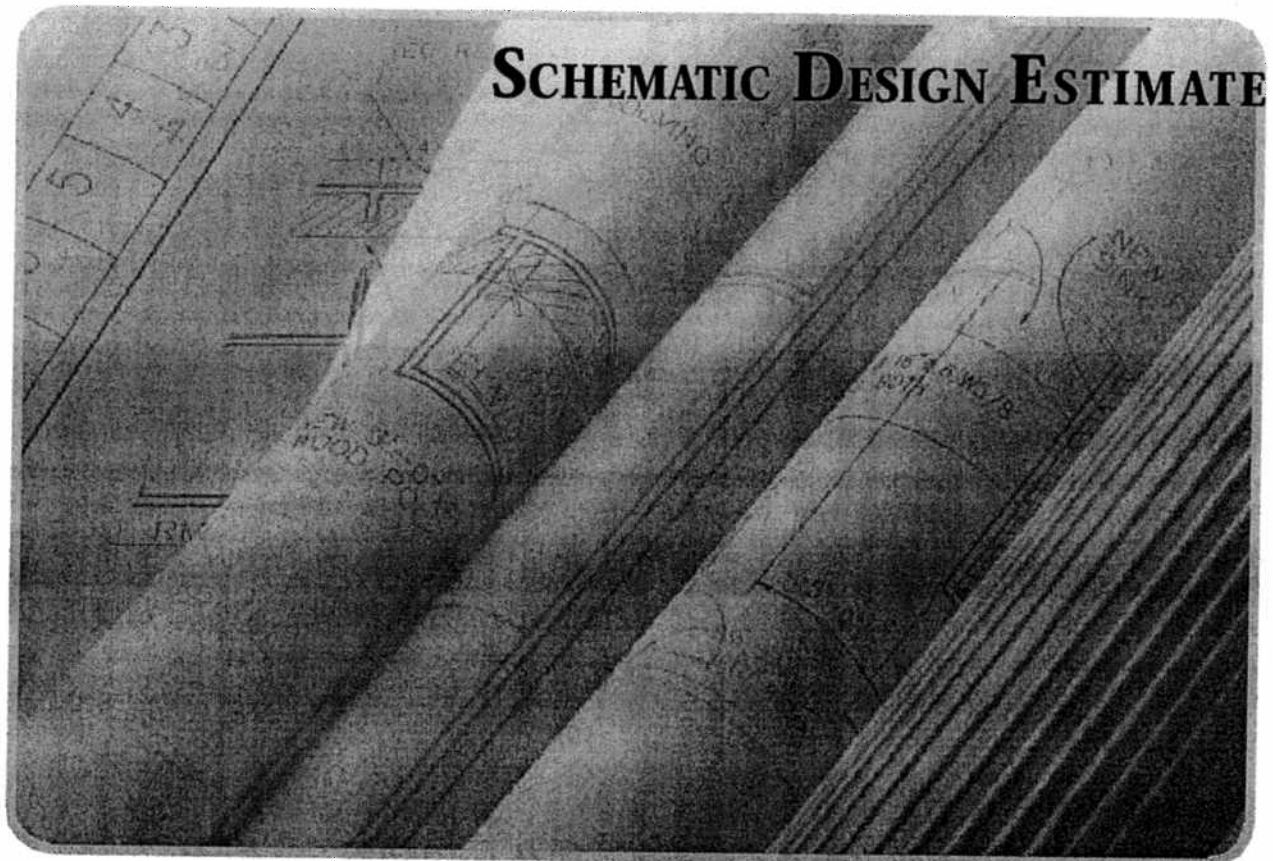




New Public Works Facility
Belmont, MA

April 5, 2006



Design Architect:
Gannet Flemming
150 Wood Road
Braintree, MA 02184
(781) 380-7750

Cost Estimator:
Daedalus Projects Incorporated
112 South Street
Boston, MA 02111
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New Public Works Facility
Belmont, MA

5-Apr-06
Schematic Estimate

INTRODUCTION

The following Schematic Design Estimate is based upon architectural drawings received March 30th, 2006, from Gannett Fleming. This estimate reflects approximate quantities measured from the drawings.

