



Somerset Middle School
New Construction
Somerset, MA

February 9, 2022

60% Construction Document Estimate

Reconciliation



Owner Project Manager:
CGA Project Management
187 Plymouth Avenue
Fall River, MA 02722
(508) 617 8236

Cost Consultant:
CHA Consulting, Inc.
1 Faneuil Hall Marketplace
South Market Bldg, Suite 4195
Boston, MA 02109
(617) 451 2717

Project Description:

The project consists of the construction of a new middle school in Somerset, MA
Project includes abatement and demolition of existing structures and the construction of a new school facility of approximately 124,200 total GSF of building Zones A, B, C and D
conventional concrete foundations and slab on grade, steel framed structure
brick/stone/cement fiber panels/precast concrete exterior facade, aluminum windows and curtainwalls, PVC flat roofing
interior program fit out; labs, classrooms, gymnasium, theater, music and Band

Site Development

site preparation, bulk earthwork, site utilities, exterior site improvements

Project Particulars:

60% Construction Documents dated February 18, 2022 prepared by Ai3
Detailed quantity takeoffs where possible from design documents and reports
CHA's project experience with similar projects of this nature
Bid and Construction Schedule
07/01/2022 - Anticipated Bid Date
08/01/2022 - Estimated Construction Start Date
06/30/2025 - Estimated Construction Finish Date
36 - Estimated Construction Duration (Months)



MAIN SUMMARY

ELEMENT			COST	COST/GSF
Hazardous Material Abatement			\$818,000	\$6.40
Building Demolition			\$749,400	\$5.86
New Building			\$49,292,493	\$396.88
Sitework			\$11,429,124	\$92.02
Direct Trade Details Subtotal			\$62,289,018	\$501.52
Design and Pricing Contingency	1.50%	\$62,289,018	\$935,000	\$7.53
Direct Trade Cost Total			\$63,224,018	\$509.05
General Conditions	6.00%	\$ 105,373 /MO	\$3,793,441	\$30.54
General Liability Insurance	1.25%	\$63,224,018	\$790,310	\$6.36
Performance and Payment Bonds	1.00%	\$63,224,018	\$632,250	\$5.09
Fee	2.00%	\$68,440,019	\$1,368,810	\$11.02
Estimated Construction Cost Total			\$69,808,829	\$562.07
Escalation from now to bid opening	2.00%	\$69,808,829	\$1,396,180	\$11.24
Estimated Construction Cost at Bid Opening			\$71,205,009	\$573.31

Project Assumptions:

The project will be procured by GC/Filed-Sub Bid as per MGL Chapter 149 bidding process
Our costs assume that there will be at least three subcontractors submitting unrestricted bids in each trade bid category
Unit rates are escalated to mid-point of construction duration and utilize prevailing wage labor rates
Lay-down/storage area, jobsite shed and trailers, and construction site entrance will be located adjacent to Project area
Noise and vibration disturbances are anticipated and will be minimized or avoided during normal business hours
Temporary electrical and water site utility connections will be available. General Conditions value includes utility connections and consumption costs
Existing water pressure is adequate
Subcontractor's markups are included in each unit rate. These markups cover field and home office overhead and subcontractor's profit
Design and Pricing Contingency markup is an allowance for unforeseen design issues, design detail development and specification clarifications during the design period
Escalation is included based on the assesment of current commercial construction market conditions.

Construction Cost Estimate Exclusions:

Work beyond the boundary of the site
Architectural/Engineering; Designer and other Professional fees, testing, printing, surveying
Owner's administration; legal fees, advertising, permitting, Owner's insurance, administration, interest expense
Project costs; utility company back charges prior to construction, construction of swing space and temporary facilities, program related phasing, relocation
Owner furnished and installed products (FF&E); computer networking, desks, chairs, furnishings, equipment and artwork
Utility company back charges
Third Party testing & commissioning
Wetlands protection or restoration
Building permit fees

DIRECT TRADE COST SUMMARY

ELEMENT	COST	COST/GSF
A1010 Standard Foundations	\$2,520,510	\$20.29
A1030 Slab on Grade	\$2,189,493	\$17.63
A10 FOUNDATIONS	\$4,710,003	\$37.92
B1010 Floor Construction	\$2,047,834	\$16.49
B1020 Roof Construction	\$2,997,568	\$24.14
B10 SUPERSTRUCTURE	\$5,045,401	\$40.62
B2010 Exterior Walls	\$4,911,530	\$39.55
B3010 Exterior Windows	\$1,845,698	\$14.86
B3040 Exterior Doors and Grilles	\$308,730	\$2.49
B20 Exterior Enclosure	\$7,065,958	\$56.89
B4010 Roofing	\$2,041,711	\$16.44
B4020 Roof Appurtenances	\$157,235	\$1.27
B40 Exterior Horizontal Enclosures	\$2,198,946	\$17.70
C1010 Interior Partitions	\$3,659,668	\$29.47
C1020 Interior Windows	\$361,225	\$2.91
C1030 Interior Doors	\$996,639	\$8.02
C1040 Interior Grilles and Gates	\$66,250	\$0.53
C1090 Interior Specialties	\$1,323,272	\$10.65
C10 Interior Construction	\$6,407,055	\$51.59
C2010 Stair Construction	\$374,952	\$3.02
C2010 Wall Finishes	\$785,199	\$6.32
C2020 Interior Fabrications	\$158,850	\$1.28
C2030 Flooring	\$1,255,152	\$10.11
C2040 Stair Finishes	\$44,950	\$0.36
C3030 Ceiling Finishes	\$1,809,015	\$14.57
C20 Interior Finishes	\$4,428,117	\$35.65
D10 Conveying	\$196,820	\$1.58
D20 Plumbing	\$2,326,225	\$18.73
D30 HVAC	\$6,742,806	\$54.29
D40 Fire Protection	\$745,625	\$6.00
D50 Electrical	\$6,140,607	\$49.44
D Services	\$16,152,083	\$130.05
E1060 Residential Equipment	\$49,750	\$0.40
E1090 Other Equipment	\$1,845,615	\$14.86
E10 Equipment	\$1,895,365	\$15.26

**DIRECT TRADE COST SUMMARY**

ELEMENT	COST	COST/GSF
E2010 Fixed Furnishings	\$1,389,565	\$11.19
E20 Furnishings	\$1,389,565	\$11.19
F2000 Building Demolition	\$749,400	\$6.03
F2020 Hazardous Components Abatement	\$818,000	\$6.59
F20 Selective Building Demolition	\$1,567,400	\$12.62
G1010 Site Clearing	\$309,143	\$2.49
G1020 Site Demolition and Relocations	\$339,351	\$2.73
G1030 Site Earthwork	\$1,787,641	\$14.39
G10 SITE PREPARATION	\$2,436,135	\$19.61
G2000 Paving and Surfacing	\$1,742,943	\$14.03
G2040 Site Development	\$2,529,640	\$20.37
G2050 Landscaping	\$835,824	\$6.73
G20 SITE IMPROVEMENTS	\$5,108,407	\$41.13
G3010 Water Supply	\$478,955	\$3.86
G3020 Sanitary Sewer	\$144,825	\$1.17
G3030 Storm Sewer	\$2,317,873	\$18.66
G3060 Fuel Distribution	\$17,675	\$0.14
G40 Site Electrical Utilities	\$925,253	\$7.45
G30 SITE MECHANICAL UTILITIES	\$3,884,581	\$31.28
Direct Trade Details Subtotal	\$62,289,018	\$501.52

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
8 A10 FOUNDATIONS				
9				
10 A1010 Standard Foundations				
11 31 00 00 Earthwork				
12 Exterior strip footings and foundation walls:				
13 excavation, stockpile	805	CY	\$14.00	\$11,271
14 backfill with imported material	642	CY	\$33.00	\$21,194
15 disperse excess soils on site	805	CY	\$15.00	\$12,076
16 perimeter foundation drain system	1,803	LF	\$20.00	\$36,062
17 Retaining foundation footings and walls:				
18 excavation, stockpile	659	CY	\$14.00	\$9,230
19 backfill with imported material	360	CY	\$33.00	\$11,893
20 disperse excess soils on site	659	CY	\$15.00	\$9,890
21 perimeter foundation drain system	223	LF	\$20.00	\$4,456
22 Interior strip footings and foundation walls:				
23 excavation, stockpile	26	CY	\$14.00	\$367
24 backfill with imported material	7	CY	\$33.00	\$235
25 disperse excess soils on site	26	CY	\$15.00	\$393
26 Exterior spread footings				
27 excavation, stockpile	1,211	CY	\$14.00	\$16,960
28 backfill with imported material	894	CY	\$33.00	\$29,492
29 disperse excess soils on site	1,211	CY	\$15.00	\$18,171
30 Interior spread footings				
31 excavation, stockpile	528	CY	\$14.00	\$7,396
32 backfill with imported material	47	CY	\$33.00	\$1,558
33 disperse excess soils on site	528	CY	\$15.00	\$7,924
34 Exterior spread footings - Outbuilding in Sitework				
35 excavation, stockpile	126	CY	\$14.00	w/ Sitework
36 backfill with imported material	116	CY	\$33.00	\$0
37 disperse excess soils on site	126	CY	\$15.00	\$0
38 Allowance for rock excavation	323	CY	\$75.00	\$24,227
39 Dewatering; allow	120	DAY	\$450.00	\$54,000
40				
41 03 30 00 Cast-in-Place Concrete				
42 foundation concrete volume total	2,051	CY		
43 foundation rebar weight total	337,256	LBS		
44 Perimeter wall, strip footings to exterior				
45 formwork	3,623	SF	\$15.00	\$54,349
46 keyways	1,803	LF	\$3.00	\$5,409
47 rebar, #4	6,736	LBS	\$1.90	\$12,797
48 concrete supply; 4,500 psi	164	CY	\$158.00	\$25,939
49 concrete placing, pump	164	CY	\$85.00	\$13,954

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
50 <i>Perimeter building wall, exterior foundation wall</i>	1,803	LF		
51 formwork	14,493	SF	\$18.00	\$260,876
52 brick shelf	1,803	LF	\$6.00	\$10,819
53 rebar, #5	67,721	LBS	\$1.90	\$128,669
54 concrete supply; 4,500 psi	376	CY	\$158.00	\$59,438
55 concrete placing, pump	376	CY	\$85.00	\$31,976
56 <i>Retaining foundation walls, strip footings</i>	354	LF		
57 formwork	1,375	SF	\$15.00	\$20,621
58 keyways	354	LF	\$3.00	\$1,063
59 rebar, #4, #5, #6, #9	45,144	LBS	\$1.90	\$85,773
60 concrete supply; 4,500 psi	299	CY	\$158.00	\$47,231
61 concrete placing, pump	299	CY	\$85.00	\$25,409
62 <i>Retaining foundation walls, walls</i>	354	LF		
63 formwork	10,448	SF	\$20.00	\$208,951
64 brick shelf	223	LF	\$6.00	\$1,337
65 rebar, #5, #6, #9	60,838	LBS	\$1.90	\$115,592
66 concrete supply; 4,500 psi	379	CY	\$158.00	\$59,925
67 concrete placing, pump	379	CY	\$85.00	\$32,238
68 Interior wall, strip footing - auditorium; main level zone C	217	LF		
69 formwork	434	SF	\$15.00	\$6,503
70 keyways	217	LF	\$3.00	\$650
71 rebar, #4, #5	1,320	LBS	\$1.90	\$2,508
72 concrete supply; 4,500 psi	19	CY	\$158.00	\$3,012
73 concrete placing, pump	19	CY	\$85.00	\$1,620
74 Interior wall, wall, auditorium; main level zone C	217	LF		
75 formwork	967	SF	\$18.00	\$17,407
76 rebar, #4, #5	4,188	LBS	\$1.90	\$7,957
77 concrete supply; 4,500 psi	14	CY	\$158.00	\$2,234
78 concrete placing, pump	14	CY	\$85.00	\$1,202
79 Exterior column footings, F4 - F11; 2' - 0 / 2' - 6" thick	91	EA		
80 formwork	4,849	SF	\$15.00	\$72,742
81 rebar #5, #6, #7, #9, #10	55,284	LBS	\$1.90	\$105,041
82 concrete supply; 4,500 psi	318	CY	\$158.00	\$50,202
83 concrete placing, pump	318	CY	\$85.00	\$27,008
84 Interior column footings, F6 - F12; 2' - 0 / 2' - 6" thick	104	EA		
85 formwork	6,451	SF	\$15.00	\$96,765
86 rebar #6, #7, #9, #10, #11	96,026	LBS	\$1.90	\$182,450
87 concrete supply; 4,500 psi	481	CY	\$158.00	\$76,013
88 concrete placing, pump	481	CY	\$85.00	\$40,893
89 Integrated/isolated pier	195	EA	\$750.00	\$146,250
90 Column base plate setting anchor bolts grout plates	195	SET	\$175.00	\$34,125

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
91 <i>Perimeter footing & wall, outbuilding footing in Sitework</i>	111	LF		w/ Sitework
92 formwork	222	SF	\$15.00	\$0
93 rebar, #4	413	LBS	\$1.90	\$0
94 concrete supply; 4,500 psi	10	CY	\$158.00	\$0
95 concrete placing, pump	10	CY	\$85.00	\$0
96 <i>Perimeter footing & wall, outbuilding wall in Sitework</i>	111	LF		
97 formwork	889	SF	\$18.00	\$0
98 brick shelf	111	LF	\$6.00	\$0
99 rebar, #5	4,137	LBS	\$1.90	\$0
100 concrete supply; 4,500 psi	23	CY	\$158.00	\$0
101 concrete placing, pump	23	CY	\$85.00	\$0
102 Wall steps/step footings, misc locations	12	LOC	\$2,000.00	\$24,000
103 Inserts, sleeves, penetrations through foundation/retaining walls	5	LOC	\$1,600.00	\$8,000
104 Concrete formwork general requirements and misc work				NIC
105				
106 07 00 01* Waterproofing, Dampproofing and Caulking				
107 Dampproofing; exterior strip foundation wall & footing	10,011	SF	\$4.50	\$45,049
108 Dampproofing; strip retaining foundation wall & footing	8,180	SF	\$4.50	\$36,809
109 Dampproofing; exterior strip foundation wall & footing - outbuilding in S	611	SF	\$4.50	w/ Sitework
110				
111 07 21 00 Thermal Insulation				
112 Rigid insulation; perimeter foundation walls at exterior	7,281	SF	\$2.70	\$19,658
113 Rigid insulation; retaining foundation walls	3,242	SF	\$2.70	\$8,754
114 Rigid insulation; under slab on grade, 4' - 0 wide	8,629	SF	\$2.70	\$23,299
115 Rigid insulation; perimeter foundation walls at exterior - outbuilding	444	SF	\$2.70	\$1,200
116 Rigid insulation; under slab on grade - outbuilding in Sitework	729	sf	\$3.70	w/ Sitework
117 A1010 Standard Foundations Total				\$2,520,510
118				
119 A1030 Slab on Grade				
120 31 00 00 Earthwork				
121 Imported structural fill 12"; 8" gravel base course	4,970	CY	\$35.00	\$173,950
122 Fill, imported materials for building level 01 SOG elevation	15,514	CY	\$35.00	\$542,990
123 Export excess materials	10,014	CY	\$44.00	\$440,616
124 Under slab plumbing pipe trenching, bedding, backfill	2,217	LF	\$44.00	\$97,548
125 Elevator pit earthwork	1	EA	\$7,500.00	\$7,500
126 12" structural imported fill, 8" gravel base course - outbuilding in Sitework	50	CY	\$35.00	w/ Sitework
127				



DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
128 03 30 00 Cast-in-Place Concrete				
129 Slab on grade; 5" thick	80,367	SF		
130 vapor barrier, 15% laps	92,422	SF	\$1.00	\$92,422
131 WWF mesh, 15% laps	92,422	SF	\$1.20	\$110,907
132 concrete supply and pump; 4,000 psi	1,313	CY	\$163.00	\$214,019
133 concrete place, screed, protect	80,367	SF	\$3.40	\$273,248
134 continuous haunch at edges of SOG at perimeter and interior walls	2,646	LF	\$16.00	\$42,331
135 rebar #4 at SOG at perimeter and interior walls	9,723	LBS	\$1.90	\$18,474
136 thickening to SOG at auditorium	142	LF	\$16.00	\$2,264
137 recess in slab/floor depression for walk-off mat grate & other locations	622	LF	\$5.75	\$3,577
138 slab control joints - saw cut	80,367	SF	\$0.50	\$40,184
139 slab isolation joints around columns	1,560	LF	\$5.50	\$8,580
140 slab perimeter joints	2,081	LF	\$4.50	\$9,363
141 steps, reinforced on geoform fill	4	RSRS	\$1,000.00	\$4,000
142 assembly stair bottom foundation	26	LF	\$264.25	\$6,804
143 expansion joint	157	LF	\$120.00	\$18,890
144 Slab premium for sloped/tiered; Auditorium	4,283	GSF	\$10.00	\$42,826
145 Elevator pit concrete	1	EA	\$10,000.00	\$10,000
146 Grease interceptor, complete	1	EA	\$8,000.00	w/ Plumbing
147 Equipment pads, interior, SOG, allowance	400	SF	\$35.00	\$14,000
148 Trench drain, formwork and encasement	300	LF	\$35.00	\$10,500
149 Slab on grade; 5" thick - outbuilding in Sitework	729	SF		w/ Sitework
150 vapor barrier, 15% laps	838	SF	\$1.00	\$0
151 WWF mesh, 15% laps	838	SF	\$1.20	\$0
152 concrete supply and pump; 4,000 psi	12	CY	\$163.00	\$0
153 concrete place, screed, protect	729	SF	\$3.40	\$0
154 continuous haunch at edges of SOG at perimeter and interior walls	111	LF	\$16.00	\$0
155 slab control joints - saw cut	729	SF	\$0.50	\$0
156 slab perimeter joints	111	LF	\$4.50	\$0
157 Concrete flatwork general requirements and misc work				NIC
158				
159 07 00 01* Waterproofing, Dampproofing and Caulking				
160 Elevator pit; waterproofing	1	EA	\$4,500.00	\$4,500
161 A1030 Slab on Grade Total				\$2,189,493
162				
163				

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
164 B10 SUPERSTRUCTURE				
165				
166 <i>steel weight total - floor & roof</i>	728	TNS		
167 B1010 Floor Construction	<i>11 psf of susp. slab</i>			
168 03 30 00 Cast-in-Place Concrete				
169 <i>Slab topping 2½" on metal deck; 4½" thick assembly</i>	46,895	SF		
170 WWF mesh, 15% laps	53,930	SF	\$1.20	\$64,716
171 concrete supply and pump, 4,000 psi	532	CY	\$150.75	\$80,185
172 concrete place, screed, protect	46,895	SF	\$3.00	\$140,686
173				
174 05 12 00 Structural Steel Framing				
175 Steel beams and columns in floor framing - W-sections	153	TNS	\$4,800.00	\$734,179
176 Steel beams and columns in floor framing - HSS-sections	58	TNS	\$5,200.00	\$302,502
177 premium for additional long span construction	9	TNS	\$3,800.00	\$34,874
178 premium for AESS; exterior façade	14	TNS	\$650.00	\$8,804
179 Braced frames - HSS-sections	25	TNS	\$5,200.00	\$131,169
180 Fittings-miscellaneous structural clips & angles, shims, bolts, plates, welds, etc. (assume 7 1/2%)	18	TNS	\$4,800.00	\$85,087
181 Moment connections	17	EA	\$650.00	\$11,050
182 Beam penetrations, locations TBD	40	EA	\$550.00	\$22,000
183 Shear studs; , (20 per 100sf)	9,380	EA	\$6.20	\$58,156
184				
185 05 30 00 Metal Decking				
186 Galvanized composite steel floor deck, 2"x18 ga	46,895	SF	\$3.50	\$164,134
187 Pour stop	3,084	LF	\$35.80	\$110,386
188 Deck closure	3,084	LF	\$10.00	\$30,842
189				
190 07 84 00 Firestopping				
191 Intumescent coating to steel beam and column	254	TNS	\$750.00	NIC
192 Firestopping	46,895	GSF	\$1.30	\$60,964
193				
194 07 95 13 Expansion Joints				
195 Expansion joint, floors	108	LF	\$75.00	\$8,100
196 B1010 Floor Construction Total				\$2,047,834
197				
198 B1020 Roof Construction	<i>11 psf of roof</i>			
199 03 30 00 Cast-in-Place Concrete				
200 <i>Slab topping 4" on metal deck; 7" thick assembly - eqpt. pad RTUs</i>	5,712	SF		
201 WWF mesh, 15% laps	6,569	SF	\$1.20	\$7,882
202 concrete supply and pump, 4,000 psi	102	CY	\$150.75	\$15,347
203 concrete place, screed, protect	5,712	SF	\$3.00	\$17,136
204				

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
205 05 12 00 Structural Steel Framing				
206 Steel beams and columns in floor framing - W-sections	253	TNS	\$4,800.00	\$1,212,645
207 Steel beams and columns in floor framing - HSS-sections	117	TNS	\$5,200.00	\$607,813
208 premium for AESS; exterior façade	15	TNS	\$650.00	\$9,612
209 Roof joists, long span; LH-seies	34	TNS	\$4,800.00	\$165,038
210 Braced frames - HSS-sections	37	TNS	\$5,200.00	\$192,014
211 Fittings-miscellaneous structural clips & angles, shims, bolts, plates, welds, etc. (assume 7 1/2%)	33	TNS	\$4,800.00	\$160,545
212 Steel framing to outdoor building in Sitework	5	TNS	\$4,800.00	w/ Sitework
213 Moment connections	13	EA	\$650.00	\$8,450
214 Shear studs; , (20 per 100sf)	1,140	EA	\$6.20	\$7,068
215				
216 05 30 00 Metal Decking				
217 Galvanized steel roof deck 3" x 20 ga	70,503	SF	\$3.75	\$264,385
218 Galvanized acoustic steel roof deck 3" x 18/20 ga - Gym	7,830	SF	\$7.50	\$58,722
219 Galvanized composite steel roof deck 3"x16 ga	5,712	SF	\$4.00	\$22,847
220 Galvanized steel roof deck 1 1/2" x 20 ga	1,693	SF	\$3.00	\$5,080
221 Galvanized steel roof deck 3" x 20 ga - outbuilding in Sitework	733	SF	\$3.75	w/ Sitework
222 Cont. bent plate and angles	3,078	LF	\$37.00	\$113,879
223				
224 07 84 00 Firestopping				
225 Intumescent coating to steel beam and column	479	TNS	\$750.00	NIC
226 Firestopping	85,738	GSF	\$1.30	\$111,459
227				
228 07 95 13 Expansion Joints				
229 Expansion joint, roof	235	LF	\$75.00	\$17,644
230 B1020 Roof Construction Total				\$2,997,568
231				
232				
233 B20 EXTERIOR ENCLOSURE				
234				
235 B2010 Exterior Walls	52,559	SF		
236 Exterior wall construction (studs, insulation, ABV, sheathing)	52,559	SF	\$32.00	\$1,681,889
237 Interior of exterior wall; 1 layer 5/8" GWB	52,559	SF	\$3.50	\$183,957
238 Paint new GWB wall	52,559	SF	\$1.00	\$52,559
239 Exterior façade;	52,559	SF		
240 Facing brick	12,950	SF	\$38.00	\$492,100
241 Natural stone thin veneer base	6,160	SF	\$70.00	\$431,200
242 Natural stone thin veneer at column	31	EA	\$840.00	\$26,040
243 Precast concrete cap, sill/head	1,462	LF	\$32.00	\$46,784
244 Cement fiber wall panel system	21,400	SF	\$35.00	\$749,000
245 Glass fiber reinforced plaster - painted	5,054	SF	\$55.00	\$277,970
246 Glass fiber reinforced plaster column cover -painted	219	LF	\$300.00	\$65,700
247 Fabricated GFRP exterior cornice	2,959	LF	\$40.00	\$118,356

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
248 GFRP soffit	6,514	SF	\$53.00	\$345,242
249 Paint GFRP	17,210	SF	\$1.50	\$25,816
250 GFRP Beam & Trellis; Main entry, lobby and connecting spine	4,514	SF	\$45.00	NIC
251 Misc. metals to exterior closure	23	TNS	\$3,800.00	\$87,400
252 Caulking and sealant, exterior closure	13,190	LF	\$7.75	\$102,223
253 ACT 22, Exterior Grade	2,410	SF	\$35.00	\$84,350
254 Exterior mounted building school signage	1	LS	\$25,000.00	\$25,000
255 Mockup	1	LS	\$50,000.00	\$50,000
256 Staging/lifts/access, all areas of work	65,946	SF	\$1.00	\$65,946
257 B2010 Exterior Walls Total				\$4,911,530
258				
259 B3010 Exterior Windows	12,260	SF		
260 Exterior alum windows w/operable	3,417	SF	\$95.00	\$324,615
261 Aluminum storefront frame	5,423	SF	\$105.00	\$569,415
262 Aluminum curtain wall system	3,400	SF	\$115.00	\$391,000
263 Metal louvers	20	SF	\$65.00	\$1,300
264 Security rated glazing premium	3,840	SF	\$40.00	\$153,600
265 Ballistic rated glazing premium, select locations	300	SF	\$200.00	\$60,000
266 <i>Sunscreen</i>				
267 Horizontal aluminum sunshade; type B1, 1' - 0 wide	279	LF	\$200.00	\$55,750
268 Horizontal aluminum sunshade; type B2, 1' - 6" wide	144	LF	\$300.00	\$43,050
269 Horizontal aluminum sunshade; type B3, 2' - 0 wide	477	LF	\$400.00	\$190,932
270 Vertical sunshade; type A2, 3'-0 wide attached to CW system	103	SF	\$300.00	\$30,750
271 Rough carpentry/wood blocking at openings	3,065	LF	\$8.25	\$25,286
272 B3010 Exterior Windows Total				\$1,845,698
273				
274 B3040 Exterior Doors and Grilles				
275 08 11 00 Metal Doors and Frames				
276 Doors, double leaf				
277 Type EE, 2-panel door aluminum, PR 3' - 0 x 7' - 0	1	PRS	\$5,500.00	\$5,500
278 08 11 13 Hollow Metal Doors and Frames				
279 <u>Doors, hollow metal, galvanized</u>				
280 Doors, single leaf				
281 Type A, 3' - 0 x 7' - 0	4	LEAF	\$950.00	\$3,800
282 Type A, 3' - 6" x 7' - 0	4	LEAF	\$1,100.00	\$4,400
283 Doors, double leaf				
284 Type AA, PR3' - 0 x 7' - 0	1	PRS	\$1,600.00	\$1,600
285 <u>Frames, hollow metal, galvanized</u>				
286 Type F01.01, 3' - 4" x 7' - 2"	8	EA	\$380.00	\$3,040
287 Type F02.01, 6' - 4" x 7' - 2"	1	EA	\$440.00	\$440

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
288 08 30 00 Specialty Doors and Frames				
289 Doors, single leaf				
290 Type E, 3' - 0 x 7' - 0, 2-panel door	8	LEAF	\$5,500.00	\$44,000
291 Doors, double leaf				
292 Type EE 2-panel door, 3' - 0 x 7' - 0 double	16	PRS	\$11,000.00	\$176,000
293 08 33 00 Coiling Doors and Grilles				
294 Type OHC1 overhead coiling door, 10' - 0 x 10' - 0	2	EA	\$7,500.00	\$15,000
295 08 33 23 Overhead Doors				
296 Type OH2 overhead door, 10' - 0 x 9' - 0, inc louver	2	EA	\$8,550.00	\$17,100
297 08 41 13 Aluminum-Framed Entrances and Storefront				
298 Aluminum storefront, frames and glazing system at doors				
299 Type CW01.01, 14' - 1" x 21' - 8" in Exterior Windows				w/ Ext Wdws
300 Type CW02.01, 6' - 5" x 38' - 4" in Exterior Windows				w/ Ext Wdws
301 <u>Hardware</u>				
302 Typical door hardware to doors	34	SET	\$850.00	\$28,900
303 Special hardware requirements based on usage-security	1	LS	\$7,300.00	\$7,300
304 <u>Miscellaneous</u>				
305 Paint HM frames, exterior	9	EA	\$100.00	\$900
306 Paint HM doors, exterior	10	LEAF	\$75.00	\$750
307 B3040 Exterior Doors and Grilles Total				\$308,730
308				
309				
310 B40 EXTERIOR HORIZONTAL ENCLOSURES				
311				
312 B4010 Roofing				
313 PVC single ply membrane roofing on recovery board; incl. vapor retarder				
314 Roofing, new, main bldg	84,044	SF	\$12.50	\$1,050,554
315 Roofing, new, entrance canopies	1,693	SF	\$12.50	\$21,166
316 Roofing, new, main bldg, Art Outdoor in Sitework				w/ Sitework
317 Rigid insulation, tapered, roof	85,738	SF	\$5.00	\$428,688
318 Abutment of flat roof with adjacent walls	1,074	LF	\$16.00	\$17,188
319 Factory fabricated fascia roof edge trim	3,224	LF	\$25.00	\$80,588
320 Exposed aluminum finish metal below fascia trim / roof Edge	3,224	LF	\$40.00	\$128,941
321 Roof drain flashing	46	EA	\$250.00	\$11,500
322 Roof through wall flashings	3,224	LF	\$15.00	\$48,353
323 Flashing at roof elevations variances	1,074	LF	\$25.00	\$26,857
324 Flashing at roof MEP equipment locations; allow	1	LS	\$12,000.00	\$12,000
325 Flashing at roof MEP piping/conduits locations	1	LS	\$15,600.00	\$15,600
326 Walkway pads, locations	3,396	SF	\$5.00	\$16,980
327 Rough carpentry/wood blocking to roof	17,191	LF	\$8.50	\$146,126
328 Misc roofing requirements for other trade coordination	1	LS	\$37,170.00	\$37,170
329 B4010 Roofing Total				\$2,041,711
330				

