

East Greenwich School District



EAST GREENWICH
PUBLIC SCHOOLS

Hanaford Elementary School Cost Estimates

New vs. Add/Reno





George Hanaford Elementary School Add/Reno, East Greenwich RI, 24 0150

Add Reno of Existing School
 Addition Area 33,175 SF
 Reno Area 25,290 SF

58465 SF Schools Last Updated
 Year 2024 Cost File 2024 PROVIDENCE UNION AV 1/22/2024 3:33:49 PM

Project Summary

Division	Total		
01 General Requirements	1,523,000	\$26.05 /SF	4.5 %
02 Existing Conditions	517,729	\$8.86 /SF	1.5 %
03 Concrete	1,627,072	\$27.83 /SF	4.8 %
04 Masonry	1,918,090	\$32.81 /SF	5.7 %
05 Metals	3,107,309	\$53.15 /SF	9.2 %
06 Wood, Plastics, and Composites	482,016	\$8.24 /SF	1.4 %
07 Thermal and Moisture Protection	4,469,998	\$76.46 /SF	13.3 %
08 Openings	1,354,354	\$23.17 /SF	4.0 %
09 Finishes	3,202,696	\$54.78 /SF	9.5 %
10 Specialties	477,759	\$8.17 /SF	1.4 %
11 Equipment	489,743	\$8.38 /SF	1.5 %
12 Furnishings	1,464,207	\$25.04 /SF	4.4 %
13 Special Construction	272,000	\$4.65 /SF	0.8 %
21 Fire Suppression	255,448	\$4.37 /SF	0.8 %
22 Plumbing	809,435	\$13.84 /SF	2.4 %
23 Heating, Ventilating, and Air Conditioning (HVA	3,767,485	\$64.44 /SF	11.2 %
26 Electrical	2,747,855	\$47.00 /SF	8.2 %
27 Communications	1,807,216	\$30.91 /SF	5.4 %
28 Electronic Safety and Security	138,450	\$2.37 /SF	0.4 %
31 Earthwork	1,632,655	\$27.93 /SF	4.9 %
32 Exterior Improvements	987,213	\$16.89 /SF	2.9 %
33 Utilities	604,361	\$10.34 /SF	1.8 %

Sub Total		33,656,090	575.66 / SF
Profit	10 %	3,365,609	
Bond	1 %	336,561	
Contingency Design	5 %	1,682,805	
Construction Contingency	10 %	3,365,609	
Grand Total		42,406,680	725.33 / SF



CONSTRUCTION COST ENGINEERING OF BOSTON

Sub Division Summary

George Hanaford Elementary School Add/Reno, East Greenwich RI, 24 0150			
Add Reno of Existing School			
Addition Area 33,175 SF			
Reno Area 25,290 SF			
58465 SF	Schools	Last Updated	
Year 2024	Cost File 2024 PROVIDENCE UNION AV	1/22/2024 3:33:49 PM	

SubDivision	Description	Total	
<u>01 General Requirements</u>		<u>\$1,523,000</u>	
01 00 00	General Requirements	\$1,024,634	17.53 SF
01 31 00	Project Management and Coordination	\$33,000	0.56 SF
01 32 00	Construction Progress Documentation	\$20,913	0.36 SF
01 43 36	Field Samples	\$5,500	0.09 SF
01 43 39	Mockups	\$6,954	0.12 SF
01 50 00	Temporary Facilities and Controls	\$340,008	5.82 SF
01 60 00	Product Requirements	\$54,604	0.93 SF
01 74 00	Cleaning and Waste Management	\$37,388	0.64 SF
<u>02 Existing Conditions</u>		<u>\$517,729</u>	
02 41 00	Demolition	\$55,891	0.96 SF
02 41 19.13	Selective Building Demolition	\$33,127	0.57 SF
02 41 19.16	Selective Interior Demolition	\$428,711	7.33 SF
<u>03 Concrete</u>		<u>\$1,627,072</u>	
03 10 00	Concrete Forming and Accessories	\$75,111	1.28 SF
03 20 00	Concrete Reinforcing	\$218,111	3.73 SF
03 30 00	Cast-In-Place Concrete	\$1,305,884	22.34 SF
03 54 00	Cast Underlayment	\$27,966	0.48 SF

SubDivision	Description	Total	
<u>04 Masonry</u>		<u>\$1,918,090</u>	
04 05 13	Masonry Mortaring	\$2,127	0.04 SF
04 05 19.16	Masonry Anchors	\$27,976	0.48 SF
04 21 13	Brick Masonry	\$410,673	7.02 SF
04 21 13.13	Brick Veneer Masonry	\$373,115	6.38 SF
04 22 00	Concrete Unit Masonry	\$758,833	12.98 SF
04 43 00	Stone Masonry	\$345,366	5.91 SF
<u>05 Metals</u>		<u>\$3,107,309</u>	
05 12 00	Structural Steel Framing	\$2,154,742	36.86 SF
05 31 00	Steel Decking	\$252,191	4.31 SF
05 40 00	Cold-Formed Metal Framing	\$472,009	8.07 SF
05 50 00	Metal Fabrications	\$228,368	3.91 SF
<u>06 Wood, Plastics, and Composites</u>		<u>\$482,016</u>	
06 10 00	Rough Carpentry	\$202,032	3.46 SF
06 20 00	Finish Carpentry	\$91,630	1.57 SF
06 40 23	Interior Architectural Woodwork	\$188,354	3.22 SF
<u>07 Thermal and Moisture Protection</u>		<u>\$4,469,998</u>	
07 11 00	Dampproofing	\$28,895	0.49 SF
07 17 00	Bentonite Waterproofing	\$3,114	0.05 SF
07 20 00	Thermal Protection	\$326,048	5.58 SF
07 21 00	Thermal Insulation	\$1,390,742	23.79 SF
07 21 14	Foundation Insulation	\$8,472	0.14 SF
07 22 00	Roof and Deck Insulation	\$76,850	1.31 SF
07 26 16	Below-Grade Vapor Retarders	\$18,837	0.32 SF
07 27 00	Air Barriers	\$99,160	1.70 SF
07 27 23	Board Product Air Barriers	\$127,681	2.18 SF

SubDivision	Description	Total	
07 27 26	<i>Fluid-Applied Membrane Air Barriers</i>	\$1,335	0.02 SF
07 40 00	<i>Roofing and Siding Panels</i>	\$9,799	0.17 SF
07 42 00	<i>Wall Panels</i>	\$122,122	2.09 SF
07 42 13	<i>Rain Screen Wall Assembly</i>	\$1,131,451	19.35 SF
07 52 00	<i>Modified Bituminous Membrane Roofin</i>	\$540,951	9.25 SF
07 54 16	<i>Ketone Ethylene Ester Roofing</i>	\$51,354	0.88 SF
07 60 00	<i>Flashing and Sheet Metal</i>	\$168,421	2.88 SF
07 71 23	<i>Manufactured Gutters and Downspouts</i>	\$45,390	0.78 SF
07 72 00	<i>Roof Accessories</i>	\$8,511	0.15 SF
07 84 00	<i>Firestopping</i>	\$15,735	0.27 SF
07 92 00	<i>Joint Sealants</i>	\$295,132	5.05 SF

08 Openings**\$1,354,354**

08 11 00	<i>Metal Doors and Frames</i>	\$93,467	1.60 SF
08 14 00	<i>Wood Doors</i>	\$46,789	0.80 SF
08 30 00	<i>Specialty Doors and Frames</i>	\$69,236	1.18 SF
08 31 00	<i>Access Doors and Panels</i>	\$3,327	0.06 SF
08 41 13	<i>Aluminum-Framed Entrances and Store</i>	\$198,406	3.39 SF
08 44 00	<i>Curtain Wall and Glazed Assemblies</i>	\$67,033	1.15 SF
08 49 00	<i>Interior Glass Assemblies</i>	\$140,203	2.40 SF
08 51 13	<i>Aluminum Windows</i>	\$506,530	8.66 SF
08 62 00	<i>Unit Skylights</i>	\$8,645	0.15 SF
08 71 00	<i>Door Hardware</i>	\$145,329	2.49 SF
08 81 00	<i>Glass Glazing</i>	\$14,306	0.24 SF
08 88 56	<i>Ballistics-Resistant Glazing</i>	\$54,909	0.94 SF
08 90 00	<i>Louvers and Vents</i>	\$6,174	0.11 SF

09 Finishes**\$3,202,696**

09 21 16	<i>Gypsum Board Assemblies</i>	\$870,399	14.89 SF
09 21 16.23	<i>Gypsum Board Shaft Wall Assemblies</i>	\$63,642	1.09 SF
09 22 13	<i>Metal Furring</i>	\$8,798	0.15 SF

SubDivision	Description	Total	
09 22 16.13	Non-Structural Metal Stud Framing	\$27,171	0.46 SF
09 30 00	Tiling	\$526,081	9.00 SF
09 51 00	Acoustical Ceilings	\$524,232	8.97 SF
09 62 00	Specialty Flooring	\$37,038	0.63 SF
09 65 00	Resilient Flooring	\$103,717	1.77 SF
09 65 66	Resilient Athletic Flooring	\$123,969	2.12 SF
09 68 00	Carpeting	\$255,734	4.37 SF
09 68 13	Tile Carpeting	\$1,695	0.03 SF
09 81 29	Sprayed Acoustic Insulation	\$119,768	2.05 SF
09 83 13	Acoustic Wall Coating	\$34,950	0.60 SF
09 84 13	Fixed Sound-Absorptive Panels	\$128,105	2.19 SF
09 91 00	Painting	\$377,396	6.46 SF

10 Specialties**\$477,759**

10 11 00	Visual Display Units	\$350,000	5.99 SF
10 14 00	Signage	\$72,131	1.23 SF
10 21 13.16	Plastic-Laminate-Clad Toilet Compartm	\$20,688	0.35 SF
10 28 00	Toilet, Bath, and Laundry Accessories	\$23,479	0.40 SF
10 44 00	Fire Protection Specialties	\$7,173	0.12 SF
10 55 00	Postal Specialties	\$3,287	0.06 SF
10 82 00	Grilles and Screens	\$1,000	0.02 SF

11 Equipment**\$489,743**

11 13 00	Loading Dock Equipment	\$7,999	0.14 SF
11 30 00	Residential Equipment	\$17,398	0.30 SF
11 40 00	Foodservice Equipment	\$387,591	6.63 SF
11 52 13	Projection Screens	\$14,015	0.24 SF
11 66 00	Athletic Equipment	\$62,739	1.07 SF

12 Furnishings**\$1,464,207**

12 00 00	Furnishings	\$1,150,000	19.67 SF
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SubDivision	Description	Total	
12 20 00	Window Treatments	\$8,114	0.14 SF
12 30 00	Casework	\$200,976	3.44 SF
12 48 13	Entrance Floor Mats and Frames	\$43,043	0.74 SF
12 48 43	Floor Mats	\$12,076	0.21 SF
12 66 13	Telescoping Bleachers	\$49,998	0.86 SF
<u>13 Special Construction</u>		<u>\$272,000</u>	
13 00 00	Special Construction	\$272,000	4.65 SF
<u>21 Fire Suppression</u>		<u>\$255,448</u>	
21 13 13	Wet-Pipe Sprinkler Systems	\$255,448	4.37 SF
<u>22 Plumbing</u>		<u>\$809,435</u>	
22 00 00	Plumbing	\$802,835	13.73 SF
22 08 00	Commissioning of Plumbing	\$6,600	0.11 SF
<u>23 Heating, Ventilating, and Air Conditioning (HVAC)</u>		<u>\$3,767,485</u>	
23 30 00	HVAC Air Distribution	\$3,767,485	64.44 SF
<u>26 Electrical</u>		<u>\$2,747,855</u>	
26 00 00	Electrical	\$2,747,855	47.00 SF
<u>27 Communications</u>		<u>\$1,807,216</u>	
27 13 23	Communications Optical Fiber Backbone	\$8,527	0.15 SF
27 15 13	Communications Copper Horizontal Ca	\$98,133	1.68 SF
27 20 00	Data Communications	\$1,700,556	29.09 SF
<u>28 Electronic Safety and Security</u>		<u>\$138,450</u>	
28 16 00	Access Control Interfaces	\$11,161	0.19 SF

SubDivision	Description	Total	
28 20 00	Video Surveillance	\$44,151	0.76 SF
28 31 00	Intrusion Detection	\$83,138	1.42 SF

31 Earthwork

\$1,632,655

31 13 00	Selective Tree and Shrub Removal and	\$55,485	0.95 SF
31 20 00	Earth Moving	\$575,045	9.84 SF
31 23 23.23	Compaction	\$12,839	0.22 SF
31 25 00	Erosion and Sedimentation Controls	\$97,193	1.66 SF
31 61 00	Ground Improvement Piers	\$892,093	15.26 SF

32 Exterior Improvements

\$987,213

32 12 16	Asphalt Paving	\$244,445	4.18 SF
32 16 14	Precast Concrete Curbs	\$155,613	2.66 SF
32 16 23	Sidewalks	\$356,060	6.09 SF
32 17 13	Parking Bumpers	\$10,894	0.19 SF
32 17 23	Pavement Markings	\$9,395	0.16 SF
32 31 13	Chain Link Fences and Gates	\$63,490	1.09 SF
32 90 00	Planting	\$73,752	1.26 SF
32 91 19.13	Topsoil Placement and Grading	\$29,645	0.51 SF
32 92 19	Seeding	\$33,505	0.57 SF
32 93 43	Trees	\$10,415	0.18 SF

33 Utilities

\$604,361

33 00 00	Utilities	\$38,737	0.66 SF
33 01 10.58	Disinfection of Water Utility Piping Syst	\$1,540	0.03 SF
33 05 09	Piping Specials for Utilities	\$41,894	0.72 SF
33 05 61	Concrete Manholes	\$78,733	1.35 SF
33 14 16	Site Water Utility Distribution Piping	\$152,115	2.60 SF
33 31 13	Site Sanitary Sewerage Gravity Piping	\$62,937	1.08 SF
33 41 00	Subdrainage	\$228,405	3.91 SF

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Sub Total		33,656,090
Profit	10 %	3,365,609
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575.66 / SF

725.33 / SF



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Description	Quantity	Unit	Unit Cost	Extended Cost
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01 General Requirements

01 00 00 General Requirements

Field engineer	26	WEEK	4055.01	105,430
General superintendent	78	WEEK	4975.53	388,091
Asst. superintendent	78	WEEK	4423.64	345,044
Cutting & patching, misc.	5	JOB	330.00	1,650
Project manager	38	WEEK	4853.12	184,419
				1,024,634

01 00 00 General Requirements 1,024,634

01 31 00 Project Management and Coordination

Insurance, 1%	33000	JOB	1.00	33,000
				33,000

01 31 00 Project Management and Coordination 33,000

01 32 00 Construction Progress Documentation

Scheduling, progress cpm	1	EA	3300.00	3,300
Shop drawings/product data sheets	1	TOTAL	2750.00	2,750
Progress photos	18	SET	220.00	3,960
Scheduling, cpm, update	17	EA	275.00	4,675
Additional drawings	5	JOB	275.00	1,375
Drawings, as built	1	SET	4853.12	4,853
				20,913