This estimate assumes the following:

- The project will be publicly bid. Our costs assume that there will be at least three subcontractors submitting unrestricted bids in each filed sub-trade, and a minimum of three general contractors.
- Prices are based upon current 2006 dollars. Escalation has been added to mid point of construction anticipated as late Spring 2007.

The following items are not included in the estimate:

- Loose furnishings and equipment.
- Design fees and other soft costs.
- Owner's project administration.
- Legal fees.
- Building permit.
- Construction contingency (for change orders).
- Builder's Risk Insurance.
- Interest expense.
- Printing and advertising.
- Moving and storage expense.
- Latent site conditions.

Markups:

- 10% Design Contingency has been carried.
- General conditions, overhead and profit has been carried at 13%.

Gross Square Footage: 79,283



New Public Works Facility
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Schematic Estimate

MAIN SUMMARY

Sitework	inc		
New Construction		\$15,314,521	\$193.16
Sub-total		\$15,314,521	\$193.16
Escalation to mid-point of contract allowed for 1 year at 5% per annum	5.00%	\$765,726	\$9.66
TOTAL		\$16,080,247	\$202.82

New Public Works Facility
New Construction
Belmont, MA

5-Apr-06
Schematic Estimate

MAIN SUMMARY

GSF 79283

ELEMENT	COST	COST/SF
02200-EARTHWORK	\$265,891	\$3.35
02100-SITE PREPARATION	\$1,497,237	\$18.88
02-BUILDING SITEWORK	\$1,763,128	\$22.24
03300-CAST-IN-PLACE CONCRETE	\$635,212	\$8.01
03-CONCRETE	\$635,212	\$8.01
04200-UNIT MASONRY	\$309,363	\$3.90
04-MASONRY	\$309,363	\$3.90
05000-METALS / STEELWORK	\$310,849	\$3.92
05-METALS / STEELWORK	\$310,849	\$3.92
06100-ROUGH CARPENTRY	\$79,283	\$1.00
06200-FINISH CARPENTRY	\$14,900	\$0.19
06-WOODS AND PLASTICS	\$94,183	\$1.19
07100-WATERPROOFING AND DAMPPROOFING	\$79,164	\$1.00
07210-BUILDING INSULATION	\$153,854	\$1.94
07270-SPRAYED APPLIED FIREPROOFING	\$121,925	\$1.54
07300 ROOFING	\$792,830	\$10.00
07600-FLASHING AND SHEET METAL	\$20,500	\$0.26
07900-JOINT SEALANTS	\$11,804	\$0.15
07-THERMAL AND MOISTURE PROTECTION	\$1,180,077	\$14.88
08100- DOORS AND FRAMES	\$173,085	\$2.18
08610-WOOD WINDOWS	\$121,200	\$1.53
08-DOORS AND WINDOWS	\$294,285	\$3.71
09250-FINISHES	\$355,152	\$4.48
09900-PAINTING	\$148,842	\$1.88
09-FINISHES	\$503,995	\$6.36
10000-SPECIALTIES	\$65,733	\$0.83
10-SPECIALTIES TOTAL	\$65,733	\$0.83
11000-EQUIPMENT	\$426,600	\$5.38
11-EQUIPMENT TOTAL	\$426,600	\$5.38
12000-FURNISHINGS	\$24,484	\$0.31
FURNISHINGS TOTAL	\$24,484	\$0.31
13000-SPECIAL CONSTRUCTION	\$2,123,474	\$26.78
SPECIAL CONSTRUCTION TOTAL	\$2,123,474	\$26.78

New Public Works Facility
 New Construction
 Belmont, MA

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MAIN SUMMARY

GSF 79283

ELEMENT			COST	COST/SF
15300-FIRE PROTECTION			\$407,311	\$5.14
15400-PLUMBING			\$950,925	\$11.99
15500-HVAC			\$1,161,861	\$14.65
15-MECHANICAL			\$2,520,097	\$31.79
16000-ELECTRICAL			\$2,069,132	\$26.10
16-ELECTRICAL			\$2,069,132	\$26.10
Subtotal			\$12,320,612	\$155.40
Design Contingency 10%			\$1,232,061	\$15.54
Subtotal			\$13,552,673	\$170.94
General Conditions Overhead & Profit 13%			\$1,761,848	\$22.22
New Construction Total			\$15,314,521	\$193.16