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
331 B4020 Roof Appurtenances				
332 Stainless steel guardrail system w/ stainless steel tube infill				NIC
333 Elevator vent	1	LS	\$3,000.00	\$3,000
334 Metal-framed skylight, sloped area	998	SF	\$150.00	\$149,735
335 Roof scuttle /hatch, ladder, allow	1	LS	\$4,500.00	\$4,500
336 B4020 Roof Appurtenances Total				\$157,235
337				
338				
339 C10 INTERIOR CONSTRUCTION				
340				
341 C1010 Interior Partitions	155,358	SF		
342 Partition walls				
343 Type GD; 1 layer 3 5/8" metal studs both sides, 2 layers 5/8" GWB both sides, insulation both sides; STC 60	583	SF	\$26.40	\$15,391
344 Type F3; 3 5/8" metal studs, 2 layers 5/8" GWB both sides, insulation; 2HR rated	954	SF	\$28.25	\$26,951
345 Type F6; 6" metal studs, 2 layers 5/8" GWB both sides, insulation; 2HR rated	239	SF	\$30.00	\$7,155
346 Type F23; 1 layer 3 5/8" metal studs both sides, 2 layers 5/8" GWB both sides, insulation both sides; 2 HR rated	1,988	SF	\$29.06	\$57,762
347 Type G3; 3 5/8" metal studs, 1 layer 5/8" GWB both sides, insulation	15,132	SF	\$16.00	\$242,104
348 Type G4; 3 5/8" metal studs, 1 layer 5/8" GWB both sides, insulation	384	SF	\$16.00	\$6,148
349 Type G6; 6" metal studs, 1 layer 5/8" GWB both sides, insulation	4,757	SF	\$17.19	\$81,757
350 Type GA7; 3 5/8" metal studs, 2 layers 5/8" GWB one side, 1 layer 5/8" GWB other side. insulation; STC50	1,338	SF	\$21.00	\$28,103
351 Type F13; 1 layer 3 5/8" metal studs both sides, 1 layer 5/8" GWB both sides, insulation both sides; 1 HR rated	1,590	SF	\$22.00	\$34,980
352 Type GA3; 3 5/8" metal studs, 2 layers 5/8" GWB both sides, insulation; STC 50	9,222	SF	\$20.10	\$185,362
353 Type GA4; 3 5/8" metal studs, 2 layers 5/8" GWB one side, 1 layer 5/8" GWB other side. insulation; STC45	12,972	SF	\$16.80	\$217,925
354 Type GA6; 6" metal studs, 2 layers 5/8" GWB both sides, insulation; STC 50	1,471	SF	\$22.14	\$32,559
355 Type GA7; 6" metal studs, 2 layers 5/8" GWB one side, 1 layer 5/8" GWB other side. insulation; STC45	12,853	SF	\$17.83	\$229,096
356 Type GB; 1 layer 3 5/8" metal studs both sides, 1 layer 5/8" GWB both sides, insulation both sides; STC 53	22,724	SF	\$18.40	\$418,117
357 Type GD; 1 layer 3 5/8" metal studs both sides, 2 layers 5/8" GWB both sides, insulation both sides; STC 60	2,001	SF	\$26.40	\$52,820
358 Type GF3; 3 5/8" metal studs, 1 layer 5/8" GWB one side, insulation	27,308	SF	\$9.78	\$266,938
359 Type GF4; 3 5/8" metal studs, 2 layers 5/8" GWB one side, insulation	6,016	SF	\$12.94	\$77,826
360 Type GF5; 6" metal studs, 1 layer 5/8" GWB one side, insulation	7,208	SF	\$12.94	\$93,254
361 Type GF6; 6" metal studs, 2 layers 5/8" GWB one side, insulation	2,332	SF	\$14.00	\$32,642
362 Type GF7; 6" metal studs, 2 layers 5/8" GWB both sides, insulation	1,564	SF	\$24.00	\$37,524

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
363 Type GIB; 1 layer 3 5/8" metal studs both sides, 1 layer 5/8" GWB both sides, 1 layer 1/2" fr plywood one side, insulation both sides	7,208	SF	\$37.00	\$266,696
364 Type GP; 1 layer 3 5/8" metal studs both sides, 2 layers 5/8" GWB both sides, insulation one side; STC 60	2,531	SF	\$23.40	\$59,226
365 Type S2; 2 1/2" C-H metal studs, 2 layers 5/8" GWB one side, 1 layer 1" GWB shaft liner panel other side	2,292	SF	\$16.68	\$38,223
366 Type 8.2; 8" CMU, shaft wall elevator; 2HR rated	2,174	SF	\$27.50	\$59,779
367 Type 8.2; 8" CMU partition; 2HR rated	2,099	SF	\$27.50	\$57,719
368 Type 6; 6" CMU partition	1,762	SF	\$22.00	\$38,754
369 Type undefined/misc conditions	4,661	SF	\$21.07	\$98,223
370 Misc. metals for interior partitions and openings	30	TNS	\$2,900.00	\$87,000
371 Wood blocking for millwork and wall attached accessories	120	DAY	\$1,086.00	\$130,320
372 Wood blocking for interior door frames and interior SF systems	60	DAY	\$1,086.00	\$65,160
373 Sealants & caulking at interior walls	90	DAY	\$854.00	\$76,860
374 Sealants & caulking for interior door frames and interior SF systems	80	DAY	\$854.00	\$68,320
375 Column enclosures/wraps	3,200	SF	\$15.00	\$48,000
376 Wire mesh partition 9'h w/ceilings @ Student Gear Storage	675	SF	\$35.00	\$23,625
377 wire mesh door, single	4	EA	\$500.00	\$2,000
378 <i>C1090.70 Bullet Resistant Panels</i>				
379 Bullet resistant panel assume at Main Lobby; allow	1,000	SF	\$50.00	\$50,000
380 <i>C1090.60 Operable Glass Partitions</i>				
381 008 6th Grade Project Lab, Operable Partition	25	LF	\$950.00	\$23,750
382 108 7th Grade Project Lab, Operable Partition	25	LF	\$950.00	\$23,750
383 183 Auditorium, vertical partition	56	LF	\$3,600.00	\$201,600
384 198A/B OT/PT, Operable Partition	25	LF	\$2,200.00	\$55,000
385 208 8th Grade Project Lab, Operable Partition	25	LF	\$950.00	\$23,750
386 251-253 Art, Operable Partition	0	LF	\$950.00	\$0
387 integrated pass doors at operable partitions	7	EA	\$2,500.00	\$17,500
388 Type ICW01.01, 21' - 2" x 22' - 4"	450	SF	\$125.00	w/ Int Wdws
389 Type ICW02.01, 17' - 0 1/2" x 20' - 6 1/2"	310	SF	\$125.00	w/ Int Wdws
390 C1010 Interior Partitions Total				\$3,659,668
391				
392 C1020 Interior Windows				
393 <i>Interior aluminum storefront, frames and glazing - Part of Exterior Storefront System</i>				
394 SF01.01, 3670 w TR 20"W	1	EA	\$240.00	\$0
395 SF01.01, glazing in frames	6	SF	\$55.00	\$0
396 SF02.01, 057x90 w 24" SL and 20" TR	2	EA	\$900.00	\$0
397 SF02.01, glazing in frames	45	SF	\$55.00	\$0
398 SF02.02, 0709 w 42" SL and 20" TR	4	EA	\$1,440.00	\$0
399 SF02.02, glazing in frames	144	SF	\$55.00	\$0
400 SF03.01, 0604x90 w 20" TR	5	EA	\$456.00	\$0
401 SF03.01, glazing in frames	57	SF	\$55.00	\$0
402 SF04.01, 810x90 w 28" SL and 20" TR	1	EA	\$1,240.00	\$0
403 SF04.01, glazing in frames	31	SF	\$55.00	\$0

DIRECT TRADE COST DETAILS

ELEMENT		QUANTITY	UNIT	UNIT RATE	COST
404	SF05.01, 147x90 w 96" SL and 20" TR	1	EA	\$2,480.00	\$0
405	SF05.01, glazing in frames	62	SF	\$55.00	\$0
406	SF06.01, 0690 w 2-15" SL and 20" TR	1	EA	\$1,120.00	\$0
407	SF06.01, glazing in frames	28	SF	\$55.00	\$0
408	SF06.02, 1390 w 2-39" SL and 20" TR	1	EA	\$2,520.00	\$0
409	SF06.02, glazing in frames	63	SF	\$55.00	\$0
410	SF07.01, 1490 w 12" SL and 20" TR	1	EA	\$2,520.00	\$0
411	SF07.01, glazing in frames	63	SF	\$55.00	\$0
412	SF08.01, 1470 w full glazing	1	EA	\$3,080.00	\$0
413	SF08.01, glazing in frames	77	SF	\$55.00	\$0
414	SF09.01, 2184, 3 PC	1	EA	\$5,880.00	\$0
415	SF09.01, glazing in frames	147	SF	\$55.00	\$0
416	SF10.01 399, wall	1	EA	\$12,360.00	\$0
417	SF10.01, glazing in frames	309	SF	\$55.00	\$0
418	SF15.01, 1214	1	EA	\$6,720.00	\$0
419	SF15.01, glazing in frames	168	SF	\$55.00	\$0
420	SF21.01, 1004	2	EA	\$1,600.00	\$0
421	SF21.01, glazing in frames	80	SF	\$55.00	\$0
422	SF22.01, 5085	3	EA	\$1,706.67	\$0
423	SF22.01, glazing in frames	128	SF	\$55.00	\$0
424	SF22.02, 6065	5	EA	\$1,440.00	\$0
425	SF22.02, glazing in frames	180	SF	\$55.00	\$0
426	SF22.03, 6077	6	EA	\$1,440.00	\$0
427	SF22.03, glazing in frames	216	SF	\$55.00	\$0
428	SF22.04, 6098	5	EA	\$2,280.00	\$0
429	SF22.04, glazing in frames	285	SF	\$55.00	\$0
430	SF22.05, 7010	2	EA	\$2,800.00	\$0
431	SF22.05, glazing in frames	140	SF	\$55.00	\$0
432	SF22.06, 70115	5	EA	\$3,224.00	\$0
433	SF22.06, glazing in frames	403	SF	\$55.00	\$0
434	SF23.01, 6589	1	EA	\$2,280.00	\$0
435	SF23.01, glazing in frames	57	SF	\$55.00	\$0
436	SF23.02, 9090	2	EA	\$3,240.00	\$0
437	SF23.02, glazing in frames	162	SF	\$55.00	\$0
438	SF24.01, 1006	2	EA	\$2,400.00	\$0
439	SF24.01, glazing in frames	120	SF	\$55.00	\$0
440	SF24.02, 1309	1	EA	\$4,680.00	\$0
441	SF24.02, glazing in frames	117	SF	\$55.00	\$0
442	SF24.03, 1308	2	EA	\$4,160.00	\$0
443	SF24.04, glazing in frames	208	SF	\$55.00	\$0
444	SF24.04, 1710	4	EA	\$4,160.00	\$0
445	SF24.04, glazing in frames	416	SF	\$55.00	\$0
446	SF25.01, 0909	1	EA	\$3,240.00	\$0

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
447 SF25.01, glazing in frames	81	SF	\$55.00	\$0
448 SF25.02, 10809	2	EA	\$3,880.00	\$0
449 SF25.02, glazing in frames	194	SF	\$55.00	\$0
450 SF25.03, 10809	2	EA	\$3,880.00	\$0
451 SF25.03, glazing in frames	194	SF	\$55.00	\$0
452 SF25.04, 1409	2	EA	\$5,040.00	\$0
453 SF25.04, glazing in frames	252	SF	\$55.00	\$0
454 SF25.05, 1309	2	EA	\$4,680.00	\$0
455 SF25.05, glazing in frames	234	SF	\$55.00	\$0
456 SF26.01, 11510, 2 PC	2	EA	\$4,600.00	\$0
457 SF26.01, glazing in frames	230	SF	\$55.00	\$0
458 SF27.01, 11510, 2 PC	2	EA	\$4,600.00	\$0
459 SF26.01, glazing in frames	230	SF	\$55.00	\$0
460 SF28.01, 1807, 2 PC	2	EA	\$5,040.00	\$0
461 SF28.01, glazing in frames	252	SF	\$55.00	\$0
462 Interior aluminum storefront, frames and glazing				
463 Interior storefront system, ISFs	1,265	SF	\$105.00	\$132,825
464 Interior curtainwall aluminum type ICW01.01	670	SF	\$115.00	\$77,050
465 Interior curtainwall aluminum type ICW02.01	294	SF	\$115.00	\$33,810
466 Premium for 2 hr fire rated storefront @ Stairs	360	SF	\$314.00	\$113,040
467 Security/transaction window	1	EA	\$4,500.00	\$4,500
468 C1020 Interior Windows Total				\$361,225
469				
470 C1030 Interior Doors				
471 Misc metals; framing support to OH door/grille	8	EA	\$3,000.00	\$24,000
472 Install doors and frame w/ hardware	212	LEAF	\$690.00	\$146,280
473 Access door	63	EA	\$300.00	\$18,900
474				
475 08 11 13 Hollow Metal Doors and Frames				
476 <u>Doors, hollow metal</u>				
477 Doors, single leaf				
478 Type A, 3' - 6" x 7' - 0	1	LEAF	\$950.00	\$950
479 <u>Frames, hollow metal</u>				
480 Type F01.01, 3' - 10" x 7' - 2"	3	EA	\$270.00	\$810
481 Type F01.01, 3' - 4" x 7' - 2"	36	EA	\$270.00	\$9,720
482 Type F01.01, 3' - 4" x 7' - 2", 90 min fr	3	EA	\$370.00	\$1,110
483 Type F02.01, 6' - 4" x 7' - 2"	11	EA	\$310.00	\$3,410
484 Type F01.01, 3' - 4" x 7' - 2"	2	EA	\$270.00	\$540
485 Type F02.02, 6' - 10" x 7' - 4", 90 min fr	1	EA	\$420.00	\$420
486 Type F03.01, 5' - 0 x 7' - 2", w/ 1' - 6" sidelight	3	EA	\$420.00	\$1,260
487 Type F03.02, 5' - 8" x 7' - 2", w/ 2' - 2" sidelight	3	EA	\$440.00	\$1,320
488 Type F04.01, 10' - 4" x 7' - 2", w/ 3' - 4" sidelights	1	EA	\$690.00	\$690