01 32 00 Construction Progress Documentation 20,913

01 43 36 Field Samples

Test & samples, conc/motar	5	JOB	1100.00	5,500
				5,500

01 43 36 Field Samples 5,500

01 General Requirements

Description	Quantity	Unit	Unit Cost	Extended Cost
01 43 39 Mockups				
Mock up panel 4'x4', number required to be determined	1	EA	6953.74	6,954
01 43 39 Mockups				6,954
01 50 00 Temporary Facilities and Controls				
Fax w/dedicared telephone line	18	MONTH	275.00	4,950
Temporary heat, 12 hrs day, per wk	960	CSFFLR	26.48	25,422
Temporary electric, power/lights	18	MONTH	599.94	10,799
Temporary water	18	MONTH	55.00	990
Cleaning general, site	390	HR	106.83	41,665
Office trailer, furnished, 36'x8'	18	MONTH	264.00	4,752
Storage trailer, 28'x10'	18	MONTH	110.00	1,980
Temporary doors, 5 per job	4	EA	1723.67	6,895
Project sign, 4' x 8' x 1 7/8"	1	EA	2223.28	2,223
Temp fence on 2"x4"frame 8'	500	LF	40.49	20,245
Temporary fire, protection	18	JOB	550.00	9,900
Rubbish removal, 40 cy capacity	69	LOAD	660.00	45,540
Snow removal	5	DAY	3049.24	15,246
Telephone, general clerk use	18	MONTH	275.00	4,950
Tarpaulins, reinf. polyethylene	25000	SF	0.13	3,300
Office trailer w/conference	18	MONTH	616.00	11,088
Scaffolding for gc for subs	47000	SF	1.80	84,398
Cleaning general, site	390	HR	106.83	41,665
Internet Service	18	Mo.	100.00	1,800
Office trailer, relocated	2	EA	1100.00	2,200
01 50 00 Temporary Facilities and Controls				340,008
01 60 00 Product Requirements				
Toilet, portable chemical, rent	36	MONTH	99.00	3,564
Trucking, general site use	18	JOB	550.00	9,900
Small tools, purchase/rent	18	JOB	330.00	5,940
Equipment rentals, misc	8	JOB	4400.00	35,200
01 60 00 Product Requirements				54,604
01 74 00 Cleaning and Waste Management				
Clean-up, final	2	WEEK	8546.65	17,093
Punchlist, survey/check	4	WEEK	5073.59	20,294

01 General Requirements

Description	Quantity	Unit	Unit Cost	Extended Cost
01 74 00	Cleaning and Waste Management			37,388

02 Existing Conditions**02 41 00 Demolition**

Saw cut, asphalt, to 3" deep	600	LF	1.49	891
Site demo	1	ALLOW	55000.00	55,000
02 41 00	Demolition			55,891

02 41 19.13 Selective Building Demolition

Labor only, wreckers 4 man crew	10	DAY	3312.72	33,127
02 41 19.13	Selective Building Demolition			33,127

02 41 19.16 Selective Interior Demolition

Gutting, bldg interior	25280	SFFLR	16.96	428,711
02 41 19.16	Selective Interior Demolition			428,711

03 Concrete**03 10 00 Concrete Forming and Accessories**

Anchor bolts, 3/4"x 24"	248	EA	26.43	6,554
Forms, wall brickshelf, 4" wide 1 use	2376	SFCA	26.54	63,053
Keyway, 2x4, 1 use	2244	LF	2.45	5,504
03 10 00	Concrete Forming and Accessories			75,111

03 20 00 Concrete Reinforcing

Reinforcing, footings & walls 100#/cy	79	TON	1644.26	129,896
Welded wire fabric, 6x6-w2.9xw2.9	350	CSF	108.25	37,888
Welded wire fabric, 6x6-w1.4xw1.4	444.56	CSF	80.47	35,776
Reinforcing, over bms & colms .5#/sf	8.85	TON	1644.26	14,552
03 20 00	Concrete Reinforcing			218,111

03 30 00 Cast-in-Place Concrete

Saw cut, conc slab, per 1" deep	8000	LF	2.44	19,495
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03 Concrete

Description	Quantity	Unit	Unit Cost	Extended Cost
Conc. in place, inter cmu ftg.12"	138	CY	331.37	45,730
Concrete in place, stripfoot	130	CY	331.37	43,079
Concrete in place, grade wall 4' xfmr	23.1	CY	1010.23	23,336
Concrete in place, piers	22	CY	1246.15	27,415
Concrete in place, ground slab, 4"	33175	SF	5.95	197,307
Finishing floor, steeltrowel	33175	SF	1.59	52,658
Concrete in place, stairs, grndcast	145	LFNOSE	55.92	8,108
Elevator pit wall 12", 16"& slab 15" thk	35	CY	1301.41	45,549
Concrete, sealer, hardener&dustprf	1672	SF	0.50	829
Concrete platforms	9	EA	1063.63	9,573
Concrete in place, ground slab, 5"	3000	SF	6.45	19,355
Concrete, f/ stair pan landing, treads	270	SF	10.38	2,804
Concrete, mech/elec equip. pads	6	EA	1063.63	6,382
Grout, column, 2"thick, non shrink	248	SF	37.05	9,189
Control joint sealant	8938	LF	2.29	20,503
Retaining wall, concrete	30	LF	743.00	22,290
Concrete in place, spread footings	200	CY	551.29	110,257
Concrete in place, 4 1/2" slab, on metal deck	33175	SF	4.79	159,037
Concrete in place, grade wall 16"x3'-0 high 1,366lf	237.33	CY	620.31	147,218
Concrete in place, ground slab, 6" xmfr	1232	SF	5.28	6,510
Concrete in place, ret. wall18"x10"high in bldg	190	CY	633.67	120,398
Concrete in place, stripfoot 2.5'wide x 15" thk. 1,366lf	167.8	CY	331.37	55,605
Concrete in place, stripfoot 2.5'wide x 15" thk. 390' xfmr	14.45	CY	331.37	4,788
Concrete in place, grade wall 4' x20" x488lf gym	105.6	CY	1010.23	106,681
Concrete in place, stripfoot,2'-6' x12" thk in bldg	32	CY	371.25	11,880
Concrete in place, piers f/canopy 2x3x6 (18)	24	CY	1246.15	29,908

03 30 00 Cast-In-Place Concrete**1,305,884****03 54 00 Cast Underlayment**

Underlayment, 1/4" thick R-deck	26043	SF	1.07	27,966
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03 54 00 Cast Underlayment**27,966****04 Masonry**

04 Masonry

Description	Quantity	Unit	Unit Cost	Extended Cost
04 05 13 Masonry Mortaring				
Weep Vent Inserts	500	EA	1.58	792
Weeps	500	EA	2.67	1,336
04 05 13 Masonry Mortaring				2,127
04 05 19.16 Masonry Anchors				
Wall ties, brickveneer, pintle wall ties 16ga, 1.77/sf 16" oc ew	217	C	128.92	27,976
04 05 19.16 Masonry Anchors				27,976
04 21 13 Brick Masonry				
Joint reinforcing, #5bar vertical	18000	LB	1.28	23,015
Lintels	800	LF	24.48	19,580
Control joint, pvc 4" wall	1200	LF	4.29	5,146
Grouting, cmu cores, 8" thick	2032	SF	5.93	12,057
Grouting, cmu cores, 12" thick	4590	SF	6.96	31,962
Grouting, door frames	85	OPNG	98.09	8,337
Joint reinforcing, #4bar horizontal	5350	LB	2.67	14,290
Staging, 2 use per month	61000	SF	2.80	170,588
Forklift, w/ operator	80	DAY	1351.26	108,101
Grouting, cmu cores, 6" thick	3000	SF	5.30	15,894
Mortar Dropping Collection Device 1	600	LF	2.84	1,702
04 21 13 Brick Masonry				410,673
04 21 13.13 Brick Veneer Masonry				
Brick veneer, Norman \$1,310/m 4.57/sf (2.25" h x 3.625" w 11.625" l) w/3/8"joint	12044	SF	30.98	373,115
04 21 13.13 Brick Veneer Masonry				373,115
04 22 00 Concrete Unit Masonry				
Cmu, partition, 8" thick	2552	SF	13.82	35,256
Cmu window headers	700	LF	19.25	13,475
Cmu, back up, 8"thick	980	SF	14.89	14,593
Cmu, back up, 12"thick	20000	SF	18.95	378,961
Cmu, partition, 6" thick	3000	SF	14.41	43,227
Cmu, bond beam, 6"thick	500	LF	16.00	8,000
Cmu, bond beam, 8"thick	2652	LF	18.67	49,510

04 Masonry

Description	Quantity	Unit	Unit Cost	Extended Cost
Cmu, bond beam, 12"thick	1448	LF	25.22	36,517
Cmu, white , acoustical 8x16x12" thick	7826	SF	22.91	179,295
04 22 00 Concrete Unit Masonry				758,833

04 43 00 Stone Masonry

Natural Veneer, field stone, 4", watertable	5500	SF	62.79	345,366
04 43 00 Stone Masonry				345,366

05 Metals**05 12 00 Structural Steel Framing**

Structural steel framing 12#/sf @ 33,175 sf	200	TON	5067.54	1,013,508
Struct steel framing connections 5%	20	TON	5067.54	101,351
Struct steel colm bearing plates	1.25	TON	5067.54	6,334
Welded shear connector, 3/4"x3-3/8" at 5.42sf/each	4950	EA	3.43	17,003
Scissor lift,25' high, 1000 lb. capacity w/o operator	100	DAY	132.00	13,200
Struct steel framing 6#/sf, roof	187	TON	5067.54	947,630
Steel beams in existing corridor	20	TON	2785.79	55,716
05 12 00 Structural Steel Framing				2,154,742

05 31 00 Steel Decking

Metal deck, 20 ga galv, 3" roof	58465	SF	4.20	245,375
Metal decking, edge closureform18ga	1280	LF	5.32	6,816
05 31 00 Steel Decking				252,191

05 40 00 Cold-Formed Metal Framing

Metal stud, lb partition 16ga. 8" 24"o.c.	47000	SF	10.04	472,009
05 40 00 Cold-Formed Metal Framing				472,009

05 50 00 Metal Fabrications

Railing, wall hung	90	LF	23.21	2,089
Railing, roof 42" high	248	LF	76.18	18,893
Railing, steel pipe	90	LF	111.37	10,023

05 Metals

Description	Quantity	Unit	Unit Cost	Extended Cost
Ladder, steel, roof	35	VLF	145.22	5,083
Ladder, steel interior	28	VLF	134.22	3,758
Railing, steel pipe replace of glass railing	177	LF	277.75	49,161
Railing, roof fall protection for cleaning gutters	428	LF	76.18	32,605
Misc metals, allowance	85000	sf	1.10	93,500
Rooftop mechanical enclosure screens f/5 units, 6' h	500	SF	26.51	13,256
05 50 00 Metal Fabrications				228,368

06 Wood, Plastics, and Composites**06 10 00 Rough Carpentry**

Framing, pt sill 2"x8" 1,318lf 1.34bf/lf	1.76	MBF	2338.29	4,115
Labor only, carpenter	200	DAY	752.23	150,447
Blocking, wood 2"x4"	5	MBF	4188.52	20,943
Blocking, p.t.wood 2"xs	6	MBF	4421.17	26,527
06 10 00 Rough Carpentry				202,032

06 20 00 Finish Carpentry

Window sills, solid surface	700	LF	49.50	34,650
Benches, along cy wall	18	LF	110.00	1,980
Millwork allowance	1	TOTAL	55000.00	55,000
06 20 00 Finish Carpentry				91,630

06 40 23 Interior Architectural Woodwork

Shelving, 12" o.c.	182	SFFACE	22.08	4,019
Maple panel system 2'-0" high	170	LF	13.20	2,244
Student White board cubbies w/shelf	525	Ea	346.84	182,091
06 40 23 Interior Architectural Woodwork				188,354

07 Thermal and Moisture Protection**07 11 00 Dampproofing**

Asphalt coat, spray,2 coat,belowgrade	9500	SF	2.22	21,125
Ice & water shield, walls/windows	12500	SF	0.62	7,770

07 Thermal and Moisture Protection

Description	Quantity	Unit	Unit Cost	Extended Cost
07 11 00 Dampproofing				28,895
07 17 00 Bentonite Waterproofing				
Water proofing, Bentonite Rolls 3/8" elevator pit	265	SF	11.75	3,114
07 17 00 Bentonite Waterproofing				3,114
07 20 00 Thermal Protection				
Insulation, fiberglass batts exterior	46500	SF	2.11	98,334
Insulation, fiberglass batts interior	62500	SF	1.84	114,982
Sheathing, gypsum, 5/8" thick, wp.	46500	SF	2.42	112,731
07 20 00 Thermal Protection				326,048
07 21 00 Thermal Insulation				
Insulation, rigid, 4" wall	47000	SF	2.33	109,560
Roof deck insul, 5"layer polyiso	58465	SF	3.87	225,969
Rigid floor slab insul, 2" 45 psi	33175	SF	1.76	58,228
Roof deck coverboard, dens deck 1/4"	58465	SF	1.32	77,241
Insulation, Phenolic 4" rigid wall	43901	SF	10.07	442,013
Knightwall Cl/HCl comfort board	35595	SF	12.66	450,673
Insulation, mineral fiber kraft f ace 8"	1000	SF	1.76	1,764
Rigid insulation,3" R15	11200	SF	2.26	25,294
07 21 00 Thermal Insulation				1,390,742
07 21 14 Foundation Insulation				
Rigid floor insulation, 1"permimeter	6300	SF	1.34	8,472
07 21 14 Foundation Insulation				8,472
07 22 00 Roof and Deck Insulation				
Roof deck coverboard, iso 1/2	58465	SF	1.31	76,850
07 22 00 Roof and Deck Insulation				76,850
07 26 16 Below-Grade Vapor Retarders				
Vapor barrier, polyethylene,.01"t sog	520	SQ	36.22	18,837
07 26 16 Below-Grade Vapor Retarders				18,837

07 Thermal and Moisture Protection

Description	Quantity	Unit	Unit Cost	Extended Cost
07 27 00 Air Barriers				
Spray on wp ,2 coat cmu	14000	SF	2.22	31,131
Air barrier, peel & stick w.p. membrane inc window openings	28000	SF	2.43	68,029
07 27 00 Air Barriers				99,160
07 27 23 Board Product Air Barriers				
Vapor barrier, polyethylene,.006"t roof	584	SQ	31.82	18,586
Sheathing, gypsum, 5/8" thick, wp.	45000	SF	2.42	109,095
07 27 23 Board Product Air Barriers				127,681
07 27 26 Fluid-Applied Membrane Air Barriers				
Air barrier, fluid applied	1000	SF	1.33	1,335
07 27 26 Fluid-Applied Membrane Air Barriers				1,335
07 40 00 Roofing and Siding Panels				
Column covers 18"	14	EA	699.93	9,799
07 40 00 Roofing and Siding Panels				9,799
07 42 00 Wall Panels				
wood baffels	2295	LF	21.15	48,533
Anchor clips mfi 16" oc @ each stud 7" deep	10000	ea	7.36	73,589
07 42 00 Wall Panels				122,122
07 42 13 Rain Screen Wall Assembly				
Composite metal panels	15716	SF	71.99	1,131,451
07 42 13 Rain Screen Wall Assembly				1,131,451
07 52 00 Modified Bituminous Membrane Roofing				
2Ply cold Applied garland	58465	SF	8.87	518,768
2Ply cold Applied garland coverboards	2500	SF	8.87	22,183
07 52 00 Modified Bituminous Membrane Roofing				540,951