New Public Works Facility
Belmont, MA

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Schematic Estimate

GSF 79,283

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
02-BUILDING SITEWORK				
02200-EARTHWORK				
Rough grade for slab on grade	72,283	SF	0.50	\$36,142
Excavation for foundation assumed 6' deep	8,400	CY	9.00	\$75,600
Backfill	2,940	CY	9.00	\$26,460
Disposal	840	CY	8.00	\$6,720
Crushed stone base to slab 8" thick	1,783	CY	22.00	\$39,226
Excavate for elevator pit	1	LS	3,000.00	\$3,000
Trench drain to building	1,222	LF	52.00	\$63,544
Trench drain across coiling door openings	250	LF	52.00	\$13,000
Siltboxes to trench drains	8	EA	275.00	\$2,200
EARTHWORK TOTAL				\$265,891
03-CONCRETE				
03300-CAST-IN-PLACE CONCRETE				
Concrete to:				
Walls 1'-0 wide by 6'0 deep	326	CY	125.00	\$40,722
Footings 3' wide 1'-6" tthick	244	CY	125.00	\$30,542
Grade beams 3' wide 1'-6" tthick	23	CY	125.00	\$2,917
Slab on grade 8" thick	1,783	CY	125.00	\$222,873
Upper floor slab	106	CY	125.00	\$13,287
Reinforcing to:				
Footings / grade beams / tie beams	2,632	LBS	0.85	\$2,237
Walls	16,273	LBS	0.85	\$13,832
Slab; w.w.f 15% allowance for laps	91,175	SF	0.55	\$50,146
Formwork:				
Footings	4,398	SF	6.00	\$26,388
Walls	17,592	SF	8.00	\$140,736
Cure, screed and protect s.o.g.	72,283	SF	0.75	\$54,212
Cure, screed and protect upper slabs	7,000	SF	0.65	\$4,550
Vapor barrier	79,283	SF	0.18	\$14,271
Slab isolation joints	2,000	LF	6.50	\$13,000
Equipment pads	1	LS	2,000.00	\$2,000
Elevator pit	1	LS	3,500.00	\$3,500
CAST-IN-PLACE CONCRETE TOTAL				\$635,212
04-MASONRY				
04200-UNIT MASONRY				
<i>External walls</i>				
Brick veneer at 2nd flr admin area	4644	SF	28.00	\$130,032
8" grouted and reinforced CMU	4644	SF	12.75	\$59,211
Allowance for brick and precast features	1	LS	21,000.00	\$21,000
<i>Interior Partitions</i>				
Partition 8" CMU, grouted and reinforced, first floor	7,080	SF	14.00	\$99,120
UNIT MASONRY TOTAL				\$309,363