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
489 Type F05.01, 3' - 10" x 9' - 0, w/ 1' - 8" transom	3	EA	\$380.00	\$1,140
490 Type F05.01, 3' - 4" x 9' - 0, w/ 1' - 8" transom	20	EA	\$370.00	\$7,400
491 Type F05.01, 3' - 4" x 9' - 0, 90 min fr, w/ 1' - 8" transom	1	EA	\$470.00	\$470
492 Type F06.01, 5' - 0 x 9' - 0, w/ 1' - 6" sidelight and 1' - 8" transoms	23	EA	\$580.00	\$13,340
493 Type F06.01, 5' - 0 x 9' - 0, w/ 1' - 6" sidelight and 1' - 8" transoms	1	EA	\$580.00	\$580
494 Type F06.02, 5' - 8" x 9' - 0, w/ 2' - 2" sidelight and transoms	1	EA	\$610.00	\$610
495 Type F06.03, 6' - 6" x 9' - 0, w/ 3' - 0 sidelight and 1' - 8" transoms	6	EA	\$650.00	\$3,900
496 Type F06.03, 6' - 6" x 9' - 0, w/ 3' - 0 sidelight and 1' - 8" transoms	1	EA	\$650.00	\$650
497 Type F07.01, 8' - 0 x 9' - 0, w/ 2' - 2" sidelights and 1' - 8" transoms	36	EA	\$850.00	\$30,600
498 Type F07.02, 8' - 2" x 9' - 0, w/ 3' - 10 windows and 1' - 8" transoms	1	EA	\$770.00	\$770
499 Type F08.01, 13' - 7" x 9' - 0, w/ 3' - 3" sidelights and 1' - 8" transoms	1	EA	\$1,240.00	\$1,240
500 Type F08.02, 14' - 3" x 9' - 0 w/ 3' - 8" sidelights and 1' - 8" transoms.	1	EA	\$1,270.00	\$1,270
501 Type F09.01, 9' - 10" x 9' - 0, w/ 2' - 0 sidelights and 1' - 8" transoms	1	EA	\$1,210.00	\$1,210
502 Type F10.01, 12' - 11" x 7' - 2"	1	EA	\$520.00	\$520
503 Type F11.01, 8' - 6" x 9' - 0, w/ 2' - 10" sidelights and 1' - 8" transoms	12	EA	\$880.00	\$10,560
504 Type F12.01, 8' - 6" x 9' - 0, w/ 2' - 10" sidelights and 1' - 8" transoms	12	EA	\$880.00	\$10,560
505 Type F12.02, 12' - 5 7/8" x 9' - 0, w/ 5' - 7 7/8" sidelights and 1' - 8" transoms	1	EA	\$1,060.00	\$1,060
506 Type F13.01, 22' - 0 x 9' - 0, w/ 3' - 2" windows and 1' - 8" transoms	1	EA	\$1,610.00	\$1,610
507 Type F14.01, 14' - 9 1/2" x 9' - 0, w/ 2' - 9" sidelights and 1' - 8" transoms	1	EA	\$1,430.00	\$1,430
508 Type F15.01, 14' - 9 1/2" x 9' - 0, w/ 2' - 9" sidelights and 1' - 8" transoms	1	EA	\$1,430.00	\$1,430
509 Type F16.01, 16' - 1" x 9' - 0, w/ 2' - 4" sidelights and 1' - 8" transoms	1	EA	\$1,440.00	\$1,440
510				
511 08 14 16 Flush Wood Doors				
512 SCW flush door prefinished CLR	190	OPEN		
513 Type A door, 3' - 0 x 7' - 0	144	LEAF	\$800.00	\$115,200
514 Type A door, 3' - 6" x 7' - 0	5	LEAF	\$900.00	\$4,500
515 Type AA door, 3' - 0 x 7' - 0 double leaf	12	PRS	\$1,600.00	\$19,200
516 Type AA door, 3' - 6" x 7' - 0 double leaf	1	PRS	\$1,800.00	\$1,800
517 Type B door, 3' - 0 x 7' - 0, w/ vision panel opening	2	LEAF	\$800.00	\$1,600
518 Type BB door, 3' - 0 x 7' - 0 double leaf, w/ vision opening	1	PRS	\$1,600.00	\$1,600
519 Type C 2-panel door, 3' - 0 x 7' - 0	12	LEAF	\$1,000.00	\$12,000
520 Type D door, 3' - 6" x 7' - 0, w/ vision panel opening	2	LEAF	\$900.00	\$1,800
521 Type D door, 3' - 0 x 7' - 0, w/ vision panel opening	9	LEAF	\$800.00	\$7,200
522 Type F sliding door, 6' - 0 x 9' - 0	1	LEAF	\$2,500.00	\$2,500
523 Type FF 3-panel sliding door, 3' - 6" x 8' - 0 double leaf	1	PRS	\$2,500.00	\$2,500
524 Premium for fire rated and acoustic doors	1	LS	\$13,600.00	\$13,600
525 Type F sliding door track	1	OPEN	\$1,500.00	\$1,500
526 Type FF sliding door track	1	OPEN	\$1,500.00	\$1,500
527				

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
528 08 30 00 Specialty Doors and Frames				
529 Type E 2-panel door, 3' - 0 x 7' - 0	5	LEAF	\$5,500.00	\$27,500
530 Type EE 2-panel door, 3' - 0 x 7' - 0, double leaf	14	PRS	\$11,000.00	\$154,000
531 Type EE 2-panel door, 3' - 6" x 7' - 0, double leaf	2	PRS	\$11,000.00	\$22,000
532				
533 08 34 73 Interior Sound Control Doors				
534 Type H SCW flush 2-sound control panel door, 3' - 0 x 7' - 0	1	LEAF	\$1,500.00	\$1,500
535				
536 08 41 13 Aluminum-Framed Entrances and Storefront				
537 Interior aluminum storefront, frames and glazing system at doors				
538				
539 08 71 00 Door Hardware				
540 Typical door hardware to doors	213	SET	\$850.00	\$181,050
541 Special hardware requirements based on room type	1	LS	\$27,160	\$27,160
542				
543 08 81 00 Glass and Glazing				
544 Type B door vision panel, 1'-8" x "x2'-6"	8	SF	\$65.00	\$543
545 Type BB door vision panel, 1'-8" x 2'-6"	8	SF	\$65.00	\$543
546 Type D door vision panel, 6"x2'-6"	14	SF	\$65.00	\$894
547 Door sidelights & transoms	1,005	SF	\$65.00	\$65,325
548				
549 Miscellaneous				
550 Paint HM frames	189	EA	\$150.00	\$28,350
551 Paint HM doors	1	EA	\$75.00	\$75
552 C1030 Interior Doors Total				\$996,639
553				
554 C1040 Interior Grilles and Gates				
555 08 33 00 Coiling Doors and Grilles				
556 Type OHCC1 overhead coiling counter door, 4' - 4" x 4' - 4"	1	EA	\$1,400.00	\$1,400
557 Type OHC2 overhead coiling door, 8' - 0 x 9' - 0	1	EA	\$5,400.00	\$5,400
558 Type OHG1 overhead coiling grille door, 17" - 6" x 9' - 10"	2	EA	\$12,900.00	\$25,800
559				
560 08 33 23 Overhead Doors				
561 Type OH1 overhead door, 18' - 0 x 12' - 0	1	EA	\$15,100.00	\$15,100
562 Type OH3 overhead door, 8' - 0 x 9' - 0	2	EA	\$5,000.00	\$10,000
563 Type OH4 overhead door , 10' - 0 x 9' - 0	1	EA	\$8,550.00	\$8,550
564 C1040 Interior Grilles and Gates Total				\$66,250
565				

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
566 C1090 Interior Specialties				
567 Steel railing w/posts and balusters, painted and wood rail	251	LF	\$475.00	\$119,225
568 <i>C1090.10 Visual Display Surfaces</i>				
569 02, TB 02.01	33	EA	\$132.00	\$4,356
570 03, MB 03.01	5	EA	\$216.00	\$1,080
571 03, MB 03.02	3	EA	\$216.00	\$648
572 03, MB 03.03	2	EA	\$216.00	\$432
573 03, TB 03.01	2	EA	\$198.00	\$396
574 03, TB 03.02	6	EA	\$198.00	\$1,188
575 03, TB 03.03	10	EA	\$198.00	\$1,980
576 04, MB 04.01	19	EA	\$288.00	\$5,472
577 04, MB 04.02	9	EA	\$288.00	\$2,592
578 04, TB 04.01	3	EA	\$264.00	\$792
579 04, TB 04.02	6	EA	\$264.00	\$1,584
580 05, MB 05.01	21	EA	\$360.00	\$7,560
581 05, TB 05.01	64	EA	\$330.00	\$21,120
582 06, MB 06.01	59	EA	\$432.00	\$25,488
583 06, TB 06.01	13	EA	\$396.00	\$5,148
584 06, TB 06.02	1	EA	\$432.00	\$432
585 08, MB 08.01	63	EA	\$576.00	\$36,288
586 08, TB 08.02	114	EA	\$528.00	\$60,192
587 10, MB 10.01	22	EA	\$720.00	\$15,840
588 10, TB 10.01	4	EA	\$660.00	\$2,640
589 HMBS	6	EA	\$1,400.00	\$8,400
590 MBW	66	EA	\$576.00	\$38,016
591 TBW	61	EA	\$528.00	\$32,208
592 Apron hooks	50	EA	\$50.00	\$2,500
593 <i>C1090.20 Safety Specialties</i>				
594 Fire extinguisher & cabinets	28	EA	\$450.00	\$12,600
595 Signage, interior door	249	EA	\$130.00	\$32,370
596 Type A door, signage/logo graphic applied to panel; assume full coverage	1	EA	\$1,575.00	\$1,575
597 Type F door, signage/logo graphic applied to panel; assume full coverage	1	EA	\$4,050.00	\$4,050
598 Wall Graphics "FITNESS"	1	EA	\$3,150.00	\$3,150
599 Wall Graphics "GUIDANCE OFFICE"	1	EA	\$6,300.00	\$6,300
600 Wall Graphics "MAIN OFFICE"	1	EA	\$4,500.00	\$4,500
601 Wall Graphics "MEDIA CENTER"	1	EA	\$4,950.00	\$4,950
602 Wall Graphics "PRIDE & RESPECT"	1	EA	\$5,850.00	\$5,850
603 Wall Graphics "SMS - SOMERSET MIDDLE SCHOOL"	1	EA	\$16,250.00	\$16,250
604 Wall Graphics "SOMERSET RAIDERS" w/ logo graphic	1	EA	\$9,250.00	\$9,250
605 Wall Graphics "THEATER"	2	EA	\$4,550.00	\$9,100
606 Wall Graphics "WELCOME"	1	EA	\$3,150.00	\$3,150
607 Wall Graphics, other based on SMS	1	LS	\$9,400.00	\$9,400

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
608 Floor Graphics, Gym Floor	1	LS	\$12,000.00	\$12,000
609 <i>Toilet partitions</i>				
610 regular	24	EA	\$1,250.00	\$30,000
611 ADA	12	EA	\$1,450.00	\$17,400
612 urinal screen	12	EA	\$850.00	\$10,200
613 Shower curtain and rod at Locker Room	2	EA	\$250.00	\$500
614 Changing room closure at Locker Rooms	12	EA	\$1,500.00	\$18,000
615 Curtain and curtain track at Nurse's Office	2	EA	\$1,500.00	\$3,000
616 <i>C1090.40 Toilet and Shower Accessories</i>				
617 Gangs	12	RMS	\$3,500.00	\$42,000
618 single user	19	RMS	\$750.00	\$14,250
619 <i>C1090.30 Lockers</i>				
620 Type 1; Staff lockers at Kitchen and Loading area	12	EA	\$250.00	\$3,000
621 Type 2; 5-tier lockers; Locker Room	220	EA	\$450.00	\$99,000
622 Type 3; Phenolic lockers; Corridors; qty provided	600	EA	\$400.00	\$240,000
623 Type 4; 4-tier phenolic lockers 15"x15"; Computer Lit & Robotics	36	EA	\$400.00	\$14,400
624 Locker room benches	60	LF	\$150.00	\$9,000
625 Misc interior fittings/accessories, less FF&E	124,200	GSF	\$0.50	\$62,100
626 Miscellaneous metals associated with interior fit-out	40	TNS	\$2,900.00	\$116,000
627 Wood blocking for interior specialties and wall attached accessories	40	DAY	\$1,772.00	\$70,880
628 Miscellaneous sealants throughout building	124,200	GSF	\$0.35	\$43,470
629 C1090 Interior Specialties Total				\$1,323,272
630				
631				
632 C20 INTERIOR FINISHES				
633				
634 C2010 Stair Construction				
635 Stage stair, short flight	2	FLT	\$8,500.00	\$17,000
636 Egress stair, including railing	2	FLT	\$38,000.00	\$76,000
637 Guardrail at stair ST-1-2	44	LF	\$420.00	\$18,480
638 Assembly stair, Floor 1 to Floor 2	110	LFR	\$100.00	\$11,000
639 extra width stadium stair	144	LFR	\$175.00	\$25,200
640 landing slab, x(1)loc	372	SF	\$35.00	\$13,020
641 Auditorium steps at seating	18	STEP	\$514.00	\$9,252
642 Concrete fill to metal pan stair	2	FLT	\$2,500.00	\$5,000
643 Assembly stair assembly; assume 10tns/flight, complete	10	TNS	\$10,000.00	\$100,000
644 Stair 2, feature stair	2	FLT	\$50,000.00	\$100,000
645 C2010 Stair Construction Total				\$374,952
646				

