		
496	Media- 3' high shelving	61	lf	360.00	21,960		
497	Media- 7' high shelving	107	lf	800.00	85,600		
498	<u>Copy/office</u>						
499	Base cabinet with solid surface countertop	10	;f	425.00	4,250		
500	Upper cabinets	10	lf	275.00	2,750		
501	Upper cabinets open	5	lf	240.00	1,200		
502	Mail slots	14	lf	500.00	7,000		
503	Plam work counter	12	lf	175.00	2,100		
504	Tall storage, 36" wide	1	ea	2,100.00	2,100		
505	Wood sills	1,167	lf	50.00	58,350		
506	Picture rail	213	lf	20.00	4,260		
507	Misc. trim to interior storefront	1,722	lf	60.00	103,320		
508 509	<i>070001 WATERPROOFING, DAMPPROOFING AND CAULKING</i>						
510	Miscellaneous sealants throughout building						w/ interior construction
511 512	<i>101100 VISUAL DISPLAY SURFACES</i>						
513	Marker boards	4,981	sf	22.00	109,582		
514	Tack boards	1,193	sf	20.00	23,860		
515	Smart board protectors	47	ea	3,800.00	Assumed FFE		
516	Hardwood framed tackboards in corridors (6 loc)	430	sf	30.00	12,900		
517	Tack surface in corridors	85	sf	22.00	1,870		
518 519	<i>101400 SIGNAGE</i>						
520	Room Signs	139	loc	120.00	16,680		
521	Misc. interior signage including specialty signage	105,750	gsf	0.65	68,738		
522 523	<i>102110 TOILET COMPARTMENTS</i>						
524	ADA	8	ea	1,800.00	14,400		
525	Standard	8	ea	1,600.00	12,800		
526	Urinal screens	4	ea	750.00	3,000		
527 528	<i>102800 TOILET ACCESSORIES</i>						
529	Toilet paper dispenser; install only	36	ea	50.00	1,800		
530	Soap dispenser ; install only	36	ea	50.00	1,800		
531	Grab bars	28	sets	250.00	7,000		
532	Mirror	36	ea	300.00	10,800		
533	Sanitary napkin dispenser	6	ea	1,000.00	6,000		
534	Sanitary napkin disposal	6	ea	100.00	600		
535	Electric handryers in public bathrooms	28	ea	850.00	23,800		
536	Paper towel dispenser	28	ea	200.00	5,600		
537	Diaper changing station	2	ea	1,500.00	3,000		
538	Janitors closet accessories	3	rms	500.00	1,500		
539	Allowance OFCI paper towel and soap dispenser in classrooms	1	ls	5,000.00	5,000		
540 541	<i>104400 FIRE PROTECTION SPECIALTIES</i>						
542	Fire extinguisher specialties & AED cabinets	1	ls	25,000.00	25,000		
543 544	<i>105113 LOCKERS</i>						
545	Kitchen metal lockers; 24"x18" allowance	4	ea	300.00	1,200		
546	Project area double tier lockers	888	opn	165.00	146,520		
547 548	<i>108800 WALL PROTECTION</i>						



Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
549	Corner guards	1	ls	10,000.00	10,000			
550								
551	109900 MISCELLANEOUS SPECIALTIES							
552	Privacy curtain and track at nurse/resting	4	ea	600.00	2,400			
553	SUBTOTAL					1,079,815		
554								
555	TOTAL - INTERIOR CONSTRUCTION							\$5,880,281
556								
557								
558	C20 STAIRCASES							
559								
560	C2010 STAIR CONSTRUCTION							
561								
562	033000 CONCRETE							
563	Concrete fill to stairs	6	flt	3,000.00	18,000			
564								
565	055000 MISCELLANEOUS METALS							
566	Egress stairs w/ stainless steel handrails and guardrails w/ stainless steel mesh	6	flt	45,000.00	270,000			
567	SUBTOTAL					288,000		
568								
569	C2020 STAIR FINISHES							
570								
571	090005 RESILIENT FLOORS							
572	Rubber tile at egress stairs - landings	575	sf	22.00	12,650			
573	Rubber tile at egress stairs - treads	724	lfr	20.00	14,480			
574	Rubber finishes @ Lobby stair	1	flt	5,000.00	5,000			
575								
576	090007 PAINTING							
577	High performance coating to stairs including all railings etc.	6	flt	3,000.00	18,000			
578	SUBTOTAL					50,130		
579								
580	TOTAL - STAIRCASES							\$338,130
581								
582								
583	C30 INTERIOR FINISHES							
584								
585	C3010 WALL FINISHES							
586								
587	055000 MISCELLANEOUS METALS							
588	Metal wrapped column in Cafeteria, 11' high	1	ea	6,000.00	6,000			
589								
590	064100 INTERIOR ARCHITECTURAL WOODWORK							
591	Pre-finished hardwood t+g system, shiplap pattern at project area portals	600	sf	80.00	48,000			
592	Pre-finished hardwood t+g system, shiplap pattern in Cafeteria at ceiling level	255	sf	80.00	20,400			
593	Solid phenolic panel system w/ 3 colors in Cafeteria	155	sf	100.00	15,500			
594	Solid phenolic panel w/ wood finish at proscenium , 12" wide	57	lf	100.00	5,700			
595	Solid phenolic panel w/ wood finish in Cafeteria	520	sf	90.00	46,800			
596	Solid phenolic panel in public lobbies	895	sf	90.00	80,550			
597	Solid phenolic shiplap panel in public lobbies	525	sf	90.00	47,250			
598								
599	066400 WALL PROTECTION							
600	Fully adhered vinyl graphic on level 5 finish at Stage ramp	220	sf	15.00	3,300			
601	Additional vinyl graphics not yet identified - allowance	500	sf	15.00	7,500			
602								
603	090002 TILE	18,656	total tile area					
604	Ceramic wall tile at toilets and custodian, 10' high in multi-fixture, 5' high in single (including tile base)	8,790	sf	32.00	281,280			
605	Porcelain wall tile type 1, typical	3,662	sf	32.00	117,184			
606	Porcelain wall tile type 2, large format	534	sf	32.00	17,088			
607	Porcelain wall tile type 3 at drinking fountains	200	sf	32.00	6,400			
608	Wall tile in kitchen at non-CMU walls, assume to 8' high	400	sf	32.00	12,800			
609	Custom mosaic art tile wall @ Stair A,B & C east walls	2,500	sf	35.00	87,500			
610	Ceramic tile wall @ Stair A,B & C west, north & south walls; 5' wainscot	1,881	sf	35.00	65,835			
611	Ceramic tile backsplash at sinks	689	sf	12.00	8,268			

Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST
612	<i>090007 PAINTING</i>						
613							
614	Paint to interior partitions	179,366	sf	0.80	143,493		
615	Premium for epoxy paint - allow	17,937	sf	0.50	8,969		
616	Miscellaneous painting including touch-up	105,750	gsf	0.15	15,863		
617							
618	<i>098413 SOUND ABSORBING PANELS</i>						
619	Wall mounted fabric wrapped sound attenuation panels on hexagonal wood games, 6 colors	44	ea	250.00	11,000		
620	Wall mounted fabric wrapped sound attenuation panels, 6 colors	150	sf	40.00	6,000		
621	Wall mounted fabric wrapped sound attenuation panels, 3/4 colors in Lobby	410	sf	40.00	16,400		
622	Acoustic panels in music practice rooms, 3' high, 2" thick Soundsoak or similar	945	sf	65.00	61,425		
623	Gymnasium - fibrous acoustic wall panels	1,760	sf	22.00	38,720		
624	SUBTOTAL						1,179,225
625							
626	C3020 FLOOR FINISHES	97,217	<i>sf total</i>				
627							
628	<i>033000 CONCRETE</i>						
629	Sealed concrete	4,800	sf	2.00	9,600		
630							
631	<i>090002 TILE</i>						
632	Quarry tile in kitchen	1,420	sf	34.00	48,280		
633	Ceramic mosaic tile, mudset in multi fixture toilet rooms	1,466	sf	36.00	52,776		
634	Ceramic mosaic tile, thinset in single toilet rooms	1,234	sf	30.00	37,020		
635	Tile base						taken with wall tile
636							
637	<i>090005 RESILIENT FLOORS</i>						
638	Heavy duty linoleum tile, Forbo Marmoleum Modular, 2.5mm thick w/ high RH adhesive, patterned 3-5 colors	79,437	sf	8.00	635,496		
639	Rubber tile @ stair mid landings						w/ stairs
640	Rubber flooring @ stair main floor landings	1,500	sf	16.00	24,000		
641	Resilient base	14,965	lf	3.00	44,895		
642							
643	<i>095500 FLOOR PREPARATION</i>						
644	Moisture mitigation/slab prep						NR
645							
646	<i>096560 WOOD FLOORING</i>						
647	Wood athletic flooring in Gymnasium	4,064	sf	24.00	97,536		
648	Vented wood base	250	lf	8.00	2,000		
649	Platform flooring	1,460	sf	28.00	40,880		
650	Pre-finished hardwood treads at stage steps to match platform flooring	86	lf	30.00	2,580		
651	Pre-finished hardwood risers at stage steps to match platform flooring	127	lf	30.00	3,810		
652							
653	<i>096810 EPOXY FLOORING</i>						
654							
655	<i>096820 TILE CARPETING</i>						
656	Tile carpet in Media center	2,900	sf	6.70	19,430		
657	Entry mat	350	sf	30.00	10,500		
658	Entry grate	170	sf	90.00	15,300		
659	SUBTOTAL						1,044,103
660							
661	C3030 CEILING FINISHES						
662							
663	<i>072119 THERMAL INSULATION</i>						
664	Insulation above perforated metal clouds in Cafeteria	1,540	sf	4.00	6,160		
665	Insulation above corrugated metal clouds @ Platform	477	sf	4.00	1,908		
666							
667	<i>090003 ACOUSTICAL TILE</i>						
668	ACT 1; 2x2 Armstrong Ultima, typical, high NRC	50,466	sf	8.00	403,728		
669	ACT 1A; 2x2 Armstrong Ultima in corridors	21,681	sf	7.50	162,608		
670	ACT 2; 2x2 Armstrong Clean Room in kitchen	1,460	sf	10.00	14,600		
671	ACT 3; 2x2 Armstrong Clean Room in toilets	1,640	sf	10.00	16,400		
672	Sloped high ACT ceiling tight to underside of sloped beam, 2'x8'	3,305	sf	16.00	52,880		

Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
673	Perforated custom curved metal clouds system (w/ acoustical infill panels for sound absorption) in Cafeteria; Armstrong Serpentina	1,540	sf	80.00	123,200			
674	Linear metal ceiling in Media center including axiom trim	1,000	sf	50.00	50,000			
675	Suspended ceiling clouds in Gym lobby	456	sf	50.00	22,800			
676	Floating corrugated perforated metal ceiling @ Platform	477	sf	65.00	31,005			
677	Wood soffit in Gym lobby	58	sf	75.00	4,350			
678	Phenolic panel w/ wood look finish at proscenium	352	sf	90.00	31,680			
679	Suspended acoustical rectangular vertical blade system at Project areas; 12'x12' (132 total lf blades)	24	loc	6,000.00	144,000			
680								
681	090007 PAINTING							
682	Paint to GWB ceilings and soffits	15,578	sf	1.00	15,578			
683	Paint to exposed structure	9,793	sf	3.00	29,379			
684								
685	092900							
686	GWB ceilings	1,091	sf	16.00	17,456			
687	GWB ceilings to stairs	600	sf	25.00	15,000			
688	GWB ceiling at horizontal soffits	4,354	sf	17.00	74,018			
689	Soffit in classrooms @ casework and at project areas (@ 7'/7'-2" to 10'-6")	1,876	lf	60.00	112,560			
690	Soffit in classrooms @ ACT ceiling transition (@ 10'-6" to 12')	1,220	lf	50.00	61,000			
691	Soffit in 1st floor lobby/ corridor	206	lf	50.00	10,300			
692	Soffit in Cafeteria @ 12'	129	lf	60.00	7,740			
693	Soffits, generally, allowance	105,750	gsf	0.50	52,875			
694								
695	098413 SOUND ABSORBING PANELS							
696	SUBTOTAL					1,461,225		
697								
698	TOTAL - INTERIOR FINISHES							\$3,684,553
699								
700								
701	D10 CONVEYING SYSTEMS							
702								
703	D1010 ELEVATOR							
704								
705	055000 MISCELLANEOUS METALS							
706	Elevator pit ladder and sump cover	1	loc	1,150.00	1,150			
707	Sill angles	1	ls	1,500.00	1,500			
708								
709	142000 ELEVATOR							
710	3 stop elevator	1	ea	240,000.00	240,000			
711								
712	144000 WHEELCHAIR LIFT							
713	SUBTOTAL					242,650		
714								
715	TOTAL - CONVEYING SYSTEMS							\$242,650
716								
717								
718	D20 PLUMBING							
719								
720	D20 PLUMBING, GENERALLY							
721	<u>Equipment</u>							
722	Domestic hot water heater 150 gal, 18 kw PVI	2	ea	45,000.00	90,000			
723	Domestic hot water plate & frame heat exchanger	1	ea	30,000.00	30,000			
724	Expansion tank	1	ea	5,500.00	5,500			
725	Mixing valve	1	ea	14,500.00	14,500			
726	Hot water recirculation pump	1	ea	4,200.00	4,200			
727	Water meter assembly	1	ea	4,500.00	4,500			
728	Water submeter	1	ea	1,400.00	1,400			
729	Connection to gas meter (required?)	1	ea	1,600.00	1,600			
730	Reduced pressure backflow preventer, main	1	ea	7,200.00	7,200			
731	Interior grease interceptor	3	ea	4,500.00	13,500			
732	Exterior grease interceptor, 5000 gallon	1	ls	15,000.00	15,000			
733	Elevator pit sump pump with oil separator	1	ea	6,700.00	6,700			

Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
734	Rough-in & connection to kitchen equipment	1	ls	42,000.00	42,000			
735	Roof drain	19	ea	1,400.00	26,600			
736	Floor drain	8	ea	1,100.00	8,800			
737	Floor sink	5	ea	1,600.00	8,000			
738	Trap primer	6	ea	900.00	5,400			
739	Hose bibb	8	ea	425.00	3,400			
740	Freezeproof wall/roof hydrant	8	ea	525.00	4,200			
741	<u>Plumbing Fixtures & Specialties</u>							
742	Water closet, child	6	ea	1,950.00	11,700			
743	Water closet ADA	32	ea	2,020.00	64,640			
744	Urinal	4	ea	2,040.00	8,160			
745	Urinal ADA	4	ea	2,040.00	8,160			
746	Lavatory wall hung, child	6	ea	1,420.00	8,520			
747	Lavatory wall hung ADA	31	ea	1,580.00	48,980			
748	Sink classroom, 6.5" deep	41	ea	1,460.00	59,860			
749	Sink classroom, 4.5" deep	37	ea	1,440.00	53,280			
750	Art sink with solids interceptor	2	ea	1,850.00	3,700			
751	Mop sink	3	ea	1,640.00	4,920			
752	Electric water cooler with bottle fill, bi-level	6	ea	4,330.00	25,980			
753	<u>Domestic Water Type L Copper Pipe</u>							
754	Copper pipe type L w/fittings & hangers	108,254	sf	5.00	541,270			
755	Valves & accessories	108,254	sf	1.00	108,254			
756	<u>Pipe Insulation</u>							
757	Domestic water pipe insulation	108,254	sf	2.00	216,508			
758	<u>Sanitary W&V UG, SV Cast Iron Pipe</u>							
759	SV Cast iron pipe with fittings	108,254	sf	1.50	162,381			
760	<u>Sanitary W&V AG, Hubless Cast Iron Pipe</u>							
761	Cast iron pipe with fittings & hangers	108,254	sf	2.25	243,572			
762	<u>Storm Drainage UG, SV Cast Iron Pipe</u>							
763	SV Cast iron pipe with fittings	108,254	sf	1.50	162,381			
764	<u>Storm Drainage AG, Hubless Cast Iron Pipe</u>							
765	Cast iron pipe no-hub	108,254	sf	2.10	227,333			
766	Pipe insulation on horizontal runs	108,254	sf	0.45	48,714			
767	Storm outlets & accessories	108,254	sf	0.25	27,064			
768	<u>Natural Gas Piping</u>							
769	Natural gas piping to kitchen?	1	ls	20,000.00	NR			
770	<u>Miscellaneous</u>							
771	Coordination & BIM	1	ls	85,000.00	85,000			
772	Coring, sleeves & fire stopping	1	ls	19,000.00	19,000			
773	Hydraulic lifts/rigging	1	ls	16,000.00	16,000			
774	Commissioning support	1	ls	8,000.00	8,000			
775	Testing and sterilization	1	ls	13,000.00	13,000			
776	Fees & permits	1	ls	35,000.00	35,000			
777	SUBTOTAL					2,503,877		
778	TOTAL - PLUMBING						\$2,503,877	
779								
780								
781								
782	D30 HVAC							
783								
784	D30 HVAC, GENERALLY							
785	<u>Well Field</u>							
786	Well-field complete (500' deep)	84	ea	25,000.00	2,100,000			
787	<u>Central plant equipment</u>							
788	Modular water-water heat recovery chiller	280	tons	2,400.00	672,000			
789	Expansion tank	7	ea	6,500.00	45,500			
790	Air separator	4	ea	8,000.00	32,000			

Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST
791	Glycol system	2	ea	10,000.00	20,000		
792	Chemical feeder	3	ea	3,000.00	9,000		
793	<u>Terminal Equipment</u>						
794	Chilled beam, active	223	ea	1,900.00	423,700		
795	Fan coil unit	21	ea	6,300.00	132,300		
796	Blower coil	6	ea	6,700.00	40,200		
797	Ductless split AC unit with ACCU, 1 ton	3	ea	8,500.00	25,500		
798	Ductless split AC unit with ACCU, 2 tons	2	ea	10,500.00	21,000		
799	Ductless split AC unit with ACCU, 2.5 tons	2	ea	11,500.00	23,000		
800	Unit heater HW	4	ea	1,200.00	4,800		
801	Cabinet unit heater HW	6	ea	1,500.00	9,000		
802	Radiant ceiling panel, perimeter	108,254	sf	1.00	108,254		
803	Fin tube radiation, cafeteria	60	lf	120.00	7,200		
804	<u>Pumps</u>						
805	Ground loop pump	2	ea	35,000.00	70,000		
806	Chilled water pump with VFD	2	ea	32,000.00	64,000		
807	Tempered secondary chilled water pump with VFD	2	ea	17,000.00	34,000		
808	Heating water pump with VFD	2	ea	18,000.00	36,000		
809	<u>Air distribution</u>						
810	AHU-1 CHW, HW, ERW, SAF, RAF (Media/Admin/Music)	12,000	cfm	24.00	288,000		
811	AHU-2 CHW, HW, ERW, SAF, RAF (Cafeteria)	10,500	cfm	24.00	252,000		
812	AHU-3 CHW, HW, ERW, SAF, RAF (Gymnasium)	12,000	cfm	24.00	288,000		
813	ERU-1 100% OA CHW, HW, ERW, SAF, RAF (Classrooms)	12,000	cfm	27.00	324,000		
814	ERU-2 100% OA CHW, HW, ERW, SAF, RAF (Classrooms)	12,000	cfm	27.00	324,000		
815	ECV-1 Energy Core ventilator, 5000 cfm (AHU-1)	5,000	cfm	11.00	55,000		
816	ECV-2 Energy Core ventilator, 2400 cfm (AHU-2)	2,400	cfm	11.00	26,400		
817	ECV-3 Energy Core ventilator, 5000 cfm (AHU-3)	5,000	cfm	11.00	55,000		
818	MAU-1 100% OA PHW, CHW, HW (Kitchen Makeup)	4,400	cfm	22.00	96,800		
819	Kitchen utility set exhaust fan, 5500 cfm	1	ea	16,500.00	16,500		
820	<u>Sheet metal & Accessories</u>						
821	Sheet metal	70,000	lbs	19.00	1,330,000		
822	Duct insulation	42,000	sf	8.00	336,000		
823	Registers, grilles & diffusers	340	ea	250.00	85,000		
824	VAV Box with HW reheat	15	ea	1,550.00	23,250		
825	Sound Attenuators	1	ls	76,000.00	76,000		
826	Sheet metal accessories	1	ls	90,000.00	90,000		
827	<u>Piping</u>						
828	<u>Hot Water Piping with Equipment Connections & Valves</u>						
829	Hot water piping with fittings & hangers	108,254	sf	8.50	920,159		
830	<u>Chilled Water Piping with Equipment Conns & Valves</u>						
831	Chilled water piping with fittings & hangers	108,254	sf	8.00	866,032		
832	<u>Refrigerant Piping</u>						
833	Refrigerant piping with fittings & hangers	108,254	sf	0.20	21,651		
834	<u>Condensate Drain Piping</u>						
835	Condensate drain piping with fittings & hangers	300	lf	35.00	10,500		
836	<u>Piping Insulation</u>						
837	Piping insulation	108,254	sf	3.50	378,889		
838	<u>Automatic Temperature Controls</u>						
839	Automatic temperature controls DDC	108,254	sf	9.00	974,286		
840	<u>Balancing</u>						
841	System testing & balancing	108,254	sf	1.50	162,381		
842	<u>Miscellaneous</u>						
843	Project coordination	1	ls	150,000.00	150,000		
844	System testing and flushing	1	ls	53,000.00	53,000		
845	Coring, cutting, sleeves & fire stopping	1	ls	42,200.00	42,200		

Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
846	Structural Steel Comp. and misc. bracing	1	ls	34,000.00	34,000			
847	Hydraulic lifts/rigging	1	ls	50,000.00	50,000			
848	Shop drawings / BIM / ENG Support / As-Builts	1	ls	80,000.00	80,000			
849	Fees & permits	1	ls	160,000.00	Excluded			
850	SUBTOTAL					11,286,502		
TOTAL - HVAC							\$11,286,502	
D40 FIRE PROTECTION								
D40 FIRE PROTECTION, GENERALLY								
<u>Equipment & valves</u>								
859	6" Fire protection service	1	ea	7,000.00	7,000			
860	6" Double check valve assembly	1	ea	13,500.00	13,500			
861	6" Wet Alarm check valve assembly	1	ea	6,500.00	6,500			
862	Standpipe control valve assembly	3	ea	3,600.00	10,800			
863	4" Zone control valve assembly	6	ea	3,600.00	21,600			
864	2-1/2" Fire department valve	8	ea	1,300.00	10,400			
865	2-1/2" FDC/Storz connection	1	ea	2,200.00	2,200			
866	Sprinkler heads	1,030	ea	120.00	123,600			
867	Distribution piping with fittings & hangers	10,900	lf	42.00	457,800			
868	Main sprinkler piping and standpipes	2,000	lf	63.00	126,000			
<u>Miscellaneous</u>								
870	Coordination & BIM	1	ls	25,000.00	25,000			
871	Hydraulic calculations	1	ls	10,000.00	10,000			
872	Coring, sleeves & fire stopping	1	ls	7,000.00	7,000			
873	Shop drawings	1	ls	14,000.00	14,000			
874	Commissioning of system	1	ls	12,000.00	12,000			
875	Fees & permits	1	ls	12,500.00	Excluded			
876	SUBTOTAL					847,400		
TOTAL - FIRE PROTECTION							\$847,400	
D50 ELECTRICAL								
D5010 SERVICE & DISTRIBUTION								
Gear & Distribution								
<u>Normal Power</u>								
886	4000A main switchboard	1	ea	280,000.00	280,000			
887	1200A distribution panelboard	1	ea	40,000.00	40,000			
888	800A distribution panelboard	1	ea	30,000.00	30,000			
889	400A panelboard	1	ea	6,000.00	6,000			
890	300A panelboard	1	ea	5,500.00	5,500			
891	225A panelboard	12	ea	3,000.00	36,000			
892	150A panelboard	6	ea	2,500.00	15,000			
893	100A panelboard	1	ea	2,000.00	2,000			
894	300KVA dry type transformer	1	ea	42,600.00	42,600			
895	225KVA dry type transformer	1	ea	33,000.00	33,000			
896	4000A secondary runs approx 50' vertical inside	50	lf	2,340.00	117,000			
897	Panel schedules not coordinated with riser. Carried high amperages with discrepancies							
898	Normal power feeders	108,254	sf	3.50	378,889			
<u>Emergency power</u>								
900	600KW diesel fueled generator set in WP SA enclosure	1	ea	280,000.00	280,000			
901	600A automatic transfer switch	1	ea	15,600.00	15,600			
902	260A automatic transfer switch	1	ea	8,800.00	8,800			
903	400A NEMA 3R manual docking station	1	ea	15,000.00	15,000			
904	800AF 600AT distribution panelboard	1	ea	30,000.00	30,000			



Schematic Design Cost Estimate

GFA

105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
905	600A 500AT distribution panelboard	1	ea	20,000.00	20,000		
906	400A panelboard	2	ea	6,000.00	12,000		
907	300A panelboard	1	ea	5,500.00	5,500		
908	225A panelboard	2	ea	3,000.00	6,000		
909	150A panelboard	2	ea	2,500.00	5,000		
910	100A panelboard	1	ea	2,000.00	2,000		
911	60A panelboard	1	ea	1,700.00	1,700		
912	150KVA dry type transformer	1	ea	23,400.00	23,400		
913	15KVA dry type transformer	1	ea	5,900.00	5,900		
914	EPO	2	ea	1,000.00	2,000		
915	Emergency power feeders	108,254	sf	1.50	162,381		
916	<u>Photovoltaic System</u>						
917	PV system (649kW)	1	ls	1,882,100.00	1,882,100		
918	<u>Equipment Wiring</u>						
919	Equipment feed and connections	108,254	sf	2.50	270,635		
920	SUBTOTAL					3,734,005	
921							
922	D5020 LIGHTING & POWER						
923	<u>Lighting & Branch Power</u>						
924	Exit sign	34	ea	300.00	10,200		
925	P1 - 16'	136	ea	1,600.00	217,600		
926	P1 - 8'	11	ea	800.00	8,800		
927	P10	24	ea	750.00	18,000		
928	P12 - 16'	8	ea	1,600.00	12,800		
929	P12 - 4'	16	ea	400.00	6,400		
930	P12 - 8'	12	ea	800.00	9,600		
931	P14	12	lf	150.00	1,800		
932	P2 - 16'	1	ea	1,600.00	1,600		
933	P2 - 4'	1	ea	400.00	400		
934	P2 - 8'	42	ea	800.00	33,600		
935	P3B	88	lf	150.00	13,200		
936	P3C	49	lf	150.00	7,350		
937	P3D	65	lf	150.00	9,750		
938	P4 - gym	20	ea	500.00	10,000		
939	P8A	78	lf	300.00	23,400		
940	P9B	23	ea	2,000.00	46,000		
941	P9C	2	ea	3,000.00	6,000		
942	P9C.1	1	ea	3,000.00	3,000		
943	P9C.2	7	ea	3,000.00	21,000		
944	P9D.4	1	ea	3,500.00	3,500		
945	R - 1x6	8	ea	600.00	4,800		
946	R1 - 1x4	67	ea	300.00	20,100		
947	R10 - 1x4	5	ea	300.00	1,500		
948	R12 - DL	7	ea	350.00	2,450		
949	R13 - DL	14	ea	350.00	4,900		
950	R13 - DL	17	ea	350.00	5,950		
951	R2 - 1x10	2	ea	1,000.00	2,000		
952	R2 - 1x12	5	ea	1,200.00	6,000		
953	R2 - 1x6	7	ea	600.00	4,200		
954	R2 - 1x8	51	ea	800.00	40,800		
955	R3 - 1x6	8	ea	600.00	4,800		
956	R3 - 1x8	8	ea	800.00	6,400		
957	R4 - DL	82	ea	350.00	28,700		
958	R6 - DL	155	ea	350.00	54,250		
959	R7 - 2x2	13	ea	280.00	3,640		
960	R8B	11	ea	750.00	8,250		
961	R8C - DL	9	ea	380.00	3,420		
962	S1 - 4' (utility)	66	ea	250.00	16,500		
963	S3	19	ea	650.00	12,350		
964	S5 - DL	10	ea	400.00	4,000		
965	S6	918	lf	95.00	87,210		
966	S7	42	lf	95.00	3,990		



Schematic Design Cost Estimate

GFA

105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST
967	T1A - track head	12	ea	280.00	3,360		
968	T1B - track head	18	ea	280.00	5,040		
969	TA Track	32	lf	50.00	1,600		
970	TB Track	24	lf	50.00	1,200		
971	W1 - wall sconce	42	ea	750.00	31,500		
972	W2 - wall sconce	24	ea	750.00	18,000		
973	W3A	230	lf	150.00	34,500		
974	W3B	191	lf	150.00	28,650		
975	W6 - ext sconce	3	ea	500.00	1,500		
976	W7 - nurse wall light	3	ea	320.00	960		
977	Allow for lighting not yet defined	108,254	sf	1.00	108,254		
978	<u>Lighting control system</u>						
979	Digital Lighting controls	108,254	sf	2.00	216,508		
980	<u>Branch devices</u>						
981	Branch devices	108,254	sf	0.65	70,365		
982	<u>Lighting and Branch Circuitry</u>						
983	Lighting and Branch Circuitry	108,254	sf	8.00	866,032		
984	SUBTOTAL					2,177,679	
985							
986	D5030 COMMUNICATION & SECURITY SYSTEMS						
987	<u>Fire Alarm</u>						
988	Fire alarm system	108,254	sf	3.25	351,826		
989	<u>Bi-Directional System</u>						
990	BDA system	1	ls	65,000.00	65,000		
991	Cell repeater system	1	ls	65,000.00	NR		
992	<u>Two-Way Communication</u>						
993	Two-Way Communication/area of refuge	1	ls	25,000.00	25,000		
994	<u>Telephone/Data/CATV</u>						
995	Network switches, PBX, IP, VP, CCTV (By owner)					By Owner	
996	Telcom rough-in and devices & cabling	108,254	sf	4.00	433,016		
997	<u>Public Address/Clock System</u>						
998	PA/MC system	108,254	sf	1.50	162,381		
999	<u>Speech Amplification</u>						
1000	Speech Amplification system	53	loc	3,800.00	201,400		
1001	<u>Audio Visual (rough-in and power only)</u>						
1002	AV equipment					By Owner	
1003	AV backbox and conduit stub to ceiling	108,254	sf	0.25	27,064		
1004	Projector per spec (incl gymnasium & café)	2	ea	30,000.00	60,000		
1005	<u>Digital Signage System</u>						
1006	DSS incl (3) 65" flat panel displays, rough-in and cabling	108,254	sf	0.50	54,127		
1007	<u>Gymnasium</u>						
1008	Gym equipment feeds and connections	1	ls	30,000.00	30,000		
1009	<u>Sound system</u>						
1010	Gym	1	ls	25,000.00	25,000		
1011	Music room	1	ls	15,000.00	15,000		
1012	Café	1	ls	25,000.00	25,000		
1013	<u>Security System (incl door intercom system) (utilizing all conduit per spec)</u>						
1014	Security System	108,254	sf	3.50	378,889		
1015	SUBTOTAL					1,853,703	
1016							
1017	D5040 OTHER ELECTRICAL SYSTEMS						
1018	<u>Miscellaneous</u>						
1019	Lightening Protection System	1	ls	65,000.00	65,000		
1020	Grounding	1	ls	15,000.00	15,000		
1021	Firestopping	1	ls	50,000.00	50,000		
1022	Temp power and lights	1	ls	100,000.00	100,000		
1023	Demo and make safe; cut main power at building	1	ls	10,000.00	10,000		
1024	Seismic restraints	1	ls	5,000.00	5,000		
1025	Coordination, BIM & shop drawings	1	ls	75,000.00	75,000		
1026	Fees & Permits					Waived	



Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
1027	SUBTOTAL					320,000		
1028	TOTAL - ELECTRICAL							\$8,085,387
1030	E10 EQUIPMENT							
1033	E10 EQUIPMENT, GENERALLY							
1035	111500	LOADING DOCK EQUIPMENT				assume NR		
1037	113100	APPLIANCES						
1038		Residential appliances - allowance	1	ls	5,000.00	5,000		
1040	114000	FOODSERVICE EQUIPMENT						
1042		Kitchen equipment (Crabtree McGrath & Associates)	1	ls	685,230.00	685,230		
1043	115213	PROJECTION SCREENS						
1044		Projection screen in cafeteria and gym	2	ea	15,000.00	30,000		
1046	116200	THEATRE EQUIPMENT						
1047		Curtain and rigging at Platform - allow	1	ls	30,000.00	30,000		
1048	116600	ATHLETIC EQUIPMENT						
1049		Gym safety wall pads	500	sf	20.00	10,000		
1051		Basketball backstops, motorized	6	ea	10,000.00	60,000		
1052		Gymnasium dividing curtain; (1) @50'	1,500	sf	19.00	28,500		
1053		Volleyball net and standards	1	ls	5,000.00	5,000		
1054		Score board in Gym	2	ea	15,000.00	30,000		
1055		Motorized bleachers, 2 rows				NIC		
1056		Low traversing climbing wall with padded cover; 16'x8'	1	ls	7,680.00	7,680		
1057	119000	MISCELLANEOUS EQUIPMENT						
1058		Kiln	1	ea	5,000.00	5,000		
1059		SUBTOTAL				896,410		
1061	TOTAL - EQUIPMENT							\$896,410
1063	E20 FURNISHINGS							
1064	E2010 FIXED FURNISHINGS							
1065	122100	WINDOW TREATMENT						
1066		Allowance for window treatments	1	ls	98,608.00	98,608		
1067	123000	CASEWORK						
1068		<u>Kindergarten</u>	5	rms				
1069		Base cabinet with solid surface countertop	30	lf	425.00	12,750		
1070		Upper cabinets	30	lf	275.00	8,250		
1071		Tall storage, 42" wide	10	ea	2,250.00	22,500		
1072		Classroom base storage cabinet w/ sliding markerboards and adjustable shelving behind	60	lf	1,200.00	72,000		
1073		<u>General Classroom</u>	27	rms				
1074		Base cabinet with solid surface countertop	162	lf	425.00	68,850		
1075		Upper cabinets	162	lf	275.00	44,550		
1076		Tall storage, 60" wide	27	ea	3,000.00	81,000		
1077		Classroom base storage cabinet w/ sliding markerboards and adjustable shelving behind	324	lf	1,200.00	388,800		
1078		<u>Project Area</u>	6	rms				
1079		Upper cabinets	570	lf	275.00	156,750		
1080		Built-in HW bench and walls w/ tack and marker board	12	ea	7,500.00	90,000		
1081		<u>ILC</u>	3	rms				



Schematic Design Cost Estimate

GFA 105,750

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	ESTD COST	SUB TOTAL	TOTAL COST	
1088	Base cabinet with solid surface countertop	18	lf	425.00	7,650			
1089	Upper cabinets, open	18	lf	275.00	4,950			
1090	Tall storage, 60" wide	3	ea	3,000.00	9,000			
1091	Classroom base storage cabinet w/ sliding markerboards and adjustable shelving behind	36	lf	1,200.00	43,200			
1092	<u>ELL</u>	3	loc					
1093	Tall storage, 60" wide	3	ea	3,000.00	9,000			
1094	<u>Media Center</u>							
1095	Base cabinet with solid surface countertop	33	lf	425.00	14,025			
1096	Upper cabinets	28	lf	275.00	7,700			
1097	Tall storage, 36" wide	3	ea	2,100.00	6,300			
1098	<u>Music</u>							
1099	Base cabinet with solid surface countertop	7	lf	425.00	2,975			
1100	Upper cabinets	7	lf	275.00	1,925			
1101	Music Storage 9' tall	29	lf	900.00	26,100			
1102	<u>Nurse</u>							
1103	Base cabinet with solid surface countertop	16	lf	425.00	6,800			
1104	Upper cabinets	16	lf	260.00	4,160			
1105	<u>OT & PT</u>							
1106	Tall storage, 60" wide	1	ea	3,000.00	3,000			
1107	Classroom base storage cabinet w/ sliding markerboards and adjustable shelving behind	12	lf	1,200.00	14,400			
1108	<u>Teacher work room</u>							
1109	Base cabinet with solid surface countertop	61	lf	425.00	25,925			
1110	Upper cabinets	61	lf	275.00	16,775			
1111	<u>Art/STE</u>							
1112	Base cabinet with epoxy countertop and backsplash	86	lf	500.00	43,000			
1113	Upper cabinets	42	lf	300.00	12,600			
1114	Tall storage, 48" wide	6	ea	2,250.00	13,500			
1115	Classroom base storage cabinet w/ sliding markerboards and adjustable shelving behind	25	lf	1,200.00	30,000			
1116	SUBTOTAL					1,347,043		
1117								
1118	E2020 MOVABLE FURNISHINGS							
1119	All movable furnishings to be provided and installed by owner							
1120	SUBTOTAL						NIC	
1121								
1122	TOTAL - FURNISHINGS							\$1,347,043
1123								
1124								
1125	F10 SPECIAL CONSTRUCTION							
1126								
1127	F10 SPECIAL CONSTRUCTION							
1128	SUBTOTAL						-	
1129								
1130	TOTAL - SPECIAL CONSTRUCTION							
1131								
1132								
1133	F20 SELECTIVE BUILDING DEMOLITION							
1134								
1135	F2010 BUILDING ELEMENTS DEMOLITION							
1136	SUBTOTAL							
1137								
1138	F2020 HAZARDOUS COMPONENTS ABATEMENT							
1139	02121 See main summary for HazMat allowance						See Summary	
1140	SUBTOTAL							
1141								
1142	TOTAL - SELECTIVE BUILDING DEMOLITION							



Schematic Design Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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SITework