07 Thermal and Moisture Protection

Description	Quantity	Unit	Unit Cost	Extended Cost
07 54 16 Ketone Ethylene Ester Roofing				
2Ply Hot Applied membrane roofing	8509	SF	6.04	51,354
07 54 16 Ketone Ethylene Ester Roofing				51,354
07 60 00 Flashing and Sheet Metal				
Flashing, copper 3 oz. paperbacked	4700	SF	4.92	23,110
Flashing, alum. Sheets .032"thk	4700	SF	9.09	42,702
Metal Parapet Cap	1100	LF	93.28	102,610
07 60 00 Flashing and Sheet Metal				168,421
07 71 23 Manufactured Gutters and Downspouts				
Downspouts, aluum	500	LF	11.17	5,587
Gutters, alum. 6", half round gym	110	LF	30.17	3,318
Gutters, alum. 6", w/s.s. mesh leaf screen	1000	LF	36.48	36,484
07 71 23 Manufactured Gutters and Downspouts				45,390
07 72 00 Roof Accessories				
Roof scuppers	12	EA	709.21	8,511
07 72 00 Roof Accessories				8,511
07 84 00 Firestopping				
Firestopping, piping thru walls 4"	150	EA	89.67	13,450
Firestopping, piping thru floor 4"	50	EA	45.69	2,285
07 84 00 Firestopping				15,735
07 92 00 Joint Sealants				
Caulking, backer rod polyeth. 1/4"	22800	LF	2.41	54,931
Caulking, butyl 1/4"x1/2", 154lf/gal	22800	LF	4.89	111,467
Acoustical caulking partitions	21914	LF	3.47	75,938
Caulking, backer rod polyeth. 1/4" partitions	21914	LF	2.41	52,796
07 92 00 Joint Sealants				295,132

08 Openings

08 Openings

Description	Quantity	Unit	Unit Cost	Extended Cost
08 11 00 Metal Doors and Frames				
H.m. frame, single	155	EA	195.88	30,361
H.m. frame, double	40	EA	243.18	9,727
H.m. door, 1-3/4" 20g, 3'-0" x7'-0"	90	EA	336.68	30,301
Attack resistant H.m. door, 1-3/4" 20g, 3'-0" x7'-0"	10	EA	2307.85	23,078
08 11 00 Metal Doors and Frames				93,467
08 14 00 Wood Doors				
Wood door, 3'x7'	135	EA	346.58	46,789
08 14 00 Wood Doors				46,789
08 30 00 Specialty Doors and Frames				
Alum door&frame interior	14	pair	1937.36	27,123
Alum door&frame interior	38	ea	1108.24	42,113
08 30 00 Specialty Doors and Frames				69,236
08 31 00 Access Doors and Panels				
Access door, f.r. metal, 18" x 18"	10	EA	332.75	3,327
08 31 00 Access Doors and Panels				3,327
08 41 13 Aluminum-Framed Entrances and Storefr				
Alum door&frame exterior	8	pair	1937.36	15,499
Alum door&frame exterior	23	ea	1108.24	25,490
Storefront, alum w/glass	2521	SF	62.44	157,418
08 41 13 Aluminum-Framed Entrances and Storefront				198,406
08 44 00 Curtain Wall and Glazed Assemblies				
Curtainwall, aluminum, glazing dbl	510	SF	131.44	67,033
08 44 00 Curtain Wall and Glazed Assemblies				67,033
08 49 00 Interior Glass Assemblies				
Borrowed lights, walls interior	2940	SF	47.69	140,203
08 49 00 Interior Glass Assemblies				140,203

08 Openings

Description	Quantity	Unit	Unit Cost	Extended Cost
08 51 13 Aluminum Windows				
Aluminum windows Exterior type a-k	5785	SF	87.56	506,530
08 51 13 Aluminum Windows				506,530
08 62 00 Unit Skylights				
Skylight, 4' x 8'	90	SF	96.05	8,645
08 62 00 Unit Skylights				8,645
08 71 00 Door Hardware				
Finish hardware exterior	40	SET	752.94	30,118
Panic device, bar & vertical rod, exterior	40	EA	708.94	28,358
Finish hardware interior attack resistant	26	SET	583.68	15,176
Finish hardware interior	214	SET	334.94	71,678
08 71 00 Door Hardware				145,329
08 81 00 Glass Glazing				
Borrowed lights, doors	300	SF	47.69	14,306
08 81 00 Glass Glazing				14,306
08 88 56 Ballistics-Resistant Glazing				
Ballistic Double Door & Frame 6'x7'	2	EA	16057.85	32,116
Bullet glass in frame admin area	75	sf	303.90	22,793
08 88 56 Ballistics-Resistant Glazing				54,909
08 90 00 Louvers and Vents				
Louvers, alum., w/screen	100	SF	61.74	6,174
08 90 00 Louvers and Vents				6,174

09 Finishes

09 21 16 Gypsum Board Assemblies				
Gwb encapsulate columns	116	EA	727.36	84,374

09 Finishes

Description	Quantity	Unit	Unit Cost	Extended Cost
Level 4 Finishes	1	Allow	55000.00	55,000
Part.gwb, 5/8", w/m.s.sgl	50254	SF	10.92	548,554
Drywall, ceiling	1280	SF	5.67	7,258
Drywall, exterior walls	45800	SF	3.50	160,491
Drywall, gypsum, 5/8" on soffits, t&f	2500	SF	5.89	14,722
09 21 16	Gypsum Board Assemblies			870,399

09 21 16.23 Gypsum Board Shaft Wall Assemblies

Shaft wall, 2hr dbl layer 5/8" d.w.	5200	SF	12.24	63,642
09 21 16.23	Gypsum Board Shaft Wall Assemblies			63,642

09 22 13 Metal Furring

Furring, on beams, 3/4"galvanized,16"o.c.	1500	SF	5.87	8,798
09 22 13	Metal Furring			8,798

09 22 16.13 Non-Structural Metal Stud Framing

Metal stud, exter. Soffit.,.25ga 6"w 16" oc	8000	SF	3.40	27,171
09 22 16.13	Non-Structural Metal Stud Framing			27,171

09 30 00 Tiling

Quarry tile, base 4"x8"	200	LF	21.74	4,349
Quarry tile, red floor,8"x8"x1/2",mud kitchen	2500	SF	24.67	61,683
Cementitious, backerboard 5/8" t.	12000	SF	7.20	86,345
Porcelain tile, Bathroom Walls	7700	SF	13.97	107,586
Porcelain Tile, cove base, 6" high	1000	LF	18.33	18,333
Porcelain Tile PLT-1 24" x 48"	3000	SF	20.37	61,102
Wall Tile 1	10000	SF	18.67	186,683
09 30 00	Tiling			526,081

09 51 00 Acoustical Ceilings

Suspension system, grid, 24"o.c.	58465	SF	2.26	131,964
Suspension system, gwb ceiling	1280	SF	2.26	2,889
Ceiling boards, 2'x2', armstrong ultima	33175	SF	8.38	277,950
Ceiling boards, 2'x2', armstrong kitchenzone	1200	SF	11.70	14,039
Ceiling, armstrong designflex, CLG-3	2000	SF	8.40	16,798

09 Finishes

Description	Quantity	Unit	Unit Cost	Extended Cost
Ceiling baffels 10" x46" x2", armstrong soundscape	114	EA	117.52	13,397
Ceiling baffels 10" x94" x2", armstrong soundscape	154	EA	192.07	29,579
Ceiling, Painted GWB Soffit, CLG-10	2250	SF	12.86	28,932
Ceiling boards, 2'x2', armstrong ultima Health Zone	800	SF	10.85	8,683
09 51 00	Acoustical Ceilings			524,232
09 62 00	Specialty Flooring			
Epoxy, Floor Heavy Duty	2250	SF	16.46	37,038
09 62 00	Specialty Flooring			37,038
09 65 00	Resilient Flooring			
Luxury Vinyl Tile plank	3500	SF	3.64	12,745
Resilient, VCT	12500	SF	7.28	90,972
09 65 00	Resilient Flooring			103,717
09 65 66	Resilient Athletic Flooring			
SPT-1 Tarkett Sports Performance	7000	SF	17.71	123,969
09 65 66	Resilient Athletic Flooring			123,969
09 68 00	Carpeting			
Ramp, rubber 1/8" thick	650	SF	8.43	5,481
Floor vinyl, cove base, 4"	11752	LF	4.01	47,071
Carpet tile, cpt-1, 20" x 20"	4000	SY	50.80	203,183
09 68 00	Carpeting			255,734
09 68 13	Tile Carpeting			
Entry Carpet Tile, CPE-1 21.65"x36.43	40	SY	42.37	1,695
09 68 13	Tile Carpeting			1,695
09 81 29	Sprayed Acoustic Insulation			
Spray Acoustical Insulation 1-1/2"	82600	SF	1.45	119,768
09 81 29	Sprayed Acoustic Insulation			119,768

09 Finishes

Description	Quantity	Unit	Unit Cost	Extended Cost
09 83 13 Acoustic Wall Coating				
Spline mounted acoustical wall panel w/fabric covering	1700	SF	20.56	34,950
09 83 13 Acoustic Wall Coating				34,950
09 84 13 Fixed Sound-Absorptive Panels				
Sound attenuation, blanket 3", wall	70000	SF	1.83	128,105
09 84 13 Fixed Sound-Absorptive Panels				128,105
09 91 00 Painting				
Paint, door frame 2coat,w/brush	100	EA	75.81	7,581
Paint, masonry glaze	10000	SF	2.53	25,317
Paint, int door& frame 2coat,w/brush	140	EA	111.19	15,567
Paint, stairways, oil, 2c w/brush	3	FLT	864.83	2,594
Paint, extdoor&fram 3x7,primer+2cts	21	EA	152.63	3,205
Paint, inter.wall primer+2 cts brsh 11'-0	156800	SF	1.96	307,502
Paint gym floor markings	1	TOTAL	2499.23	2,499
Paint, gwb ceilings/soffits	3280	SF	1.96	6,432
Paint, ceilings exposed, 2 coats	3894	SF	1.72	6,698
09 91 00 Painting				377,396

10 Specialties

10 11 00 Visual Display Units				
Markerboards/tack boards @ Learning Wing	5	EA	70000.00	350,000
10 11 00 Visual Display Units				350,000
10 14 00 Signage				
Signage, display cases	8	EA	1650.00	13,200
Signage, site,parking (4), h.c.(3)	61	EA	211.11	12,878
Signage, main entrance	1	EA	3300.00	3,300
Signage, interior rooms	1	TOTAL	17837.32	17,837
Pintel lettering 3 locations	3	EA	2095.90	6,288
Signs, street	49	EA	380.18	18,629
10 14 00 Signage				72,131

10 Specialties

Description	Quantity	Unit	Unit Cost	Extended Cost
10 21 13.16 Plastic-Laminate-Clad Toilet Compartme				
Partition, toilet, handicap plaslam	2	EA	1268.92	2,538
Partition, toilet cubicle,door	6	EA	570.89	3,425
Partition, toilet, plaslam reg.	4	EA	1181.94	4,728
Projection screens 12'x12' motorized	4	EA	2499.20	9,997
10 21 13.16 Plastic-Laminate-Clad Toilet Compartments				20,688

10 28 00 Toilet, Bath, and Laundry Accessories				
Accessories, bathroom	1	LSUM	23479.18	23,479
10 28 00 Toilet, Bath, and Laundry Accessories				23,479

10 44 00 Fire Protection Specialties				
Lockers, 1tier	15	OPNG	124.99	1,875
Fire extinguisher, all purpose, 10#	16	EA	83.32	1,333
Fire extinguisher, cabinet, steel	16	EA	247.84	3,965
10 44 00 Fire Protection Specialties				7,173

10 55 00 Postal Specialties				
Mailboxes 5"x6"x15"	54	EA	60.87	3,287
10 55 00 Postal Specialties				3,287

10 82 00 Grilles and Screens				
Grills & screens 24"x48"	5	EA	199.98	1,000
10 82 00 Grilles and Screens				1,000

11 Equipment

11 13 00 Loading Dock Equipment				
Loading dock	1	TOTAL	7999.20	7,999
11 13 00 Loading Dock Equipment				7,999

11 30 00 Residential Equipment				
Refrigerator	6	EA	2499.75	14,999
Microwave	6	EA	399.96	2,400

11 Equipment

Description	Quantity	Unit	Unit Cost	Extended Cost
11 30 00 Residential Equipment				17,398
11 40 00 Foodservice Equipment				
Kitchen equipment	1	LSUM	387591.30	387,591
11 40 00 Foodservice Equipment				387,591
11 52 13 Projection Screens				
Projection screens 12'x12' motorized	4	EA	3503.75	14,015
11 52 13 Projection Screens				14,015
11 66 00 Athletic Equipment				
Athletic equipment	1	TOTAL	3999.60	4,000
Basketball nets ceiling mtd	6	EA	5329.44	31,977
Gym wall pads	1000	SF	26.76	26,763
11 66 00 Athletic Equipment				62,739

12 Furnishings

12 00 00 Furnishings				
Ff&e, allowance	1	Total	1150000.00	1,150,000
12 00 00 Furnishings				1,150,000
12 20 00 Window Treatments				
Roller shades	2032	SF	3.99	8,114
12 20 00 Window Treatments				8,114
12 30 00 Casework				
Wardrobe 3"x6'-8"	31	EA	385.00	11,935
Wall cabinet	282	LF	280.90	79,213
Counter top, w/bs	235	LF	225.90	53,086
Base cabinet	202	LF	280.90	56,742
12 30 00 Casework				200,976
12 48 13 Entrance Floor Mats and Frames				

12 Furnishings

Description	Quantity	Unit	Unit Cost	Extended Cost
Floor mats, recess frames, bronze cpe-1	800	LF	20.60	16,478
Floor mats, reces. blk rubber 1/2 cpe-1	1000	SF	26.56	26,565
12 48 13 Entrance Floor Mats and Frames				43,043

12 48 43 Floor Mats

Entry Carpet Tile, CPE-6 Design Track	45	SF	42.37	1,907
Entry Carpet Tile, CPE-5 Grid	35	SF	42.37	1,483
Entry, floor mats walk off	300	SF	12.26	3,679
Floor mats, recess frames, alum	320	LF	15.65	5,007
12 48 43 Floor Mats				12,076

12 66 13 Telescoping Bleachers

Bleachers, telescoping, manual opr.	280	SEAT	178.57	49,998
12 66 13 Telescoping Bleachers				49,998

13 Special Construction**13 00 00 Special Construction**

Bus Canopy	1	LSUM	30000.00	30,000
Kiva	1	LSUM	50000.00	50,000
Front Canopy 2,144 sf	1	LSUM	150000.00	150,000
Mock up Panels (2)	1	LSUM	30000.00	30,000
Stage	1	LSUM	12000.00	12,000
13 00 00 Special Construction				272,000

21 Fire Suppression**21 13 13 Wet-Pipe Sprinkler Systems**

Sprinklers	33175	SF	7.70	255,448
21 13 13 Wet-Pipe Sprinkler Systems				255,448

22 Plumbing

22 Plumbing

Description	Quantity	Unit	Unit Cost	Extended Cost
22 00 00 Plumbing				
Plumbing	33175	SF	24.20	802,835
22 00 00 Plumbing				802,835

22 08 00 Commissioning of Plumbing

Commissioning, Project Manager	40	MH	165.00	6,600
22 08 00 Commissioning of Plumbing				6,600

23 Heating, Ventilating, and Air Conditioning (HVAC)

23 30 00 HVAC Air Distribution

HVAC	58465	SF	64.44	3,767,485
23 30 00 HVAC Air Distribution				3,767,485

26 Electrical

26 00 00 Electrical

Electrical	58465	SF	47.00	2,747,855
26 00 00 Electrical				2,747,855

27 Communications

27 13 23 Communications Optical Fiber Backbone

Communications Backbone Cabling	1	TOTAL	8527.00	8,527
27 13 23 Communications Optical Fiber Backbone Ca				8,527