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
647 C2010 Wall Finishes				
648 Ceramic wall tile @ Restrooms REPLACE W/ Vinyl cladding	7,203	SF	\$14.00	\$100,835
649 Locker Rooms REPLACE W/ Vinyl cladding	1,360	SF	\$14.00	\$19,040
650 Corridors; wainscot REPLACE W/ Vinyl cladding	7,765	SF	\$14.00	\$108,713
651 Wood veneer wall paneling at Stage proscenium	600	SF	\$50.00	\$30,000
652 Accent panels/textured @ Band, Dining, Media Center	800	SF	\$25.00	\$20,000
653 Wood grille installation @ Media wall	395	SF	\$35.00	\$13,825
654 Acoustic panels/textured @ Ensemble	440	SF	\$45.00	\$19,800
655 Painted tectum acoustic panels @ Gym	2,135	SF	\$25.00	\$53,375
656 Perforated metal panel @ Dining, Educational stairs	175	SF	\$85.00	\$14,875
657 FRP panels, 10' high; Kitchen, Dry Storage, Cooler & Freezer	1,390	SF	\$12.00	\$16,680
658 Paint CMU wall	2,174	SF	\$1.25	\$2,717
659 Paint new GWB wall, interior wall surfaces	310,720	SF	\$1.00	\$310,720
660 Paint new GWB wall, perimeter wall surfaces	34,351	SF	\$1.00	\$34,351
661 Paint green screen @ Video Recording	735	SF	\$2.50	\$1,838
662 Misc wall finishes and accents	45	DAY	\$854.00	\$38,430
663 C2010 Wall Finishes Total				\$785,199
664				
665 C2020 Interior Fabrications				
666 <i>C2020.20 Architectural Woodwork</i>				
667 <i>Admin area</i>				
668 Duplicating, Principal Office; counter	64	LF	\$250.00	\$16,000
669 Duplicating, Principal Office; tall cabinet	5	EA	\$2,500.00	\$12,500
670 Guidance/Secretary desk	12	LF	\$500.00	\$6,000
671 Built-in recycling station w/solid surface countertop	10	LF	\$350.00	\$3,500
672 Mailboxes	14	LF	\$350.00	\$4,900
673 Plam counter above lockers in corridors	270	LF	\$250.00	\$67,500
674 Shelving at storage room; allow	150	LF	\$75.00	\$11,250
675 Semi-recessed display case w/glass door	6	EA	\$3,500.00	\$21,000
676 Lockable display case	2	EA	\$4,500.00	\$9,000
677 Mirrors @ Adaptive PE	160	SF	\$45.00	\$7,200
678 C2020 Interior Fabrications Total				\$158,850
679				
680 C2030 Flooring				
681 PT; Toilet room porcelain tile flooring	2,828	SF	\$24.00	\$67,872
682 Waterproofing to tile flooring	2,828	SF	\$8.00	\$22,624
683 LAM; Laminated Stage Flooring	1,793	SF	\$17.50	\$31,378
684 WAF; Athletic wood flooring system at Gymnasium	6,554	SF	\$18.00	\$117,972
685 RSF; Resilient sheet flooring	75,785	SF	\$6.33	\$479,340
686 RA; Rubber Athletic Flooring	1,828	SF	\$16.00	\$29,248
687 SCRF; Static Control	822	SF	\$12.00	\$9,864
688 UCF - Urethane Concrete Flooring	3,706	SF	\$13.75	\$50,958
689 Concrete painted	4,623	SF	\$3.00	\$13,869

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
690 Concrete polished	8,356	SF	\$9.00	\$75,204
691 CB; Broadloom Carpet	4,905	SF	\$6.11	\$29,975
692 CPT; Carpet Tile flooring	8,060	SF	\$6.11	\$49,256
693 MAT; Recessed Grate	418	SF	\$8.50	\$3,553
694 MAT; Entrance Mat	637	SF	\$8.50	\$5,415
695 Strip Transition	377	LF	\$8.00	\$3,016
696 Tile Transition	82	LF	\$25.00	\$2,050
697 Wood Transition	35	LF	\$25.00	\$875
698 Expansion Joint Transition	269	LF	\$55.00	\$14,768
699 Flooring, base, rubber	20,388	LF	\$4.50	\$91,745
700 Flooring, base, PT	536	LF	\$12.00	\$6,432
701 Flooring, other, misc areas	700	SF	\$6.00	\$4,200
702 Prep floor slab for new finishes, partial areas	116,432	SF	\$1.25	\$145,540
703 C2030 Flooring Total				\$1,255,152
704				
705 C2040 Stair Finishes				
706 Stair 1 & 2; rubber	528	LFR	\$25.00	\$13,200
707 Stair 3; Assembly stairs, tongue & groove wood platform seating	110	LFR	\$225.00	\$24,750
708 09 00 05* Painting				
709 Paint stair and railing	2	FLT	\$3,500.00	\$7,000
710 C2040 Stair Finishes Total				\$44,950
711				
712 C3030 Ceiling Finishes				
713 ACT 01, 24 x 24"	12,354	SF	\$6.45	\$79,683
714 ACT 02, 24 x 48"	37,517	SF	\$6.75	\$253,240
715 ACT 03A, 24 x 72"	5,731	SF	\$9.00	\$51,579
716 ACT 03B, 24 x 72"	2,367	SF	\$9.00	\$21,303
717 ACT 04, 12 x 72"	8,293	SF	\$7.00	\$58,051
718 ACT 05, 24 x 48" wet areas	5,496	SF	\$12.00	\$65,952
719 ACT 06, 24 x 72"	1,061	SF	\$6.25	\$6,631
720 ACT 07, 24 x 24"	1,834	SF	\$7.15	\$13,113
721 ACT 08, 24 x 48" black	542	SF	\$16.00	\$8,672
722 ACT 09	4,351	SF	\$16.00	\$69,616
723 ACT 11A, 24 x 72" WD, maple	763	SF	\$58.00	\$44,254
724 ACT 11B, 24 x 72" WD, maple	1,206	SF	\$58.00	\$69,948
725 ACT 12, 09 x 96", WD	1,485	SF	\$57.00	\$84,645
726 ACT 13, 12 x 96", WD	508	SF	\$57.00	\$28,956
727 ACT 16, 12 x 72", WD	378	SF	\$57.00	\$21,546
728 ACT 21, 24 x 96", Metal	2,224	SF	\$35.00	\$77,840
729 ACT 31, 48 x 72"	4,416	SF	\$19.00	\$83,904
730 ACT XX Exposed, paint	25,768	SF	\$1.30	\$33,498
731 ACT XX Feature narrow line	454	SF	\$30.00	\$13,620
732 ACT XX Grid Only	1,460	SF	\$6.00	\$8,760

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
733	10,583	SF	\$15.00	\$158,745
734	1,280	SF	\$55.00	\$70,400
735	11,280	SF	\$15.00	\$169,200
736	7,542	SF	\$15.00	\$113,130
737	6,210	SF	\$15.00	\$93,150
738	25,032	SF	\$1.25	\$31,290
739	1	LS	\$35,000.00	\$35,000
740	5,411	SF	\$8.00	\$43,288
741				\$1,809,015
742				
743				
744	D SERVICES			
745				
746	D10 Conveying			
747	D1010 Elevators and Lifts			
748	1	EA	\$195,000.00	\$195,000
749	1	EA	\$500.00	\$500
750	24	LF	\$55.00	\$1,320
751				\$196,820
752				
753	D20 Plumbing			
754	<i>Domestic Water</i>			
755	1	EA	\$8,000.00	\$8,000
756	1	EA	\$6,500.00	\$6,500
757	1	EA	\$4,500.00	\$4,500
758	1	EA	\$3,000.00	\$3,000
759	1	EA	\$2,500.00	\$2,500
760	1	EA	\$2,500.00	\$2,500
761	2	EA	\$25,000.00	\$50,000
762	1	EA	\$1,400.00	\$1,400
763	1	EA	\$2,800.00	\$2,800
764	1	EA	\$2,500.00	\$2,500
765	3	EA	\$2,400.00	\$7,200
766	1	EA	\$16,000.00	\$16,000
767	1	EA	\$3,500.00	\$3,500
768	1	EA	\$1,400.00	\$1,400
769	1	EA	\$1,600.00	\$1,600
770	1	EA	\$1,600.00	\$1,600
771	1	EA	\$1,500.00	\$1,500
772	1	EA	\$10,000.00	\$10,000
773	1	EA	\$10,000.00	\$10,000
774	550	LF	\$75.00	\$41,250
775	1	EA	\$3,000.00	\$3,000

DIRECT TRADE COST DETAILS

ELEMENT		QUANTITY	UNIT	UNIT RATE	COST
776	Lab Gas				Not Required
777	CA Service & Pipe	700	LF	\$35.00	\$24,500
778	CA Turrets - install only	50	EA	\$125.00	\$6,250
779	Domestic Water Pipe, insulation , Incl valves, misc. fittings	10,500	LF	\$64.35	\$675,675
780	Tepid water loop				Not Required
781	Laundry & Dishwasher connection	8	EA	\$400.00	\$3,200
782	Hose Bibbs	15	EA	\$400.00	\$6,000
783	Ice maker connections	11	EA	\$400.00	\$4,400
784	Wall hydrants/roof hydrants	12	EA	\$650.00	\$7,800
785	<i>Fixtures</i>				
786	Water Closets	53	EA	\$2,250.00	\$119,250
787	Lavatory	52	EA	\$2,250.00	\$117,000
788	Urinal	10	EA	\$2,250.00	\$22,500
789	Sinks	94	EA	\$2,250.00	\$211,500
790	Drinking Fountain	5	EA	\$4,500.00	\$22,500
791	Mop Sinks	5	EA	\$2,200.00	\$11,000
792	Showers	4	EA	\$4,000.00	\$16,000
793	Emergency shower	7	EA	\$2,400.00	\$16,800
794	Emergency eyewash	7	EA	\$850.00	\$5,950
795	Kitchen Service Equipment	1	LS	\$35,000.00	\$35,000
796	<i>Sanitary, Waste, Vent, Roof Drain</i>				
797	GL-01: Grease Interceptor, 100lbs	2	EA	\$7,500.00	\$15,000
798	GL-02: Grease Interceptor	1	EA	\$15,000.00	\$15,000
799	OS-01: Oil Separator, 57 Gal	1	EA	\$5,500.00	\$5,500
800	Acid neutralization tank, 215 GAL	1	EA	\$20,000.00	\$20,000
801	SP-01: Pump, S.S Weil 50gpm	1	EA	\$4,200.00	\$4,200
802	Trench drain assume at showers	20	LF	\$100.00	\$2,000
803	Floor Drains	45	EA	\$900.00	\$40,500
804	Waste and vent pipe	3,800	LF	\$60.00	\$228,000
805	Roof Drains	45	EA	\$1,250.00	\$56,250
806	Roof Drain Pipe	3,250	LF	\$70.00	\$227,500
807	Kitchen Waste Pipe	500	LF	\$60.00	\$30,000
808	Lab Waste	1,200	LF	\$60.00	\$72,000
809	MISC Plumbing	124,200	GSF	\$1.00	\$124,200
810	D20 Plumbing Total				\$2,326,225
811					

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
812 D30 HVAC				
813 B. Heating System				
814 B-1& 2 : 2,500 MBH High Efficiency, Gas Fired, Condensing boilers	2	EA	\$46,500.00	\$93,000
815 Pumps	7	EA	\$8,000.00	\$56,000
816 Expansion Tank	1	EA	\$4,000.00	\$4,000
817 Air Separator	1	EA	\$3,500.00	\$3,500
818 Gas Service & Pipe	1	LS		See Plumb
819 Cabinet unit heaters	12	EA	\$1,350.00	\$16,200
820 Unit heaters	4	EA	\$950.00	\$3,800
821 Convectors	28	EA	\$1,600.00	\$44,800
822 Radiant Panel Heating	1,860	LF	\$120.00	\$223,200
823 Fin tube	80	LF	\$100.00	\$8,000
824 Hot Water Pipe	9,600	LF	\$45.00	\$432,000
825 Valves and accessories	1	LS	\$64,800.00	\$64,800
826 Insulation	9,600	LF	\$10.00	\$96,000
827 Glycol Treatment	1	LS	\$8,000.00	\$8,000
828 C. Air Conditioning Systems				
829 239 Ton High Efficiency Electric Air-Cooled Chiller	239	TN	\$1,000.00	\$239,000
830 Chiller Pumps	2	EA	\$8,000.00	\$16,000
831 Expansion Tank	1	EA	\$4,000.00	\$4,000
832 Air Separator	1	EA	\$3,500.00	\$3,500
833 Chilled Water Pipe	3,000	LF	\$50.00	\$150,000
834 Condensate drain piping	1,650	LF	\$35.00	\$57,750
835 Valves and accessories	1	LS	\$30,000.00	\$30,000
836 Insulation	4,650	LF	\$10.00	\$46,500
837 Glycol Treatment	1	LS	\$10,000.00	\$10,000
838 D. Summary of HVAC Systems				
839 <u>Roof Top Units</u>				
840 RTU-01: w/Gas Heating & Cooling Coil, w/ERW, 9,000cfm	1	EA	\$130,500.00	\$130,500
841 RTU-02: w/Gas Heating & Cooling Coil, w/ERW, 9,000cfm	1	EA	\$130,500.00	\$130,500
842 RTU-03: w/Gas Heating & Cooling Coil, w/ERW, 9,000cfm	1	EA	\$130,500.00	\$130,500
843 RTU-04: w/Heating & Cooling Coil, w/ERW, 7,000cfm	1	EA	\$98,000.00	\$98,000
844 RTU-05: w/Heating & Cooling Coil, w/ERW, 4,800cfm	1	EA	\$67,200.00	\$67,200
845 RTU-06: w/Gas Heating & Cooling Coil, w/ERW, 12,000cfm	1	EA	\$174,000.00	\$174,000
846 RTU-07: w/Heating & Cooling Coil, w/ERW, 4,300cfm	1	EA	\$60,200.00	\$60,200
847 RTU-08: w/Heating & Cooling Coil, w/ERW, 7,200cfm	1	EA	\$100,800.00	\$100,800
848 RTU-09: w/Heating & Cooling Coil, w/ERW, 13,000cfm	1	EA	\$182,000.00	\$182,000
849 RTU-10: w/Heating & Cooling Coil, w/ERW, 4,000cfm	1	EA	\$56,000.00	\$56,000
850 RTU-11: w/Heating & Cooling Coil, w/ERW, 13,500cfm	1	EA	\$189,000.00	\$189,000
851 RTU-12: w/Heating & Cooling Coil, w/ERW, 2,400cfm	1	EA	\$33,600.00	\$33,600
852 RTU-13: w/Heating & Cooling Coil, w/ERW, 2,200cfm	1	EA	\$30,800.00	\$30,800
853 Ductless split system w/ condensing units (Total 41 Tons)	18	EA	\$6,500.00	\$117,000