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
G SITEWORK							
G10 SITE PREPARATION & DEMOLITION							
311000	GENERAL CONDITIONS						
	6' high site construction fence	2,794	lf	14.00	w/ phasing		
	Site construction entrance and removal/restoration	1	loc	12,000.00	12,000		
	Temp laydown areas	1	acres	10,000.00	10,000		
	Temporary signs	1	ls	5,000.00	5,000		
	Layout/As-builts/Survey	1	ls	10,000.00	10,000		
311000	PHASING						
	Mobilizations	1	ea	50,000.00	50,000		
	Phase 1 temp fence	3,484	lf	14.00	48,776		
	Phase 2 temp fence	1,893	lf	14.00	26,502		
311000	SITE DEMOLITION AND RELOCATIONS						
	Demolish curbing	3,266	lf	6.00	19,596		
	Pulverize pavement for reuse	17,489	sy	6.00	104,934		
	Stockpile pulverized material for reuse	2,915	cy	2.50	7,288		
	Demolish existing walkways	19,367	sf	1.50	29,051		
	Miscellaneous site demolition; furnishings, concrete pads, signs etc.	1	ls	75,000.00	75,000		
	Remove playground equipment	13	ea	2,500.00	32,500		
311000	UTILITY DEMOLITION						
	Demolish existing utility lines - allowance	3,500	lf	25.00	87,500		
	Demolish existing utility structures - allowances	18	ea	500.00	9,000		
	Cut/cap utility lines - allowance	4	ea	10,000.00	40,000		
	Remove culverts	154	lf	175.00	26,950		
	Remove culvert headwall	1	ls	10,000.00	10,000		
	Bypass pumping allowance	1	ls	15,000.00	15,000		
311000	ROADWAY WORK						
	Sawcut	560	lf	8.25	4,620		
	Remove pavement	1,516	sf	3.50	5,306		
	Temp pavement patching	1,516	sf	8.00	12,128		
	Steel plates	1	ls	2,500.00	2,500		
	Police details	7	dy	850.00	5,950		
	Permanent pavement patch	1,516	sf	10.00	15,160		
311000	VEGETATION & TOPSOIL MANAGEMENT						
	Remove existing trees	59	ea	850.00	50,150		
	Vegetation protection fencing	1,850	lf	12.00	22,200		
	Strip + stockpile topsoil	14,000	cy	11.50	NR		
	Strip + dispose topsoil	15,300	cy	32.00	489,600		
312000	EROSION & SEDIMENT CONTROL						
	Silt Fence; installation and removal	630	lf	12.00	7,560		
	Silt sock; installation and removal	2,582	lf	20.00	51,640		
	Silt sock and fence combo; installation and removal	113	lf	20.00	2,260		
	Silt Sacks; installation and removal	18	ea	250.00	4,500		
	Temporary sedimentation basins allowance	5,000	sf	3.00	15,000		
	Temporary drainage swale w/ haybale erosion check dam	500	lf	18.00	9,000		
	Erosion Control monitoring & maintenance	1	ls	20,000.00	20,000		
	Street sweeping & dust control	1	ls	50,000.00	50,000		
	SUBTOTAL					1,386,671	
312000	BUILDING EARTHWORK						
	Cut - over excavated 1.21' of fill beneath building - 10' offset (6' over ex. on 20% of footprint = 2,200cy)	2,826	cy	12.00	W/ BLDG		
312000	SOIL DISPOSAL - conversion factor 1.7 to tons						
	Load excess soils for disposal	2,826	cy	3.25	W/ BLDG		
	Less than RCS-1 - clean non-regulated	4,804	tn	22.00	W/ BLDG		
312000	SOIL PRELOADING swell factor 1.25						
	Sub grade establishment - shape to 171.87' avg.	63,600	sf	0.25	W/ BLDG		



Schematic Design Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITWORK							
59	Import gravel- raise to 4' above FFE +10.12' x 63,600sf	29,798	cy	38.00	W/ BLDG		
60	Stockpile on footprint for reuse as site gravel	29,798	cy	2.50	W/ BLDG		
61	Street sweeping & dust control allowance	1	ls	40,000.00	W/ BLDG		
62	312000 <i>Building footprint prep - post preloading</i>						
63	Cut - preload gravel to 177.5' proposed subgrade bottom of SOG - load into rock truck and move around site	13,250	cy	15.00	W/ BLDG		
64	Sub grade establishment - shape to 177.5'	63,600	sf	0.25	W/ BLDG		
65	SUBTOTAL						
66							
67	312000 <i>SITE EARTHWORK</i>						
68	<u>Site Earthwork</u>	9,700	cy				
69	Cut	9,700	cy	10.00	97,000		
70	Store cut onsite	9,700	cy	3.50	33,950		
71	<u>Fill Req.</u>	20,000	cy				
72	Fill - from cut	9,700	cy	10.00	97,000		
73	Fill - from pulverize	2,915	cy	10.00	29,150		
74	Fill - import - swell 25%	9,231	cy	38.00	350,778		
75							
76	312000 <i>ESTABLISHING GRADE</i>						
77	Sub grade establishment	650,000	sf	0.25	162,500		
78	Fine grading throughout the site	650,000	sf	0.35	227,500		
79							
80	312000 <i>HAZARDOUS MATERIALS</i>						
81	Fuel tank removal allowance	1	ls	50,000.00	NR		
82	SUBTOTAL						997,878
83							
84	G20 SITE IMPROVEMENTS						
85	<i>Gravel pricing per cubic yard</i>	48	cy				
86	<i>Crushed stone pricing per cubic yard</i>	52	cy				
87	<i>Asphalt top course pricing per ton</i>	200	tns				
88	<i>Asphalt binder course pricing per ton</i>	180	tns				
89	320000 <i>ROADWAYS AND PARKING LOTS</i>						
90	<u>Asphalt Paving; parking lots and roadway</u>	127,675	sf				
91	crushed stone; 12" thick - reuse preload gravel	4,729	cy	20.00	94,580		
92	Geogrid	75,000	sf	0.75	56,250		
93	asphalt top; 1.5" thick	1,221	tns	200.00	244,200		
94	asphalt binder; 2.5" thick	2,031	tns	180.00	365,580		
95	Asphalt swale	264	sf	6.00	1,584		
96	<u>Vehicular Concrete; incl. generator slab</u>	7,109	sf				
97	crushed stone; 4" thick	132	cy	48.00	6,336		
98	gravel base; 8" thick	176	cy	52.00	9,152		
99	Geogrid	7,109	sf	0.75	NR		
100	Broom finish concrete paving; 9" thick	7,109	sf	18.00	127,962		
101	320000 <i>CURBING</i>						
102	VGC - concrete backup with rebar	6,632	lf	50.00	331,600		
103	VGC - mountable - concrete backup with rebar	11	lf	50.00	550		
104	ADA Curb cuts	21	ea	850.00	17,850		
105	Detectable warning cast iron	501	sf	125.00	62,625		
106	Detectable warning panels in series	180	sf	125.00	22,500		
107	Parking spot	174	ea	85.00	14,790		
108	Parking spot ADA	6	ea	250.00	1,500		
109	Pavement markings allowance	1	ls	10,000.00	10,000		
110	Crosswalk hatching	5	loc	2,500.00	12,500		
111	Raised crosswalk	909	sf	15.00	13,635		
112	Light pole bases	60	ea		w_elec.		
113	<u>Traffic signs</u>						
114	Signs - new	10	ea	125.00	1,250		
115	Signs - mounting hardware	10	ea	225.00	2,250		



Schematic Design Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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SITWORK