27 15 13 Communications Copper Horizontal Cabli

Horizontal Cabling	1	TOTAL	98133.00	98,133
27 15 13 Communications Copper Horizontal Cabling				98,133

27 20 00 Data Communications

Equipment	1	TOTAL	1700556.00	1,700,556
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27 Communications

Description	Quantity	Unit	Unit Cost	Extended Cost
	27 20 00	Data Communications		1,700,556

28 Electronic Safety and Security**28 16 00 Access Control Interfaces**

Safety & Security Intrusion	1	TOTAL	11161.00	11,161
	28 16 00	Access Control Interfaces		11,161

28 20 00 Video Surveillance

Security	1	TOTAL	44151.00	44,151
	28 20 00	Video Surveillance		44,151

28 31 00 Intrusion Detection

Fire Alarm	1	TOTAL	83138.00	83,138
	28 31 00	Intrusion Detection		83,138

31 Earthwork**31 13 00 Selective Tree and Shrub Removal and T**

Clear & grade, work area	6.62	ACRE	7050.21	46,672
Clear & grub, trees, 10"dia, medium	1	ACRE	8812.77	8,813
	31 13 00	Selective Tree and Shrub Removal and Trim		55,485

31 20 00 Earth Moving

Temp. road entrance 12'x50'	600	SF	4.40	2,640
Backfill,compaction w/vib plate 12"	5325	CY	10.84	57,727
Excavation, hyd. excav. building	4000	CY	12.89	51,546
Excavation, utility trench, w/backhoe	5325	CY	14.84	79,036
Grading, rough,by hand sog	66611	SF	0.63	42,170
Excavation, hyd. excav. bldg.2' organic	3780	CY	12.89	48,711
Backfill, w/dozer, vibrating roller bldg	4900	CY	5.02	24,616
Compaction, riding vib.roller,3pass	3700	CY	4.80	17,765
Excavation, structural w/hyd. exvtr	4000	CY	20.38	81,510
Excess cut, spread on site	54	CY	2.56	138
Excavation, trench, elec 8900 lf	1977	CY	14.84	29,344

31 Earthwork

Description	Quantity	Unit	Unit Cost	Extended Cost
Import, & backfill w/compacted fill	500	CY	48.46	24,231
Excavation, bulk w/dozer, cut 2620cy /fill 2674cy	5294	CY	9.61	50,864
Pipe, pvc, 6"dia.,s.d.r. 35, (6) stand pipe to roof SSD	600	LF	12.59	7,551
Pipe, pvc, 4"dia.,s.d.r. 35, solid, SSD	535	LF	12.59	6,733
Pipe, pvc, 4"dia.,s.d.r. 35, perforated, SSD	1660	LF	12.59	20,891
Excavating, trench f/pipe under s.o.g., SSD	2195	LF	8.55	18,760
Pipe bedding /trench sand, SSD	325	CY	33.26	10,810
31 20 00	Earth Moving			575,045

31 23 23.23 Compaction

Compaction, riding vib.roller,3pass fills	2674	CY	4.80	12,839
31 23 23.23	Compaction			12,839

31 25 00 Erosion and Sedimentation Controls

Erosion control, silt fence, mirafi	3314	LF	3.85	12,759
Erosion control, hay bales & removal	3314	LF	5.25	17,393
Erosion control, mat	1	TOTAL	24997.50	24,998
Erosion control, snow fence	3314	LF	5.69	18,851
Detention basin, #1,2,3,4,5 excavation	922	CY	6.37	5,871
Detention basin, #1,2,3,4,5, enbackment	922	CY	8.31	7,661
Detention basin, fabric & rip rap 8304 sf	922	SY	3.66	3,373
Drainage/spillway rip rap	150	CY	41.92	6,288
31 25 00	Erosion and Sedimentation Controls			97,193

31 61 00 Ground Improvement Piers

Geo pile, stone colm 24"diam. 0.116cylf	56000	sf	15.93	892,093
31 61 00	Ground Improvement Piers			892,093

32 Exterior Improvements**32 12 16 Asphalt Paving**

Hard surfaced play area	6446	SF	2.20	14,181
Grading, fine, 3 passes,plus roll	3916	SY	2.10	8,230

32 Exterior Improvements

Description	Quantity	Unit	Unit Cost	Extended Cost
Bitum., paving, wearing course 2"	3916	SY	15.47	60,561
Bitum., paving, binder course 3"	3916	SY	22.68	88,816
Cold planing, asphalt pavmt., 1"to 3" deep 5,878 sf	653	SY	6.04	3,941
Basecourse, bank run gravel,12"deep	3916	SY	6.73	26,336
Bitum., paving, wearing course 2" road patching	1111	SY	15.47	17,182
Bitum., paving, binder course 3" road patching	1111	SY	22.68	25,198

32 12 16 Asphalt Paving**244,445****32 16 14 Precast Concrete Curbs**

Curbs, precast conc. radius 6"x18"	1500	LF	29.99	44,984
Curbs, precast conc. stright 6"x18"	2000	LF	19.29	38,572
Curbs locks, concrete, 6"x12" both sides 27 lf/cy	5000	LF	9.12	45,603
Curbs, precast conc. Sloped edging 5"x16"	1500	LF	17.64	26,454

32 16 14 Precast Concrete Curbs**155,613****32 16 23 Sidewalks**

Sidewalk, concrete 4" thicik	39452	SF	6.56	258,668
Screeds, 1"x3" with stakes 2' o.c. f/s.walks	2000	LF	3.71	7,425
Finishing, broom finish f/s.walks	39452	SF	1.47	57,983
Sidewalk, concrete curb cuts	13	EA	1067.68	13,880
Basecourse, bank run gravel, 6"deep f/swalk	4939	SY	3.67	18,104

32 16 23 Sidewalks**356,060****32 17 13 Parking Bumpers**

Flagpole, alumninium 35'	1	EA	4703.52	4,704
Flagpole, concrete foundation	1	EA	1939.26	1,939
Bollards, pipe conc filled	8	EA	332.26	2,658
Bollards, pipe conc filled f/signs	4	EA	398.26	1,593

32 17 13 Parking Bumpers**10,894****32 17 23 Pavement Markings**

Painting, pavement lines thermo 4"w	2190	LF	0.84	1,848
Paint, arrows & h.c symbols (12)	900	SF	8.21	7,392
Paint, parking stall,white	20	STALL	7.78	156

32 Exterior Improvements

Description	Quantity	Unit	Unit Cost	Extended Cost
32 17 23 Pavement Markings				9,395
32 31 13 Chain Link Fences and Gates				
Fence, chain link 4' high	575	LF	33.59	19,312
Fence, chain link 4' gate	6	EA	503.04	3,018
Steel gate with keepers	1	PR	2860.00	2,860
Safety barricade fence 4' high c.l	266	LF	23.69	6,300
Railings 8 locations	8	EA	4000.00	32,000
32 31 13 Chain Link Fences and Gates				63,490
32 90 00 Planting				
Landscaping allowance	1	ALLOW	66000.00	66,000
Mulch	100	CY	30.09	3,009
Shrubs, 3'high	78	EA	60.81	4,743
32 90 00 Planting				73,752
32 91 19.13 Topsoil Placement and Grading				
Topsoil, spread w/loader hand dress	1000	CY	21.56	21,556
Topsoil, stripped stockpile	1000	CY	8.09	8,089
32 91 19.13 Topsoil Placement and Grading				29,645
32 92 19 Seeding				
Seeding, turf mix, hydroseed	400	MSF	83.76	33,505
32 92 19 Seeding				33,505
32 93 43 Trees				
Trees, dec. 2-1/2" - 3"	16	EA	422.13	6,754
Trees, evergreen	5	EA	312.13	1,561
Staking trees	21	EA	99.99	2,100
32 93 43 Trees				10,415

33 Utilities

33 00 00 Utilities				
Elec.utility vaults, 6' high	2	EA	5527.30	11,055

33 Utilities

Description	Quantity	Unit	Unit Cost	Extended Cost
Light pole bases	40	EA	464.73	18,589
Trenching for gas service	500	LF	18.19	9,093
33 00 00	Utilities			38,737

33 01 10.58 Disinfection of Water Utility Piping System

Equipment pads, conc	7	CY	220.00	1,540
33 01 10.58	Disinfection of Water Utility Piping Systems			1,540

33 05 09 Piping Specials for Utilities

Drywell 3/4" crushed stone	150	CY	22.00	3,300
Drain pipe, pvc, 12"dia.,hdpe	200	LF	49.14	9,827
Flared end .conc., 12"dia.,class 3	9	EA	696.74	6,271
Drain pipe, pvc, 15"dia.,hdpe	200	LF	52.44	10,487
Drain pipe, pvc, 18"dia.,hdpe	200	LF	57.94	11,587
Pipe, pvc, 8" gate valve	1	EA	422.21	422
33 05 09	Piping Specials for Utilities			41,894

33 05 61 Concrete Manholes

Catch basin, precast,4'id10'	15	EA	2539.48	38,092
Drain manhole, precast,4'id10'	10	EA	4064.10	40,641
33 05 61	Concrete Manholes			78,733

33 14 16 Site Water Utility Distribution Piping

Pipe, pvc, 10"dia., roof drains	200	LF	13.96	2,791
Pipe, pvc, 8"dia., roof drains	200	LF	13.54	2,708
Fire hydrant, relocate	1	EA	1242.03	1,242
Pipe, ductile iron, 4"diam. cl250	200	LF	34.49	6,898
Pipe, ductile iron, 8"diam. cl250	200	LF	48.41	9,682
Thrust blocks, conc.	10	EA	325.81	3,258
Gate valve, w/box 6"	6	EA	1125.71	6,754
Tapping sleeve	1	EA	550.00	550
Bedding, for pipe, bank run gravel	400	CY	33.53	13,411
Fill, in trench crushed stone 3/4"	500	CY	33.26	16,630
Pipe, ductile iron, 12" diam. cl250	200	LF	74.81	14,962
Pipe, ductile iron, 16" diam. cl200	200	LF	104.74	20,947
Water main tapping & relocation	1	TOTAL	49995.00	49,995
Fire hydrant, new	1	EA	2287.03	2,287
33 14 16	Site Water Utility Distribution Piping			152,115

33 Utilities

Description	Quantity	Unit	Unit Cost	Extended Cost
 33 31 13 Site Sanitary Sewerage Gravity Piping				
Frames & covers, heavy traffic 24"	31	EA	612.16	18,977
Sewer manhole, precast,4'id10'	6	EA	4064.10	24,385
Grease trap 2000 gal.	1	EA	3849.66	3,850
Pipe, pvc, 8" gate valve	1	EA	422.21	422
Pipe, pvc, 8" screen inlet	1	EA	367.21	367
Sewer pipe, pvc, 6"dia.,s.d.r. 35,	200	LF	12.59	2,517
Inverts, single channel, brick	16	EA	776.23	12,420
				62,937
33 31 13		Site Sanitary Sewerage Gravity Piping		62,937
 33 41 00 Subdrainage				
Cultec units r-330	300	EA	657.08	197,124
Fill, 3/4" stone, for cultec units	600	CY	52.13	31,281
				228,405
33 41 00		Subdrainage		228,405

Sub Total		33,656,090	575.66 / SF
Profit	10 %	3,365,609	
Bond	1 %	336,561	
Contingency Design	5 %	1,682,805	
Construction Contingency	10 %	3,365,609	
Grand Total		42,406,680	725.33 / SF



CONSTRUCTION COST ENGINEERING OF BOSTON

George Hanaford Elementary School, East Greenwich RI, Schemati 24 0100

Main Level 1st flr Area : 43,445 SF Perimeter 800 LF

Upper Level 2nd flr Area: 24,124 SF Perimeter 650 LF

TOTAL Bldg Area: 67,569 SF ROUGH DRAFT

67569 SF

Schools

Last Updated

Year 2024

Cost File 2024 PROVIDENCE UNION AV

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Project Summary

Division	Total		
01 General Requirements	1,612,074	\$23.86 /SF	4.1 %
02 Existing Conditions	411,279	\$6.09 /SF	1.1 %
03 Concrete	2,280,516	\$33.75 /SF	5.9 %
04 Masonry	2,721,106	\$40.27 /SF	7.0 %
05 Metals	5,585,867	\$82.67 /SF	14.4 %
06 Wood, Plastics, and Composites	542,047	\$8.02 /SF	1.4 %
07 Thermal and Moisture Protection	4,280,585	\$63.35 /SF	11.0 %
08 Openings	1,466,596	\$21.71 /SF	3.8 %
09 Finishes	3,639,642	\$53.87 /SF	9.4 %
10 Specialties	485,258	\$7.18 /SF	1.2 %
11 Equipment	494,463	\$7.32 /SF	1.3 %
12 Furnishings	336,508	\$4.98 /SF	0.9 %
13 Special Construction	272,000	\$4.03 /SF	0.7 %
14 Conveying Equipment	105,115	\$1.56 /SF	0.3 %
21 Fire Suppression	371,234	\$5.49 /SF	1.0 %
22 Plumbing	1,640,028	\$24.27 /SF	4.2 %
23 Heating, Ventilating, and Air Conditioning (HVA	4,454,802	\$65.93 /SF	11.5 %
26 Electrical	2,633,967	\$38.98 /SF	6.8 %
27 Communications	1,807,216	\$26.75 /SF	4.7 %
28 Electronic Safety and Security	138,450	\$2.05 /SF	0.4 %
31 Earthwork	1,794,454	\$26.56 /SF	4.6 %
32 Exterior Improvements	1,132,973	\$16.77 /SF	2.9 %
33 Utilities	650,072	\$9.62 /SF	1.7 %

Sub Total		38,856,250	575.06 / SF
Profit	10 %	3,885,625	
Bond	1 %	388,563	
Contingency Design	5 %	1,942,813	
Construction Contingency	10 %	3,885,625	
Grand Total		48,958,880	724.58 / SF



CONSTRUCTION COST ENGINEERING OF BOSTON

Sub Division Summary

George Hanaford Elementary School, East Greenwich RI, Schemati 24 0100			
Main Level 1st flr Area : 43,445 SF Perimeter 800 LF			
Upper Level 2nd flr Area: 24,124 SF Perimeter 650 LF			
TOTAL Bldg Area: 67,569 SF ROUGH DRAFT			
67569 SF	Schools	Last Updated	
Year 2024	Cost File 2024 PROVIDENCE UNION AV	1/22/2024 11:44:47 AM	

SubDivision	Description	Total	
<u>01 General Requirements</u>		<u>\$1,612,074</u>	
01 00 00	General Requirements	\$1,062,142	15.72 SF
01 31 00	Project Management and Coordination	\$40,800	0.60 SF
01 32 00	Construction Progress Documentation	\$21,608	0.32 SF
01 43 36	Field Samples	\$5,500	0.08 SF
01 43 39	Mockups	\$7,615	0.11 SF
01 50 00	Temporary Facilities and Controls	\$375,657	5.56 SF
01 60 00	Product Requirements	\$54,604	0.81 SF
01 74 00	Cleaning and Waste Management	\$44,148	0.65 SF
<u>02 Existing Conditions</u>		<u>\$411,279</u>	
02 41 00	Demolition	\$411,279	6.09 SF
<u>03 Concrete</u>		<u>\$2,280,516</u>	
03 10 00	Concrete Forming and Accessories	\$86,991	1.29 SF
03 20 00	Concrete Reinforcing	\$241,241	3.57 SF
03 30 00	Cast-in-Place Concrete	\$1,919,842	28.41 SF
03 54 00	Cast Underlayment	\$32,441	0.48 SF
<u>04 Masonry</u>		<u>\$2,721,106</u>	
04 05 13	Masonry Mortaring	\$2,495	0.04 SF