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GSF 79,283

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
05-METALS				
05000-METALS				
Thrust ties @ vehicle storage	4	TNS	4,000.00	\$16,000
Wash bay catwalk	2	EA	14,000.00	\$28,000
Metal floor deck @ uppere admin floor	7,000	SF	3.00	\$21,000
Metal roof deck	72,283	SF	3.00	\$216,849
Elevator pit ladder	1	EA	800.00	\$800
Roof ladder	1	EA	1,200.00	\$1,200
Staircases and handrails complete Stair tower	1	EA	7,000.00	\$7,000
Allowance for explosion proofing to structure in maintenance bay	1	LS	20,000.00	\$20,000
METALS TOTAL				\$310,849
06-WOODS AND PLASTICS				
06100-ROUGH CARPENTRY				
Rough carpentry allowance	79,283	SF	1.00	\$79,283
ROUGH CARPENTRY TOTAL				\$79,283
06200- FINISH CARPENTRY				
Interior standing and running trim allowance	1	LS	5,000.00	\$5,000
Bathroom counters	20	LF	85.00	\$1,700
Countertops at reception area	16	LF	80.00	\$1,280
Kitchenette base units	25	LF	200.00	\$5,000
Closet shelving, rods etc	1	LS	800.00	\$800
Fixed shelving; allowance	35	LF	32.00	\$1,120
FINISH CARPENTRY TOTAL				\$14,900
07-THERMAL AND MOISTURE PROTECTION				
07190-VAPOR RETARDER				
Wrap to building exterior	26,388	SF	3.00	\$79,164
WATERPROOFING AND DAMPPROOFING TOTAL				\$79,164
07210-BUILDING INSULATION				
Rigid insulation to slab on grade	72,283	SF	2.00	\$144,566
Rigid insulation to external wall	4,644	SF	2.00	\$9,288
BUILDING INSULATION TOTAL				\$153,854
07270-SPRAYED APPLIED FIREPROOFING				
Upper floor steelwork to receive spray on fire proofing	79,283	SF	1.50	\$118,925
Allowance for firestopping measures	1	LS	3,000.00	\$3,000
SPRAYED APPLIED FIREPROOFING TOTAL				\$121,925
07300-ROOFING				
PVC incl ballast to flat roof areas	79,283	SF	10.00	\$792,830
ASPHALT SHINGLE ROOFING TOTAL				\$792,830
07600-FLASHING				
Allowance for flashing in exterior closure	1	LS	7,500.00	\$7,500
Allowance for roof flashings	1	LS	10,000.00	\$10,000
Allowance for flashings at junction of different construction types	1	LS	2,000.00	\$3,000



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GSF 79,283

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
FLASHING AND SHEET METAL TOTAL				\$20,500
07900-JOINT SEALANTS				
Sealant to windows	322	LF	2.00	\$644
Sealant to exterior doors	260	LF	2.00	\$520
Sealant to exterior coiling doors	320	LF	2.00	\$640
Allow for miscellaneous caulking	1	LS	10,000.00	\$10,000
JOINT SEALANTS TOTAL				\$11,804
08100- DOORS (incl frames and hardware)				
Hollow metal external door, frame and hardware	19	EA	1,100.00	\$20,900
Pair of entry doors ;Aluminum glazed	2	EA	3,500.00	\$7,000
Hollow metal internal door, frame and hardware	67	EA	1,000.00	\$67,000
Premium for vision panels in doors	125	SF	25.00	\$3,125
Access panel, 3' x 3'	18	EA	250.00	\$4,500
Electrically operated overhead coiling doors 14 x 14	8	EA	8,820.00	\$70,560
METAL DOORS AND FRAMES TOTAL				\$173,085
08600WINDOWS				
Windows Aluminum	752	SF	50.00	\$37,600
Kalwal garage panels-shops/vehicle/equip/wash	2,200	SF	38.00	\$83,600
WINDOWS TOTAL				\$121,200
09-FINISHES				
09250-FINISHES				
GWB to interior of exterior wall	8,880	SF	2.50	\$22,200
<i>Interior Partitions</i>				
3 5/8" Metal stud, GWB both sides and insulation	15,240	SF	5.20	\$79,248
3 5/8" Metal stud, GWB both sides and insulation above CMU	11,800	SF	5.20	\$61,360
Premium for MR board in wet areas	1,800	SF	0.45	\$810
Premium for extra layer GWB for fire rating	841	SF	1.25	\$1,051
ACT ceiling	14,000	SF	2.00	\$28,000
GWB ceilings and soffits	750	SF	7.75	\$5,813
Carpet	7,000	SF	3.00	\$21,000
Ceramic wall tile to 4ft	9,000	SF	9.00	\$81,000
Ceramic floor tile	1,400	SF	9.00	\$12,600
Sealed Concrete	46,450	SF	0.45	\$20,903
Vinyl flooring	6,500	SF	1.80	\$11,700
Vinyl base	7,890	LF	1.20	\$9,468
FINISHES TOTAL				\$355,152
09900-PAINTING				
Paint GWB walls	27,040	SF	0.60	\$16,224
Premium for epoxy paint in wet areas	1,800	SF	0.60	\$1,080
Paint CMU walls	11,724	SF	0.65	\$7,621
Paint GWB ceiling	750	SF	0.70	\$525
Paint doors and frames	86	EA	90.00	\$7,740
Epoxy paint to exposed steel roof framing	72,283	SF	1.60	\$115,653