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
854 Sheet Metal Ductwork				
855 Galvanized, Double wall Ductwork, Kitchen Grease Duct, ETC	99,360	LBS	\$14.50	\$1,440,720
856 Insulation	84,456	SF	\$6.00	\$506,736
857 RGD's	828	EA	\$225.00	\$186,300
858 VAV Terminal Units	120	EA	\$950.00	\$114,000
859 Fire and smoke dampers	124,200	GSF	\$0.50	\$62,100
860 Exhaust Fans	124,200	GSF	\$0.75	\$93,150
861 Misc. Sheet Metal	124,200	GSF	\$0.50	\$62,100
862 Louvers	1	EA	\$5,000.00	\$5,000
863 4 Pipe Fan Coils, Carried forward previous value TBC	1	LS	\$200,000.00	\$200,000
864 E. Controls				
865 DDC Controls	124,200	GSF	\$6.25	\$776,250
866 MISC HVAC	124,200	GSF	\$1.50	\$186,300
867 D30 HVAC Total				\$6,742,806
868				
869 D40 Fire Protection				
870 Water service	1	LS	\$15,000.00	\$15,000
871 Check valve assembly	1	LS	\$8,500.00	\$8,500
872 Fire Pump 40 HP / 1760 RPM	1	LS	\$75,000.00	\$75,000
873 Wet alarm valve, 6"	1	LS	\$4,500.00	\$4,500
874 Dry alarm valve, 4"	1	LS	\$3,500.00	\$3,500
875 Floor control valves - assume	8	EA	\$1,800.00	\$14,400
876 FDC	1	EA	\$1,200.00	\$1,200
877 Risers	400	LF	\$95.00	\$38,000
878 Mains	1,200	LF	\$85.00	\$102,000
879 Branch piping	11,500	LF	\$33.00	\$379,500
880 Sprinkler heads	1,095	EA	\$95.00	\$104,025
881 Misc. sprinkler	124,200	GSF	\$0.45	Delete
882 D40 Fire Protection Total				\$745,625
883				

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
884 D50 Electrical				
885 Power distribution	124,200	GSF	\$10.00	\$1,242,000
886 Building Grounding System	124,200	GSF	\$0.35	\$43,470
887 MEP equipment wiring				
888 Split A/C Unit 15A 2p 208v circuit & connect	18	EA	2,080.00	\$37,440
889 Boilers 20A 208v circuit & connect	2	EA	1,658.09	\$3,316
890 CUH 15A 120v circuit & connection	10	EA	1,375.00	\$13,750
891 CWH-** 15A 120v circuit & conn	4	EA	665.93	\$2,664
892 Destratification fans circuit & connection	6	EA	1,545.10	\$9,271
893 Elevator cab power circuits & connection	1	EA	1,683.28	\$1,683
894 Elevator power circuit & connection	1	EA	7,535.70	\$7,536
895 Exhaust fan 15A 120v circuit & connect	4	EA	1,003.18	\$4,013
896 Heating & cooling Pumps 30A 480v circuit & connection	4	EA	3,240.65	\$12,963
897 Hot water circ pumps 20A 120v circuit & connect	2	EA	1,132.24	\$2,264
898 Terminal Box 15A 120v connection	111	EA	495.00	\$54,945
899 UH 15A 120v circuit & connection	3	EA	519.16	\$1,557
900 RTU**circuit & connection	15	EA	3,800.00	\$57,000
901 Chiller** circuit & connection	1	EA	12,500.00	\$12,500
902 Unidentified mechanical equipment	124,200	GSF	\$0.35	Delete
903 Fire Alarm System				
904 FA Equipment & programming	1	EA	\$145,000.00	\$145,000
905 FA System Final Testing and Certification	1	LS	\$15,000.00	\$15,000
906 F/A Multi/zone addressable control cabinets	1	EA	\$2,800.00	\$2,800
907 F/A Remote annunciator	1	EA	304.00	\$304
908 FA Terminal cabinet	3	EA	408.53	\$1,226
909 [MSB] FA Notification texted monitor	9	EA	304.00	\$2,736
910 [LOC] Mass notification local control panel	6	EA	204.27	\$1,226
911 FA NAC Panel	3	EA	408.53	\$1,226
912 F/A Knox box	1	EA	411.95	\$412
913 F/A Pull station	24	EA	99.62	\$2,391
914 F/A Smoke detector	65	EA	169.95	\$11,047
915 F/A Remote indicating light	12	EA	121.73	\$1,461
916 F/A Speaker/strobe ceiling mount	134	EA	137.41	\$18,413
917 F/A Speaker/strobe wall mount	19	EA	159.53	\$3,031
918 F/A Strobe ceiling mount	54	EA	115.25	\$6,224
919 F/A Strobe ceiling mount mass notification	185	EA	115.25	\$21,322
920 F/A Speaker/strobe wall mount mass notification	1	EA	158.86	\$159
921 FA FPLP/MC 14/2	8,000	LF	5.76	\$46,083
922 FA FPLP/MC 14/4	8,000	LF	5.31	\$42,469
923 FA FPLP/MC 16/2	4,500	LF	5.30	\$23,868
924 SLC/NAC Loop 3/4"RED EMT 2-16/2 & 2-14/2 FPLP	600	LF	12.88	\$7,728

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
925 <i>Lighting fixtures Interior & Exterior building mounted</i>				
926 Type A6 LED 6' Pendant dir/ind	45	EA	552.00	\$24,840
927 Type A8 LED 8' Pendant dir/ind	222	EA	920.00	\$204,240
928 Type B1 4" LED Recessed down light	290	EA	247.25	\$71,703
929 Type B1W 4" LED Recessed down light wet location	47	EA	327.75	\$15,404
930 Type C1 LED 2x2 Recessed flat panel	47	EA	143.75	\$6,756
931 Type D1 LED 2x4 Recessed flat panel	62	EA	258.75	\$16,043
932 Type E1 LED 4" Cylinder pendant	97	EA	299.00	\$29,003
933 Type Exit edge lit single face	54	EA	167.69	\$9,055
934 Type Exit edge lit dual face	1	EA	196.44	\$196
935 Type Exit edge lit single face handicap symbol	26	EA	207.93	\$5,406
936 Type Exit (Missing / Incomplete Scope / Not yet Defined)	1	LS	15,000.00	\$15,000
937 Type F4 LED 4' Strip chain mounted	36	EA	103.50	\$3,726
938 Type F6 LED 6' Strip chain mounted	20	EA	143.75	\$2,875
939 Type G4 LED 2x4 Recessed direct	36	EA	247.25	\$8,901
940 Type G5 LED 2x5 Recessed direct	11	EA	316.25	\$3,479
941 Type G6 LED 2x6 Recessed direct	109	EA	379.50	\$41,366
942 Type G8 LED 2x8 Recessed direct	20	EA	506.00	\$10,120
943 Type G9 LED 2x9 Recessed direct	9	EA	569.25	\$5,123
944 Type G12 LED 2x12 Recessed direct	56	EA	759.00	\$42,504
945 Type G26 LED 2x26 Recessed direct	1	EA	1,667.50	\$1,668
946 Type HB LED 16" Round high bay w/wire guard	24	EA	534.75	\$12,834
947 Type K5 LED 60" Suspended ring	6	EA	2,070.00	\$12,420
948 Type L1 LED 7' Cove light	8	EA	483.00	\$3,864
949 Type L1 LED 44' Cove light	2	EA	3,542.00	\$7,084
950 Type L2 LED 10' Cove light	4	EA	805.00	\$3,220
951 Type L2 LED 12' Cove light	20	EA	966.00	\$19,320
952 Type L2 LED 15' Cove light	1	EA	1,207.50	\$1,208
953 Type L2 LED 19' Cove light	6	EA	1,529.50	\$9,177
954 Type L2 LED 20' Cove light	1	EA	1,610.00	\$1,610
955 Type L2 LED 8' Cove light	1	EA	644.00	\$644
956 Type M4 LED 4' x6" Luminous cylinder pendant	22	EA	189.75	\$4,175
957 Type P4 LED 2"x4' Extruded pendant	9	EA	552.00	\$4,968
958 Type P6 LED 2"x6' Extruded pendant	45	EA	828.00	\$37,260
959 Type P8 LED 2"x8' Extruded pendant	5	EA	1,104.00	\$5,520
960 Type P10 LED 2"x10' Extruded pendant	14	EA	1,380.00	\$19,320
961 Type P12 LED 2"x12' Extruded pendant	4	EA	1,656.00	\$6,624
962 Type T Single circuit track	4	EA	103.50	\$414
963 Type T1 LED Track head	12	EA	345.00	\$4,140
964 Type WS1 LED Back lit wall sconce	3	EA	373.75	\$1,121
965 Type WW12 LED 2"x12' Linear wall wash cantilevered mount	1	EA	2,300.00	\$2,300
966 Lighting installation labor	1	EA	145,000.00	\$145,000

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
967 <i>Lighting control system</i>				
968 Lighting head end devices & programming	1	LS	\$30,000.00	\$30,000
969 Slv Wall low voltage switch	32	EA	129.68	\$4,150
970 Slv-d Wall low voltage switch dimming	229	EA	135.43	\$31,013
971 [RC] Lighting control room controller	62	EA	670.02	\$41,541
972 [DS] Ceiling daylight sensor	64	EA	168.00	\$10,752
973 [OS] Ceiling occupancy sensor	212	EA	168.00	\$35,615
974 [OS]- Wall occupancy sensor	38	EA	168.00	\$6,384
975 [R] Em bypass relay	22	EA	318.70	\$7,011
976 CAT 6 Lighting control cable	659	EA	45.85	\$30,213
977 Lighting control wall box & 3/4" EMT sleeve	115	EA	310.83	\$35,746
978 <i>Lighting, conduits and wire</i>				
979 20A 120-277V S/P Switch, box & plate	14	EA	108.66	\$1,521
980 3/4" EMT 3#12	690	LF	9.95	\$6,866
981 3/4" EMT 5#12	4,580	LF	11.10	\$50,838
982 3/4" EMT 5#12 -2#14 0-10vdc	2,820	LF	12.80	\$36,096
983 #12/2-2#14 0-10vdc Luminary MC Cable	17,290	LF	5.45	\$94,231
984 #12/2C MC cable	2,525	LF	4.25	\$10,731
985 <i>Theater Lighting fixtures, dimming & controls</i>	1	ALW	\$175,000.00	w/ DIV 11
986 <i>Branch Devices, conduits and wire</i>				
987 20A 125V Duplex recept, box & plate	246	EA	101.10	\$24,871
988 20A 125V GFCI Duplex recept, box & plate	74	EA	122.87	\$9,092
989 20A 125V GFCI Duplex recept WP, box & plate	10	EA	144.60	\$1,446
990 (2) 20A 125V Duplex recept, box & plate	339	EA	139.33	\$47,233
991 (2) 20A 125V GFCI Duplex recept, box & plate	71	EA	184.10	\$13,071
992 30A 250v 3w Receptacle & box	7	EA	127.57	\$893
993 Classroom ceiling junction box	21	EA	56.82	\$1,193
994 Automatic door operator & connection	6	EA	422.22	\$2,533
995 Door operator push plate	6	EA	337.78	\$2,027
996 Hubbell 6AT Poke thru (2) 20A duplex & branch	14	EA	1,105.18	\$15,473
997 Hubbell Cord reel w/ Unistrut support / 45' cord	24	EA	909.08	\$21,818
998 Kitchen equipment connections	40	EA	609.78	\$24,391
999 Overhead door operator & connection	7	EA	423.43	\$2,964
1000 Shot clocks & scoreboards	2	EA	4,500.00	\$9,000
1001 Gymnasium backstop motors	6	EA	3,596.51	\$21,579
1002 Water cooler connection	5	EA	85.80	\$429
1003 Window shade controller installation & connection	28	EA	775.73	\$21,720
1004 3/4" EMT 3#12	1,250	LF	9.95	\$12,438
1005 3/4" EMT 7#12	8,000	LF	11.40	\$91,200
1006 #12/2C MC cable	22,500	LF	4.25	\$95,625

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
1007 <i>BDA System</i>				
1008 BDA Amplifier	1	EA	36,000.00	\$36,000
1009 BDA Antennae	1	EA	6,500.00	\$6,500
1010 BDA Cable connectors	10	EA	115.00	\$1,150
1011 BDA Radial antenna cable	1,600	EA	9.75	\$15,600
1012 BDA Riser cable	150	EA	33.00	\$4,950
1013 <i>Security Systems</i>				
1014 Camera system at Building Exterior and Interior - <i>allowance</i>	1	LS	\$495,000.00	\$495,000
1015 Camera system Conduit / Wiring	1	LS	\$165,000.00	\$165,000
1016 <i>Technology Systems</i>				
1017 IDF Switches for Closed Circuit Television	1	LS	\$7,046.00	w/ DIV 11
1018 TV Capability Switches for Closed Circuit Television	1	LS	\$7,051.00	w/ DIV 11
1019 <i>98" Digital Signage and Office Displays - allowance</i>	4	LS	\$10,000.00	\$40,000
1020 <i>75" Digital Signage and Office Displays - allowance</i>	3	LS	\$4,500.00	\$13,500
1021 <i>65" Digital Signage and Office Displays - allowance</i>	4	LS	\$2,000.00	\$8,000
1022 <i>43" Digital Signage and Office Displays - allowance</i>	1	LS	\$1,000.00	\$1,000
1023 Student dining video wall	1	LS	\$100,000.00	w/ DIV 11
1024 Secondary Entrance Exterior Video wall	1	LS	\$100,000.00	NIC
1025 MDF Closet -	1	EA	\$25,000.00	\$25,000
1026 IDF Closet -	3	EA	\$12,000.00	\$36,000
1027 Phone (1D) (Device, Plate, Term/Test)	74	EA	\$35.00	\$2,590
1028 Data Device (2D) (Device, Plate, Term/Test)	164	EA	\$70.00	\$11,480
1029 Data Device (3D) (Device, Plate, Term/Test)	60	EA	\$105.00	\$6,300
1030 Data Device (4D) (Device, Plate, Term/Test)	91	EA	\$140.00	\$12,740
1031 Data Device (6D) (Device, Plate, Term/Test)	18	EA	\$210.00	\$3,780
1032 Backbox w/ Conduit Stubbed to Above	512	EA	\$145.00	\$74,240
1033 CAT 6A Cable	180,000	LF	\$1.63	\$293,760
1034 WAP - Cabling Only	1	LS		w/ above
1035 LED display, main lobby	1	LS	\$10,000.00	NIC
1036 LED display, secondary lobby	1	LS	\$7,500.00	NIC
1037 Library media center, projector	1	EA	\$35,000.00	NIC
1038 Project lab, projector	3	EA	\$20,000.00	NIC
1039 65" Interactive Display - <i>allowance</i>	1	EA	\$2,300.00	\$2,300
1040 75" Interactive Display - <i>allowance</i>	50	EA	\$4,300.00	\$215,000
1041 86" Interactive Display - <i>allowance</i>	9	EA	\$6,600.00	\$59,400
1042 Hovercams (Includes backboxes, cabling)	61	EA	\$1,495.00	\$91,195
1043 NVR's Recording Equipment - <i>allowance</i>	3	EA	\$30,000.00	\$90,000
1044 Backboxes and Cabling	1	LS	\$15,000.00	\$15,000
1045 Rack Mounted UPS System - <i>allowance</i>	1	LS	\$2,500.00	\$2,500
1046 Voicelift Equipment - <i>allowance</i>	47	EA	\$2,500.00	\$117,500
1047 Presentation Camera - <i>allowance</i>	600	EA	\$61.00	\$36,600
1048 Mobile Presentation Cart w/ 75" Interactive Display - <i>allowance</i>	1	EA	\$7,300.00	\$7,300
1049 Classroom technology, partial FF&E Budget	1	LS	\$171,000.00	NIC