SubDivision	Description	Total	
04 05 19.16	Masonry Anchors	\$33,050	0.49 SF
04 21 13	Brick Masonry	\$477,310	7.06 SF
04 21 13.13	Brick Veneer Masonry	\$676,764	10.02 SF
04 22 00	Concrete Unit Masonry	\$938,974	13.90 SF
04 43 00	Stone Masonry	\$482,730	7.14 SF
04 72 00	Cast Stone Masonry	\$109,782	1.62 SF

05 Metals**\$5,585,867**

05 12 00	Structural Steel Framing	\$4,035,990	59.73 SF
05 31 00	Steel Decking	\$436,476	6.46 SF
05 40 00	Cold-Formed Metal Framing	\$539,886	7.99 SF
05 50 00	Metal Fabrications	\$573,515	8.49 SF

06 Wood, Plastics, and Composites**\$542,047**

06 10 00	Rough Carpentry	\$230,012	3.40 SF
06 20 00	Finish Carpentry	\$94,664	1.40 SF
06 40 23	Interior Architectural Woodwork	\$217,372	3.22 SF

07 Thermal and Moisture Protection**\$4,280,585**

07 11 00	Dampproofing	\$36,703	0.54 SF
07 17 00	Bentonite Waterproofing	\$3,990	0.06 SF
07 20 00	Thermal Protection	\$393,048	5.82 SF
07 21 00	Thermal Insulation	\$1,517,131	22.45 SF
07 21 14	Foundation Insulation	\$9,609	0.14 SF
07 22 00	Roof and Deck Insulation	\$62,748	0.93 SF
07 26 16	Below-Grade Vapor Retarders	\$21,374	0.32 SF
07 27 00	Air Barriers	\$112,905	1.67 SF
07 27 23	Board Product Air Barriers	\$148,272	2.19 SF
07 27 26	Fluid-Applied Membrane Air Barriers	\$1,515	0.02 SF
07 40 00	Roofing and Siding Panels	\$9,799	0.15 SF
07 42 00	Wall Panels	\$149,647	2.21 SF

SubDivision	Description	Total	
07 42 13	Rain Screen Wall Assembly	\$1,006,087	14.89 SF
07 50 00	Membrane Roofing	\$142,558	2.11 SF
07 54 16	Ketone Ethylene Ester Roofing	\$53,383	0.79 SF
07 60 00	Flashing and Sheet Metal	\$182,618	2.70 SF
07 71 23	Manufactured Gutters and Downspouts	\$47,419	0.70 SF
07 72 00	Roof Accessories	\$8,754	0.13 SF
07 84 00	Firestopping	\$17,991	0.27 SF
07 92 00	Joint Sealants	\$355,032	5.25 SF

08 Openings**\$1,466,596**

08 11 00	Metal Doors and Frames	\$106,563	1.58 SF
08 14 00	Wood Doors	\$50,509	0.75 SF
08 30 00	Specialty Doors and Frames	\$91,594	1.36 SF
08 31 00	Access Doors and Panels	\$3,528	0.05 SF
08 41 13	Aluminum-Framed Entrances and Store	\$215,114	3.18 SF
08 44 00	Curtain Wall and Glazed Assemblies	\$69,461	1.03 SF
08 49 00	Interior Glass Assemblies	\$144,715	2.14 SF
08 51 13	Aluminum Windows	\$534,379	7.91 SF
08 62 00	Unit Skylights	\$15,340	0.23 SF
08 71 00	Door Hardware	\$157,117	2.33 SF
08 81 00	Glass Glazing	\$14,767	0.22 SF
08 88 56	Ballistics-Resistant Glazing	\$56,434	0.84 SF
08 90 00	Louvers and Vents	\$7,076	0.10 SF

09 Finishes**\$3,639,642**

09 21 16	Gypsum Board Assemblies	\$1,002,133	14.83 SF
09 21 16.23	Gypsum Board Shaft Wall Assemblies	\$72,800	1.08 SF
09 22 13	Metal Furring	\$21,156	0.31 SF
09 22 16.13	Non-Structural Metal Stud Framing	\$31,183	0.46 SF
09 30 00	Tiling	\$574,063	8.50 SF
09 51 00	Acoustical Ceilings	\$669,389	9.91 SF

SubDivision	Description	Total	
09 62 00	Specialty Flooring	\$38,102	0.56 SF
09 65 00	Resilient Flooring	\$72,415	1.07 SF
09 65 66	Resilient Athletic Flooring	\$144,527	2.14 SF
09 68 00	Carpeting	\$210,146	3.11 SF
09 68 13	Tile Carpeting	\$489	0.01 SF
09 81 29	Sprayed Acoustic Insulation	\$140,019	2.07 SF
09 83 13	Acoustic Wall Coating	\$36,178	0.54 SF
09 84 13	Fixed Sound-Absorptive Panels	\$152,134	2.25 SF
09 91 00	Painting	\$474,909	7.03 SF

10 Specialties**\$485,258**

10 11 00	Visual Display Units	\$350,000	5.18 SF
10 14 00	Signage	\$76,548	1.13 SF
10 21 13.16	Plastic-Laminate-Clad Toilet Compartm	\$21,369	0.32 SF
10 28 00	Toilet, Bath, and Laundry Accessories	\$25,284	0.37 SF
10 44 00	Fire Protection Specialties	\$7,631	0.11 SF
10 55 00	Postal Specialties	\$3,426	0.05 SF
10 82 00	Grilles and Screens	\$1,000	0.01 SF

11 Equipment**\$494,463**

11 13 00	Loading Dock Equipment	\$7,999	0.12 SF
11 30 00	Residential Equipment	\$17,398	0.26 SF
11 40 00	Foodservice Equipment	\$387,591	5.74 SF
11 52 13	Projection Screens	\$15,365	0.23 SF
11 66 00	Athletic Equipment	\$66,109	0.98 SF

12 Furnishings**\$336,508**

12 20 00	Window Treatments	\$8,114	0.12 SF
12 30 00	Casework	\$215,801	3.19 SF
12 48 13	Entrance Floor Mats and Frames	\$45,690	0.68 SF
12 48 43	Floor Mats	\$13,535	0.20 SF

SubDivision	Description	Total	
12 66 13	<i>Telescoping Bleachers</i>	\$53,368	0.79 SF
<u>13 Special Construction</u>		<u>\$272,000</u>	
13 00 00	<i>Special Construction</i>	\$272,000	4.03 SF
<u>14 Conveying Equipment</u>		<u>\$105,115</u>	
14 21 00	<i>Electric Traction Elevators</i>	\$105,115	1.56 SF
<u>21 Fire Suppression</u>		<u>\$371,234</u>	
21 13 13	<i>Wet-Pipe Sprinkler Systems</i>	\$371,234	5.49 SF
<u>22 Plumbing</u>		<u>\$1,640,028</u>	
22 00 00	<i>Plumbing</i>	\$1,633,428	24.17 SF
22 08 00	<i>Commissioning of Plumbing</i>	\$6,600	0.10 SF
<u>23 Heating, Ventilating, and Air Conditioning (HVAC)</u>		<u>\$4,454,802</u>	
23 30 00	<i>HVAC Air Distribution</i>	\$4,454,802	65.93 SF
<u>26 Electrical</u>		<u>\$2,633,967</u>	
26 00 00	<i>Electrical</i>	\$37,790	0.56 SF
26 05 19	<i>Low-Voltage Electrical Power Conducto</i>	\$203,557	3.01 SF
26 05 26	<i>Grounding and Bonding for Electrical S</i>	\$5,640	0.08 SF
26 05 29	<i>Hangers and Supports for Electrical Sy</i>	\$68,876	1.02 SF
26 05 33	<i>Raceway and Boxes for Electrical Syste</i>	\$469,797	6.95 SF
26 05 36	<i>Cable Trays for Electrical Systems</i>	\$4,564	0.07 SF
26 05 39	<i>Underfloor Raceways for Electrical Syst</i>	\$7,957	0.12 SF
26 05 43	<i>Underground Ducts and Raceways for</i>	\$81,998	1.21 SF
26 05 73	<i>Power System Studles</i>	\$10,350	0.15 SF
26 05 83	<i>Wiring Connections</i>	\$38,617	0.57 SF

SubDivision	Description	Total	
26 08 00	<i>Commissioning of Electrical Systems</i>	\$24,985	0.37 SF
26 20 00	<i>Low-Voltage Electrical Distribution</i>	\$76,753	1.14 SF
26 23 00	<i>Low-Voltage Switchgear</i>	\$129,398	1.92 SF
26 24 00	<i>Switchboards and Panelboards</i>	\$41,286	0.61 SF
26 27 26	<i>Wiring Devices</i>	\$44,767	0.66 SF
26 28 00	<i>Low-Voltage Circuit Protective Devices</i>	\$24,296	0.36 SF
26 29 00	<i>Low-Voltage Controllers</i>	\$3,766	0.06 SF
26 32 00	<i>Packaged Generator Assemblies</i>	\$202,384	3.00 SF
26 36 00	<i>Transfer Switches</i>	\$76,618	1.13 SF
26 50 00	<i>Lighting</i>	\$1,080,568	15.99 SF

27 Communications**\$1,807,216**

27 13 23	<i>Communications Optical Fiber Backbone</i>	\$8,527	0.13 SF
27 15 13	<i>Communications Copper Horizontal Ca</i>	\$98,133	1.45 SF
27 20 00	<i>Data Communications</i>	\$1,700,556	25.17 SF

28 Electronic Safety and Security**\$138,450**

28 16 00	<i>Access Control Interfaces</i>	\$11,161	0.17 SF
28 20 00	<i>Video Surveillance</i>	\$44,151	0.65 SF
28 31 00	<i>Intrusion Detection</i>	\$83,138	1.23 SF

31 Earthwork**\$1,794,454**

31 09 00	<i>Geotechnical Instrumentation and Moni</i>	\$0	0.00 SF
31 13 00	<i>Selective Tree and Shrub Removal and</i>	\$62,946	0.93 SF
31 20 00	<i>Earth Moving</i>	\$637,509	9.43 SF
31 23 23.23	<i>Compaction</i>	\$14,327	0.21 SF
31 25 00	<i>Erosion and Sedimentation Controls</i>	\$101,110	1.50 SF
31 61 00	<i>Ground Improvement Piers</i>	\$978,561	14.48 SF

32 Exterior Improvements**\$1,132,973**

SubDivision	Description	Total	
32 12 16	Asphalt Paving	\$254,388	3.76 SF
32 16 14	Precast Concrete Curbs	\$168,468	2.49 SF
32 16 23	Sidewalks	\$431,736	6.39 SF
32 17 13	Parking Bumpers	\$11,437	0.17 SF
32 17 23	Pavement Markings	\$10,364	0.15 SF
32 31 13	Chain Link Fences and Gates	\$65,524	0.97 SF
32 32 23.13	Segmental Concrete Unit Masonry Reta	\$33,458	0.50 SF
32 90 00	Planting	\$74,482	1.10 SF
32 91 19.13	Topsoil Placement and Grading	\$33,890	0.50 SF
32 92 19	Seeding	\$38,071	0.56 SF
32 93 43	Trees	\$11,155	0.17 SF

33 Utilities

\$650,072

33 00 00	Utilities	\$43,173	0.64 SF
33 01 10.58	Disinfection of Water Utility Piping Syst	\$1,540	0.02 SF
33 05 09	Piping Specials for Utilities	\$46,169	0.68 SF
33 05 61	Concrete Manholes	\$87,710	1.30 SF
33 14 16	Site Water Utility Distribution Piping	\$163,021	2.41 SF
33 31 13	Site Sanitary Sewerage Gravity Piping	\$71,956	1.06 SF
33 41 00	Subdrainage	\$236,504	3.50 SF

Sub Total		38,856,250	575.06 / SF
Profit	10 %	3,885,625	
Bond	1 %	388,563	
Contingency Design	5 %	1,942,813	
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George Hanaford Elementary School, East Greenwich RI, Schemati		24 0100
Main Level 1st flr Area :	43,445 SF	Perimeter 800 LF
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<hr/>		
TOTAL Bldg Area:	67,569 SF	ROUGH DRAFT
67569 SF	Schools	Last Updated
Year 2024	Cost File 2024 PROVIDENCE UNION AV	1/22/2024 11:44:47 AM

Description	Quantity	Unit	Unit Cost	Extended Cost
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01 General Requirements

01 00 00 General Requirements

Field engineer	26	WEEK	4055.01	105,430
General superintendent	78	WEEK	4975.53	388,091
Asst. superintendent	78	WEEK	4423.64	345,044
Cutting & patching, misc.	5	JOB	330.00	1,650
Project manager	40	WEEK	5548.17	221,927
				<hr/>
01 00 00 General Requirements				1,062,142

01 31 00 Project Management and Coordination

Insurance, 1%	40800	JOB	1.00	40,800
				<hr/>
01 31 00 Project Management and Coordination				40,800

01 32 00 Construction Progress Documentation

Scheduling, progress cpm	1	EA	3300.00	3,300
Shop drawings/product data sheets	1	TOTAL	2750.00	2,750
Progress photos	18	SET	220.00	3,960
Scheduling, cpm, update	17	EA	275.00	4,675
Additional drawings	5	JOB	275.00	1,375
Drawings, as built	1	SET	5548.17	5,548
				<hr/>
01 32 00 Construction Progress Documentation				21,608

01 43 36 Field Samples

Test & samples, conc/motar	5	JOB	1100.00	5,500
				<hr/>
01 43 36 Field Samples				5,500

01 General Requirements

Description	Quantity	Unit	Unit Cost	Extended Cost
01 43 39 Mockups				
Mock up panel 4'x4', number required to be determined	1	EA	7615.14	7,615
01 43 39 Mockups				7,615
01 50 00 Temporary Facilities and Controls				
Fax w/dedicared telephone line	18	MONTH	275.00	4,950
Temporary heat, 12 hrs day, per wk	960	CSFFLR	27.87	26,756
Temporary electric, power/lights	18	MONTH	599.94	10,799
Temporary water	18	MONTH	55.00	990
Cleaning general, site	390	HR	126.52	49,342
Office trailer, furnished, 36'x8'	18	MONTH	264.00	4,752
Storage trailer, 28'x10'	18	MONTH	110.00	1,980
Temporary doors, 5 per job	4	EA	1881.14	7,525
Project sign, 4' x 8' x 1 7/8"	1	EA	2561.28	2,561
Temp fence on 2"x4"frame 8'	500	LF	46.68	23,338
Temporary fire, protection	18	JOB	550.00	9,900
Rubbish removal, 40 cy capacity	69	LOAD	660.00	45,540
Snow removal	5	DAY	3562.19	17,811
Telephone, general clerk use	18	MONTH	275.00	4,950
Tarpaulins, reinf. polyethylene	25000	SF	0.13	3,300
Office trailer w/conference	18	MONTH	616.00	11,088
Scaffolding for gc for subs	47000	SF	2.06	96,733
Cleaning general, site	390	HR	126.52	49,342
Internet Service	18	Mo.	100.00	1,800
Office trailer, relocated	2	EA	1100.00	2,200
01 50 00 Temporary Facilities and Controls				375,657
01 60 00 Product Requirements				
Toilet, portable chemical, rent	36	MONTH	99.00	3,564
Trucking, general site use	18	JOB	550.00	9,900
Small tools, purchase/rent	18	JOB	330.00	5,940
Equipment rentals, misc	8	JOB	4400.00	35,200
01 60 00 Product Requirements				54,604
01 74 00 Cleaning and Waste Management				
Clean-up, final	2	WEEK	10121.41	20,243
Punchlist, survey/check	4	WEEK	5976.21	23,905