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GSF 79,283

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
PAINTING TOTAL				\$148,842
10-SPECIALTIES				
10000- SPECIALTIES				
Allowance for signage and directory	1	AL	5,000.00	\$5,000
Markerboards and tackboards	500	SF	11.00	\$5,500
Toilet partitions	4	EA	750.00	\$3,000
Urinal screens	1	EA	225.00	\$225
Shower stalls	3	EA	800.00	\$2,400
Bathroom equipment	4	RMS	300.00	\$1,200
Framed mirrors (stainless steel	100	SF	26.00	\$2,600
Lockers; full height	94	EA	120.00	\$11,280
Louvres	560	SF	35.00	\$19,600
Allow recessed fire extinguishers and cabinets	20	EA	400.00	\$7,928
Roof hatch & ladder	2	EA	3,500.00	\$7,000
SPECIALTIES TOTAL				\$65,733
11-EQUIPMENT				
11450- EQUIPMENT				
Gantry rail system including support steel	1	EA	10,500.00	\$10,500
Portable lifting equipment 50,000lbs capacity	4	SET	38,600.00	\$154,400
Wash equipment	1	LS	50,000.00	\$50,000
Bridge crane 2 bay capacity	1	EA	45,000.00	\$45,000
Light duty "Jib Crane" for tire shop	1	EA	3,500.00	\$3,500
Overhead lubrication system	1	LS	55,000.00	\$55,000
Exhaust removal system	3	SET	8,400.00	\$25,200
Fixed 2 piece lifting equipment 12000 capacity	2	SET	20,000.00	\$40,000
Shelving , pallet racks and bins as per equipment list	1	LS	38,000.00	\$38,000
Allowance for kitchenette equipment	1	LS	2,000.00	\$2,000
Water reclamation equipment in washing bay	1	LS	3,000.00	\$3,000
EQUIPMENT TOTAL				\$426,600
12-FURNISHINGS				
12000-FURNISHINGS				
Recessed entry mat	225	SF	25.00	\$5,625
Kitchen base units and worktop	30	LF	250.00	\$7,500
Kitchen wall units	35	LF	160.00	\$5,600
Window treatments	276	SF	2.75	\$759
Miscellaneous fixed furnishings	1	LS	5,000.00	\$5,000
FURNISHINGS TOTAL				\$24,484
13-SPECIAL CONSTRUCTION				
13000-SPECIAL CONSTRUCTION				
Pre-engineered metal building system	72,533	SF	28.00	\$2,030,924
Wash bay FRP liner	3,000	SF	6.00	\$18,000
Snow guards	1,300	LF	3.50	\$4,550
Admin upper level floor framing	7,000	SF	10.00	\$70,000
SPECIAL CONSTRUCTION TOTAL				\$2,123,474



New Public Works Facility
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GSF 79,283