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
1050 <i>Sound / PA System</i>				
1051 <i>PA - Public Address System - allowance</i>	1	LS	\$200,000.00	\$200,000
1052 <i>Fitness Room Sound System - allowance</i>	1	LS	\$7,500.00	\$7,500
1053 <i>Portable Sound System - allowance</i>	1	LS	\$2,500.00	\$2,500
1054 <i>Portable Assistive Listening System - allowance</i>	1	LS	\$2,500.00	\$2,500
1055 <i>PV conduit system, infrastructure only</i>	124,200	GSF	\$0.10	\$12,420
1056 <i>Mass notification system</i>				w/ Above
1057 <i>Lightning protection</i>	1	LS	\$55,000.00	\$55,000
1058 <i>A/V System at Auditorium, Allowance</i>				w/ DIV 11
1059 <i>Gym, scoreboard system</i>				w/ DIV 11
1060 <i>Gym equipment wiring</i>	1	LS	\$40,000.00	\$40,000
1061 <i>Emergency generator, 700 KW, diesel</i>	1	LS	\$245,000.00	\$245,000
1062 <i>Reimbursable</i>				
1063 <i>Fees & Permits, waived</i>	1	LS		Waived
1064 <i>Seismic restraints</i>	1	LS	\$15,000.00	\$15,000
1065 <i>Coordination & management / BIM</i>	1	LS	\$77,212.50	\$77,213
1066 <i>Coordination study and testing</i>	1	LS	\$25,000.00	\$25,000
1067 <i>Temporary power & lights</i>	124,200	GSF	\$0.30	\$37,260
1068 D50 Electrical Total				\$6,140,607
1069				
1070				
1071 E10 EQUIPMENT				
1072				
1073 E1060 Residential Equipment				
1074 <i>Washer/Dryer</i>	3	SET	\$3,000.00	\$9,000
1075 <i>Refrigerator</i>	5	EA	\$2,500.00	\$12,500
1076 <i>Refrigerator under-counter</i>	8	EA	\$1,000.00	\$8,000
1077 <i>Dishwasher under-counter</i>	5	EA	\$1,250.00	\$6,250
1078 <i>Built-in electric wall oven</i>	1	EA	\$1,500.00	\$1,500
1079 <i>Range hood</i>	1	EA	\$1,250.00	\$1,250
1080 <i>Electric cooktop</i>	1	EA	\$1,250.00	\$1,250
1081 <i>Ice cube machine</i>	4	EA	\$2,500.00	\$10,000
1082 E1060 Residential Equipment Total				\$49,750
1083				
1084 E1090 Other Equipment				
1085 <i>E1090.10 Projection Screens</i>				
1086 <i>Auditorium</i>	1	EA	\$15,000.00	\$15,000
1087 <i>Media Center</i>	1	EA	\$7,500.00	\$7,500
1088 <i>Corridors</i>	3	EA	\$3,500.00	\$10,500
1089 <i>E1090.20 Laboratory Equipment</i>				
1090 <i>Pegboard</i>	585	SF	\$20.00	\$11,700
1091 <i>Safety Glass Goggle Cabinet</i>	6	EA	\$750.00	\$4,500
1092 <i>Food Service Equipment - budget by Crabtree McGrath Assoc, Inc.</i>	1	LS	\$561,705.00	\$561,705

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
1093 Auditorium; Theatrical and rigging equipment, budget provided				
1094 Stage Dimming System	1	LS	\$90,600.00	\$90,600
1095 Stage Lighting Fixture Budget	1	LS	\$137,289.00	\$137,289
1096 Stage AV and Sound Budget, furnish	1	AL	\$231,692.00	\$231,692
1097 Stage Rigging Budget	1	AL	\$172,458.00	\$172,458
1098 Band Room	1	AL	\$39,346.00	\$39,346
1099 Chorus Room	1	AL	\$39,346.00	\$39,346
1100 Gym audio and video	1	AL	\$129,865.00	\$129,865
1101 Student dining AV / assistive listening system	1	AL	\$114,705.00	\$114,705
1102 Student dining commons video wall incl. install / 86" display monitor	1	AL	\$97,052.00	\$97,052
1103 IDF closet switches for closed circuit television	1	LS	\$7,046.00	\$7,046
1104 TV capability switches for closed circuit television	1	LS	\$7,051.00	\$7,051
1105 Wall pads @ Gym, Adaptive PE, PT/OT	1,530	SF	\$12.00	\$18,360
1106 Motorized backstops	7	EA	\$6,500.00	\$45,500
1107 Roll-fold divider curtain @ Gym	60	LF	\$250.00	\$15,000
1108 Telescoping wood bleachers @ Gym	144	SEAT	\$225.00	\$32,400
1109 Gym, scoreboard system	1	LS	\$32,000.00	\$32,000
1110 Gym equipment other than above	1	LS	\$25,000.00	\$25,000
1111 E1090 Other Equipment Total				\$1,845,615
1112				
1113				
1114 E20 FURNISHINGS				
1115				
1116 E2010 Fixed Furnishings				
1117 <i>E2010.10 Casework</i>				
1118 000 Gen SM Group Resource, work counter, typ	72	LF	\$180.00	\$12,960
1119 000 General Classroom, Entry Veneer Wall, 27 EA, typ	459	SF	\$60.00	\$27,540
1120 000 General Classroom, Millwork, typ	175	LF	\$525.00	\$91,875
1121 007 Sm Group Reading, millwork	6	LF	\$450.00	\$2,700
1122 008 Proj Lab 6th, sill counter	25	LF	\$200.00	\$5,000
1123 023A SPEC, millwork	27	LF	\$525.00	\$14,175
1124 031A 6th Teach Coll, millwork	17	LF	\$540.00	\$9,180
1125 123A SPEC Resource, millwork	23	LF	\$525.00	\$12,075
1126 131A Teacher Coll, counter	17	LF	\$180.00	\$3,060
1127 131A Teacher Coll, millwork	14	LF	\$525.00	\$7,350
1128 141 Media, work counter	29	LF	\$180.00	\$5,220
1129 143 Editing, work counter	13	LF	\$180.00	\$2,340
1130 144B Repair Desk, recpt desk	16	LF	\$950.00	\$15,200
1131 145 Proff Library, storage	4	LF	\$650.00	\$2,600
1132 151 Tech Eng, millwork	9	LF	\$525.00	\$4,725
1133 153 Tech Eng, millwork	9	LF	\$525.00	\$4,725
1134 153 Tech Eng, work counter	38	LF	\$180.00	\$6,840
1135 160B Duplication, millwork	19	LF	\$525.00	\$9,975

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
1136 160B Gen Off, work counter	52	LF	\$180.00	\$9,360
1137 160C2 Mail, counter-millwork	15	LF	\$180.00	\$2,700
1138 160C2 Mail, millwork	7	LF	\$525.00	\$3,675
1139 165A Nurse Wait, millwork	18	LF	\$850.00	\$15,300
1140 165C Exam, millwork	8	LF	\$525.00	\$4,200
1141 166 Health, millwork	9	LF	\$850.00	\$7,650
1142 168 Health, millwork	9	LF	\$850.00	\$7,650
1143 185A Music, millwork	10	LF	\$1,500.00	\$15,000
1144 185B Band Stor, millwork	37	LF	\$1,600.00	\$59,200
1145 188A Music, millwork	6	LF	\$1,500.00	\$9,000
1146 207 Sm Group, millwork	6	LF	\$525.00	\$3,150
1147 223A SPED, millwork	22	LF	\$525.00	\$11,550
1148 231A Teach Coll, counter	17	LF	\$180.00	\$3,060
1149 231A Teach Coll, millwork	18	LF	\$525.00	\$9,450
1150 233A SPED, millwork	6	LF	\$525.00	\$3,150
1151 251 Art, millwork	48	LF	\$850.00	\$40,800
1152 252 Art Stor, millwork	12	LF	\$850.00	\$10,200
1153 253 Art, millwork	49	LF	\$850.00	\$41,650
1154 888 Corridor Wall, Display Wall	87	SF	\$120.00	\$10,440
1155 888 Corridor Wall, Office-Display Wall	143	SF	\$120.00	\$17,160
1156 888 Theater Ticket Window wall/booth	185	SF	\$135.14	\$25,000
1157 999 Plastic Laminate veneer panels, accents	369	SF	\$65.00	\$23,985
1158 999 Millwork, other, less FF&E	1	LS	\$20,560.00	\$20,560
1159 LAB CASEWORK				
1160 009 STE Room 6th, lab casework	54	LF	\$730.00	\$39,420
1161 011B STE Store, lab casework	63	LF	\$730.00	\$45,990
1162 013 STE 6th, lab casework	54	LF	\$730.00	\$39,420
1163 108 Proj Lab, sill counter	38	LF	\$730.00	\$27,740
1164 109 Science 7th, lab casework	68	LF	\$730.00	\$49,640
1165 111B Prep, lab casework	77	LF	\$730.00	\$56,210
1166 113 Science, 7th, lab casework	68	LF	\$730.00	\$49,640
1167 209 Science 8th, lab casework	68	LF	\$730.00	\$49,640
1168 211B Prep, lab casework	77	LF	\$730.00	\$56,210
1169 Lab casework, misc user group pieces-accessories	1	LS	\$24,840.00	\$24,840
1170 <i>E2010.40 Fixed Audience Seating</i>				
1171 Auditorium seating; fixed seats, qty provided	244	EA	\$360.00	\$87,840
1172 Music Classroom seating; telescoping seats, qty provided	150	EA	\$400.00	\$60,000
1173 Window shades, exterior; manually operated	6,514	SF	\$7.00	\$45,598
1174 Window shades; exterior, motorized	5,800	SF	\$12.00	\$69,600
1175 Roller shades at interior windows and sidelights	6,014	SF	\$5.50	\$33,077
1176 Motorized shades at interior storefront	3,515	SF	\$18.00	\$63,270
1177 E2010 Fixed Furnishings Total				\$1,389,565
1178				

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
1179 F20 SELECTIVE BUILDING DEMOLITION				
1180				
1181 F2000 Building Demolition				
1182 Demo existing structure	124,900	GSF	\$6.00	\$749,400
1183 F2000 Building Demolition Total				\$749,400
1184				
1185 F2020 Hazardous Components Abatement				
1186 Hazmat removal at existing building	1	LS	\$818,000.00	\$818,000
1187 F2020 Hazardous Components Abatement Total				\$818,000
1188				
1189				
1190 G10 SITE PREPARATION				
1191				
1192 G1010 Site Clearing				
1193 Clearing & grubbing	4	ACRE	\$5,500.00	\$22,000
1194 R & D trees (Included stump)	1	AL	\$10,000.00	\$10,000
1195 Construction fence installation and maintenance	6,822	LF	\$16.00	\$109,152
1196 Double construction gate	4	EA	\$2,500.00	\$10,000
1197 Temporary construction entrance	2	LS	\$7,500.00	\$15,000
1198 Temporary signs	1	LS	\$5,000.00	\$5,000
1199 Wash down/re-fueling/parking areas	2	EA	\$3,000.00	\$4,500
1200 Tree to protect	1	AL	\$5,000.00	\$5,000
1201 Temporary utility	1	AL	\$25,000.00	\$25,000
1202 <i>Erosion and Sedimentation Controls:</i>				
1203 Erosion control barrier install and maintenance	5,458	LF	\$12.00	\$65,491
1204 Erosion control barrier at temp construction period soil stockpile	3	AL	\$3,500.00	\$10,500
1205 Silt sacks in all ex. drainage structures	1	AL	\$7,500.00	\$7,500
1206 Misc. Environmental Protections	1	AL	\$20,000.00	\$20,000
1207 G1010 Site Clearing Total				\$309,143
1208				
1209 G1020 Site Demolition and Relocations				
1210 Saw cut existing pavement	500	LF	\$12.00	\$6,000
1211 Remove Pavement	87,239	SF	\$0.85	\$74,153
1212 Remove Sidewalks	31,030	SF	\$1.50	\$46,545
1213 Remove Curbing	2,599	LF	\$7.00	\$18,193
1214 Remove Rockwall	533	LF	\$40.00	\$21,320
1215 Remove Site lighting	14	AL	\$1,000.00	\$14,000
1216 Utility Line Demo	5,964	LF	\$10.00	\$59,640
1217 Utility Structure Demo	28	EA	\$250.00	\$7,000
1218 Misc. demolition other than above	1	AL	\$10,000.00	\$10,000
1219 Protection of existing site elements to remain	1	LS	\$7,500.00	\$7,500
1220 Phasing operations	1	LS	\$75,000.00	\$75,000
1221 G1020 Site Demolition and Relocations Total				\$339,351