01 General Requirements

Description	Quantity	Unit	Unit Cost	Extended Cost
01 74 00	Cleaning and Waste Management			44,148

02 Existing Conditions**02 41 00 Demolition**

Saw cut, asphalt, to 3" deep	600	LF	1.57	941
Demo bldg, existing school	58465	SF	6.27	366,339
Site demo	1	ALLOW	44000.00	44,000
02 41 00	Demolition			411,279

03 Concrete**03 10 00 Concrete Forming and Accessories**

Anchor bolts, 3/4"x 24"	248	EA	30.44	7,549
Forms, wall brickshelf, 4" wide 1 use	2376	SFCA	30.78	73,128
Keyway, 2x4, 1 use	2244	LF	2.81	6,315
03 10 00	Concrete Forming and Accessories			86,991

03 20 00 Concrete Reinforcing

Reinforcing, footings & walls 100#/cy	79	TON	1790.73	141,468
Welded wire fabric, 6x6-w2.9xw2.9	350	CSF	122.54	42,888
Welded wire fabric, 6x6-w1.4xw1.4	444.56	CSF	92.31	41,038
Reinforcing, over bms & cols .5#/sf	8.85	TON	1790.73	15,848
03 20 00	Concrete Reinforcing			241,241

03 30 00 Cast-in-Place Concrete

Saw cut, conc slab, per 1" deep	8938	LF	2.75	24,577
Conc. in place, inter cmu ftg. 12"	154.7	CY	357.72	55,340
Concrete in place, stripfoot	130	CY	357.72	46,504
Concrete in place, grade wall 4' xfmr	23.1	CY	1110.06	25,642
Concrete in place, piers	24.22	CY	1359.78	32,934
Concrete in place, ground slab, 4"	43445	SF	6.32	274,652
Finishing floor, steeltrowel	67497	SF	2.19	147,953
Concrete in place, elevated 4-1/2" slab	24124	SF	5.89	142,131
Concrete in place, stairs, grndcast	145	LFNOSE	66.90	9,700
Elevator pit wall 12", 16" & slab 15" thk	35	CY	1434.05	50,192

03 Concrete

Description	Quantity	Unit	Unit Cost	Extended Cost
Concrete, sealer, hardener&dustprf	1672	SF	0.68	1,145
Concrete platforms	9	EA	1163.01	10,467
Concrete in place, ground slab, 5"	3000	SF	6.84	20,510
Concrete, f/ stair pan landing, treads	270	SF	13.67	3,691
Concrete, mech/elec equip. pads	6	EA	1163.01	6,978
Grout, column, 2"thick, non shrink	248	SF	52.17	12,938
Control joint sealant	8938	LF	2.61	23,298
Retaining wall, concrete	30	LF	813.40	24,402
Concrete in place, spread footing F3-3x3x1 (6)	260	CY	613.57	159,528
Concrete in place, 4 1/2" slab, on metal deck	43445	SF	5.58	242,282
Concrete in place, grade wall 16"x3'-0 high 1,366lf	237.33	CY	678.76	161,089
Concrete in place, ground slab, 6" gym	9300	SF	6.09	56,636
Concrete in place, ground slab, 6" xmfr	1232	SF	6.09	7,503
Concrete in place, ret. wall18"x10'high in bldg	190	CY	692.12	131,503
Concrete in place, stripfoot 2.5'wide x 15" thk. 1,366lf	167.8	CY	357.72	60,026
Concrete in place, stripfoot 2.5'wide x 15" thk. 390' xmfr	14.45	CY	357.72	5,169
Concrete in place, grade wall 4' x20" x488lf gym	105.6	CY	1110.06	117,223
Concrete in place, stripfoot 2.5 wide x 15" thk. 488' x gym	56.5	CY	357.72	20,211
Concrete in place, stripfoot,2'-6' x12" thk in bldg	32	CY	405.68	12,982
Concrete in place, piers f/canopy 2x3x6 (18)	24	CY	1359.78	32,635
03 30 00	Cast-In-Place Concrete			1,919,842

03 54 00 Cast Underlayment

Underlayment, 1/4" thick R-deck	26043	SF	1.25	32,441
03 54 00	Cast Underlayment			32,441

04 Masonry**04 05 13 Masonry Mortaring**

Weep Vent Inserts	500	EA	1.83	914
Weeps	500	EA	3.16	1,581
04 05 13	Masonry Mortaring			2,495

04 Masonry

Description	Quantity	Unit	Unit Cost	Extended Cost
04 05 19.16 Masonry Anchors				
Wall ties, brickvener, pintle wall ties 16ga, 1.77/sf 16" oc ew	217	C	152.30	33,050

04 05 19.16 Masonry Anchors**33,050****04 21 13 Brick Masonry**

Joint reinforcing, #5bar vertical	18000	LB	1.42	25,517
Lintels	800	LF	26.25	20,998
Control joint, pvc 4" wall	1200	LF	4.70	5,637
Grouting, cmu cores, 8" thick	2032	SF	7.43	15,106
Grouting, cmu cores, 12" thick	4590	SF	8.56	39,279
Grouting, door frames	85	OPNG	124.66	10,596
Joint reinforcing, #4bar horizontal	5350	LB	3.16	16,917
Staging, 2 use per month	61000	SF	3.24	197,847
Forklift, w/ operator	80	DAY	1511.88	120,951
Grouting, cmu cores, 6" thick	3000	SF	6.72	20,145
Mortar Dropping Collection Device 1	600	LF	3.08	1,850
Masonry medalions type g	30	EA	82.27	2,468

04 21 13 Brick Masonry**477,310****04 21 13.13 Brick Veneer Masonry**

Brick veneer, Norman \$1,310/m 4.57/sf (2.25" h x 3.625" w 11.625" l) w/3/8"joint	18050	SF	37.49	676,764
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04 21 13.13 Brick Veneer Masonry**676,764****04 22 00 Concrete Unit Masonry**

Masonry medalions	30	EA	82.27	2,468
Cmu, partition, 8" thick	2552	SF	15.12	38,597
Cmu window headers	700	LF	19.25	13,475
Cmu, back up, 8"thick	5819	SF	18.86	109,751
Cmu, back up, 12"thick	8120	SF	24.38	198,000
Cmu, partition, 6" thick	3000	SF	18.33	54,989
Cmu, bond beam, 6"thick	500	LF	20.72	10,362
Cmu, bond beam, 8"thick	2652	LF	24.18	64,127
Cmu, bond beam, 12"thick	1448	LF	32.57	47,158
Cmu, white ground face, 8x16x12" thick gym	4192	SF	27.46	115,096

04 Masonry

Description	Quantity	Unit	Unit Cost	Extended Cost
Cmu, white , acoustical 8x16x12" thick gym	3398	SF	27.46	93,296
Cmu, partition, 8" thick gym	5096	SF	19.70	100,404
Cmu, partition, 8" thick elevator	1260	SF	19.70	24,825
Cmu, soundcell acoustade, 12" thick gym	1700	SF	39.07	66,426
04 22 00 Concrete Unit Masonry				938,974

04 43 00 Stone Masonry

Natural Veneer, field stone, 4", watertable	6306	SF	76.55	482,730
04 43 00 Stone Masonry				482,730

04 72 00 Cast Stone Masonry

Cast stone, sills, smooth	543	LF	103.86	56,397
Cast stone, header, smooth	296	LF	103.86	30,743
Cast stone, lintel, smooth	218	LF	103.86	22,642
04 72 00 Cast Stone Masonry				109,782

05 Metals**05 12 00 Structural Steel Framing**

Structural steel framing 12#/sf @ 86,200 sf	517.2	TON	5280.02	2,730,824
Struct steel framing connections 5%	35.21	TON	5280.02	185,909
Struct steel colm bearing plates	1.25	TON	5280.02	6,600
Welded shear connector, 3/4"x3-3/8" at 5.42sf/each	5419	EA	3.97	21,508
Scissor lift, 25' high, 1000 lb. capacity w/o operator	100	DAY	132.00	13,200
Struct steel framing 6#/sf, roof 62,350 sf	187	TON	5280.02	987,363
Steel joists with the 10#/sf	30	TON	3019.52	90,586
05 12 00 Structural Steel Framing				4,035,990

05 31 00 Steel Decking

Metal decking, edge closureform18ga	1350	LF	6.09	8,220
Metal deck, 18 ga composit 2"	29375	SF	6.24	183,387
Metal deck, 20 ga galv, 3" roof	43445	SF	5.64	244,869
05 31 00 Steel Decking				436,476

05 Metals

Description	Quantity	Unit	Unit Cost	Extended Cost
05 40 00 Cold-Formed Metal Framing				
Metal stud, lb partition 16ga. 8" 24"o.c.	47000	SF	11.49	539,886
05 40 00 Cold-Formed Metal Framing				539,886
05 50 00 Metal Fabrications				
Railing, wall hung	90	LF	27.53	2,477
Railing, roof 42" high	248	LF	81.68	20,257
Railing, steel pipe	90	LF	129.71	11,673
Ladder, steel, roof	35	VLF	167.22	5,853
Ladder, steel interior	28	VLF	156.22	4,374
Railing, steel pipe replace of glass railing	177	LF	293.46	51,943
Railing, roof fall protection for cleaning gutters	428	LF	81.68	34,959
Stair, metal pan, monumental w/11 risers @209lf for kiva	1	FLIGHT	57611.54	57,612
Misc metals, allowance	85000	sf	1.10	93,500
Stair, metal pan 4w,w/cement fill	576	RISER	399.09	229,877
Stair, landing, steel pan	650	SF	69.65	45,272
Rooftop mechanical enclosure screens f/5 units, 6' h	500	SF	31.44	15,719
05 50 00 Metal Fabrications				573,515

06 Wood, Plastics, and Composites

06 10 00 Rough Carpentry				
Framing, pt sill 2"x8" 1,318lf 1.34bf/lf	1.76	MBF	2627.12	4,624
Labor only, carpenter	200	DAY	859.97	171,993
Blocking, wood 2"x4"	5	MBF	4727.18	23,636
Blocking, p.t.wood 2"xs	6	MBF	4959.83	29,759
06 10 00 Rough Carpentry				230,012
06 20 00 Finish Carpentry				
Window sills, solid surface	700	LF	49.50	34,650
Railing, stair	50	LF	60.68	3,034
Benches, along cy wall	18	LF	110.00	1,980
Millwork allowance	1	TOTAL	55000.00	55,000

06 Wood, Plastics, and Composites

Description	Quantity	Unit	Unit Cost	Extended Cost
06 20 00 Finish Carpentry				94,664
06 40 23 Interior Architectural Woodwork				
Shelving, 12" o.c.	182	SFFACE	25.09	4,567
Maple panel system 2'-0" high	170	LF	13.20	2,244
Student White board cubbies w/shelf	570	Ea	369.41	210,561
06 40 23 Interior Architectural Woodwork				217,372

07 Thermal and Moisture Protection

07 11 00 Dampproofing				
Asphalt coat, spray, 2 coat, below grade	11000	SF	2.48	27,317
Ice & water shield, walls/windows	14000	SF	0.67	9,386
07 11 00 Dampproofing				36,703
07 17 00 Bentonite Waterproofing				
Water proofing, Bentonite Rolls 3/8" elevator pit	265	SF	15.06	3,990
07 17 00 Bentonite Waterproofing				3,990
07 20 00 Thermal Protection				
Insulation, fiberglass batts exterior	52000	SF	2.30	119,353
Insulation, fiberglass batts interior	64000	SF	2.02	129,296
Sheathing, gypsum, 5/8" thick, wp.	52000	SF	2.78	144,400
07 20 00 Thermal Protection				393,048
07 21 00 Thermal Insulation				
Insulation, rigid, 4" wall	47000	SF	2.48	116,366
Roof deck insul, 5" layer polyiso	60000	SF	4.11	246,739
Rigid floor slab insul, 2" 45 psi	48532	SF	1.89	91,648
Roof deck coverboard, dens deck 1/4"	60000	SF	1.44	86,278
Insulation, Phenolic 4" rigid wall	43901	SF	10.29	451,919
Knightwall Cl/HCl comfort board	37595	SF	13.15	494,463
Insulation, mineral fiber kraft face 8"	1000	SF	1.90	1,897
Rigid insulation, 3" R15 Stem Wall	11200	SF	2.48	27,821
07 21 00 Thermal Insulation				1,517,131

07 Thermal and Moisture Protection

Description	Quantity	Unit	Unit Cost	Extended Cost
07 21 14 Foundation Insulation				
Rigid floor insulation, 1"permimeter	6300	SF	1.53	9,609
07 21 14	Foundation Insulation			9,609
07 22 00 Roof and Deck Insulation				
Roof deck coverboard, iso 1/2	43445	SF	1.44	62,748
07 22 00	Roof and Deck Insulation			62,748
07 26 16 Below-Grade Vapor Retarders				
Vapor barrier, polyethylene,.01"t sog	520	SQ	41.10	21,374
07 26 16	Below-Grade Vapor Retarders			21,374
07 27 00 Air Barriers				
Spray on wp ,2 coat cmu	14000	SF	2.48	34,767
Air barrier, peel & stick w.p. membrane inc window openings	28000	SF	2.79	78,139
07 27 00	Air Barriers			112,905
07 27 23 Board Product Air Barriers				
Vapor barrier, polyethylene,.006"t roof	483.78	SQ	36.70	17,757
Sheathing, gypsum, 5/8" thick, wp.	47000	SF	2.78	130,515
07 27 23	Board Product Air Barriers			148,272
07 27 26 Fluid-Applied Membrane Air Barriers				
Air barrier, fluid applied	1000	SF	1.52	1,515
07 27 26	Fluid-Applied Membrane Air Barriers			1,515
07 40 00 Roofing and Siding Panels				
Column covers 18"	14	EA	699.93	9,799
07 40 00	Roofing and Siding Panels			9,799
07 42 00 Wall Panels				
wood baffels	2295	LF	22.95	52,676

07 Thermal and Moisture Protection

Description	Quantity	Unit	Unit Cost	Extended Cost
Anchor clips mfi 16" oc @ each stud 7" deep	12000	ea	8.08	96,972
07 42 00	Wall Panels			149,647
07 42 13	Rain Screen Wall Assembly			
Composite metal Nichiha rainscreen wall assembly 18" x120" panels	11980	SF	44.62	534,588
Knightwall CI/HCI comfort board	35849	SF	13.15	471,499
07 42 13	Rain Screen Wall Assembly			1,006,087
07 50 00	Membrane Roofing			
Membrane, TPO, 45mil, Balasted	43445	SF	3.28	142,558
07 50 00	Membrane Roofing			142,558
07 54 16	Ketone Ethylene Ester Roofing			
2Ply Hot Applied membrane roofing	8509	SF	6.27	53,383
07 54 16	Ketone Ethylene Ester Roofing			53,383
07 60 00	Flashing and Sheet Metal			
Flashing, copper 3 oz. paperbacked	4700	SF	5.66	26,617
Flashing, alum. Sheets .032"thk	4700	SF	10.78	50,683
Metal Parapet Cap	1100	LF	95.74	105,318
07 60 00	Flashing and Sheet Metal			182,618
07 71 23	Manufactured Gutters and Downspouts			
Downspouts, alum,4" (16ea)	750	LF	12.47	9,353
Gutters, alum. 6", half round gym	104	LF	32.53	3,384
Gutters, alum. 6", w/s.s. mesh leaf screen	900	LF	38.54	34,683
07 71 23	Manufactured Gutters and Downspouts			47,419
07 72 00	Roof Accessories			
Roof scuppers	11	EA	795.78	8,754
07 72 00	Roof Accessories			8,754
07 84 00	Firestopping			