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
15300-FIRE PROTECTION				
Sprinkler Coverage	79,283	SF	\$3.75	\$297,311
6" Water Service	1	LS	\$1,250.00	\$1,250
6" Backflow Preventer	6	EA	\$4,800.00	\$28,800
6" Alarm Valve w/ trim	6	EA	\$3,250.00	\$19,500
3" Dry Alarm Valve w/ compressor	12	EA	\$2,100.00	\$25,200
Siamese Connection	6	EA	\$1,250.00	\$7,500
Zones w/ standpipe	8	EA	\$2,250.00	\$18,000
Testing	1	LS	\$1,250.00	\$1,250
Design & Engineering	1	LS	\$3,500.00	\$3,500
Permits & Fees	1	LS	\$1,500.00	\$1,500
Lift	1	LS	\$3,500.00	\$3,500
FIRE PROTECTION TOTAL				\$407,311
15400-PLUMBING				
Fluid distribution system; storage tanks, drums ,piping etc	1	LS	100,000.00	\$100,000
Air Compressor w/ dryer	1	EA	\$4,500.00	\$4,500
Water reclamation system	1	LS	25,000.00	\$25,000
High pressure washing system	1	LS	16,000.00	\$16,000
Water Closets P-1	4	EA	\$945.00	\$3,780
Water Closets P-1A	2	EA	\$985.00	\$1,970
Urinal P-2	1	EA	\$920.00	\$920
Urinal P-2A	1	EA	\$935.00	\$935
Lavatory P-3	2	EA	\$685.00	\$1,370
Lavatory P-3A	2	EA	\$710.00	\$1,420
Shower P-5	2	EA	\$1,450.00	\$2,900
Shower P-5A	1	EA	\$1,650.00	\$1,650
Water Cooler P-7	8	EA	\$1,250.00	\$10,000
Janitor Sink P-8	1	EA	\$710.00	\$710
Kitchen Sink P-9	1	EA	\$680.00	\$680
Garage Sink	4	EA	\$750.00	\$3,000
Hose Bibbs HB	12	EA	\$144.00	\$1,728
Wall Hydrant WH	12	EA	\$257.00	\$3,084
Eyewash Station EWS	4	EA	\$850.00	\$3,400
2" Backflow Prevented RCP-1	5	EA	\$1,050.00	\$5,250
Water Heater WH-1 80 gal	1	EA	\$3,850.00	\$3,850
Mixing Valves MV-1	3	EA	\$475.00	\$1,425
3" Water Service w/ meter	1	EA	\$4,000.00	\$4,000
Oily Water Separator	1	EA	\$9,250.00	\$9,250
Elevator Sump Pump	1	EA	\$1,950.00	\$1,950
Floor Clean Outs				
4" FCO	42	EA	\$325.00	\$13,650
Floor Drains:				
-3" FD bathrooms	54	EA	\$245.00	\$13,230
-4" FD	44	EA	\$310.00	\$13,640
-Trench Covers	345	LF	\$85.00	\$29,325
Roof Drains	50	EA	\$325.00	\$16,250
Storm Piping				



New Public Works Facility
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GSF 79,283

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
- 4"	1,600	LF	\$31.20	\$49,920
Waste and vent piping, below grade:				
- 4"	1,100	LF	\$29.45	\$32,395
- 3"	1,000	LF	\$22.45	\$22,450
Waste and vent piping, above grade:				
- 4"	1,290	LF	\$29.45	\$37,991
- 2"	1,200	LF	\$18.75	\$22,500
Garage Waste and vent piping, below grade:				
- 4"	2,200	LF	\$29.45	\$64,790
Garage Waste and vent piping, above grade:				
- 4"	1,345	LF	\$29.45	\$39,610
- 3"	890	LF	\$22.45	\$19,981
Domestic water piping:				
- Branch	560	LF	\$13.10	\$7,336
- 1"	3,500	LF	\$15.55	\$54,425
- 1-1/2"	3,400	LF	\$20.20	\$68,680
- 2"	1,200	LF	\$23.87	\$28,644
- 3"	780	LF	\$33.17	\$25,873
Domestic water pipe insulation:				
- 3/4"		LF	\$3.58	
- 1"	3,500	LF	\$4.01	\$14,035
- 1-1/2"	3,400	LF	\$6.25	\$21,250
- 2"	1,200	LF	\$7.20	\$8,640
- 3"	1,000	LF	\$8.12	\$8,120
Air Piping:				
- Branch"	1,250	LF	\$14.10	\$17,625
Gas Piping:				
- Branch	1,200	LF	\$12.10	\$14,520
- 2"	1,400	LF	\$17.55	\$24,570
- 3"	1,200	LF	\$28.42	\$34,104
Lift	12	EA	\$2,500.00	\$30,000
Valves and specialties	1	LS	\$3,200.00	\$3,200
Permits & Fee's	1	LS	\$800.00	\$800
Test and sterilize	1	LS	\$1,750.00	\$1,750
Shop drawings	1	LS	\$2,850.00	\$2,850
PLUMBING TOTAL				\$950,925
15500-HVAC				
HVAC Vehicle storage	45,398	SF	\$12.00	\$544,776
HVAC Maint shops & wash bay	20,205	SF	\$17.00	\$343,485
HVAC Admin & employee facilities building	13,680	SF	\$20.00	\$273,600
HVAC TOTAL				\$1,161,861