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
1222				
1223 G1030 Site Earthwork				
1224 Strip and stockpile existing topsoil	14,985	CY	\$10.00	\$149,852
1225 Asphalt pavement cut and fill	5,384	CY	\$12.00	\$64,608
1226 Concrete pavement cut and fill	2,623	CY	\$12.00	\$31,481
1227 Site grading cut and fill	31,184	CY	\$12.00	\$374,206
1228 Export Topsoil	7,301	CY	\$12.00	\$87,609
1229 Export Soils	15,091	CY	\$28.00	\$422,537
1230 Rough and fine grading	1,092,424	SF	\$0.35	\$382,348
1231 Rock removals allowance	1,000	CY	\$225.00	\$225,000
1232 Dewatering	1	AL	\$50,000.00	\$50,000
1233 G1030 Site Earthwork Total				\$1,787,641
1234				
1235				
1236 G20 SITE IMPROVEMENTS				
1237				
1238 G2000 Paving and Surfacing				
1239 G2010 Roadways				
1240 G2020 Parking Lots				
1241 G2030 Pedestrian Paving				
1242 Vehicular Paving				
1243 New asphalt vehicular driveway and parking; 3.5" pavement	145,369	SF	\$3.45	\$501,523
1244 Gravel base to asphalt pavement; 8" thick	3,589	CY	\$32.00	\$114,848
1245 Table Crosswalk	4	EA	\$1,500.00	\$6,000
1246 Paint crosswalk	7	EA	\$1,200.00	\$8,400
1247 Parking stall painting	190	SPACE	\$55.00	\$10,450
1248 HC parking stall painting	8	SPACE	\$350.00	\$2,800
1249 Misc. pavement marking	1	AL	\$3,500.00	\$3,500
1250 Granite curbing	8,254	LF	\$42.00	\$346,668
1251 Traffic signs	1	AL	\$15,000.00	\$15,000
1252 Pedestrian Paving				
1253 Concrete sidewalk; broom swept	57,133	SF	\$9.50	\$542,764
1254 Curb cut	20	EA	\$380.00	\$7,600
1255 Gravel base; 8"	1,420	CY	\$32.00	\$45,440
1256 Concrete sidewalk; colored concrete	5,267	SF	\$16.00	\$84,272
1257 Gravel base; 8"	132	CY	\$32.00	\$4,224
1258 Concrete sidewalk; decorative concrete	239	SF	\$22.00	\$5,258
1259 Gravel base; 8"	6	CY	\$32.00	\$192
1260 Asphalt Paving; 2.5" thick	8,193	SF	\$4.50	\$36,869
1261 Gravel base; 8"	223	CY	\$32.00	\$7,136
1262 G2000 Paving and Surfacing Total				\$1,742,943
1263				

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
1264 G2040 Site Development				
1265 Site Furnishings				
1266 Bench; ornamental	5	EA	\$2,200.00	\$11,000
1267 Outdoor dining table	8	EA	\$4,500.00	\$36,000
1268 Bike rack	35	EA	\$550.00	\$19,250
1269 Exterior litter/recycle receptacle	6	EA	\$1,850.00	\$11,100
1270 Athletic litter/recycle receptacle	8	EA	\$1,850.00	\$14,800
1271 Entrance signs; stone w/ reader	3	EA	\$25,000.00	\$75,000
1272 Flag pole w/ foundation; 30'	4	EA	\$7,500.00	\$30,000
1273 Granite seat blocks	136	LF	\$950.00	\$129,200
1274 Planter w/ granite landscape curb	199	LF	\$125.00	\$24,875
1275 Granite steps	239	SF	\$110.00	\$26,290
1276 Ornamental Handrails	186	LF	\$350.00	\$65,100
1277 Landscape boulder; gravel support	25	EA	\$650.00	\$16,250
1278 Vehicular gate	2	EA	\$9,500.00	\$19,000
1279 Storage container; 10'x15'		EA	\$7,500.00	By Owner
1280 Storage shed; 20'x35' (utilities only)	700	SF	\$195.00	\$136,500
1281 Fencing & Gates				
1282 F-101 Two rail wood fence	374	LF	\$65.00	\$24,310
1283 F-301 4' black vinyl chain-link	178	LF	\$55.00	\$9,790
1284 F-302 6' black vinyl chain-link	2151	LF	\$60.00	\$129,060
1285 F-303 8' black vinyl chain-link	443	LF	\$75.00	\$33,225
1286 F-304 20' ball safety netting	601	LF	\$125.00	\$75,125
1287 F-305 portable outfield fence, NIC				
1288 F-307 green screen, NIC				
1289 Walls				
1290 Segmental block; 4' avg height	65	LF	\$315.00	\$20,475
1291 Segmental block; 6' avg height	164	LF	\$405.00	\$66,420
1292 Segmental block; 9' avg height	146	LF	\$540.00	\$78,840
1293 Concrete retaining wall; concrete step	72	LF	\$115.00	\$8,280
1294 Concrete retaining wall; 4' avg height	65	LF	\$675.00	\$43,875
1295 Concrete retaining wall; 8.5' avg height	71	LF	\$1,087.50	\$77,213
1296 Stone veneer seat wall	231	LF	\$520.00	\$120,120
1297 Gabion Seat Wall 6/L3.04	14	EA	\$3,000.00	\$42,000
1298 Athletic Fields				
1299 Ballfields Improvements				
1300 Sod Turf	381,265	SF	\$1.35	\$514,708
1301 Infield Mix	23,541	SF	\$5.00	\$117,705
1302 Scoreboard	3	EA	\$20,000.00	\$60,000
1303 Softball Backstop	1	EA	\$25,000.00	\$25,000
1304 Baseball Backstop	1	EA	\$40,000.00	\$40,000
1305 Modular Dugouts	4	EA	\$20,000.00	\$80,000
1306 Team Benches	8	EA	\$3,200.00	\$25,600

DIRECT TRADE COST DETAILS

ELEMENT		QUANTITY	UNIT	UNIT RATE	COST
1307	Foul Poles	4	EA	\$3,500.00	\$14,000
1308	Portable Bleachers	2	EA	\$8,500.00	\$17,000
1309	<i>Ballfield Irrigation</i>				
1310	Irrigation pipe; 1"	2,639	LF	\$11.00	\$29,029
1311	Irrigation pipe; 1.5"	6,111	LF	\$13.00	\$79,443
1312	Irrigation pipe; 2"	481	LF	\$15.00	\$7,215
1313	Irrigation pipe; 2.5"	1,727	LF	\$17.00	\$29,359
1314	Mainline pipe; 4"	3,746	LF	\$19.00	\$71,174
1315	Sprinkler head; 6"	234	EA	\$40.00	\$9,360
1316	Electric valve & valve box	50	EA	\$300.00	\$15,000
1317	Quick coupler & valve box	13	EA	\$150.00	\$1,950
1318	Controls & integration	1	LS	\$25,000.00	\$25,000
1319	Misc. site improvement other than above	1	LS	\$25,000.00	\$25,000
1320	G2040 Site Development Total				\$2,529,640
1321					
1322	G2050 Landscaping				
1323	Screen & Respread top soil	7,684	CY	\$15.00	\$115,266
1324	Soil amendment; assumed 50%	3,842	CY	\$65.00	\$249,743
1325	Import topsoil for planting beds, wetlands, shrubs and perennials	945	CY	\$65.00	\$61,427
1326	Loam and seed	414,958	SF	\$0.25	\$103,740
1327	Deciduous Trees	153	EA	\$1,200.00	\$183,600
1328	Wetland Trees	13	EA	\$951.00	\$12,363
1329	Evergreen Trees	14	EA	\$750.00	\$10,500
1330	Shrub Plantings	60	EA	\$120.00	\$7,200
1331	Plugs	2,005	EA	\$3.00	\$6,015
1332	Wetland Plug Areas	1,692	SF	\$2.50	\$4,230
1333	Bioretention Wetland Seeded Areas	7,868	SF	\$1.50	\$11,802
1334	Bioretention Soil Mix	874	CY	\$65.00	\$56,824
1335	12" Crushed Stone	291	CY	\$45.00	\$13,113
1336	G2050 Landscaping Total				\$835,824
1337					
1338					

DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
1339 G30 SITE MECHANICAL UTILITIES				
1340				
1341 G3010 Water Supply				
1342 Hydrant and 6" gate valve	4	EA	\$4,200.00	\$16,800
1343 6" DI Water Main	150	LF	\$95.00	\$14,250
1344 8" DI Water Main	2,883	LF	\$105.00	\$302,715
1345 8" DI bends	29	EA	\$185.00	\$5,365
1346 8" Fire Main	22	LF	\$110.00	\$2,420
1347 4" Water Service Main	173	LF	\$85.00	\$14,705
1348 Gate valve; 8"	28	EA	\$3,200.00	\$89,600
1349 Gate valve; 4"	2	EA	\$2,800.00	\$5,600
1350 Connection To Existing	2	EA	\$12,500.00	\$25,000
1351 Thrust blocks	1	LS	\$2,500.00	\$2,500
1352 G3010 Water Supply Total				\$478,955
1353				
1354 G3020 Sanitary Sewer				
1355 New sanitary sewer service connect to the 8" sewer main	1,159	LF	\$75.00	\$86,925
1356 Grease Trap (inc in plumbing)				
1357 Sanitary Manhole	12	EA	\$4,200.00	\$50,400
1358 Connection To Existing	1	EA	\$7,500.00	\$7,500
1359 G3020 Sanitary Sewer Total				\$144,825
1360				
1361 G3030 Storm Sewer				
1362 06" HDPE	3,638	LF	\$55.00	\$200,090
1363 12" HDPE	1,224	LF	\$65.00	\$79,560
1364 18" HDPE	19	LF	\$75.00	\$1,425
1365 12" RCP	4,230	LF	\$80.00	\$338,400
1366 15" RCP	1,310	LF	\$90.00	\$117,900
1367 18" RCP	230	LF	\$100.00	\$23,000
1368 12" FES	4	EA	\$650.00	\$2,600
1369 18" FES	1	EA	\$950.00	\$950
1370 Trench Drain	41	EA	\$1,275.00	\$52,275
1371 Area Drain	45	EA	\$1,275.00	\$57,375
1372 Catch Basin	29	EA	\$3,800.00	\$110,200
1373 Connect to Existing	2	EA	\$6,500.00	\$13,000
1374 Hydrodynamic Separator	6	EA	\$13,250.00	\$79,500
1375 Manhole	29	EA	\$4,580.00	\$132,820
1376 Manhole 5'	2	EA	\$4,850.00	\$9,700
1377 Manhole; 6'	7	EA	\$5,120.00	\$35,840
1378 Outlet Control Structure	3	EA	\$6,840.00	\$20,520
1379 Technology Vault Drain	4	EA	\$5,500.00	\$22,000
1380 Stone Check Dam	2	EA	\$1,250.00	\$2,500
1381 Bioretention Areas	4,945	SF	\$8.00	\$39,560



DIRECT TRADE COST DETAILS

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
1382 Underground Detention Vault 1; 136.5 X 40.5 X 4.5	5,528	SF	\$50.00	\$276,413
1383 Underground Detention Vault 2; 136.5 X 40.5 X 4.5	5,528	SF	\$50.00	\$276,413
1384 Underground Infiltration Chamber - 89 x 55 x 3.21	4,895	SF	\$35.00	\$171,325
1385 Footing Drain; assumed	1,800	LF	\$18.00	\$32,400
1386 Ballfield 2" sand drains	18,509	LF	\$12.00	\$222,108
1387 G3030 Storm Sewer Total				\$2,317,873
1388				
1389 G3060 Fuel Distribution				
1390 Gas pipe trench (excavation & backfill only)	505	LF	\$35.00	\$17,675
1391 G3060 Fuel Distribution Total				\$17,675
1392				
1393 G40 Site Electrical Utilities				
1394 G4010 Electrical Distribution				
1395 G4020 Site Lighting				
1396 G4030 Site Communications & Security				
1397 <i>Site Utilities</i>				
1398 Primary pole riser 2-4" GRC	1	EA	4,723.33	\$4,723
1399 Primary service 2x 4" PVC duct banks	289	LF	24.10	\$6,965
1400 Transformer pad grounding	1	EA	2,145.08	\$2,145
1401 Secondary service (9) 4" PVC	253	LF	1,071.18	\$271,007
1402 Generator feeder 4-4" PVC	250	LF	448.00	\$112,000
1403 Generator to ATS #2 2" PVC	250	LF	23.22	\$5,805
1404 Generator controls and unit systems 3-1" PVC	250	LF	16.79	\$4,198
1405 Generator to gen annunciator 2"PVC	250	LF	22.09	\$5,523
1406 Generator pad grounding	1	EA	3,553.53	\$3,554
1407 Type SL1 Site pole single head 20' pole	41	EA	1,960.00	\$80,360
1408 Type SL2 Sidewalk pole single head 12' pole	14	EA	1,880.00	\$26,320
1409 Type SL4 LED Flag pole top flood	2	EA	900.00	\$1,800
1410 Type SL3 Site pole dual head 20' pole	2	EA	3,200.30	\$6,401
1411 Precast site lighting pole base	59	EA	825.00	\$48,675
1412 Site lighting branch 1 1/4" PVC 4#8	5,810	LF	14.38	\$83,544
1413 Communication pole riser 4-4" GRC	1	EA	8,842.69	\$8,843
1414 Comm service 4x 4" PVC	320	LF	73.10	\$23,392
1415 Electric Vehicle Charging Station	2	EA	15,000.00	\$30,000
1416 Security Cameras at Exterior Site Parking	1	LS	100,000.00	\$100,000
1417 Security Cameras at Exterior Site Field	1	LS	100,000.00	\$100,000
1418 G4010 Electrical Distribution Total				\$925,253

ALTERNATES

ELEMENT		QUANTITY	UNIT	UNIT RATE	COST
8	Alternate # 01				
9	ALT 1: Reinstall existing PV array	1	LS		
10	Reinstall existing PV array	285	KW	\$1,754.39	\$500,000
11	Subtotal for Trade Work Above:				\$500,000
12	<i>Mark-ups and Contingencies</i>	14.40%			\$72,000
13	Total for - Alternate # 01			ADD	\$572,000
15	Alternate # 02A				
16	ALT 2A: Well for site irrigation				
17	Bedrock Well	1	LS	\$57,000.00	\$57,000
18	Well Pump & Controls/Integration	1	LS	\$25,000.00	\$25,000
19	Subtotal for Trade Work Above:				\$82,000
20	<i>Mark-ups and Contingencies</i>	14.40%			\$11,808
21	Total for - Alternate # 02A			ADD	\$93,808