07 Thermal and Moisture Protection

Description	Quantity	Unit	Unit Cost	Extended Cost
Firestopping, piping thru walls 4"	150	EA	102.56	15,384
Firestopping, piping thru floor 4"	50	EA	52.14	2,607
07 84 00	Firestopping			17,991

07 92 00 Joint Sealants

Caulking, backer rod polyeth. 1/4"	22800	LF	2.94	67,100
Caulking, butyl 1/4"x1/2", 154lf/gal	22800	LF	5.96	135,805
Acoustical caulking partitions	21914	LF	4.00	87,634
Caulking, backer rod polyeth. 1/4" partitions	21914	LF	2.94	64,493
07 92 00	Joint Sealants			355,032

08 Openings**08 11 00 Metal Doors and Frames**

H.m. frame, single	198	EA	211.01	41,780
H.m. frame, double	41	EA	258.31	10,591
H.m. door, 1-3/4" 20g, 3'-0" x7'-0"	88	EA	351.81	30,959
Attack resistant H.m. door, 1-3/4" 20g, 3'-0" x7'-0"	10	EA	2323.29	23,233
08 11 00	Metal Doors and Frames			106,563

08 14 00 Wood Doors

Wood door, 3'x7'	140	EA	360.78	50,509
08 14 00	Wood Doors			50,509

08 30 00 Specialty Doors and Frames

Alum door&frame interior	14	pair	2027.62	28,387
Alum door&frame interior	44	ea	1168.41	51,410
Overhead Door 6'x8'	1	EA	5073.29	5,073
Overhead Door 8'x8', Interior	1	EA	6723.29	6,723
08 30 00	Specialty Doors and Frames			91,594

08 31 00 Access Doors and Panels

Access door, f.r. metal, 18" x 18"	10	EA	352.80	3,528
08 31 00	Access Doors and Panels			3,528

08 Openings

Description	Quantity	Unit	Unit Cost	Extended Cost
08 41 13 Aluminum-Framed Entrances and Storefr				
Alum door&frame exterior	8	pair	2027.62	16,221
Alum door&frame exterior	23	ea	1168.41	26,874
Storefront, alum w/glass	2521	SF	68.23	172,020
08 41 13	Aluminum-Framed Entrances and Storefront			215,114
08 44 00 Curtain Wall and Glazed Assemblies				
Curtainwall, aluminum, glazing dbl	510	SF	136.20	69,461
08 44 00	Curtain Wall and Glazed Assemblies			69,461
08 49 00 Interior Glass Assemblies				
Borrowed lights, walls interior	2940	SF	49.22	144,715
08 49 00	Interior Glass Assemblies			144,715
08 51 13 Aluminum Windows				
Aluminum windows Exterior	5785	SF	92.37	534,379
08 51 13	Aluminum Windows			534,379
08 62 00 Unit Skylights				
Skylight, 4' x 8'	150	SF	102.27	15,340
08 62 00	Unit Skylights			15,340
08 71 00 Door Hardware				
Finish hardware exterior	40	SET	789.05	31,562
Panic device, bar & vertical rod, exterior	40	EA	745.05	29,802
Finish hardware interior attack resistant	26	SET	628.81	16,349
Finish hardware interior	214	SET	371.05	79,404
08 71 00	Door Hardware			157,117
08 81 00 Glass Glazing				
Borrowed lights, doors	300	SF	49.22	14,767
08 81 00	Glass Glazing			14,767

08 Openings

Description	Quantity	Unit	Unit Cost	Extended Cost
08 88 56 Ballistics-Resistant Glazing				
Ballistic Double Door & Frame 6'x7'	2	EA	16073.29	32,147
Bullet glass in frame admin area	75	sf	323.83	24,288
08 88 56 Ballistics-Resistant Glazing				56,434
08 90 00 Louvers and Vents				
Louvers, alum., w/screen	100	SF	70.76	7,076
08 90 00 Louvers and Vents				7,076

09 Finishes

09 21 16 Gypsum Board Assemblies				
Gwb encapsulate columns	116	EA	817.62	94,844
Part.gwb, 5/8", w/m.s.sgl	50254	SF	12.12	609,035
Drywall, ceiling	4000	SF	6.32	25,298
Drywall, exterior walls	47000	SF	3.72	174,678
Drywall, gypsum, 5/8" on soffits, t&f	2358	SF	6.69	15,778
Level 4 Finishes	1	Allow	82500.00	82,500
09 21 16 Gypsum Board Assemblies				1,002,133
09 21 16.23 Gypsum Board Shaft Wall Assemblies				
Shaft wall, 2hr dbl layer 5/8" d.w.	5200	SF	14.00	72,800
09 21 16.23 Gypsum Board Shaft Wall Assemblies				72,800
09 22 13 Metal Furring				
Furring, on beams, 3/4"galvanized,16"o.c.	3000	SF	7.05	21,156
09 22 13 Metal Furring				21,156
09 22 16.13 Non-Structural Metal Stud Framing				
Metal stud, exter. Soffit.,25ga 6"w 16" oc	8000	SF	3.90	31,183
09 22 16.13 Non-Structural Metal Stud Framing				31,183

09 Finishes

Description	Quantity	Unit	Unit Cost	Extended Cost
09 30 00 Tiling				
Quarry tile, base 4"x8"	188	LF	25.74	4,840
Quarry tile, red floor,8"x8"x1/2",mud kitchen	2300	SF	27.81	63,973
Cementitious, backerboard 5/8" t.	10100	SF	8.23	83,092
Porcelain tile, Bathroom Walls	7700	SF	16.29	125,409
Porcelain Tile, cove base, 6" high	1000	LF	21.99	21,994
Porcelain Tile PLT-1 24" x 48"	2915	SF	23.91	69,699
Porcelain Tile PLT-2 30" x 60"	1280	SF	23.91	30,605
Wall Tile	8000	SF	21.81	174,451
09 30 00 Tiling				574,063
09 51 00 Acoustical Ceilings				
Suspension system, grid, 24"o.c.	67569	SF	2.59	174,692
Suspension system, gwb ceiling	1280	SF	2.59	3,309
Ceiling boards, 2'x2',	43000	SF	8.65	371,766
Ceiling boards, 2'x2', armstrong kitchenzone	1360	SF	12.21	16,612
Ceiling ,24"x48" armstrong invsacoustic CLG-6	2000	SF	36.23	72,452
Ceiling, Painted GWB Soffit, CLG-10	2250	SF	13.58	30,557
09 51 00 Acoustical Ceilings				669,389
09 62 00 Specialty Flooring				
Epoxy, Floor Heavy Duty	2000	SF	19.05	38,102
09 62 00 Specialty Flooring				38,102
09 65 00 Resilient Flooring				
Luxury Vinyl Tile plank LVT-1, 9" X 36"	1060	SF	4.09	4,332
Luxury Vinyl Tile plank LVT-2, 9" X 36"	4209	SF	4.09	17,201
Resilient, rs-1, sheet 2.5mm	6000	SF	8.48	50,882
09 65 00 Resilient Flooring				72,415
09 65 66 Resilient Athletic Flooring				
SPT-1 Tarkett Sports Performance	7470	SF	18.51	138,286
Wood flooring, stage trim	350	SF	17.83	6,240
09 65 66 Resilient Athletic Flooring				144,527

09 Finishes

Description	Quantity	Unit	Unit Cost	Extended Cost
09 68 00 Carpeting				
Ramp, rubber 1/8" thick	650	SF	9.16	5,952
Floor vinyl, cove base, 4"	11752	LF	4.81	56,492
Carpet tile, cpt-1, 20" x 20"	2600	SY	56.81	147,702
09 68 00 Carpeting				210,146
09 68 13 Tile Carpeting				
Entry Carpet Tile, CPE-1 21.65"x36.43	10	SY	48.87	489
09 68 13 Tile Carpeting				489
09 81 29 Sprayed Acoustic Insulation				
Spray Acoustical Insulation 1-1/2"	85000	SF	1.65	140,019
09 81 29 Sprayed Acoustic Insulation				140,019
09 83 13 Acoustic Wall Coating				
Spline mounted acoustical wall panel w/fabric covering	1700	SF	21.28	36,178
09 83 13 Acoustic Wall Coating				36,178
09 84 13 Fixed Sound-Absorptive Panels				
Sound attenuation, blanket 3", wall	75000	SF	2.03	152,134
09 84 13 Fixed Sound-Absorptive Panels				152,134
09 91 00 Painting				
Paint, door frame 2coat,w/brush	100	EA	97.26	9,726
Paint, masonry glaze	8120	SF	2.82	22,862
Paint, int door& frame 2coat,w/brush	159	EA	143.37	22,796
Paint, stairways, oil, 2c w/brush	3	FLT	1122.23	3,367
Paint, extdoor&fram 3x7,primer+2cts	21	EA	195.53	4,106
Paint, inter.wall primer+2 cts brsh 11'-0	156800	SF	2.49	389,871
Paint, gwb ceilings/soffits	3280	SF	2.49	8,155
Paint, ceilings exposed, 2 coats	3894	SF	2.19	8,520
Paint gym floor markings	1	TOTAL	5506.63	5,507
09 91 00 Painting				474,909

10 Specialties

Description	Quantity	Unit	Unit Cost	Extended Cost
10 Specialties				
10 11 00 Visual Display Units				
Markerboards/tack boards @ Learning Wing	5	EA	70000.00	350,000
10 11 00 Visual Display Units				350,000
10 14 00 Signage				
Signage, display cases	8	EA	1650.00	13,200
Signage, site,parking (4), h.c.(3)	61	EA	225.59	13,761
Signage, main entrance	1	EA	3300.00	3,300
Signage, interior rooms	1	TOTAL	19097.13	19,097
Pintel lettering 3 locations	3	EA	2116.52	6,350
Signs, street	49	EA	425.31	20,840
10 14 00 Signage				76,548
10 21 13.16 Plastic-Laminate-Clad Toilet Compartme				
Partition, toilet, handicap plaslam	2	EA	1320.50	2,641
Partition, toilet cubicle,door	6	EA	643.10	3,859
Partition, toilet, plaslam reg.	4	EA	1218.05	4,872
Projection screens 12'x12' motorized	4	EA	2499.20	9,997
10 21 13.16 Plastic-Laminate-Clad Toilet Compartments				21,369
10 28 00 Toilet, Bath, and Laundry Accessories				
Accessories, bathroom	1	LSUM	25284.43	25,284
10 28 00 Toilet, Bath, and Laundry Accessories				25,284
10 44 00 Fire Protection Specialties				
Lockers, 1tier	15	OPNG	124.99	1,875
Fire extinguisher, all purpose, 10#	16	EA	89.34	1,429
Fire extinguisher, cabinet, steel	16	EA	270.41	4,326
10 44 00 Fire Protection Specialties				7,631
10 55 00 Postal Specialties				
Mailboxes 5"x6"x15"	54	EA	63.45	3,426

10 Specialties

Description	Quantity	Unit	Unit Cost	Extended Cost
10 55 00	Postal Specialties			3,426
10 82 00	Grilles and Screens			
Grills & screens 24"x48"	5	EA	199.98	1,000
10 82 00	Grilles and Screens			1,000

11 Equipment**11 13 00 Loading Dock Equipment**

Loading dock	1	TOTAL	7999.20	7,999
11 13 00	Loading Dock Equipment			7,999

11 30 00 Residential Equipment

Refrigerator	6	EA	2499.75	14,999
Microwave	6	EA	399.96	2,400
11 30 00	Residential Equipment			17,398

11 40 00 Foodservice Equipment

Kitchen equipment	1	LSUM	387591.30	387,591
11 40 00	Foodservice Equipment			387,591

11 52 13 Projection Screens

Projection screens 12'x12' motorized	4	EA	3841.32	15,365
11 52 13	Projection Screens			15,365

11 66 00 Athletic Equipment

Athletic equipment	1	TOTAL	3999.60	4,000
Basketball nets ceiling mtd	6	EA	5690.49	34,143
Gym wall pads	1000	SF	27.97	27,966
11 66 00	Athletic Equipment			66,109

12 Furnishings

12 Furnishings

Description	Quantity	Unit	Unit Cost	Extended Cost
12 20 00 Window Treatments				
Roller shades	2032	SF	3.99	8,114
12 20 00 Window Treatments				8,114
12 30 00 Casework				
Wardrobe 3"x6'-8"	31	EA	385.00	11,935
Wall cabinet	282	LF	301.52	85,028
Counter top, w/bs	235	LF	246.52	57,932
Base cabinet	202	LF	301.52	60,907
12 30 00 Casework				215,801
12 48 13 Entrance Floor Mats and Frames				
Floor mats, recess frames, bronze cpe-1	800	LF	22.40	17,922
Floor mats, reces. blk rubber 1/2 cpe-1	1000	SF	27.77	27,768
12 48 13 Entrance Floor Mats and Frames				45,690
12 48 43 Floor Mats				
Entry Carpet Tile,	80	SF	48.87	3,909
Entry, floor mats walk off	300	SF	13.47	4,040
Floor mats, recess frames, alum	320	LF	17.45	5,585
12 48 43 Floor Mats				13,535
12 66 13 Telescoping Bleachers				
Bleachers, telescoping, manual opr.	280	SEAT	190.60	53,368
12 66 13 Telescoping Bleachers				53,368

13 Special Construction

13 00 00 Special Construction				
Bus Canopy	1	LSUM	30000.00	30,000
Kiva	1	LSUM	50000.00	50,000
Front Canopy 2,144 sf	1	LSUM	150000.00	150,000
Mock up Panels (2)	1	LSUM	30000.00	30,000

13 Special Construction

Description	Quantity	Unit	Unit Cost	Extended Cost
Stage	1	LSUM	12000.00	12,000
13 00 00 Special Construction				272,000

14 Conveying Equipment**14 21 00 Electric Traction Elevators**

Elevators, maint.agree 12 mo. pass	1	EA	3960.00	3,960
Elevator, traction	2	STOP	45077.50	90,155
Elevators, cab allowance	1	EA	11000.00	11,000
14 21 00 Electric Traction Elevators				105,115

21 Fire Suppression**21 13 13 Wet-Pipe Sprinkler Systems**

Sprinklers	67497	SF	5.50	371,234
21 13 13 Wet-Pipe Sprinkler Systems				371,234

22 Plumbing**22 00 00 Plumbing**

Plumbing	67497	SF	24.20	1,633,428
22 00 00 Plumbing				1,633,428

22 08 00 Commissioning of Plumbing

Commissioning, Project Manager	40	MH	165.00	6,600
22 08 00 Commissioning of Plumbing				6,600