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ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
16-ELECTRICAL				
<i>Interior Electrical</i>				
<i>Gear & Distribution</i>				
Normal Power				
MDP 800A 277/480V with metering and TVSS	6	EA	\$15,000.00	\$90,000
Panelboard 400A MCB 277/480V	8	EA	\$4,200.00	\$33,600
Panelboard 225A MCB 277/480V	8	EA	\$2,200.00	\$17,600
Transformer 480V -120/208V 75KVA K-13	8	EA	\$4,450.00	\$35,600
Transformer 480V -120/208V 45KVA K-13	4	EA	\$3,350.00	\$13,400
Panelboard 225A MCB 120/208V	6	EA	\$2,200.00	\$13,200
Panelboard 100A MCB 120/208V	6	EA	\$1,700.00	\$10,200
400A feed	2,300	LF	\$45.00	\$103,500
225A feed	2,300	LF	\$28.00	\$64,400
100A feed	2,300	LF	\$11.00	\$25,300
Grounding and bonding	1	LS	\$2,000.00	\$2,000
Generator Power	1	LS	\$85,000.00	\$85,000
350KW 277/480V generator gas with enclosure	1	EA	\$110,000.00	\$110,000
277/480V ATS	1	EA	\$6,000.00	\$6,000
277/480V panelboard	8	EA	\$2,200.00	\$17,600
Transformer 480V -120/208V 45KVA K-13	4	EA	\$3,350.00	\$13,400
100A 120/208V panelboard	4	EA	\$1,700.00	\$6,800
MI feed	12,000	LF	\$40.00	\$480,000
200A feed	650	LF	\$25.00	\$16,250
<i>Equipment Wiring</i>				
Electrical feed, safety switch and connection to HVAC equipment and building operations equipment	79,283	SF	\$4.00	\$317,132
<i>Lighting & Branch Power</i>				
Lighting to admin/circulation areas	345	EA	\$160.00	\$55,200
Lighting to vehicle storage area	175	EA	\$450.00	\$78,750
Lighting to vehicle service area workshops	150	EA	\$450.00	\$67,500
Lighting to administration space	125	EA	\$150.00	\$18,750
Exterior building mtd flood lighting	36	EA	\$350.00	\$12,600
Lighting control device	110	EA	\$50.00	\$5,500
Time clock with contactor and photo cell	25	EA	\$500.00	\$12,500
Duplex receptacle	780	EA	\$20.00	\$15,600
Device box	350	EA	\$20.00	\$7,000
Lighting and branch circuitry	67,000	LF	\$4.00	\$268,000
<i>Fire Alarm</i>				
Fire alarm system, addressable, class A in conduit	65	PTS	\$500.00	\$32,500
<i>Telephone/Data/CATV</i>				
Demarcation board and rack		EA	\$3,000.00	
Cable tray	450	LF	\$15.00	\$6,750



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GSF 79,283

ELEMENT	QUANTITY	UNIT	UNIT RATE	COST
Device box with conduit stub to cable tray for (voice, data, CATV)		EA	\$120.00	
Cabling and devices NIC				
<i>Dispatch Rough-In</i>				
Dispatch room empty conduit rough-in	1	LS	\$5,000.00	\$5,000
Antenna systems rough-in	1	LS	\$2,500.00	\$2,500
<i>Lightning Protection</i>				
Lightning protection	1	LS	\$10,000.00	\$10,000
<i>Reimbursable</i>				
Fees & Permits not required				
Temp power & lights	1	LS	\$10,000.00	\$10,000
ELECTRICAL TOTAL				\$2,069,132