116	Signs - posts	10	ea	487.50	4,875		
117	SUBTOTAL					1,401,569	
118							
119	320000 PEDESTRIAN PAVING						
120	<u>Concrete sidewalks</u>	31,059	sf				
121	gravel base; 8" thick- reuse preload gravel	771	cy	20.00	15,420		
122	Geogrid	31,059	sf	0.75	23,294		
123	Broom finish concrete paving; 5" thick	31,059	sf	11.00	341,649		
124	<u>Bituminous concrete walkways</u>	60,415	sf				
125	crushed stone; 12" thick - reuse preload gravel	2,238	cy	20.00	44,760		
126	Geogrid	60,415	sf	0.75	NR		
127	asphalt top; 1" thick	384	tns	200.00	76,800		
128	asphalt binder; 2" thick	772	tns	180.00	138,960		
129	Allowance for painted games	1	ls	30,000.00	30,000		
130	<u>Decorative stone</u>	4,258	sf				
131	Decorative stone; 8" thick	106	cy	52.00	5,512		
132	Geotextiles	4,258	sf	0.55	2,342		
133	<u>Bluestone paving</u>	1,202	sf				
134	gravel base; 8" thick	30	cy	48.00	1,440		
135	Geogrid	1,202	sf	0.75	NR		
136	Concrete slab paving; 5" thick	1,202	sf	11.00	13,222		
137	Bluestone paving	1,202	sf	36.00	43,272		
138	<u>Preset Brick pavers</u>	4,198	sf				
139	gravel base; 8" thick	104	cy	48.00	4,992		
140	Geogrid	4,198	sf	0.75	3,149		
141	Concrete slab paving; 5" thick	4,198	sf	9.00	37,782		
142	Brick pavers	4,198	sf	28.00	117,544		
143	<u>Stabilized stone dust pathway - planters</u>	4,994	sf				
144	Gravel base; 6" thick	92	cy	48.00	4,416		
145	Stone dust 4" thick	124	tns	250.00	31,000		
146	Edging around stone dust	222	lf	20.00	4,440		
147	SUBTOTAL					939,994	
148							
149	320000 SITE IMPROVEMENTS						
150	320000 SITE FURNISHINGS						
151	Bollards - concrete filled steel	13	ea	1,400.00	18,200		
152	Bollards - decorative metal	47	ea	2,800.00	131,600		
153	Wood decking	706	sf	80.00	56,480		
154	Benches - Ogden circular benches - allow	9	ea	5,000.00	45,000		
155	Concrete benches - allow	1	ea	8,000.00	8,000		
156	Flagpole - 40' Ht.	1	ea	10,000.00	10,000		
157	Flagpole foundation	1	ea	4,500.00	4,500		
158	Wood log seats - 3' long	50	ea	500.00	25,000		
159	Wood logs - 8'-16' long salvaged from trees on site	20	ea	2,500.00	50,000		
160	Trash and Recycling receptacles -Forms & Surfaces	6	ea	5,977.02	35,862		
161	Bike racks - Bola by landscape forms	25	ea	723.80	18,095		
162	Bird house - Habitats wings	1	ls	10,000.00	10,000		
163	Bee habitat - Habitats leaf	8	ea	973.70	7,790		
164	Outdoor classroom structure	1	ea	50,000.00	50,000		
165	Outdoor classroom benches - not drawn	1	ls	25,000.00	25,000		
166	Warming shelter	1	ls		Future		
167	Raised planters	18	ea	4,000.00	72,000		
168	Sign allowance	1	ls	25,000.00	25,000		
169	Shed allowance	1	ls	25,000.00	25,000		
170	Generator blast wall allowance	1	ls	15,000.00	15,000		
171	Boulders	55	ea	500.00	27,500		



Schematic Design Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITWORK							
172	Landscape curbing - granite	2,476	lf	120.00	297,120		
173	Bluestone stepping stones	111	ea	850.00	94,350		
174	<u>Playground - pour-in-place safety surfacing</u>	19,716	sf				
175	Crushed stone; 8" thick	489	cy	52.00	25,428		
176	Washed stone; 6" thick	365	cy	60.00	21,900		
177	Geotextiles	19,716	sf	0.55	10,844		
178	Pour-in-place safety surface	19,716	sf	26.00	512,616		
179	Edging - flush granite	892	lf	45.00	40,140		
180	Allowance for play equipment	1	ls	500,000.00	500,000		
181	320000 <u>ATHLETIC EQUIPMENT</u>						
182	<u>Softball</u>						
183	Softball home plate incl. clay bricks	1	ea	2,250.00	2,250		
184	Softball pitching rubber incl. clay bricks	1	ea	1,250.00	1,250		
185	Softball batters boxes	2	loc	500.00	1,000		
186	Softball foul poles	2	ea	3,600.00	7,200		
187	Softball backstop	2	ea	55,000.00	110,000		
188	Softball dugouts - canopy only allowance	2	ea	25,000.00	50,000		
189	Softball dugouts - players benches	6	ea	2,850.00	17,100		
190	Softball bullpen	2	loc	12,000.00	NIC		
191	Softball batting cages	1	loc	16,500.00	NIC		
192	320000 <u>SPORTS COURTS</u>						
193	<u>Basketball courts</u>	11,382	sf				
194	crushed stone; 12" thick	282	cy	52.00	14,664		
195	asphalt top; 1.5" thick	107	tns	200.00	21,400		
196	asphalt binder; 1.5" thick	107	tns	180.00	19,260		
197	Basketball hoops	6	ea	7,500.00	45,000		
198	Single basketball court color coating	2	loc	10,000.00	20,000		
199	Single half court color coating	2	loc	5,000.00	10,000		
200	320000 <u>FENCING</u>						
201	Safety netting at field - no detail	182	lf	240.00	43,680		
202	4' Ht - Chain link fence	329	lf	65.00	21,385		
203	12' Ht - Chain link fence	576	lf	200.00	115,200		
204	Dumpster enclosure	18	lf	325.00	5,850		
205	Double gate at dumpster enclosure	1	ea	3,500.00	3,500		
206	Barrier gate - per specs	2	ea	18,000.00	36,000		
207	SUBTOTAL					2,707,164	
208							
209	<u>Landscaping</u>						
210	329900 <u>LAWN AND SEED</u>						
211	Screen topsoil	14,000	cy	7.50	NR		
212	Export tailings from screening process - assume clean rock	4,200	cy	8.50	NR		
213	Amend/Place	9,800	cy	23.00	NR		
214	Imported topsoil - swell 25%	6,540	cy	60.00	392,400		
215	Soil and mulch at planting areas; 18" thick	2,071	cy	65.00	134,615		
216	Power rake and hydroseed disturbed areas	69,289	sf	0.35	24,251		
217	Bioswale/Raingarden seed mix	20,520	sf	0.35	7,182		
218	Conservation seed mix	202,639	sf	0.35	70,924		
219	First succession mix	3,466	sf	0.35	1,213		
220	Hardwood mix	4,984	sf	0.35	1,744		
221	Meadow mix	2,706	sf	0.35	947		
222	Pine mix	3,403	sf	0.35	1,191		
223	Culvert daylighting planting allowance	1,750	sf	10.00	17,500		
224	320000 <u>ATHLETIC LANDSCAPING</u>						
225	<u>Softball infield</u>	9,358	sf				
226	Infield mix	189	tn	225.00	42,525		