23 Heating, Ventilating, and Air Conditioning (HVAC)**23 30 00 HVAC Air Distribution**

HVAC	67497	SF	66.00	4,454,802
23 30 00 HVAC Air Distribution				4,454,802

26 Electrical

Description	Quantity	Unit	Unit Cost	Extended Cost
26 Electrical				
26 00 00 Electrical				
General conditions	1	TOTAL	37790.00	37,790
26 00 00		Electrical		37,790
26 05 19 Low-Voltage Electrical Power Conductors				
Low Voltage 600V Cable	1	TOTAL	203557.00	203,557
26 05 19		Low-Voltage Electrical Power Conductors an		203,557
26 05 26 Grounding and Bonding for Electrical Sys				
Grounding & Bonding	1	TOTAL	5640.00	5,640
26 05 26		Grounding and Bonding for Electrical System		5,640
26 05 29 Hangers and Supports for Electrical Syst				
Hangers & Supports	1	TOTAL	68876.00	68,876
26 05 29		Hangers and Supports for Electrical Systems		68,876
26 05 33 Raceway and Boxes for Electrical Syste				
Raceways & Boxes	1	TOTAL	469797.00	469,797
26 05 33		Raceway and Boxes for Electrical Systems		469,797
26 05 36 Cable Trays for Electrical Systems				
Cable Tray	1	TOTAL	4564.00	4,564
26 05 36		Cable Trays for Electrical Systems		4,564
26 05 39 Underfloor Raceways for Electrical Syste				
Underfloor Raceways	1	TOTAL	7957.00	7,957
26 05 39		Underfloor Raceways for Electrical Systems		7,957
26 05 43 Underground Ducts and Raceways for EI				
Underground Raceways	1	TOTAL	81998.00	81,998

26 Electrical

Description	Quantity	Unit	Unit Cost	Extended Cost
26 05 43				81,998
Underground Ducts and Raceways for Electri				
26 05 73				
Power System Studies				
Short Circuit Coordination Study	1	TOTAL	10350.00	10,350
26 05 73				10,350
Power System Studies				
26 05 83				
Wiring Connections				
Wire Terminations	1	TOTAL	38617.00	38,617
26 05 83				38,617
Wiring Connections				
26 08 00				
Commissioning of Electrical Systems				
Testing/Commisioning	1	TOTAL	24985.00	24,985
26 08 00				24,985
Commissioning of Electrical Systems				
26 20 00				
Low-Voltage Electrical Distribution				
Low Voltage XFMR's	1	TOTAL	76753.00	76,753
26 20 00				76,753
Low-Voltage Electrical Distribution				
26 23 00				
Low-Voltage Switchgear				
Switchgear & Metering	1	TOTAL	129398.00	129,398
26 23 00				129,398
Low-Voltage Switchgear				
26 24 00				
Switchboards and Panelboards				
Panels & MCC'S	1	TOTAL	41286.00	41,286
26 24 00				41,286
Switchboards and Panelboards				
26 27 26				
Wiring Devices				
Wiring Devices	1	TOTAL	44767.00	44,767
26 27 26				44,767
Wiring Devices				
26 28 00				
Low-Voltage Circuit Protective Devices				
Disc SWS/Contact/ECB	1	TOTAL	24296.00	24,296
26 28 00				24,296
Low-Voltage Circuit Protective Devices				

26 Electrical

Description	Quantity	Unit	Unit Cost	Extended Cost
26 29 00 Low-Voltage Controllers				
Local Motor Control	1	TOTAL	3766.00	3,766
26 29 00		Low-Voltage Controllers		3,766
26 32 00 Packaged Generator Assemblies				
Generator/UPS System	1	TOTAL	202384.00	202,384
26 32 00		Packaged Generator Assemblies		202,384
26 36 00 Transfer Switches				
Transfer Switches	1	TOTAL	76618.00	76,618
26 36 00		Transfer Switches		76,618
26 50 00 Lighting				
Lighting and Controls	1	TOTAL	1080568.00	1,080,568
26 50 00		Lighting		1,080,568

27 Communications

27 13 23 Communications Optical Fiber Backbone				
Communications Backbone Cabling	1	TOTAL	8527.00	8,527
27 13 23		Communications Optical Fiber Backbone Ca		8,527
27 15 13 Communications Copper Horizontal Cabli				
Horizontal Cabling	1	TOTAL	98133.00	98,133
27 15 13		Communications Copper Horizontal Cabling		98,133
27 20 00 Data Communications				
Equipment	1	TOTAL	1700556.00	1,700,556
27 20 00		Data Communications		1,700,556

28 Electronic Safety and Security

28 Electronic Safety and Security

Description	Quantity	Unit	Unit Cost	Extended Cost
28 16 00 Access Control Interfaces				
Safety & Security Intrusion	1	TOTAL	11161.00	11,161
28 16 00		Access Control Interfaces		11,161
28 20 00 Video Surveillance				
Security	1	TOTAL	44151.00	44,151
28 20 00		Video Surveillance		44,151
28 31 00 Intrusion Detection				
Fire Alarm	1	TOTAL	83138.00	83,138
28 31 00		Intrusion Detection		83,138

31 Earthwork

31 09 00 Geotechnical Instrumentation and Monito				
Dewatering	0	LS	1.00	0
31 09 00		Geotechnical Instrumentation and Monitoring		0
31 13 00 Selective Tree and Shrub Removal and T				
Clear & grade, work area	6.62	ACRE	7998.22	52,948
Clear & grub, trees, 10"dia, medium	1	ACRE	9997.78	9,998
31 13 00		Selective Tree and Shrub Removal and Trim		62,946
31 20 00 Earth Moving				
Temp. road entrance 12'x50'	600	SF	4.40	2,640
Backfill, compaction w/vib plate 12"	5325	CY	12.59	67,044
Excavation, hyd. excav. building	4000	CY	13.44	53,741
Excavation, utility trench, w/backhoe	5325	CY	16.97	90,355
Grading, rough, by hand sog	66611	SF	0.75	49,941
Excavation, hyd. excav. bldg. 2' organic	3780	CY	13.44	50,785
Backfill, w/dozer, vibrating roller bldg	4900	CY	5.37	26,292
Compaction, riding vib. roller, 3pass	3700	CY	5.36	19,825
Excavation, structural w/hyd. exvtr	4000	CY	21.29	85,168
Excess cut, spread on site	54	CY	2.76	149

31 Earthwork

Description	Quantity	Unit	Unit Cost	Extended Cost
Excavation, trench, elec 8900 lf	1977	CY	16.97	33,546
Import, & backfill w/compacted fill	500	CY	54.62	27,310
Excavation, bulk w/dozer, cut 2620cy /fill 2674cy	5294	CY	10.80	57,200
Pipe, pvc, 6"dia.,s.d.r. 35, (6) stand pipe to roof SSD	600	LF	14.26	8,554
Pipe, pvc, 4"dia.,s.d.r. 35, solid, SSD	535	LF	14.26	7,627
Pipe, pvc, 4"dia.,s.d.r. 35, perforated, SSD	1660	LF	14.26	23,666
Excavating, trench f/pipe under s.o.g., SSD	2195	LF	10.12	22,216
Pipe bedding /trench sand, SSD	325	CY	35.23	11,451
31 20 00	Earth Moving			637,509

31 23 23.23 Compaction

Compaction, riding vib.roller,3pass fills	2674	CY	5.36	14,327
31 23 23.23	Compaction			14,327

31 25 00 Erosion and Sedimentation Controls

Erosion control, silt fence, mirafi	3314	LF	4.05	13,412
Erosion control, hay bales & removal	3314	LF	5.65	18,709
Erosion control, mat	1	TOTAL	24997.50	24,998
Erosion control, snow fence	3314	LF	6.09	20,167
Detention basin, #1,2,3,4,5 excavation	922	CY	6.65	6,135
Detention basin, #1,2,3,4,5, enbackment	922	CY	8.44	7,784
Detention basin, fabric & rip rap 8304 sf	922	SY	3.85	3,547
Drainage/spillway rip rap	150	CY	42.40	6,360
31 25 00	Erosion and Sedimentation Controls			101,110

31 61 00 Ground Improvement Piers

Geo pile, stone colm 24"diam. 0.116cylf	56000	sf	17.47	978,561
31 61 00	Ground Improvement Piers			978,561

32 Exterior Improvements**32 12 16 Asphalt Paving**

Hard surfaced play area	6446	SF	2.20	14,181
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32 Exterior Improvements

Description	Quantity	Unit	Unit Cost	Extended Cost
Grading, fine, 3 passes, plus roll	3916	SY	2.30	9,016
Bitum., paving, wearing course 2"	3916	SY	16.15	63,253
Bitum., paving, binder course 3"	3916	SY	23.64	92,568
Cold planing, asphalt pavmt., 1" to 3" deep 5,878 sf	653	SY	6.59	4,304
Basecourse, bank run gravel, 12" deep	3916	SY	6.86	26,857
Bitum., paving, wearing course 2" road patching	1111	SY	16.15	17,945
Bitum., paving, binder course 3" road patching	1111	SY	23.64	26,262

32 12 16 Asphalt Paving**254,388****32 16 14 Precast Concrete Curbs**

Curbs, precast conc. radius 6"x18"	1500	LF	32.63	48,947
Curbs, precast conc. stright 6"x18"	2000	LF	20.83	41,654
Curbs locks, concrete, 6"x12" both sides 27 lf/cy	5000	LF	9.82	49,102
Curbs, precast conc. Sloped edging 5"x16"	1500	LF	19.18	28,765

32 16 14 Precast Concrete Curbs**168,468****32 16 23 Sidewalks**

Sidewalk, concrete 4" thicik	39452	SF	7.75	305,744
Screeds, 1"x3" with stakes 2' o.c. f/s.walks	2000	LF	4.31	8,628
Finishing, broom finish f/s.walks	39452	SF	2.03	80,073
Sidewalk, concrete curb cuts	13	EA	1445.62	18,793
Basecourse, bank run gravel, 6" deep f/swalk	4939	SY	3.75	18,498

32 16 23 Sidewalks**431,736****32 17 13 Parking Bumpers**

Flagpole, alumninium 35'	1	EA	4908.39	4,908
Flagpole, concrete foundation	1	EA	2041.69	2,042
Bollards, pipe conc filled	8	EA	351.94	2,816
Bollards, pipe conc filled f/signs	4	EA	417.94	1,672

32 17 13 Parking Bumpers**11,437****32 17 23 Pavement Markings**

Painting, pavement lines thermo 4"w	2190	LF	0.89	1,939
Paint, arrows & h.c symbols (12)	900	SF	9.17	8,251

32 Exterior Improvements

Description	Quantity	Unit	Unit Cost	Extended Cost
Paint, parking stall,white	20	STALL	8.69	174
32 17 23	Pavement Markings			10,364

32 31 13 Chain Link Fences and Gates

Fence, chain link 4' high	575	LF	35.64	20,491
Fence, chain link 4' gate	6	EA	554.33	3,326
Steel gate with keepers	1	PR	2860.00	2,860
Safety barricade fence 4' high c.l	266	LF	25.74	6,846
Railings 8 locations	8	EA	4000.00	32,000
32 31 13	Chain Link Fences and Gates			65,524

32 32 23.13 Segmental Concrete Unit Masonry Retai

Retaining wall, interlocking stone Standard 4' x2' x3' segmental block	568	SFFACE	58.91	33,458
32 32 23.13	Segmental Concrete Unit Masonry Retaining			33,458

32 90 00 Planting

Landscaping allowance	1	ALLOW	66000.00	66,000
Mulch	100	CY	31.25	3,125
Shrubs, 3'high	78	EA	68.68	5,357
32 90 00	Planting			74,482

32 91 19.13 Topsoil Placement and Grading

Topsoil, spread w/loader hand dress	1000	CY	24.64	24,643
Topsoil, stripped stockpile	1000	CY	9.25	9,247
32 91 19.13	Topsoil Placement and Grading			33,890

32 92 19 Seeding

Seeding, turf mix, hydroseed	400	MSF	95.18	38,071
32 92 19	Seeding			38,071

32 93 43 Trees

Trees, dec. 2-1/2" - 3"	16	EA	457.38	7,318
Trees, evergreen	5	EA	347.38	1,737
Staking trees	21	EA	99.99	2,100
32 93 43	Trees			11,155

33 Utilities

Description	Quantity	Unit	Unit Cost	Extended Cost
33 Utilities				
33 00 00 Utilities				
Elec.utility vaults, 6' high	2	EA	5989.56	11,979
Light pole bases	40	EA	510.96	20,438
Trenching for gas service	500	LF	21.51	10,755
33 00 00 Utilities				43,173
33 01 10.58 Disinfection of Water Utility Piping System				
Equipment pads, conc	7	CY	220.00	1,540
33 01 10.58 Disinfection of Water Utility Piping Systems				1,540
33 05 09 Piping Specials for Utilities				
Drywell 3/4" chrushed stone	150	CY	22.00	3,300
Drain pipe, pvc, 12"dia.,hdpe	200	LF	54.98	10,997
Flared end .conc., 12"dia.,class 3	9	EA	778.52	7,007
Drain pipe, pvc, 15"dia.,hdpe	200	LF	58.28	11,657
Drain pipe, pvc, 18"dia.,hdpe	200	LF	63.78	12,757
Pipe, pvc, 8" gate valve	1	EA	451.17	451
33 05 09 Piping Specials for Utilities				46,169
33 05 61 Concrete Manholes				
Catch basin, precast,4'id10'	15	EA	2795.95	41,939
Drain manhole, precast,4'id10'	10	EA	4577.05	45,770
33 05 61 Concrete Manholes				87,710
33 14 16 Site Water Utility Distribution Piping				
Pipe, pvc, 10"dia., roof drains	200	LF	15.73	3,146
Pipe, pvc, 8"dia., roof drains	200	LF	15.28	3,057
Fire hydrant, relocate	1	EA	1388.40	1,388
Pipe, ductile iron, 4"diam. cl250	200	LF	39.13	7,826
Pipe, ductile iron, 8"diam. cl250	200	LF	54.47	10,893
Thrust blocks, conc.	10	EA	373.06	3,731
Gate valve, w/box 6"	6	EA	1242.70	7,456
Tapping sleeve	1	EA	550.00	550
Bedding, for pipe, bank run gravel	400	CY	36.95	14,779

33 Utilities

Description	Quantity	Unit	Unit Cost	Extended Cost
Fill, in trench crushed stone 3/4"	500	CY	35.23	17,617
Pipe, ductile iron, 12" diam. cl250	200	LF	83.90	16,780
Pipe, ductile iron, 16" diam. cl200	200	LF	116.85	23,370
Water main tapping & relocation	1	TOTAL	49995.00	49,995
Fire hydrant, new	1	EA	2433.40	2,433
33 14 16 Site Water Utility Distribution Piping				163,021

33 31 13 Site Sanitary Sewerage Gravity Piping

Frames & covers, heavy traffic 24"	31	EA	676.27	20,964
Sewer manhole, precast,4'id10'	6	EA	4577.05	27,462
Grease trap 2000 gal.	1	EA	3883.95	3,884
Pipe, pvc, 8" gate valve	1	EA	451.17	451
Pipe, pvc, 8" screen inlet	1	EA	396.17	396
Sewer pipe, pvc, 6"dia.,s.d.r. 35,	200	LF	14.26	2,851
Inverts, single channel, brick	16	EA	996.69	15,947
33 31 13 Site Sanitary Sewerage Gravity Piping				71,956

33 41 00 Subdrainage

Cultec units r-330	300	EA	674.22	202,267
Fill, 3/4" stone, for cultec units	600	CY	57.06	34,237
33 41 00 Subdrainage				236,504

Sub Total			38,856,250	575.06 / SF
Profit	10 %		3,885,625	
Bond	1 %		388,563	
Contingency Design	5 %		1,942,813	
Construction Contingency	10 %		3,885,625	
Grand Total			48,958,880	724.58 / SF