				GSF	79,283
ELEMENT	QUANTITY	UNIT	UNIT RATE	COST	
02-BUILDING SITEWORK					
02100-SITE PREPARATION					
Hazardous material abatement internally and within site	by others				
Clear site vegetation	174,283	SF	0.15		\$26,142
Demolition-buildings	1	LS	80,000.00		\$80,000
Demolition -fule islands	1	LS	40,000.00		\$40,000
Selective site demo, abandonunderground utilities	1	LS	15,000.00		\$15,000
Demo-Bit concrete pavement	8,500	SY	8.00		\$68,000
Demo-Bit concrete pavement-C street	1,300	SY	8.00		\$10,400
Demo-Bit concrete pavement-Woodland street	930	SY	8.00		\$7,440
Temporary drainage swales	4	EA	1,200.00		\$4,800
Hay bales and silt fence	1,250	LF	3.25		\$4,063
Rough and fine grade building footprint	79,283	SF	0.60		\$47,570
Roads and paving					
Rough and fine grading	174,283	SF	0.65		\$113,284
12" gravel base to DOT standard	174,283	SF	0.60		\$104,570
Bituminous concrete roads and parking surfacing; heavy duty	174,283	SF	1.55		\$270,139
Granite curb	500	LF	26.00		\$13,000
Concrete sidewalk, 4" thick	100	SF	4.10		\$410
Premium for steps and ramp to fronr entrance	1	LS	2,800.00		\$2,800
Handrails / guardrails	35	LF	100.00		\$3,500
Steel pipe bollards at coiling door openings etc	80	EA	325.00		\$26,000
Pavement markings	1	LS	4,500.00		\$4,500
Parking sign, Handicap	4	EA	50.00		\$200
Concrete dumpster pads	600	SF	5.50		\$3,300
Utilities					
6" HDPE drain including trenching and backfilling	400	LF	29.00		\$11,600
8" perforated drain	1,000	LF	44.00		\$44,000
12" RCP storm sewer incl trench and backfill	2,000	LF	35.00		\$70,000
Detention basin 30 x 20 x 5	1	EA	3,400.00		\$3,400
Flared end dissipator	1	LS	800.00		\$800
Outfall	1	LS	2,000.00		\$2,000
Catchbasins	13	EA	1,500.00		\$19,500
Manhole	7	EA	2,750.00		\$19,250
Fire and Domestic Water service and fixtures	1	LS	10,000.00		\$10,000
Gas service	1	LS	5,000.00		\$5,000
Connection to existing infrastructure	1	LS	10,000.00		\$10,000
Fuel tanks and distribution system					
6000 gallon underground Gasoline or Diesel tank including concrete chamber and cover slab	3	EA	45,000.00		\$135,000
Distribution system	1	LS	40,000.00		\$40,000
Site Electrical					
Tap manhole	1	EA	\$1,000.00		\$1,000

New Public Works Facility
 Sitework
 Belmont, MA

5-Apr-06
 Schematic Estimate

				GSF	79,283
ELEMENT	QUANTITY	UNIT	UNIT RATE	COST	
Primary electrical service ductbank 2-4" PVC	600	LF	\$55.00	\$33,000	
Transformer pad (transformer by utility co)	1	EA	\$2,000.00	\$2,000	
Secondary service ductbank 800A	600	LF	\$100.00	\$60,000	
Tap existing communication manhole	1	EA	\$1,000.00	\$1,000	
Communication service ductbank	600	LF	\$75.00	\$45,000	
<i>Furniture</i>					
Perimter chain link fence allowance	1,500	LF	14.00	\$21,000	
Flagpole	1	LS	3,000.00	\$3,000	
D.P.W sign	1	EA	1,500.00	\$1,500	
Other exterior Signs	9	EA	200.00	\$1,800	
Precast concrete material storage bins	1	LS	55,000.00	\$55,000	
<i>Planting</i>					
Trees	13	EA	600.00	\$7,800	
Lawns	56,000	SF	0.85	\$47,600	
Shrubs	34	EA	55.00	\$1,870	
Subtotal				\$1,497,237	