Schematic Design Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
SITWORK							
227	Fine grading	9,358	sf	0.25	2,340		
228	Sand gravel fill; 8" thick- reuse preload	229	cy	22.00	5,038		
229	Geotextiles	9,358	sf	0.55	5,147		
230	<u>Softball outfield</u>	151,164	sf				
231	Lawn seeding	151,164	sf	0.75	113,373		
232	Sports field topsoil import - swell 25%	5,249	cy	60.00	314,940		
233	Fine grading	151,164	sf	0.25	37,791		
234	Geotextiles	151,164	sf	0.55	83,140		
235	Irrigation	151,164	sf	1.75	264,537		
236	329900 TREES						
237	Planting Allowance:	1	ls	300,000.00	300,000		
238	Deciduous trees - 1.5'-2" cal.						Included Above
239	Deciduous trees - 3"-3.5" cal.						Included Above
240	Evergreen trees - 1.5" cal.						Included Above
241	Evergreen trees - 10-12' Ht.						Included Above
242	329900 SHRUBS						
243	Shrubs						Included Above
244	SUBTOTAL						1,820,798
245							
246	G30 CIVIL MECHANICAL UTILITIES						
247	210000 FIRE PROTECTION						
248	6" CLDI	827	lf	80.00	66,160		
249	12" CLDI	22	lf	150.00	3,300		
250	Fire department connection	1	ea	2,500.00	2,500		
251	Fire hydrant	1	ea	6,500.00	6,500		
252	Gate valve	2	ea	1,200.00	2,400		
253	331000 WATER UTILITIES						
254	1" Sch. 40 line	529	lf	28.00	14,812		
255	6" CLDI	821	lf	75.00	61,575		
256	331000 CONNECTIONS						
257	Connect to existing water line	3	ea	15,000.00	45,000		
258	312000 EXCAVATION & BACKFILL						
259	DI piping excavation/backfill (inside site)	1,648	lf	40.00	65,920		
260	Pressure test & chlorinate	1,648	lf	5.00	8,240		
261	Temp water	1	ls	10,000.00	10,000		
262	SUBTOTAL						286,407
263							
264	333000 SANITARY SEWER						
265	4" PVC	63	lf	50.00	3,150		
266	6" PVC	744	lf	55.00	40,920		
267	SMH	3	ea	4,500.00	13,500		
268	SMH - doghouse connection	1	ea	20,000.00	20,000		
269	Grease trap	1	ea	18,000.00	18,000		
270	Pump station	1	ea	100,000.00	100,000		
271	333000 CONNECTIONS						
272	Connect to existing (in roadway)	1	ea	10,000.00			incl. above
273	312000 EXCAVATION & BACKFILL						
274	PVC gravity piping excavation/backfill (inside site)	744	lf	40.00	29,760		
275	Pressure testing	744	lf	4.00	2,976		
276	Video Inspection	1	ls	10,000.00	10,000		
277	Grease trap; 5,000 gal. (e/b only) incl. shoring	1	ea	10,000.00	10,000		
278	Pump station	1	ea	10,000.00	10,000		
279	Temp sewer for phasing	1	ea	50,000.00			NR
280	SUBTOTAL						258,306
281							
282	334000 STORM DRAINAGE						
283	12" HDPE	4,471	lf	30.00	134,130		
284	8" PVC	139	lf	15.00	2,085		



Schematic Design Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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SITework

285	6" PVC	580	lf	12.00	6,960		
286	Playground under drains	1,700	lf	12.00	20,400		
287	8" Flex pipe - collector at field	1,148	lf	25.00	28,700		
288	Perf. Flat drains at field	7,241	lf	5.00	36,205		
289	DMH - 4' Dia.	2	ea	4,800.00	9,600		
290	AD	13	ea	2,500.00	32,500		
291	Bioretention overflow, 24" nyl0	5	ea	3,250.00	16,250		
292	CO	10	ea	850.00	8,500		
293	FES	2	ea	2,500.00	5,000		
294	FES - 6" playground	4	ea	850.00	3,400		
295	WQS	2	ea	15,000.00	30,000		
296	CB - 4' Dia.	5	ea	4,200.00	21,000		
297	Roof drain connections	1	ea	500.00	500		
298	Riprap	996	sf	15.00	14,940		
299	Concrete headwall	1	ls	50,000.00	50,000		
300	334000 CONNECTIONS						
301	Core existing culvert and connect	3	ea	20,000.00	60,000		
302	312000 EXCAVATION & BACKFILL						
303	Gravity piping excavation/backfill (inside site)	8,038	lf	30.00	241,140		
304	Trench bedding	893	cy	50.00	44,650		
305	Backfill w/existing fill material	4,466	cy	25.00	111,650		
306	Protect existing culvert	1	ls	20,000.00	20,000		
307	Temp drainage for phasing	1	ls	25,000.00		NR	
308	334000 SURFACE DRAINAGE SYSTEMS						
309	Bio retention/Rain Garden	7,047	sf				
310	shape basins	7,047	sf	3.25	22,903		
311	shape basins sidewalls	13,473	sf	3.25	43,787		
312	slope stabilization matting	13,473	sf	2.00	26,946		
313	mulch	65	cy	50.00	3,250		
314	24" Planting soil mix	522	cy	65.00	33,930		
315	12" Sand	261	cy	40.00	10,440		
316	4" Double washed pea stone	86	cy	50.00	4,300		
317	12" Pipe bedding	261	cy	40.00	10,440		
318	Rain garden turrets (RG-T)	6	ea	5,200.00	31,200		
319	Rain garden turrets (FH)	2	ea	6,800.00	13,600		
320	SUBTOTAL						1,098,406
321							
322	220001 NATURAL GAS					Assume NR	
323	SUBTOTAL						-
324							
325	G40 ELECTRICAL UTILITIES						
326	<u>Power</u>						
327	Power riser	2	ea	3,000.00	6,000		
328	Pad for future Eversource TX	1	ea	2,500.00	2,500		
329	Pad mount transformer	2	ea	2,500.00	5,000		
330	Primary and telecom ductbank 6-4"	350	lf	360.00	126,000		
331	Primary and telecom ductbank 8-4"	320	lf	480.00	153,600		
332	Primary ductbank 2-4"	750	lf	120.00	90,000		
333	Manhole	5	ea	12,500.00	62,500		
334	Secondary ductbank	90	lf	2,300.00	207,000		
335	Pump station 2" conduit w/control wiring	710	lf	32.00	22,720		
336	Pump station 3" conduit w/2 100A circuits per notes	710	lf	53.00	37,630		
337	Pump station control panel (FBO) wired & installed	1	ea	1,500.00	1,500		
338	Sewage pump station electrical requirements	1	ls	15,000.00	15,000		
339	Storage barn 100A panelboard & meter, 80A backfeed and grounding	1	ea	6,000.00	6,000		
340	Communication riser	1	ea	2,500.00	2,500		
341	Telcom ductbank 4-4"	151	lf	240.00	36,240		
342	125A barn building ductbank	150	lf	50.00	7,500		
343	Flag pole grounding	1	ea	1,000.00	1,000		



Schematic Design Cost Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
SITWORK								
344	Handhole	2	ea	2,500.00	5,000			
345	Handhole for future athletic field lighting	11	ea	800.00	8,800			
346	Irrigation controller feed and connection	1	ea	2,500.00	2,500			
347	Generator							
348	Generator ductbank	470	lf	320.00	150,400			
349	PV							
350	Future battery storage ductbank 3-4"	410	lf	80.00	32,800			
351	PV 3-4" ductbank	260	lf	80.00	20,800			
352	PV equipment cabinet & pad	1	ea	2,500.00	2,500			
353	PV equipment pad for future equipment	1	ea	2,500.00	2,500			
354	PV system handhole	3	ea	800.00	2,400			
355	Electric Vehicle Stations							
356	EVC 2-4" ductbank future	958	lf	45.00	43,110			
357	EVC system handhole for future station	7	ea	2,500.00	17,500			
358	Security							
359	Camera 2" w/fiber ductbank, 2" w/SB power & 2" for future	1,620	lf	70.00	113,400			
360	Camera 4k WP	4	ea	2,500.00	10,000			
361	Camera Circuit requirements for surveillance cabinet at ea pole 70A	1,640	lf	25.00	41,000			
362	<u>Site lighting</u>							
363	Future athletic field lighting ductbank 2-4"	1,470	lf	45.00	66,150			
364	Precast concrete lighting poles F&I by the EC	61	ea	400.00	24,400			
365	G1	36	ea	2,700.00	97,200			
366	G2	2	ea	3,400.00	6,800			
367	G3	23	ea	2,200.00	50,600			
368	G7	26	ea	500.00	13,000			
369	Site lighting circuitry 1.5" w/#6	4,884	lf	20.00	97,680			
370	Canopy lighting circuitry	901	lf	13.00	11,713			
371	<u>Site Demolition</u>							
372	Site demolition	1	ls	15,000.00	15,000			
373	SUBTOTAL					1,617,943		
374								
375	TOTAL - SITE DEVELOPMENT							\$12,515,136